Nigeria



Demographic and Health Survey

2018



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CONTENTS

TAB	LES AN	D FIGURES	ix
FOR	EWORI)	xix
2018	NIGER	IA DEMOGRAPHIC AND HEALTH SURVEY STEERING COMMITTEE	xxi
CON	TRIBUT	FORS TO THE REPORTx	xiii
REA	DING A	ND UNDERSTANDING TABLES FROM THE 2018 NIGERIA DHS	ΚΧV
		S AND ABBREVIATIONSxx	
SUST	ΓAINAΒ	LE DEVELOPMENT GOAL INDICATORSxxx	vii
MAP	OF NIC	GERIA xxx	viii
1	INTE	RODUCTION AND SURVEY METHODOLOGY	1
1	1.1	Survey Objectives	
	1.1	Sample Design	
	1.3	Questionnaires	
	1.3	Anthropometry, Anaemia Testing, Malaria Testing, and Sickle Cell Anaemia Testing	
	1.4	Pretest	
	1.6	Training of Field Staff	
	1.7	Fieldwork	
	1.8	Data Processing	
	1.9	Response Rates	
	1.9	Response Nates	0
2	HOU	SING CHARACTERISTICS AND HOUSEHOLD POPULATION	.11
	2.1	Drinking Water Sources and Treatment	.11
	2.2	Sanitation	.13
	2.3	Exposure to Smoke inside the Home	.15
	2.4	Household Wealth	.15
	2.5	Handwashing	.16
	2.6	Household Population and Composition	.16
	2.7	Children's Living Arrangements and Parental Survival	.17
	2.8	Birth Registration	.17
	2.9	Education	.18
		2.9.1 Educational Attainment	.18
		2.9.2 School Attendance	.19
3		RACTERISTICS OF RESPONDENTS	
		Basic Characteristics of Survey Respondents.	
	3.2	Education and Literacy	
	3.3	Mass Media Exposure	
	3.4	Internet Usage	
	3.5	Employment	
	3.6	Occupation	
	3.7	Health Insurance Coverage	
	3.8	Tobacco Use	.49
4	MAR	RIAGE AND SEXUAL ACTIVITY	.79
	4.1	Marital Status	
	4.2	Polygyny	
	4.3	Age at First Marriage	

	4.4	Age at First Sexual Intercourse	81
	4.5	Recent Sexual Activity	82
5	FER'	TILITY	97
	5.1	Current Fertility	
	5.2	Children Ever Born and Living	
	5.3	Birth Intervals	
	5.4	Insusceptibility to Pregnancy	
	5.5	Age at First Birth	
	5.6	Teenage Childbearing	
6	FER'	TILITY PREFERENCES	117
	6.1	Desire for Another Child	
	6.2	Ideal Family Size	
	6.3	Fertility Planning Status	
	6.4	Wanted Fertility Rates	
7	FAM	IILY PLANNING	129
•	7.1	Contraceptive Knowledge and Use	
	7.2	Source of Modern Contraceptive Methods	
	7.3	Informed Choice	
	7.4	Discontinuation of Contraceptives	
	7.5	Demand for Family Planning	
	7.6	Contact of Nonusers with Family Planning Providers	
8	INFA	ANT AND CHILD MORTALITY	163
	8.1	Infant and Child Mortality	
	8.2	Biodemographic Risk Factors	
	8.3	Perinatal Mortality	
	8.4	High-risk Fertility Behaviour	
9	MAT	TERNAL HEALTH CARE	173
	9.1	Antenatal Care Coverage and Content	
		9.1.1 Skilled Providers	
		9.1.2 Timing and Number of ANC Visits	
	9.2	Components of ANC Visits	
	9.3	Protection against Neonatal Tetanus	
	9.4	Delivery Services.	
		9.4.1 Institutional Deliveries	
		9.4.2 Skilled Assistance during Delivery	
		9.4.3 Delivery by Caesarean	
		9.4.4 Referral to Place of Delivery	
		9.4.5 Reasons for Referral and Time Taken	
		9.4.6 Means of Transportation to Health Facility	
		9.4.7 Thermal Care for Newborns	
		9.4.8 Cord Care	
	9.5	Postnatal Care	
	- ···	9.5.1 Postnatal Health Check for Mothers	
		9.5.2 Postnatal Health Check for Newborns	
	9.6	Problems in Accessing Health Care	
	9.7	Fistula	

10	CHIL	D HEALTH	223
	10.1	Birth Weight	223
	10.2	Vaccination of Children	224
	10.3	Symptoms of Acute Respiratory Infection	227
	10.4	Fever	228
	10.5	Diarrhoeal Disease	228
		10.5.1 Prevalence of Diarrhoea and Treatment-seeking Behaviour	
		10.5.2 Feeding Practices	229
		10.5.3 Oral Rehydration Therapy and Other Treatments	229
		10.5.4 Knowledge of ORS Packets	
	10.6	Treatment of Childhood Illness	
	10.7	Disposal of Children's Stools	231
11	NUTR	RITION OF CHILDREN AND WOMEN	255
	11.1	Nutritional Status of Children	255
		11.1.1 Anthropometry Training and Data Collection	257
		11.1.2 Levels of Child Malnutrition	
	11.2	Infant and Young Child Feeding Practices	259
		11.2.1 Early Initiation of Breastfeeding	259
		11.2.2 Exclusive Breastfeeding and Continued Breastfeeding	260
		11.2.3 Median Duration of Breastfeeding	260
		11.2.4 Bottle Feeding	261
		11.2.5 Introduction of Complementary Foods	261
		11.2.6 Minimum Dietary Diversity, Minimum Meal Frequency, and Minim	ıum
		Acceptable Diet	262
	11.3	Anaemia Prevalence in Children	263
	11.4	Prevalence of Sickle Cell Trait and Disease in Children	265
	11.5	Presence of Iodised Salt in Households	265
	11.6	Micronutrient Intake and Supplementation among Children	
	11.7	Women's Nutritional Status	266
	11.8	Anaemia Prevalence in Women	
	11.9	Micronutrient Supplementation and Deworming during Pregnancy	268
	11.10	Minimum Dietary Diversity for Women	269
12	MALA	ARIA	297
	12.1	Ownership of Insecticide-treated Nets.	298
	12.2	Household Access to and Use of ITNs	300
	12.3	Use of ITNs by Children and Pregnant Women	301
	12.4	Reasons for Not Using the Net the Night Preceding the Interview	302
	12.5	Malaria in Pregnancy	302
	12.6	Case Management of Malaria in Children	303
	12.7	Prevalence of Low Haemoglobin in Children	304
	12.8	Prevalence of Malaria in Children	
	12.9	Beliefs about the Effectiveness of Malaria Behaviours and Products and about	ut Malaria
		Consequences	307
13	HIV/A	AIDS-RELATED KNOWLEDGE, ATTITUDES, AND BEHAVIOUR	343
	13.1	HIV/AIDS Knowledge, Transmission, and Prevention Methods	
	13.2	Knowledge about Mother-to-Child Transmission	
	13.3	Discriminatory Attitudes towards People Living with HIV	
	13.4	Multiple Sexual Partners	
	13.5	Paid Sex	348
	13.6	Male Circumcision	348

	13.7	Self-reporting of Sexually Transmitted Infections	349		
	13.8	HIV/AIDS-related Knowledge and Behaviour among Young People	349		
		13.8.1 Comprehensive Knowledge			
		13.8.2 First Sex			
		13.8.3 Premarital Sex	350		
		13.8.4 Multiple Sexual Partners	350		
14	ADUL	T AND MATERNAL MORTALITY	371		
	14.1	Data	371		
	14.2	Direct Estimates of Adult Mortality	372		
	14.3	Trends in Adult Mortality	373		
	14.4	Direct Estimates of Maternal Mortality	373		
	14.5	Trends in Pregnancy-Related Mortality	374		
15	WOM	EN'S EMPOWERMENT	379		
	15.1	Married Women's and Men's Employment	380		
	15.2	Control over Women's Earnings	381		
	15.3	Control over Men's Earnings	381		
	15.4	Women's Control over Their Own Earnings and over Those of Their Husbands	382		
	15.5	Women's and Men's Ownership of Assets	382		
	15.6	Possession of Title or Deed for a House or Land	383		
	15.7	Ownership and Use of Bank Accounts and Mobile Phones	383		
	15.8	Women's Participation in Decision Making	383		
	15.9	Attitudes toward Wife Beating	385		
	15.10	Negotiating Sexual Relations	386		
	15.11	Women's Empowerment and Demographic and Health Outcomes			
16	DOMESTIC VIOLENCE				
	16.1	Measurement of Violence	428		
	16.2	Women's Experience of Physical Violence	429		
		16.2.1 Perpetrators of Physical Violence	430		
	16.3	Experience of Sexual Violence	430		
		16.3.1 Prevalence of Sexual Violence	430		
		16.3.2 Perpetrators of Sexual Violence	430		
	16.4	Experience of Different Forms of Violence	430		
	16.5	Marital Control by Husband	431		
	16.6	Forms of Spousal Violence	431		
		16.6.1 Prevalence of Spousal Violence	431		
		16.6.2 Onset of Spousal Violence	434		
	16.7	Injuries to Women due to Spousal Violence	434		
	16.8	Violence Initiated by Women against Husbands	435		
	16.9	Help Seeking among Women Who Have Experienced Violence	435		
17	DISAF	BILITY	457		
	17.1	Disability by Domain and Age			
	17.2	Disability among Adults by Other Background Characteristics	458		
18	FEMA	LE GENITAL MUTILATION			
	18.1	Respondents' Knowledge of Female Genital Mutilation			
	18.2	Prevalence of Female Genital Mutilation			
		18.2.1 Prevalence and Type of Circumcision	466		
		18.2.2 Unclassified Types of Female Circumcision	467		
		18.2.3 Age at Circumcision	468		

18.3	Circumcision of Daughters	468
18.4	Person Who Performed the Circumcision	469
18.5	Attitudes towards Female Circumcision	469
REFERENCE	S	485
APPENDIX A	SAMPLE DESIGN	489
A.1	Introduction	489
A.2	Sample Frame	489
A.3	Sample Design and Implementation	491
A.4	Sample Probabilities and Sampling Weights	496
APPENDIX B	ESTIMATES OF SAMPLING ERRORS	497
APPENDIX C	DATA QUALITY TABLES	547
APPENDIX D	PERSONS INVOLVED IN THE 2018 NIGERIA DEMOGR	APHIC AND HEALTH
SURV	EY	557
APPENDIX E	QUESTIONNAIRES	563
Househ	nold Questionnaire	565
Woman	n's Questionnaire	583
Man's	Questionnaire	663
Biomar	rker Questionnaire	689
Fieldwo	orker Questionnaire	705

TABLES AND FIGURES

1	INTRODUCTION	ON AND SURVEY METHODOLOGY	1
	Table 1.1	Results of the household and individual interviews	9
	Figure 1.1	2018 Nigeria DHS sample design	2
2	HOUSING CH	ARACTERISTICS AND HOUSEHOLD POPULATION	11
-	Table 2.1.1	Household drinking water	
	Table 2.1.1	Drinking water according to zone, state, and wealth	
	Table 2.1.3	Treatment of household drinking water	
	Table 2.2	Availability of water	
	Table 2.3.1	Household sanitation facilities	
	Table 2.3.1	Sanitation facility type according to zone, state, and wealth	
	Table 2.4	Household characteristics	
	Table 2.5	Household possessions	
	Table 2.6	Wealth quintiles	
	Table 2.7	Handwashing	
	Table 2.8	Household population by age, sex, and residence	
	Table 2.9	Household composition	
	Table 2.10	Children's living arrangements and orphanhood	
	Table 2.11	Birth registration of children under age 5	
	Table 2.12	Birth registration of children under age 5 by authority	
	Table 2.13.1	Educational attainment of the female household population	
	Table 2.13.1	Educational attainment of the male household population	
	Table 2.14	School attendance ratios	
	Figure 2.1	Household drinking water by residence	12
	Figure 2.2	Improved water source by state	
	Figure 2.3	Household toilet facilities by residence	
	Figure 2.4	Household wealth by residence	16
	Figure 2.5	Population pyramid	17
	Figure 2.6	Birth registration by household wealth	18
	Figure 2.7	Secondary school attendance by household wealth	19
3	CHARACTERI	ISTICS OF RESPONDENTS	
	Table 3.1	Background characteristics of respondents	
	Table 3.2.1	Educational attainment: Women	
	Table 3.2.2	Educational attainment: Men	
	Table 3.3.1	Literacy: Women	
	Table 3.3.2	Literacy: Men	
	Table 3.4.1	Exposure to mass media: Women	
	Table 3.4.2	Exposure to mass media: Men	
	Table 3.5.1	Internet usage: Women	
	Table 3.5.2	Internet usage: Men	
	Table 3.6.1	Employment status: Women	
	Table 3.6.2	Employment status: Men	
	Table 3.7.1	Occupation: Women	
	Table 3.7.2	Occupation: Men	
	Table 3.8	Type of employment: Women	
	Table 3.9.1	Health insurance coverage: Women	
	Table 3.9.2	Health insurance coverage: Men	
	Table 3.10.1	Tobacco smoking: Women	
	Table 3.10.2	Tobacco smoking: Men	77

	Table 3.11	Average number of cigarettes smoked daily: Men	78
	Table 3.12	Smokeless tobacco use and any tobacco use	
	Figure 3.1	Education of survey respondents	44
	Figure 3.1	Secondary education by household wealth	
	Figure 3.3	Secondary education by state	
	Figure 3.4	Exposure to mass media.	
	Figure 3.5 Figure 3.6	Employment status by education	
4	· ·	AND SEXUAL ACTIVITY	70
4	Table 4.1	Current marital status	
	Table 4.2.1	Number of women's co-wives	
	Table 4.2.2	Number of men's wives	
	Table 4.3	Age at first marriage.	
	Table 4.4	Median age at first marriage by background characteristics	
	Table 4.5		
	Table 4.5	Age at first sexual intercourse	91
	Table 4.6	Median age at first sexual intercourse according to background characteristics	92
	Table 4.7.1	Recent sexual activity: Women	
	Table 4.7.2	Recent sexual activity: Men	
	Figure 4.1	Marital status	79
	Figure 4.2	Trends in polygyny	
	Figure 4.3	Polygyny by state	
	Figure 4.4	Women's median age at marriage by wealth	
	Figure 4.5	Median age at first sex and first marriage	
	Figure 4.6	Trends in early sexual intercourse	
5	FERTILITY		07
3	Table 5.1	Current fertility	
	Table 5.2	Fertility by background characteristics	
	Table 5.3.1	Trends in age-specific fertility rates	
	Table 5.3.2	Trends in age-specific and total fertility rates	
	Table 5.4	Children ever born and living	
	Table 5.5	Birth intervals.	
	Table 5.6		107
		Posinarium amenorrioea ansimence and insistentiality	109
		Postpartum amenorrhoea, abstinence, and insusceptibility	109
	Table 5.7	Median duration of amenorrhoea, postpartum abstinence, and	
	Table 5.7	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility	110
	Table 5.7 Table 5.8	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility	110
	Table 5.7 Table 5.8 Table 5.9	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth	110 111
	Table 5.7 Table 5.8 Table 5.9 Table 5.10	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth	110 111 111
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood	110 111 112 113
	Table 5.7 Table 5.8 Table 5.9 Table 5.10	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth	110 111 112 113
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood Sexual and reproductive health behaviours before age 15 Trends in fertility by residence	110 111 112 113 115
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood. Sexual and reproductive health behaviours before age 15. Trends in fertility by residence Trends in age-specific fertility	110 111 112 113 115 98 98
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood Sexual and reproductive health behaviours before age 15 Trends in fertility by residence Trends in age-specific fertility Fertility by state	110 111 112 113 115 98 98
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood. Sexual and reproductive health behaviours before age 15. Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education	110 111 112 113 115 98 98 98
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4 Figure 5.5	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood. Sexual and reproductive health behaviours before age 15 Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education Birth intervals	110 111 112 113 115 98 98 98 99
	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood. Sexual and reproductive health behaviours before age 15. Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education	110 111 112 113 115 98 98 98
6	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4 Figure 5.5 Figure 5.6 FERTILITY P.	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood Sexual and reproductive health behaviours before age 15 Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education Birth intervals Teenage pregnancy and motherhood by state REFERENCES	1101111121159898999999102
6	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4 Figure 5.5 Figure 5.6 FERTILITY P Table 6.1	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood. Sexual and reproductive health behaviours before age 15. Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education Birth intervals. Teenage pregnancy and motherhood by state REFERENCES. Fertility preferences by number of living children.	11011111211598989999102117
6	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4 Figure 5.5 Figure 5.6 FERTILITY P.	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood Sexual and reproductive health behaviours before age 15 Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education Birth intervals Teenage pregnancy and motherhood by state REFERENCES	1101111121159898999999102
6	Table 5.7 Table 5.8 Table 5.9 Table 5.10 Table 5.11 Table 5.12 Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4 Figure 5.5 Figure 5.6 FERTILITY P Table 6.1	Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility Menopause Age at first birth Median age at first birth Teenage pregnancy and motherhood. Sexual and reproductive health behaviours before age 15. Trends in fertility by residence Trends in age-specific fertility Fertility by state Fertility by mother's education Birth intervals. Teenage pregnancy and motherhood by state REFERENCES. Fertility preferences by number of living children.	1101111121159898999999102117122122123

	Table 6.4	Mean ideal number of children	125
	Table 6.5	Fertility planning status	127
	Table 6.6	Wanted fertility rates	
	Figure 6.1	Trends in desire to limit childbearing by number of living children	118
	Figure 6.2	Desire to limit childbearing by number of living children	
	Figure 6.3	Ideal family size	
	Figure 6.4	Ideal family size by number of living children	
	Figure 6.5	Fertility planning status.	
	Figure 6.6	Trends in wanted and actual fertility	
7	FAMILY PLAN	NNING	129
,	Table 7.1	Knowledge of contraceptive methods	
	Table 7.1 Table 7.2	Current use of contraception by age	
	Table 7.2	Trends in current use of contraception	
	Table 7.5	Current use of contraception according to background characteristics	
	Table 7.4 Table 7.5	,	
		Knowledge of fertile period	
	Table 7.6	Knowledge of fertile period by age	
	Table 7.7	Source of modern contraception methods	
	Table 7.8	Use of social marketing brand pills and condoms	
	Table 7.9	Informed choice	
	Table 7.10	Twelve-month contraceptive discontinuation rates	
	Table 7.11	Reasons for discontinuation	14/
	Table 7.12.1	Need and demand for family planning among currently married women	148
	Table 7.12.2	Need and demand for family planning for all women and for sexually	1 10
	14010 7.12.2	active unmarried women	150
	Table 7.13	Decision making about family planning	
	Table 7.14	Future use of contraception	
	Table 7.15.1	Exposure to family planning messages: Women	
	Table 7.15.2	Exposure to family planning messages: Women Exposure to family planning messages: Men	
	Table 7.16	Exposure to specific family planning messages.	
	Table 7.17	Contact of nonusers with family planning providers	
	14010 7.17	Contact of hondsets with family planning providers	101
	Figure 7.1	Contraceptive use	
	Figure 7.2	Trends in contraceptive use	
	Figure 7.3	Modern contraceptive use by state	
	Figure 7.4	Use of modern methods by education	
	Figure 7.5	Source of modern contraceptive methods	
	Figure 7.6	Contraceptive discontinuation rates	
	Figure 7.7	Demand for family planning	
	Figure 7.8	Trends in demand for family planning	
	Figure 7.9	Unmet need by state	135
8	INFANT AND	CHILD MORTALITY	
	Table 8.1	Early childhood mortality rates	168
	Table 8.2	Five-year early childhood mortality rates according to background	
		characteristics	168
	Table 8.3	Ten-year early childhood mortality rates according to additional	
		characteristics	
	Table 8.4	Perinatal mortality	
	Table 8.5	High-risk fertility behaviour	172
	Figure 8.1	Trends in early childhood mortality rates	164
	Figure 8.2	Under-5 mortality by state	
	Figure 8.3	Under-5 mortality by mother's education	

	Figure 8.4	Childhood mortality by previous birth interval	
	Figure 8.5	Perinatal mortality by mother's education	167
9	MATERNAL H	HEALTH CARE	173
	Table 9.1	Antenatal care	185
	Table 9.2	Number of antenatal care visits and timing of first visit	
	Table 9.3	Components of antenatal care	
	Table 9.4	Tetanus toxoid injections	
	Table 9.5	Place of delivery	
	Table 9.6	Assistance during delivery	
	Table 9.7	Caesarean section	
	Table 9.8	Reasons for opting for caesarean section	
	Table 9.9	Duration of stay in health facility after birth	
	Table 9.10	Referral to place of delivery	
	Table 9.11	Reasons for referral and time taken.	
	Table 9.12	Means of transportation to health facility	
	Table 9.13	Thermal care for newborns	
	Table 9.14	Cord care	
	Table 9.15	Use of chlorhexidine	
	Table 9.16	Timing of first postnatal check for the mother	
	Table 9.17	Type of provider of first postnatal check for the mother	
	Table 9.18	Timing of first postnatal check for the newborn	
	Table 9.19	Type of provider of first postnatal check for the newborn	
	Table 9.20	Content of postnatal care for newborns	
	Table 9.21	Problems in accessing health care	
	Figure 9.1	Trends in antenatal care coverage	
	Figure 9.2	Components of antenatal care	
	Figure 9.3	Trends in place of birth	
	Figure 9.4	Health facility births by mother's education	
	Figure 9.5	Health facility births by state	
	Figure 9.6	Assistance during delivery	
	Figure 9.7	Skilled assistance at delivery by household wealth	
	Figure 9.8	Postnatal care by place of delivery	181
10	CHILD HEAL?	ГН	223
	Table 10.1	Child's size and weight at birth	233
	Table 10.2	Vaccinations by source of information	235
	Table 10.3	Vaccinations by background characteristics	
	Table 10.4	Possession and observation of vaccination cards, according to	
		background characteristics	239
	Table 10.5	Prevalence and treatment of symptoms of ARI	
	Table 10.6	Source of advice or treatment for children with symptoms of ARI	
	Table 10.7	Prevalence and treatment of fever.	
	Table 10.8	Prevalence and treatment of diarrhoea	245
	Table 10.9	Feeding practices during diarrhoea	247
	Table 10.10	Oral rehydration therapy, zinc, and other treatments for diarrhoea	
	Table 10.11	Source of advice or treatment for children with diarrhoea	
	Table 10.12	Knowledge of ORS packets	250
	Table 10.13	Disposal of children's stools	
	Figure 10.1	Childhood vaccinations	225
	Figure 10.1		
	Figure 10.2	Trends in childhood vaccinations	
	Figure 10.3	Vaccination coverage by mother's education	
	Figure 10.4	Vaccination coverage by state	
	Figure 10.5	Feeding practices during diarrhoea	229

	Figure 10.6	Treatment of diarrhoea	230			
	Figure 10.7	Prevalence and treatment of childhood illness	231			
11	NUTRITION O	F CHILDREN AND WOMEN	255			
	Table 11.1	Nutritional status of children				
	Table 11.2	Initial breastfeeding				
	Table 11.3	Breastfeeding status by age				
	Table 11.4	Infant and young child feeding (IYCF) indicators on breastfeeding				
		status	276			
	Table 11.5	Median duration of breastfeeding				
	Table 11.6	Foods and liquids consumed by children in the day or night preceding				
		the interview	278			
	Table 11.7	Minimum acceptable diet	279			
	Table 11.8	Prevalence of anaemia in children	282			
	Table 11.9	Prevalence of sickle cell anaemia in children	284			
	Table 11.10	Presence of iodised salt in household	286			
	Table 11.11	Micronutrient intake among children	287			
	Table 11.12	Nutritional status of women	289			
	Table 11.13	Prevalence of anaemia in women				
	Table 11.14	Micronutrient intake among mothers	293			
	Table 11.15	Foods and liquids consumed by women in the day or night preceding				
		the interview	295			
	Figure 11.1	Stunting in children by state	258			
	Figure 11.2	Stunting in children by mother's education				
	Figure 11.3	Breastfeeding practices by age				
	Figure 11.4	IYCF indicators on minimum acceptable diet				
	Figure 11.5	Childhood anaemia by residence.				
	Figure 11.6	Anaemia in children by state				
12	MALARIA29					
	Table 12.1	Household possession of mosquito nets				
	Table 12.2	Source of mosquito nets				
	Table 12.3	Access to an insecticide-treated net (ITN)				
	Table 12.4	Access to an ITN by background characteristics				
	Table 12.5	Use of mosquito nets by persons in the household				
	Table 12.6	Use of existing ITNs	315			
	Table 12.7	Use of mosquito nets by children	316			
	Table 12.8	Use of mosquito nets by pregnant women	318			
	Table 12.9	Reasons for not using the specific net the night preceding the interview	319			
	Table 12.10	Use of intermittent preventive treatment (IPTp) by women during				
		pregnancy	321			
	Table 12.11	Prevalence, diagnosis, and prompt treatment of children with fever				
	Table 12.12	Source of advice or treatment for children with fever				
	Table 12.13	Type of antimalarial drugs used	325			
	Table 12.14	Coverage of testing for anaemia and malaria in children				
	Table 12.15	Haemoglobin <8.0 g/dl in children				
	Table 12.16	Prevalence of malaria in children				
	Table 12.17	Malaria prevalence among children with a fever in the last 2 weeks	332			
	Table 12.18.1	Beliefs about the effectiveness of the recommended malaria				
		behaviours and products: Women	334			
	Table 12.18.2	Beliefs about the effectiveness of the recommended malaria	_			
		behaviours and products: Men				
	Table 12.19.1	Beliefs about the consequences of malaria: Women				
	Table 12.19.2	Beliefs about the consequences of malaria: Men	340			

	Figure 12.1	Household ownership of ITNs	298
	Figure 12.2	Trends in household ownership of ITNs	
	Figure 12.3	ITN ownership by household wealth	
	Figure 12.4	ITN ownership by state	
	Figure 12.5	Source of ITNs	
	Figure 12.6	Access to and use of ITNs by residence	
	Figure 12.7	Trends in use of ITNs by pregnant women and children	
	Figure 12.8	Trends in IPTp use by pregnant women	
	Figure 12.9	Trends in malaria prevalence among children	
	Figure 12.10	Prevalence of malaria in children by age	
	Figure 12.11	Prevalence of malaria in children by state	
13	HIV/AIDS-REL	ATED KNOWLEDGE, ATTITUDES, AND BEHAVIOUR	343
	Table 13.1	Knowledge of HIV prevention methods	
	Table 13.2	Comprehensive knowledge about HIV	
	Table 13.3	Knowledge of prevention of mother-to-child transmission of HIV	
	Table 13.4	Discriminatory attitudes towards people living with HIV	
	Table 13.5.1	Multiple sexual partners and higher-risk sexual intercourse in the past	550
	14010 13.3.1	12 months: Women	358
	Table 13.5.2	Multiple sexual partners and higher-risk sexual intercourse in the past	
		12 months: Men	360
	Table 13.6	Payment for sexual intercourse and condom use at last paid sexual	
		intercourse	362
	Table 13.7	Male circumcision	363
	Table 13.8	Self-reported prevalence of sexually transmitted infections (STIs) and	
		STI symptoms	365
	Table 13.9	Women and men seeking treatment for STIs	
	Table 13.10	Comprehensive knowledge about HIV among young people	
	Table 13.11	Age at first sexual intercourse among young people	
	Table 13.12	Premarital sexual intercourse among young people	
	Table 13.13.1	Multiple sexual partners and higher-risk sexual intercourse in the past	
		12 months among young people: Women	369
	Table 13.13.2	Multiple sexual partners and higher-risk sexual intercourse in the past	
	- 110-10 - 10-10-10	12 months among young people: Men	370
	Figure 13.1	Knowledge of HIV prevention among women by state	345
	Figure 13.2	Knowledge of mother-to-child transmission (MTCT) of HIV	
	Figure 13.3	Trends in knowledge of mother-to-child transmission (MTCT) of HIV.	
	Figure 13.4	Discriminatory attitudes towards people living with HIV by education	
	Figure 13.5	Trends in comprehensive HIV knowledge among youth	
14	· ·	IATERNAL MORTALITY	
14			
	Table 14.1	Completeness of information on siblings	
	Table 14.2	Adult mortality rates	
	Table 14.3	Adult mortality probabilities	
	Table 14.4	Maternal mortality	3//
	Figure 14.1	Adult mortality rates by age	372
	Figure 14.2	Trends in the pregnancy-related mortality ratio (PRMR) with	
		confidence intervals	375
15	WOMEN'S EM	POWERMENT	379
	Table 15.1	Employment and cash earnings of currently married women and men	388
	Table 15.2.1	Control over women's cash earnings and relative magnitude of	
		women's cash earnings	389
	Table 15.2.2	Control over men's cash earnings	391

	Table 15.3	Women's control over their own earnings and over those of their	
		husbands	
	Table 15.4.1	Ownership of assets: Women	394
	Table 15.4.2	Ownership of assets: Men	
	Table 15.5.1	Ownership of title or deed for house: Women	398
	Table 15.5.2	Ownership of title or deed for house: Men	400
	Table 15.6.1	Ownership of title or deed for land: Women	402
	Table 15.6.2	Ownership of title or deed for land: Men	404
	Table 15.7.1	Ownership and use of bank accounts and mobile phones: Women	406
	Table 15.7.2	Ownership and use of bank accounts and mobile phones: Men	
	Table 15.8	Participation in decision making	
	Table 15.9.1	Women's participation in decision making by background	
		characteristics	
	Table 15.9.2	Men's participation in decision making by background characteristics	
	Table 15.10.1	Attitude toward wife beating: Women	
	Table 15.10.2	Attitude toward wife beating: Men	
	Table 15.11	Attitudes toward negotiating safer sexual relations with husband	
	Table 15.12	Ability to negotiate sexual relations with husband	421
	Table 15.13	Indicators of women's empowerment	423
	Table 15.14	Current use of contraception by women's empowerment	423
	Table 15.15	Ideal number of children and unmet need for family planning by	
		women's empowerment	424
	Table 15.16	Reproductive health care by women's empowerment	424
	Table 15.17	Early childhood mortality rates by women's status	425
	Figure 15.1	Employment by age	380
	Figure 15.2	Control over women's earnings	
	Figure 15.3	Ownership of assets	
	Figure 15.4	Women's participation in decision making	
	Figure 15.5	Attitudes towards wife beating.	
16	DOMESTIC VI	OLENCE	427
	Table 16.1	Experience of physical violence	
	Table 16.2	Experience of violence during pregnancy	
	Table 16.3	Persons committing physical violence	
	Table 16.4	Experience of sexual violence	
	Table 16.5	Persons committing sexual violence	
	Table 16.6	Age at first experience of sexual violence	443
	Table 16.7	Experience of different forms of violence	443
	Table 16.8	Marital control exercised by husbands	
	Table 16.9	Forms of spousal violence	
	Table 16.10	Spousal violence by background characteristics	447
	Table 16.11	Spousal violence by husband's characteristics and empowerment	++/
	14010 10.11	indicators	449
	Table 16.12	Violence by any husband/partner in the last 12 months	
	Table 16.13	Experience of spousal violence by duration of marriage	
	Table 16.14	Injuries to women due to spousal violence	
	Table 16.15	Violence by women against their husband by women's background	
		characteristics	452
	Table 16.16	Violence by women against their husband by husband's characteristics	
		and empowerment indicators	
	Table 16.17	Help seeking to stop violence	
	Table 16.18	Sources for help to stop the violence	456
	Figure 16.1	Women's experience of violence by marital status	
	Figure 16.2	Forms of spousal violence	
	Figure 16.3	Trends in women's experience of spousal violence	432

	Figure 16.4	Spousal violence by state	433
	Figure 16.5	Spousal violence by husband's alcohol consumption	
	Figure 16.6	Help seeking by type of violence experienced	
17	DISABILITY		457
	Table 17.1	Disability by domain and age	460
	Table 17.2.1	Disability among adults according to background characteristics:	
		Women	461
	Table 17.2.2	Disability among adults according to background characteristics: Men	463
	Figure 17.1	Degree of difficulty	458
	Figure 17.2	Level of difficulty in at least one domain	458
18	FEMALE GEN	IITAL MUTILATION	
	Table 18.1	Knowledge of female circumcision.	471
	Table 18.2	Prevalence of female circumcision	473
	Table 18.3	Unclassified types of female circumcision	475
	Table 18.4	Age at circumcision	
	Table 18.5	Prevalence of circumcision and age at circumcision: Girls age 0-14	
	Table 18.6	Circumcision of girls age 0-14 by mother's background characteristics	477
	Table 18.7	Infibulation among circumcised girls age 0-14	479
	Table 18.8	Aspects of circumcision among circumcised girls age 0-14 and women age 15-49	480
	Table 18.9	Opinions of women about whether circumcision is required by religion.	481
	Table 18.10	Opinions of women about whether the practice of circumcision should	
		continue	483
	Figure 18.1	Types of FGM	
	Figure 18.2	Trends in FGM by residence	
	Figure 18.3	FGM by age	
	Figure 18.4	FGM by state	
	Figure 18.5	Age at FGM	
	Figure 18.6	Attitudes about FGM by circumcision status	. 469
APP		E DESIGN	
	Table A.1	Population distribution	
	Table A.2	Enumeration areas	
	Table A.3	Sample allocation of clusters and households by state	492
	Table A.4	Sample allocation of expected completed interviews with women and men	493
	Table A.5	Sample implementation: Women	494
	Table A.6	Sample implementation: Men	495
APP	ENDIX B ESTIMA	ATES OF SAMPLING ERRORS	497
	Table B.1	List of selected variables for sampling errors, Nigeria DHS 2018	499
	Table B.2	Sampling errors: National sample, Nigeria DHS 2018	500
	Table B.3	Sampling errors: Urban sample, Nigeria DHS 2018	
	Table B.4	Sampling errors: Rural sample, Nigeria DHS 2018	
	Table B.5	Sampling errors: North Central sample, Nigeria DHS 2018	
	Table B.6	Sampling errors: North East sample, Nigeria DHS 2018	504
	Table B.7	Sampling errors: North West sample, Nigeria DHS 2018	
	Table B.8	Sampling errors: South East sample, Nigeria DHS 2018	
	Table B.9	Sampling errors: South South sample, Nigeria DHS 2018	
	Table B.10	Sampling errors: South West sample, Nigeria DHS 2018	
	Table B.11	Sampling errors: FCT-Abuja sample, Nigeria DHS 2018	
	Table B.12	Sampling errors: Benue sample, Nigeria DHS 2018	
	Table B.13	Sampling errors: Kogi sample, Nigeria DHS 2018	511

	Table B.14	Sampling errors: Kwara sample, Nigeria DHS 2018	
	Table B.15	Sampling errors: Nasarawa sample, Nigeria DHS 2018	513
	Table B.16	Sampling errors: Niger sample, Nigeria DHS 2018	514
	Table B.17	Sampling errors: Plateau sample, Nigeria DHS 2018	515
	Table B.18	Sampling errors: Adamawa sample, Nigeria DHS 2018	516
	Table B.19	Sampling errors: Bauchi sample, Nigeria DHS 2018	517
	Table B.20	Sampling errors: Borno sample, Nigeria DHS 2018	518
	Table B.21	Sampling errors: Gombe sample, Nigeria DHS 2018	519
	Table B.22	Sampling errors: Taraba sample, Nigeria DHS 2018	520
	Table B.23	Sampling errors: Yobe sample, Nigeria DHS 2018	521
	Table B.24	Sampling errors: Jigawa sample, Nigeria DHS 2018	
	Table B.25	Sampling errors: Kaduna sample, Nigeria DHS 2018	
	Table B.26	Sampling errors: Kano sample, Nigeria DHS 2018	
	Table B.27	Sampling errors: Katsina sample, Nigeria DHS 2018	525
	Table B.28	Sampling errors: Kebbi sample, Nigeria DHS 2018	
	Table B.29	Sampling errors: Sokoto sample, Nigeria DHS 2018	
	Table B.30	Sampling errors: Zamfara sample, Nigeria DHS 2018	
	Table B.31	Sampling errors: Abia sample, Nigeria DHS 2018	
	Table B.32	Sampling errors: Anambra sample, Nigeria DHS 2018	
	Table B.33	Sampling errors: Ebonyi sample, Nigeria DHS 2018	
	Table B.34	Sampling errors: Enugu sample, Nigeria DHS 2018	
	Table B.35	Sampling errors: Imo sample, Nigeria DHS 2018	
	Table B.36	Sampling errors: Akwa Ibom sample, Nigeria DHS 2018	
	Table B.37	Sampling errors: Bayelsa sample, Nigeria DHS 2018	
	Table B.38	Sampling errors: Cross River sample, Nigeria DHS 2018	
	Table B.39	Sampling errors: Delta sample, Nigeria DHS 2018	
	Table B.40	Sampling errors: Edo sample, Nigeria DHS 2018	
	Table B.41	Sampling errors: Rivers sample, Nigeria DHS 2018	
	Table B.42	Sampling errors: Ekiti sample, Nigeria DHS 2018	
	Table B.43	Sampling errors: Lagos sample, Nigeria DHS 2018	
	Table B.44	Sampling errors: Ogun sample, Nigeria DHS 2018	
	Table B.45	Sampling errors: Ondo sample, Nigeria DHS 2018	
	Table B.46	Sampling errors: Osun sample, Nigeria DHS 2018	
	Table B.47	Sampling errors: Oyo sample, Nigeria DHS 2018	
	Table B.48	Sampling errors for adult and maternal mortality rates, Nigeria DHS	
		2018	546
4 DDT		HALLIEN TANKE	- 4-
APPE	Table C.1	UALITY TABLES	547
		Household age distribution	
	Table C.2.1	Age distribution of eligible and interviewed women	
	Table C.2.2	Age distribution of eligible and interviewed men	
	Table C.3	Completeness of reporting	
	Table C.4	Births by calendar years	
	Table C.5	Reporting of age at death in days	
	Table C.6	Reporting of age at death in months	
	Table C.7	Standardisation exercise results from anthropometry training	
	Table C.8	Height and weight data completeness and quality for children	
	Table C.9	Height measurements from random subsample of measured children	
	Table C.10	Sibship size and sex ratio of siblings	
	Table C.11	Pregnancy-related mortality trends	
	Table C.12	Data collection period	
	Table C.13	Malaria prevalence according to rapid diagnostic test (RDT)	336

FOREWORD

he conducting of Demographic and Health Surveys is in line with one of the constitutional responsibilities of the National Population Commission (NPC), namely to collect, collate, analyse, and disseminate population census and survey data at all levels that contribute to policy formulation and coordination of population activities in the country. The 2018 Nigeria Demographic and Health Survey (2018 NDHS) is the sixth survey of its kind to be implemented by the National Population Commission

The 2018 NDHS is a national sample survey that provides up-to-date information on demographic and health indicators. The sample was selected using a stratified, two-stage cluster design, with enumeration areas (EAs) as the sampling units for the first stage. The second stage was a complete listing of households carried out in each of the 1,400 selected EAs. The target groups were women age 15-49 and men age 15-59 in randomly selected households across Nigeria. A representative sample of approximately 42,000 households was selected for the survey. One-third of the households (14,000) were selected for malaria, anaemia, and genotype testing of children age 6-59 months. Also, in the subsample of households selected for the men's survey, one eligible woman in each household was randomly selected for additional questions regarding domestic violence. Specifically, information was collected on fertility levels, marriage, fertility preferences, awareness and use of family planning methods, child feeding practices, nutritional status of women and children, adult and childhood mortality, awareness and attitudes regarding HIV/AIDS, and female genital mutilation. The survey also assessed the nutritional status (according to weight and height measurements) of women and children in these households. In addition to presenting national estimates, the report provides estimates of key indicators for both rural and urban areas, the country's six geopolitical zones and 36 states, and the Federal Capital Territory (FCT).

The 2018 NDHS is unique in a number of ways. For the first time in a Nigeria DHS, the 2018 survey was implemented using computer-assisted personal interviewing (CAPI), allowing more rapid provision of data than in previous surveys. Also, the survey was adapted to assess the prevalence of malaria, to conduct genotype testing for sickle cell disease and sickle cell trait among children age 6-59 months, and to measure haemoglobin levels (anaemia) among women and children in the subsample of households selected for the male survey. Malaria slides were assessed through rapid diagnostic tests at the household level and microscopy on thick blood smears in the laboratory for children age 6-59 months. As sickle cell anaemia has become a national health burden in Nigeria, sickle cell disease testing was included, thus serving as a basis for testing this deadly disease in subsequent DHS surveys globally. In addition, the sample size was larger than that in the five previous NDHS surveys, covering a total of 1,400 clusters across the country. Data on social and behaviour change communication (SBCC) on malaria, minimum dietary diversity among women, female genital mutilation, fistula, and disability were included as requested by various stakeholders.

I offer my candid appreciation to the Honourable Minister of Health Dr. Osagie Ehanire and the former Honourable Minister of Health Professor Isaac F. Adewole, PAS, FSPSP DSc (Hons), for leadership and commitment to the success of the survey as chairmen of the Survey Steering Committee. The effort of the National Malaria Elimination Programme (NMEP) in providing support for the malaria component of the survey is recognized. I also thank members of the Survey Steering Committee for their commitment and dedication to the survey's successful implementation.

On behalf of the Commission, I wish to express appreciation to the 2018 NDHS technical team; the project directors, Ms. Nwamaka Ezenwa and Osifo Tellson Ojogun; and the project coordinator, Inuwa Bakari Jalingo, for management of the technical, administrative, and logistical phases of the survey. My appreciation also goes to the state coordinators, biomarker monitors, quality control officers, supervisors,

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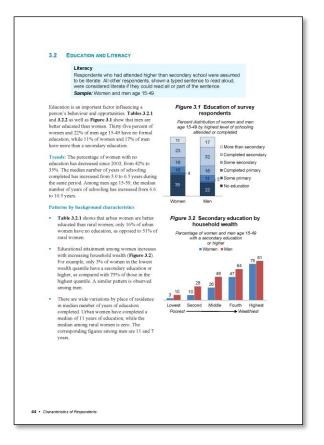
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READING AND UNDERSTANDING TABLES FROM THE 2018 NIGERIA DHS

The new format of the 2018 NDHS final report is based on approximately 200 tables of data. For quick reference, they are located at the end of each chapter and can be accessed through links in the pertinent text (electronic version). Additionally, this more reader-friendly version features about 90 figures that clearly highlight trends, subnational patterns, and background characteristics. Large, colourful maps display breakdowns for states in Nigeria. The text has been simplified to highlight key points in bullets and to clearly identify indicator definitions in boxes.

While the text and figures featured in each chapter highlight some of the most important findings from the tables, not every finding can be discussed or displayed graphically. For this reason, NDHS data users should be comfortable reading and interpreting tables.

The following pages provide an introduction to the organisation of NDHS tables, the presentation of background characteristics, and a brief summary of sampling and understanding denominators. In addition, this section provides some exercises for users as they practice their new skills in interpreting NDHS tables.



Example 1: Exposure to Mass Media: Women A Question Asked of All Survey Respondents

Table 3.4.1 Exposure to mass media: Women

	3	Reads a newspaper at	Watches	Listens to the	Accesses all three media at	Accesses none of the three	2
15-9	Background	least once a					Number of women
15-19	\aa						
20-24 5.4 31.9 28.2 3.6 56.8 6.835 25-29 4.5 34.0 30.6 3.5 54.7 7.255 30-34 5.3 35.6 31.9 3.9 53.5 6.178 35-39 4.8 34.8 34.5 3.7 52.0 5.603 40-44 5.1 31.0 33.3 3.9 54.9 3.940 40-44 5.1 31.0 33.3 3.9 54.9 3.940 40-44 5.1 31.0 33.3 3.9 54.9 3.940 40-44 5.1 31.0 33.3 3.9 54.9 3.940 40-44 5.1 31.0 33.3 3.9 54.9 3.940 40-44 5.1 31.0 33.3 3.9 54.9 3.940 40-44 5.1 31.0 33.8 5.0 38.2 19.163 Rural 2.7 17.3 22.0 1.8 70.2 22.668 250me		3.7	32.5	23.0	21	58.5	8 448
25-29							
30-34							
35-39							
40-44 5.1 31.0 33.3 3.9 54.9 3.940 45-49 3.7 27.7 31.9 2.8 57.4 3.701 **Residence*** Urban							
45-49 3.7 27.7 31.9 2.8 57.4 3,701 **Estidence** Urban 6.9 51.2 38.9 5.0 38.2 19.163 **Cone** North Central 3.8 30.3 22.9 1.8 70.2 22.668 **South South 5.8 1.8 15.6 25.1 0.9 68.8 12.225 South South 9.1 6.3 3.1 43.9 8.4 45.0 4.963 South South 9.1 53.3 31.2 6.9 40.4 4.80 South West 1.8 15.6 25.1 0.9 68.8 12.225 South East 10.9 38.1 43.9 8.4 45.0 4.963 South South 9.1 53.3 31.2 6.9 40.4 4.80 South West 4.7 62.7 44.8 3.7 28.0 7.266 ***State** North Central 5.8 1.2 2.9 30.9 12.7 1.9 65.3 654 Kwara 1.7 28.5 21.2 1.1 66.5 684 Kwara 1.7 28.5 21.2 1.1 66.5 684 Kwara 1.7 28.5 21.2 1.1 66.5 684 Niger 1.6 27.6 15.5 1.1 68.6 1.357 North East 3.3 1.4 2.9 1.0 48.0 80.0 875 North East 4.0 1.3 1.1 67.8 1.3 1.4 67.8 1.3 1.4 68.8 1.3 1.4 67.8 1.3 1.4 68.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.3 1.4 67.8 1.4 67.8 1.3 1.4 67.8 1.4 67.							
Name							
Urban 6.9 51.2 38.9 5.0 38.2 19.163		3.1	21.1	31.9	2.0	57.4	3,701
Rural			=4.0				40.400
North Central North Central North East	Rural	2.7	17.3	22.0	1.8	70.2	22,658
North East	one .						
North West 1.8	North Central	3.8	30.3	20.9	2.7	63.6	5,891
North West	North East	2.4		18.0			
South South 9.1 53.3 31.2 6.9 40.4 4.98.0 5.01							
South West							
South West 4.7 62.7 44.8 3.7 28.0 7.266 1816 18							
North Central FCT-Abuja 2.9 42.4 17.6 1.4 53.7 319 Benue 6.0 39.3 31.6 4.9 52.4 1.354 Kogi 2.9 30.9 12.7 1.9 65.3 654 Kwara 1.7 28.5 21.2 1.1 66.5 684 Niger 1.6 27.6 15.5 1.1 68.6 1.357 North East Adamawa 0.9 18.6 14.2 0.7 75.0 90.3 Bauchi 2.2 18.4 13.3 1.4 76.8 1.43 Borno 2.2 18.4 13.3 1.4 76.8 1.43 Borno 2.2 18.4 13.3 1.4 76.8 1.43 Borno 2.2 18.4 13.3 1.4 76.8 1.469 Gombe 4.0 14.5 29.7 3.5 67.4 717 Taraba 1.0 18.2 5.2 0.3 78.8 877 North West Jigawa 1.3 10.2 32.0 0.7 64.7 1.382 Kaduna 1.8 28.5 32.5 0.9 54.9 2.493 Kano 3.5 23.2 35.9 2.0 57.1 2.992 Katisina 1.3 10.3 14.6 0.7 80.5 2.283 Kano 3.5 67.0 0.2 90.6 1.136 Katisina 1.3 10.3 14.6 0.7 80.5 2.283 Kebbi 0.8 3.5 6.7 0.2 90.6 1.136 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1.477 Ebonyi 2.7 16.7 41.6 2.0 54.6 13.8 59.5 880 South South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 67.2 19.3 37.9 298 South South Bayelsa 20.4 64.8 67.2 19.3 39.9 42.4 475 Bayelsa 20.4 64.8 67.2 19.3 39.9 42.4 475 Bayelsa 20.4 64.8 67.2 19.3 39.9 42.4 475 Bayelsa 20.4 64.8 67.2 19.3 39.9 42.7 948 Bayelsa 20.4 64.8 67.2 19.3 39.9 42.4 475 Bayelsa 20.4 64.8 67.2 19.3 37.7 931 Bayelsa							
North Central FCT-Abuja 2 9 42.4 17.6 1.4 53.7 319 Benue 6.0 39.3 31.6 4.9 52.4 1.354 Kogi 2.9 30.9 12.7 1.9 65.3 654 Kwara 1.7 28.5 21.2 1.1 66.5 684 Nasarawa 10.2 34.6 35.7 7.8 54.5 684 Nasarawa 10.2 18.8 13.7 9.1 0.4 80.0 875 North East Adamawa 0.9 18.6 14.2 0.7 75.0 90.3 80.0 875 North East 2.2 10.4 28.1 1.1 67.8 13.43 Borno 2.2 18.4 13.3 1.4 76.8 13.43 Borno 2.2 18.4 13.3 17.6 1.0 72.2 13.37 North West Jigawa 1.3 10.2 32.0 0.7 64.7 13.82 Machina 1.8 28.5 32.5 0.9 54.9 2.493 Kano 3.5 23.2 35.9 2.0 57.1 2.692 Kaduna 1.8 28.5 32.5 0.9 54.9 2.493 Kano 3.5 23.2 35.9 2.0 57.1 2.692 Kebbi 0.8 3.5 6.7 0.2 90.6 1.136 Sokoto 0.5 9.0 23.3 0.4 74.8 910 Zamfara 1.6 6.0 17.2 0.4 79.7 1.328 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1.477 Ebonyl 2.7 16.7 41.6 2.0 54.6 1.027 Enugu 4.4 26.6 36.4 3.8 59.5 880 South Sout		•••		•		_5.0	.,
FCT_Abuja 2.9							
Benue		0.0	40.4	47.0		F0 7	040
Kogi							
Kwara 1.7 28.5 21.2 1.1 66.5 684 Nasarawa 10.2 34.6 35.7 7.8 54.5 64.8 Niger 1.6 27.6 15.5 1.1 68.6 1,357 Plateau 1.8 13.7 9.1 0.4 80.0 875 North East Adamawa 0.9 18.6 14.2 0.7 75.0 903 Bauchi 2.2 10.4 28.1 1.1 67.8 1,343 Borno 2.2 18.4 13.3 1.4 76.8 1,469 Gombe 4.0 14.5 29.7 3.5 67.4 717 Taraba 1.0 18.2 5.2 0.3 78.8 877 Yobe 4.0 13.7 17.6 1.0 72.2 1,327 North West 3.5 23.2 35.9 0.0 64.7 1,382 Kaduna 1.3 10.2 32.0							
Nasarawa							
Niger Plateau 1.8 13.7 9.1 0.4 80.0 875 North East							
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Adamawa Bauchi 2.2 10.4 28.1 1.1 67.8 1,343 Bauchi 2.2 10.4 28.1 1.1 67.8 1,343 Borno 2.2 18.4 13.3 1.4 76.8 1,469 Gombe 4.0 14.5 29.7 3.5 67.4 717 Taraba 1.0 18.2 5.2 0.3 78.8 877 Yobe 4.0 13.7 17.6 1.0 72.2 1,327 North West Ugawa 1.3 10.2 32.0 0.7 64.7 1,382 Kaduna 1.8 28.5 32.5 0.9 54.9 2,493 Kano 3.5 23.2 35.9 2.0 57.1 2,692 Katsina 1.3 10.3 14.6 0.7 80.5 2,283 Kebbi 0.8 3.5 6.7 0.2 90.6 1,136 Sokoto 0.5 90 23.3 0.4 74.8 910 Zamfara 1.6 6.0 17.2 0.4 79.7 1,328 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South	Plateau	1.8	13.7	9.1	0.4	80.0	875
Adamawa Bauchi 0.9 18.6 14.2 0.7 75.0 90.3 Bauchi 2.2 10.4 28.1 1.1 67.8 1,343 Borno 2.2 18.4 13.3 1.4 76.8 1,469 Gombe 4.0 14.5 29.7 3.5 67.4 717 Taraba 1.0 18.2 5.2 0.3 78.8 8.77 Yobe 4.0 13.7 17.6 1.0 72.2 1,327 North West Jigawa 1.3 10.2 32.0 0.7 64.7 1,382 Kaduna 1.8 28.5 32.5 0.9 54.9 2,493 Kano 3.5 23.2 35.9 2.0 57.1 2,692 Kebbi 0.8 3.5 6.7 0.2 90.6 1,136 Sokoto 0.5 9.0 23.3 0.4 74.8 910 Zamfara 1.6 6.0 17.2 0	North Fast						
Bauchi 2.2 10.4 28.1 1.1 67.8 1.343 Borno 2.2 18.4 13.3 1.4 76.8 1.469 Gombe 4.0 14.5 29.7 3.5 67.4 717 Taraba 1.0 18.2 5.2 0.3 78.8 877 Yobe 4.0 13.7 17.6 1.0 72.2 1.327 North West Jigawa 1.3 10.2 32.0 0.7 64.7 1.382 Kaduna 1.8 28.5 32.5 0.9 54.9 2.493 Kano 3.5 23.2 35.9 2.0 57.1 2.692 Katsina 1.3 10.3 14.6 0.7 80.5 2.283 Kebbi 0.8 3.5 6.7 0.2 90.6 1.136 Sokoto 0.5 9.0 23.3 0.4 74.8 910 Zamfara 1.6 6.0 17.2 0.4 79.7 1.328 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1.477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1.027 Ebonyi 2.7 16.7 41.6 2.0 54.6 1.027 Ebonyi 2.7 16.7 41.6 2.0 54.6 1.027 Ebonyi 1.5 37.5 41.9 5.9 40.7 948 South S		0.9	18.6	14.2	0.7	75.0	903
Borno 2.2 18.4 13.3 1.4 76.8 1.469 Combe 4.0 14.5 29.7 3.5 67.4 717 Taraba 1.0 18.2 5.2 0.3 78.8 877 Yobe 4.0 13.7 17.6 1.0 72.2 1.327 North West Jigawa 1.3 10.2 32.0 0.7 64.7 1.382 Kaduna 1.8 28.5 32.5 0.9 54.9 2.493 Kaduna 1.8 28.5 32.5 0.9 54.9 2.493 Katsina 1.3 10.3 14.6 0.7 80.5 2.283 Kebbi 0.8 3.5 6.7 0.2 90.6 1.136 Sokoto 0.5 9.0 23.3 0.4 74.8 910 Zamfara 1.6 6.0 17.2 0.4 79.7 1.328 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1.477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1.027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 57.2 19.3 27.9 298 Cross River 13.3 52.9 38.5 9.1 35.9 574 Delta 5.9 59.4 17.6 4.0 37.7 931 Edo 4.9 68.9 34.3 2.5 25.0 555 Rivers 5.3 41.7 22.1 4.2 54.3 1.534 South West Ekiti 5.9 34.8 47.5 3.9 42.4 475 4.6 4.0 4.0 4.1 39.3 3.4 42.4 683 Osun 7.3 81.0 76.5 61.1 10.6 938 Osun 7.3 81.0 76.5 61.1 0.0 79.7 14.603 Osun 7.3 0.0 79.7 14.603 Osun 79.7							
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Jigawa 1.3 10.2 32.0 0.7 64.7 1,382		4.0	13.7	17.0	1.0	12.2	1,521
Kaduna 1.8 28.5 32.5 0.9 54.9 2.493 Kano 3.5 23.2 35.9 2.0 57.1 2.692 Katsina 1.3 10.3 14.6 0.7 80.5 2.283 Kebbi 0.8 3.5 6.7 0.2 90.6 1,136 Sokoto 0.5 9.0 23.3 0.4 74.8 910 Zamfara 1.6 6.0 17.2 0.4 79.7 1,328 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8							
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Zamfara 1.6 6.0 17.2 0.4 79.7 1,328 South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 57.2 19.3 27.9 298 Cross River 13.3 52.9 38.5 9.1 35.9 574 Delta 5.9 59.4 17.6 4.0 37.7 931 Edo 4.9 68.9 34.3 2.5 25.0 555 Rivers 5.3 41.7	Kebbi	8.0	3.5	6.7	0.2	90.6	1,136
South East Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 57.2 19.3 27.9 298 Cross River 13.3 52.9 38.5 9.1 35.9 574 Delta 5.9 59.4 17.6 4.0 37.7 931 Edo 4.9 68.9 34.3 2.5 25.0 555 Rivers 5.3 41.7 22.1 4.2 54.3 1,534 South West Ekiti 5.9 34.8 47.5 3.9 42.4 475 Lagos 4.2 82.4 34.2 3.4 16.2 2,891 Ogun 3.2 21.1 18.1 1.7 70.4 927 Ondo 4.0 44.1 39.3 3.4 42.4 683 Osun 7.3 81.0 76.5 6.1 10.6 938 Oyo 5.1 55.6 65.8 4.0 24.1 1,352 iducation No education No education Primary 0.9 24.6 28.3 0.5 Secondary 5.5 48.0 36.2 3.6 5 41.6 16,583	Sokoto	0.5	9.0	23.3	0.4	74.8	910
Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 57.2 19.3 27.9 298 Cross River 13.3 52.9 38.5 9.1 35.9 574 Delta 5.9 59.4 17.6 4.0 37.7 931 Edo 4.9 68.9 34.3 2.5 25.0 555 Rivers 5.3 41.7 22.1 4.2 54.3 1,534 South West Ekiti 5.9 34.8 47.5 3.9 42.4 475 Lagos 4.2 82.4 34.2 3.4 16.2 2,891 Ogun 3.2 21.1 18.1 1.7 70.4 927 Ondo 4.0 44.1 39.3 3.4 42.4 683 Osun 7.3 81.0 76.5 6.1 10.6 938 Oyo 5.1 55.6 65.8 4.0 24.1 1,352 ducation No education 0.1 7.2 17.1 0.0 79.7 14,603 Primary 0.9 24.6 28.3 0.5 61.1 6,039 Secondary 5.5 48.0 36.2 3.6 541.6 16,583	Zamfara	1.6	6.0	17.2	0.4	79.7	1,328
Abia 21.3 57.9 47.4 17.4 33.7 630 Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 57.2 19.3 27.9 298 Cross River 13.3 52.9 38.5 9.1 35.9 574 Delta 5.9 59.4 17.6 4.0 37.7 931 Edo 4.9 68.9 34.3 2.5 25.0 555 Rivers 5.3 41.7 22.1 4.2 54.3 1,534 South West Ekiti 5.9 34.8 47.5 3.9 42.4 475 Lagos 4.2 82.4 34.2 3.4 16.2 2,891 Ogun 3.2 21.1 18.1 1.7 70.4 927 Ondo 4.0 44.1 39.3 3.4 42.4 683 Osun 7.3 81.0 76.5 6.1 10.6 938 Oyo 5.1 55.6 65.8 4.0 24.1 1,352 ducation No education 0.1 7.2 17.1 0.0 79.7 14,603 Primary 0.9 24.6 28.3 0.5 61.1 6,039 Secondary 5.5 48.0 36.2 3.6 541.6 16,583	South Fast						
Anambra 15.7 51.9 49.7 13.3 37.3 1,477 Ebonyi 2.7 16.7 41.6 2.0 54.6 1,027 Enugu 4.4 26.6 36.4 3.8 59.5 880 Imo 11.5 37.5 41.9 5.9 40.7 948 South South Akwa Ibom 14.7 53.5 45.1 11.5 36.3 948 Bayelsa 20.4 64.8 57.2 19.3 27.9 298 Cross River 13.3 52.9 38.5 9.1 35.9 574 Delta 5.9 59.4 17.6 4.0 37.7 931 Edo 4.9 68.9 34.3 2.5 25.0 555 Rivers 5.3 41.7 22.1 4.2 54.3 1,534 South West Ekiti 5.9 34.8 47.5 3.9 42.4 475 Lagos 4.2 82.4 34.2 3.4 16.2 2,891 Ordo 4.0 44.1 39.3 3.4 42.4 683 Osun 7.3 81.0 76.5 6.1 10.6 938 Oyo 5.1 55.6 65.8 4.0 24.1 1,352 ducation No education 0.1 7.2 17.1 0.0 79.7 14,603 Primary 0.9 24.6 28.3 0.5 Secondary 5.5 48.0 36.2 3.6 41.6 16,583		21.3	57.9	47 4	17 4	33.7	630
Ebonyi							
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More than secondary 20.7 70.5 48.5 (16.1) 22.1 4.596					3.6	41.6	
					16.1	22.1	

Table 3.4.1—Continued						
Background characteristic	Reads a newspaper at least once a week	Watches television at least once a week	Listens to the radio at least once a week	Accesses all three media at least once a week	Accesses none of the three media at least once a week	Number of women
Wealth quintile						
Lowest	0.2	2.5	15.1	0.0	83.9	7,222
Second	0.9	7.8	18.1	0.3	78.5	8,045
Middle	2.7	24.6	28.7	1.5	59.6	8,207
Fourth	5.9	49.0	39.1	3.9	39.7	8,990
Highest	11.8	69.5	43.1	9.3	25.6	9,357
Total	4.6	32.9	29.8	3.3	55.6	41,821

- **Step 1:** Read the title and subtitle, highlighted in orange in the table above. They tell you the topic and specific population group being described. The table is about women age 15-49 and their exposure to different types of media. All eligible female respondents age 15-49 were asked these questions.
- Step 2: Scan the column headings—highlighted in green in Example 1. They describe how the information is categorized. In this table, the first three columns of data show different types of media that women access at least once a week. The fourth column shows women who access all three types of media, while the fifth column shows women who do not access any of the three types of media on a weekly basis. The last column lists the number of women age 15-49 interviewed in the survey.
- **Step 3:** Scan the row headings—the first vertical column highlighted in blue in Example 1. These show the different ways the data are divided into categories based on population characteristics. In this case, the table presents women's exposure to media by age, urban-rural residence, zone, state, level of education, and wealth quintile. Most of the tables in the NDHS report will be divided into these same categories.
- **Step 4:** Look at the row at the bottom of the table highlighted in red. These percentages represent the totals of all women age 15-49 and their weekly access to different types of media. In this case, 4.6%* of women age 15-49 read a newspaper, 32.9% watch television, and 29.8% listen to the radio at least once a week.
- **Step 5:** To find out what percentage of women with more than a secondary education access all three media at least once a week, draw two imaginary lines, as shown on the table. This shows that 16.1% of women age 15-49 with more than a secondary education access all three types of media at least once a week.

By looking at patterns by background characteristics, we can see how exposure to mass media varies across Nigeria. Mass media are often used to communicate health messages. Knowing how mass media exposure varies among different groups can help programme planners and policymakers determine how to most effectively reach their target populations.

*For the purpose of this document data are presented exactly as they appear in the table, including decimal places. However, the text in the remainder of this report rounds data to the nearest whole percentage point.

Practice: Use the table in Example 1 to answer the following questions:

- a) What percentage of women in Nigeria do not access any of the three media at least once a week?
- b) Which age group of women are most likely to listen to the radio at least once a week?
- c) Compare women in urban areas to women in rural areas which group is more likely to watch television on a weekly basis?
- d) What are the lowest and the highest percentages (range) of women who do not access any media at least once a week by state?
- e) Is there a clear pattern in exposure to radio at least once a week by wealth quintile?

least once a week, compared to 43.1% of women from the highest wealth quintile.

b) Women age 35-39: 34.5% of women in this age group listen to the radio weekly.

d) Women in urban areas: 51.2% of women in this age group listen to the radio no a weekly basis, compared to 17.3% of rural women.

d) Women with no exposure to media at least once a week ranges from a low of 10.6% in Osun to a high of 90.6% in Kebbi.

e) Yes. Exposure to radio increases as household wealth increases; 15.1% of women from the lowest wealth quintile listen to the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth quintile listen to the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio at least once a wealth and a second of the radio and a second of the radio at least once a wealth and a second of the radio and a second of the radio at least once a wealth and a second of the radio and a second of the radio at least once a wealth and a second of the radio and a s

%9.88 (a

Example 2: Prevalence and Treatment of ARI A Question Asked of a Subgroup of Survey Respondents

Table 10.5 Prevalence and treatment of symptoms of ARI Among children under age 5, percentage who had symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey; and among children with symptoms of ARI in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Nigeria DHS 2018 Among children under Among children under age 5 with age 5: symptoms of ARI Percentage Percentage Percentage for whom for whom with advice or treatment was sought same Number of Background Number of symptoms of treatment was ARI1 characteristic children sought2 or next day Age in months 3,270 6-11 3.7 3,153 82.3 39.9 116 3.4 2.4 12-23 6,143 75.7 28.1 210 24-35 5,835 79.4 24.4 141 2.0 36-47 6.186 67.8 20.1 122 48-59 2.2 6,294 76.0 31.8 139 Sex 15.674 417 Male 76.2 29.6 Female 2.6 15,208 75.6 28.2 397 Mother's smoking status Smokes cigarettes/tobacco 0.0 0 Does not smoke 2.6 30,813 75.9 29.0 814 Cooking fuel Electricity or gas 2,997 (91.3)(66.2)38 1.3 1.2 2,954 (46.3) 35 Kerosene Coal/lignite 0.0 194 0 Charcoal 2.7 1,914 (90.8)(52.6)51 Wood/straw3 3.0 22,813 72.9 24.3 690 Animal dung 0 No food cooked in household 8 0 Residence Urban 2.0 12,215 82.4 42.1 239 3 1 Rural 18.666 73 2 23.5 575 Zone North Central 4,255 60.0 32.1 55 North East 8.2 5,598 74.6 27.5 461 North West 1.3 10,883 86.9 27.8 146 27.6 South Fast 1.6 3.205 57.0 52 34.7 66 South South 2.4 2.787 90.6 South West 0.8 4,153 (72.4)(39.8)34 Mother's education No education 3.1 13.867 73.6 21.0 436 Primary 3.3 4,618 71.3 26.2 152 82 1 Secondary 2.0 9.733 42.4 199 (93.6) More than secondary 1.0 2.664 (73.3)27 Wealth quintile Lowest 4.2 6.625 74.2 19.5 277 3.0 6,816 70.5 24.8 208 Second 6,364 2.3 145 Middle 74.9 33.2 1.9 5,816 79.9 35.9 112 Fourth Highest 1.4 5,260 93.8 57.9 72

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

30.881

814

29.0

75.9

2.6

Total

¹ Symptoms of ARI include short, rapid breathing which was chest-related and/or difficult breathing which was chest-related.

² Includes advice or treatment from the following sources: public sector, private medical sector, shop, market, itinerant drug seller, community-oriented resource person. Excludes advice or treatment from a traditional practitioner
³ Includes grass, shrubs, crop residues

Step 1: Read the title and subtitle. In this case, the table is about two separate groups of children: all children under age 5 (a) and children under age 5 with symptoms of acute respiratory infection (ARI) in the 2 weeks before the survey (b).

Step 2: Identify the two panels. First, identify the columns that refer to children under age 5 (a), and then isolate the columns that refer only to children under age 5 with symptoms of ARI in the 2 weeks before the survey (b).

Step 3: Look at the first panel. What percentage of children under age 5 had symptoms of ARI in the 2 weeks before the survey? It's 2.6%. Now look at the second panel. How many children under age 5 are there who had symptoms of ARI in the 2 weeks before the survey? It's 814 children, or 2.6% of the 30,881 children under age 5 (with rounding). The second panel is a subset of the first panel.

Step 4: Only 2.6% of children under age 5 had symptoms of ARI in the 2 weeks before the survey. Once these children are further divided into the background characteristic categories, there may be too few cases for the percentages to be reliable.

- What percentage of children under age 5 with symptoms of ARI in the 2 weeks before the survey whose mothers have more than a secondary education had advice or treatment sought? It's 93.6%. This percentage is in parentheses because there are between 25 and 49 children (unweighted) in this category. Readers should use this number with caution—it may not be reliable. (For more information on weighted and unweighted numbers, see Example 3.)
- What percentage of children under age 5 with symptoms of ARI in the 2 weeks before the survey whose households use coal/lignite had advice or treatment sought? There is no number in this cell—only an asterisk. This is because there are fewer than 25 unweighted cases. Results for this group are not reported. The subgroup is too small, and therefore the data are not reliable

Note: When parentheses or asterisks are used in a table, the explanation will be noted under the table. If there are no parentheses or asterisks in a table, you can proceed with confidence that enough cases were included in all categories that the data are reliable.

Example 3: Understanding Sampling Weights in NDHS Tables

A sample is a group of people who have been selected for a survey. In the NDHS, the sample is designed to represent the national population age 15-49. In addition to national data, most countries want to collect and report data on smaller geographical or administrative areas. However, doing so requires a large enough sample size in each area. For the 2018 NDHS, the survey sample is representative at the national and state levels and for urban and rural areas.

To generate statistics that are representative of the country as a whole and the 37 states, the number of women surveyed in each state should contribute to the size of the total (national) sample in proportion to size of the state. However, if some states have small populations, then a sample allocated in proportion to each state's population may not include sufficient women from each state for analysis. To solve this problem, states with small populations are oversampled. For example, let's say that you have enough money to interview 41,821 women and want to produce results that are representative of Nigeria as a whole and its states (as in modified Table 3.1). However, the total population of Nigeria is not evenly distributed among the states: some states, such as Lagos, are heavily populated while others, such as FCT-Abuja, are not. Thus, FCT-Abuja must be oversampled.

A sampling statistician determines how many women should be interviewed in each state in order to get reliable statistics. The blue column (1) in the table at right shows the actual number of women interviewed in each state. Within the states, the number of women interviewed ranges from 658 in Edo to 1,983 in Kano. The number of interviews is sufficient to get reliable results in each state.

With this distribution of interviews, some states are overrepresented and some states are underrepresented. For example, the population in Lagos is about 7% of the population in Nigeria, while FCT-Abuja's population contributes only 1% of the population in Nigeria. But as the blue column shows, the number of women interviewed in Lagos accounts for only about 3% of the total sample of

Table 3.1 Background characteristics of respondents Percent distribution of women and men age 15-49 by selected background characteristics, Nigeria DHS 2018 Women

D = -1	\A/=:= -4==	Weighted			
Background	Weighted	Weighted	Unweighted		
characteristic	percent	number	number		
State	J	4	1		
North Central	0.0	210	1 100		
FCT-Abuja	0.8	319	1,186		
Benue	3.2 1.6	1,354 654	1,278		
Kogi			907		
Kwara	1.6 1.5	684 648	906 1,121		
Nasarawa	3.2	1,357	1,121		
Niger Plateau	2.1	875	1,082		
Flateau	2.1	673	1,002		
North East					
Adamawa	2.2	903	1,083		
Bauchi	3.2	1,343	1,329		
Borno	3.5	1,469	1,269		
Gombe	1.7	717	1,356		
Taraba	2.1	877	1,284		
Yobe	3.2	1,327	1,318		
North West					
Jigawa	3.3	1,382	1,405		
Kaduna	6.0	2,493	1,610		
Kano	6.4	2,692	1,983		
Katsina	5.5	2,283	1,494		
Kebbi	2.7	1.136	1.335		
Sokoto	2.2	910	1,065		
Zamfara	3.2	1,328	1,237		
Zamara	0.2	1,020	1,201		
South East					
Abia	1.5	630	982		
Anambra	3.5	1,477	1,244		
Ebonyi	2.5	1,027	1,310		
Enugu	2.1	880	1,038		
Imo	2.3	948	997		
South South					
Akwa Ibom	2.3	948	958		
Bayelsa	0.7	298	771		
Cross River	1.4	574	748		
Delta	2.2	931	815		
Edo	1.3	555	658		
Rivers	3.7	1,534	1,130		
South West					
Ekiti	1.1	475	774		
Lagos	6.9	2,891	1.445		
Ogun	2.2	927	798		
Ondo	1.6	683	863		
Osun	2.2	938	832		
Ovo	3.2	1,352	918		
1 ,		,			
Total 15-49	100.0	41,821	41,821		

women interviewed (1,445/41,821) and the number of women interviewed in FCT-Abuja accounts for 3% of women interviewed (1,186/41,821). This unweighted distribution of women does not accurately represent the population.

In order to get statistics that are representative of Nigeria, the distribution of the women in the sample needs to be weighted (or mathematically adjusted) such that it resembles the true distribution in the country. Women from a small state, like FCT-Abuja, should contribute only a small amount to the national total. Women from a large state, like Lagos, should contribute much more. Therefore, DHS statisticians mathematically calculate a "weight" that is used to adjust the number of women from each state so that

each state's contribution to the total is proportional to the actual population of the state. The numbers in the **purple column (2)** represent the "weighted" values. The weighted values can be smaller or larger than the unweighted values at the state level. The total national sample size of 41,821 women has not changed after weighting, but the distribution of the women in the states has been changed to represent their contribution to the total population size.

How do statisticians weight each category? They take into account the probability that a woman was selected in the sample. If you were to compare the **green column (3)** to the actual population distribution of Nigeria, you would see that women in each state are contributing to the total sample with the same weight that they contribute to the population of the country. The weighted number of women in the survey now accurately represents the proportion of women who live in FCT-Abuja and the proportion of women who live in Lagos.

With sampling and weighting, it is possible to interview enough women to provide reliable statistics at national and state levels. In general, only the weighted numbers are shown in each of the NDHS tables, so don't be surprised if these numbers seem low: they may actually represent a larger number of women interviewed.

ACRONYMS AND ABBREVIATIONS

ACT artemisinin-based combination therapy
AIDS acquired immunodeficiency syndrome

ANC antenatal care

ANDI African Network for Drugs and Diagnostic Initiative

ARI acute respiratory infection ART antiretroviral therapy ASFR age-specific fertility rate

BCG bacille Calmette-Guerin vaccine against tuberculosis

BMGF Bill and Melinda Gates Foundation

BMI body mass index

CAPI computer-assisted personal interviewing

CBR crude birth rate CEB children ever born

CEDAW Convention on the Elimination of All Forms of Discrimination against Women

CEmOC Comprehensive Emergency Obstetrics Care

CHW community health worker CI confidence interval

CMAM community-based management of acute malnutrition

CPR contraceptive prevalence rate

CSPro Census and Survey Processing System cVDPV circulating vaccine-derived polio virus

DHS Demographic and Health Survey

DMPA-SC depot-medroxyprogesterone acetate - Subcutaneous

DPT diphtheria, pertussis, and tetanus vaccine

EA enumeration area

EPI Expanded Programme on Immunisation ERGP Economic Recovery and Growth Plan

FCT Federal Capital Territory FGM female genital mutilation FMOH Federal Ministry of Health

GAR gross attendance ratio
GDP gross domestic product
GFR general fertility rate
GPI gender parity index

HepB hepatitis B

HERA Health Research for Action
Hib Haemophilus influenzae type B
HIV human immunodeficiency virus

HPLC high-performance liquid chromatography

HRP histidine-rich protein

HTP harmful traditional practices

ICCMCI Integrated Community Case Management of Childhood Illness

ICRH International Centre for Reproductive Health

IFAIN International Foundation Against Infectious Disease in Nigeria

IFSS internet file streaming system

IMCI Integrated Management of Childhood Illness
IPTp intermittent preventive treatment during pregnancy

IPV inactivated polio vaccine
ITN insecticide-treated net
IU international unit
IUD intrauterine device

IYCF infant and young child feeding

LAM lactational amenorrhea method

LGA local government area

LLIN long-lasting insecticide-treated net

LPG liquid petroleum gas

LUTH Lagos University Teaching Hospital

MAD minimum acceptable diet

MNTE maternal and neonatal tetanus elimination

MTCT mother-to-child transmission

NAR net attendance ratio

NCD non-communicable disease

NDHS Nigeria Demographic and Health Survey

NGO nongovernmental organisation

NHREC National Health Research Ethics Committee of Nigeria

NMEP National Malaria Elimination Programme

NMIS Nigeria Malaria Indicator Survey

NN neonatal mortality

NPC National Population Commission

NPHC Nigeria Population and Housing Census

OPV oral polio vaccine
ORS oral rehydration salts
ORT oral rehydration therapy

PCV pneumococcal conjugate vaccine

Pf Plasmodium falciparum
PMS patent medicine store

PMTCT prevention of mother-to-child transmission

PNC postnatal care

PNN postneonatal mortality

PPS probability proportional to size PRMR pregnancy-related mortality ratio

PSU primary sampling unit

RDT rapid diagnostic test

RHF recommended homemade fluids RUFT ready-to-use therapeutic food

SBCC social and behavioural change

SCD sickle cell disease SCT sickle cell trait SD standard deviation

SDGs sustainable development goals

SDM standard days method SOP standard of practice

SP sulfadoxine-pyrimethamine STI sexually transmitted infection

TFR total fertility rate

UNAIDS Joint United Nations Programme on HIV/AIDS

UNIFPA United Nations Population Fund UNICEF United Nations Children's Fund UNSCR UN Security Council Resolution

USAID United States Agency for International Development

VAPP Violence Against Persons Prohibition Act

VAD vitamin A deficiency VIP ventilated improved pit

WG Washington Group

WHO World Health Organization

WPV wild polio virus

SUSTAINABLE DEVELOPMENT GOAL INDICATORS

Sustainable Development Goal Indicators—Nigeria DHS 2018				
	S	Sex		_
Indicator	Male	Female	Total	DHS table number
Zero hunger 2.2.1 Prevalence of stunting among children under 5 years of age 2.2.2 Prevalence of malnutrition among children under 5 years of age a) Prevalence of wasting among children under 5 years of age b) Prevalence of overweight among children under 5 years of age	39.4 10.3 8.0 2.3	34.2 7.4 5.6 1.8	36.8 8.9 6.8 2.1	11.1 na 11.1 11.1
3. Good health and well-being				
 3.1.1 Maternal mortality ratio¹ 3.1.2 Proportion of births attended by skilled health personnel 3.2.1 Under-five mortality rate² 3.2.2 Neonatal mortality rate² 3.7.1 Proportion of women of reproductive age (aged 15-49 years) who have their need for family planning satisfied with modern methods 3.7.2 Adolescent birth rates per 1,000 women a) Girls aged 10-14 years³ b) Women aged 15-19 years⁴ 3.a.1 Age-standardized prevalence of current tobacco use among persons aged 15 years 	na na 137 42 na na	na na 127 37 35.7 2 106	512 43.3 132 39 na na	14.4 9.6 8.2 8.2 7.12.2 5.1 5.1
and older ⁵ 3.b.1 Proportion of the target population covered by all vaccines included in their national programme	5.6	0.3	3.0ª	3.10.1, 3.10.2
 a) Coverage of DPT containing vaccine (3rd dose)⁶ b) Coverage of measles containing vaccine (2nd dose)⁷ c) Coverage of pneumococcal conjugate vaccine (last dose in schedule)⁸ 	50.0 16.0 47.2	50.2 15.1 47.5	50.1 15.6 47.3	10.3 10.3 10.3
 5. Gender equality 5.2.1 Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months^{9,10} a) Physical violence b) Sexual violence c) Psychological violence 5.3.1 Proportion of women aged 20-24 years who were married or in a union before age 15 and before age 18 a) Before age 18 b) Before age 18 5.6.1 Proportion of women aged 15-49 years who make their own informed decisions regarding sexual relations, contraceptive use and reproductive health care¹¹ 5.b.1 Proportion of individuals who own a mobile telephone¹² 		29.5 11.8 4.7 26.7 15.7 43.4 28.6 55.3 dence	Na Na Na Na Na Na 68.0 ^a	16.12 16.12 16.12 16.12 4.3 4.3 na 15.7.1, 15.7.2
7. Affordable clean energy	Urban	Rural	Total	DHS table number
 7.1.1 Proportion of population with access to electricity 7.1.2 Proportion of population with primary reliance on clean fuels and technology¹³ 	81.7 22.5	37.1 2.7	56.5 11.3	2.4 2.4
		Sex	-	D.10
8. Decent work and economic growth 8.10.2 Proportion of adults (15 years and older) with an account at a bank or other financial institution or with a mobile-money-service provider ¹⁴	Male 38.5	Female 22.1	Total 30.3 ^a	DHS table number 15.7.1, 15.7.2
16. Peace, justice, and strong institutions16.9.1 Proportion of children under 5 years of age whose births have been registered with a civil authority	43.4	41.7	42.6ª	2.11
17. Partnerships for the goals 17.8.1 Proportion of individuals using the Internet ¹⁵	35.2	15.7	25.4 ^a	3.5.1, 3.5.2

na = Not applicable

Expressed in terms of maternal deaths per 100,000 live births in the 7-year period preceding the survey

Expressed in terms of deaths per 1,000 live births for the 5-year period preceding the survey

Equivalent to the age-specific fertility rate for girls age 10-14 for the 3-year period preceding the survey, expressed in terms of births per 1,000 girls age 10-14

Equivalent to the age-specific fertility rate for women age 15-19 for the 3-year period preceding the survey, expressed in terms of births per 1,000 women age 15-19 for the 3-year period preceding the survey, expressed in terms of births per 1,000 women age 15-19 for the 3-year period preceding the survey, expressed in terms of births per 1,000 women age 15-19 for the 3-year period preceding the survey.

<sup>19
5</sup> Data are not age-standardized and are available for women and men age 15-49 only.
6 The percentage of children age 12-23 months who received three doses of pentavalent (DPT-HepB-Hib)

⁸ The percentage of children age 12-23 months who received three doses of pneumococcal conjugate vaccine ⁹ Data are available for women age 15-49 who have ever been in union only.

¹⁰ In the DHS, psychological violence is termed emotional violence.

¹¹ Data are available for currently married women who are not pregnant only.

¹² Data are available for women and men age 15-49 only.

¹³ Measured as the percentage of the population using clean fuel for cooking

Data are available for women and men age 15-49 who have and use an account at a bank or other financial institution; information on use of a mobile-moneyservice provider is not available.

15 Data are available for women and men age 15-49 who have used the internet in the past 12 months.

a The total is calculated as the simple arithmetic mean of the percentages in the columns for males and females.

NIGERIA





he 2018 Nigeria Demographic and Health Survey (2018 NDHS) was implemented by the National Population Commission (NPC). Data collection took place from 14 August to 29 December 2018. ICF provided technical assistance through The DHS Program, which is funded by the United States Agency for International Development (USAID) and offers financial support and technical assistance for population and health surveys in countries worldwide. Other agencies and organisations that facilitated the successful implementation of the survey through technical or financial support were the Global Fund, the Bill and Melinda Gates Foundation (BMGF), the United Nations Population Fund (UNFPA), and the World Health Organization (WHO).

1.1 **SURVEY OBJECTIVES**

The primary objective of the 2018 NDHS is to provide up-to-date estimates of basic demographic and health indicators. Specifically, the NDHS collected information on fertility, awareness and use of family planning methods, breastfeeding practices, nutritional status of women and children, maternal and child health, adult and childhood mortality, women's empowerment, domestic violence, female genital cutting, prevalence of malaria, awareness and behaviour regarding HIV/AIDS and other sexually transmitted infections (STIs), disability, and other health-related issues such as smoking.

The information collected through the 2018 NDHS is intended to assist policymakers and programme managers in evaluating and designing programmes and strategies for improving the health of the country's population. The 2018 NDHS also provides indicators relevant to the Sustainable Development Goals (SDGs) for Nigeria.

1.2 SAMPLE DESIGN

The sampling frame used for the 2018 NDHS is the Population and Housing Census of the Federal Republic of Nigeria (NPHC), which was conducted in 2006 by the National Population Commission. Administratively, Nigeria is divided into states. Each state is subdivided into local government areas (LGAs), and each LGA is divided into wards. In addition to these administrative units, during the 2006 NPHC each locality was subdivided into convenient areas called census enumeration areas (EAs). The primary sampling unit (PSU), referred to as a cluster for the 2018 NDHS, is defined on the basis of EAs from the 2006 EA census frame. Although the 2006 NPHC did not provide the number of households and population for each EA, population estimates were published for 774 LGAs. A combination of information from cartographic material demarcating each EA and the LGA population estimates from the census was used to identify the list of EAs, estimate the number of households, and distinguish EAs as urban or rural for the survey sample frame. Before sample selection, all localities were classified separately into urban and rural areas based on predetermined minimum sizes of urban areas (cut-off points); consistent with the official definition in 2017, any locality with more than a minimum population size of 20,000 was classified as urban.

The sample for the 2018 NDHS was a stratified sample selected in two stages. Stratification was achieved by separating each of the 36 states and the Federal Capital Territory into urban and rural areas. In total, 74 sampling strata were identified. Samples were selected independently in every stratum via a two-stage selection. Implicit stratifications were achieved at each of the lower administrative levels by sorting the sampling frame before sample selection according to administrative order and by using a probability proportional to size selection during the first sampling stage.

In the first stage, 1,400 EAs were selected with probability proportional to EA size. EA size was the number of households in the EA. A household listing operation was carried out in all selected EAs, and the resulting lists of households served as a sampling frame for the selection of households in the second stage. In the second stage's selection, a fixed number of 30 households was selected in every cluster through equal probability systematic sampling, resulting in a total sample size of approximately 42,000 households. The household listing was carried out using tablets, and random selection of households was carried out through computer programming. The interviewers conducted interviews only in the pre-selected households. To prevent bias, no replacements and no changes of the pre-selected households were allowed in the implementing stages.

Due to the non-proportional allocation of the sample to the different states and the possible differences in response rates, sampling weights were calculated, added to the data file, and applied so that the results would be representative at the national level as well as the domain level. Because the 2018 NDHS sample was a two-stage stratified cluster sample selected from the sampling frame, sampling weights were calculated based on sampling probabilities separately for each sampling stage and for each cluster.

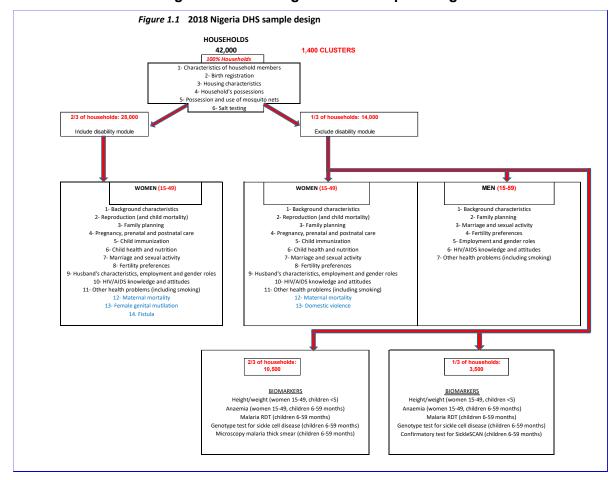


Figure 1.1 2018 Nigeria DHS sample design

The 2018 NDHS included all women age 15-49 in the sample households. Those who were either permanent residents of the selected households or visitors who stayed in the households the night before the survey were eligible to be interviewed. The men's survey was conducted in one-third of the sample households, and all men age 15-59 in these households were included (**Figure 1.1**). In this subsample, one eligible woman in each household was randomly selected to be asked additional questions about domestic violence. Similarly, biomarker information was collected only in those households selected for the men's survey. The biomarkers included in this survey were height and weight for women age 15-49 and children age 0-59 months, haemoglobin testing for women age 15-49 and children age 6-59 months, and testing for

malaria and sickle cell disease among children age 6-59 months. The disability module, female genital cutting module, and fistula module were implemented in the two-thirds of the households that were not selected for the men's survey.

The survey was successfully carried out in 1,389 clusters after 11 clusters with deteriorating law-and-order situations during fieldwork were dropped. These areas were in Zamfara (4 clusters), Lagos (1 cluster), Katsina (2 clusters), Sokoto (3 clusters), and Borno (1 cluster). In the case of Borno, 11 of the 27 LGAs were dropped due to high insecurity, and therefore the results might not represent the entire state. Please refer to Appendix A for details.

1.3 **QUESTIONNAIRES**

Four questionnaires were used for the 2018 NDHS: the Household Questionnaire, the Woman's Questionnaire, the Man's Questionnaire, and the Biomarker Questionnaire. The questionnaires, based on The DHS Program's standard Demographic and Health Survey (DHS-7) questionnaires, were adapted to reflect the population and health issues relevant to Nigeria. Comments were solicited from various stakeholders representing government ministries and agencies, nongovernmental organisations, and international donors. In addition, information about the fieldworkers for the survey was collected through a self-administered Fieldworker Questionnaire.

The survey protocol was reviewed and approved by the National Health Research Ethics Committee of Nigeria (NHREC) and the ICF Institutional Review Board. After all questionnaires were finalised in English, they were translated into Hausa, Yoruba, and Igbo. The 2018 NDHS used computer-assisted personal interviewing (CAPI) for data collection.

The Household Questionnaire listed all members of and visitors to selected households. Basic demographic information was collected on each person listed, including age, sex, marital status, education, and relationship to the head of the household. For children under age 18, survival status of parents was determined. Data on age, sex, and marital status of household members were used to identify women and men who were eligible for individual interviews. The Household Questionnaire also collected information on characteristics of the household's dwelling unit, such as source of drinking water; type of toilet facilities; materials used for flooring, external walls, and roofing; ownership of various durable goods; and ownership of mosquito nets. In addition, data were gathered on salt testing and disability.

The Woman's Questionnaire was used to collect information from all eligible women age 15-49. These women were asked questions on the following topics:

- Background characteristics (including age, education, and media exposure)
- Birth history and child mortality
- Knowledge, use, and source of family planning methods
- Antenatal, delivery, and postnatal care
- Vaccinations and childhood illnesses
- Breastfeeding and infant feeding practices
- Women's minimum dietary diversity
- Marriage and sexual activity
- Fertility preferences (including desire for more children and ideal number of children)
- Women's work and husbands' background characteristics
- Knowledge, awareness, and behaviour regarding HIV/AIDS and other sexually transmitted infections (STIs)
- Knowledge, attitudes, and behaviour related to other health issues (e.g., smoking)
- Female genital cutting
- Fistula
- Adult and maternal mortality
- Domestic violence

The Man's Questionnaire was administered to all men age 15-59 in the subsample of households selected for the men's survey. The Man's Questionnaire collected much of the same information as the Woman's Questionnaire but was shorter because it did not contain a detailed reproductive history or questions on maternal and child health.

The Biomarker Questionnaire was used to record the results of anthropometry measurements and other biomarkers for women and children. This questionnaire was administered only to the subsample selected for the men's survey. All children age 0-59 months and all women age 15-49 were eligible for height and weight measurements. Women age 15-49 were also eligible for haemoglobin testing. Children age 6-59 months were also eligible for haemoglobin testing, and genotype testing for sickle cell disease.

The purpose of the Fieldworker Questionnaire was to collect basic background information on the people who were collecting data in the field, including the team supervisor, field editor, interviewers, and the biomarker team (laboratory scientist and nurse). Each interviewer completed the self-administered Fieldworker Questionnaire after the final selection of interviewers and before the fieldworkers entered the field. No personal identifiers were attached to the 2018 NDHS fieldworkers' data file.

1.4 ANTHROPOMETRY, ANAEMIA TESTING, MALARIA TESTING, AND SICKLE CELL ANAEMIA TESTING

The 2018 NDHS incorporated four biomarkers: anthropometry, anaemia testing, malaria testing, and genotype testing for sickle cell anaemia. Biomarkers were collected in the one-third of households selected for the male survey. Blood specimens for the tests were collected from eligible women who voluntarily consented to be tested and from all children age 6-59 months for whom consent was obtained from their parents or the adult responsible for them. In contrast with the data collection procedure for the household and individual interviews, data related to biomarkers were initially recorded on a paper Biomarker Questionnaire and subsequently entered into interviewers' tablet computers. As part of quality assurance, a Biomarker Checklist was used to verify that proper procedures were followed during collection of biomarker data and to enhance supportive supervision.

Anthropometry: Height and weight measurements were recorded for children age 0-59 months and women age 15-49. The 2018 NDHS included quality assurance procedures to improve anthropometry data quality. These procedures, undertaken in real time during data collection, included re-measurement of all children with data outside of pre-specified flagged values on a subsequent day and re-measurement of the height and weight of 10% of a random sample of children on a subsequent day.

Anaemia testing: Blood samples for anaemia testing were obtained from a drop of blood taken from a finger prick (or a heel prick for children age 6-11 months). A drop of blood from the prick site was drawn into a microcuvette, and a haemoglobin analysis was carried out on-site with a battery-operated portable HemoCue analyser. Results were provided verbally and in writing. Parents of children with a haemoglobin level below 8 g/dl were instructed to take the child to a health facility for follow-up care. Likewise, nonpregnant women and pregnant women were referred for follow-up care if their haemoglobin levels were below 8 g/dl and 7 g/dl, respectively. All households in which anaemia testing was conducted were given a brochure that explained the causes and prevention of anaemia.

Malaria testing: Malaria testing was carried out among children age 6-59 months. With the same finger (or heel) prick used for anaemia testing, a drop of blood was tested immediately using the SD Bioline Ag P.f. (HRP-II)TM rapid diagnostic test (RDT), which is a qualitative test for the detection of histidine-rich protein II (HRP-II) antigen of *Plasmodium falciparum* (Pf) in human whole blood. *Plasmodium falciparum* is the predominant *Plasmodium* species found in Nigeria. A tiny volume of blood is captured with a disposable sample applicator and placed in the well of the testing device. All health technicians were trained to perform RDTs in the field according to the manufacturers' instructions. Technicians read,

interpreted, and recorded the RDT results after 15 minutes following the instructions in the kit insert. The RDT results were recorded as Pf positive or negative, with faint test lines being considered positive. As with anaemia testing, malaria RDT results were provided to the child's parent or guardian in oral and written form and were recorded on the Biomarker Questionnaire. Children who tested positive for malaria by RDT were offered a full course of treatment according to the standard procedures for treating malaria in Nigeria if they did not have a severe case of malaria (diagnosed by symptoms or the presence of severe anaemia), were not currently on treatment, and had not completed a full course of artemisinin-based combination therapy (ACT) during the preceding 2 weeks. Nurses on each field team were instructed to ask about signs of severe malaria and about any medications the child might be taking. The nurses then provided the age-appropriate dose of ACT and instructions for administering the medicine to the child.^{1,2} The anaemia brochure also contained information on malaria and was given to all households in which malaria testing was conducted.

Microscopy on thick blood smears: In addition to the SD Bioline Ag P.f. rapid test, a thick smear was prepared on a slide for 75% of the households where malaria RDTs were performed. These blood smears were dried and packed carefully in the field, assigned barcode labels corresponding to the Biomarker Questionnaire, and then transported to the state-level laboratory, where they were stained. There were 18 designated staining sites in the states, one site for each two states. The stained slides were then transferred to the Primary Testing Laboratory (ANDI Centre of Excellence for Malaria Diagnosis, Lagos University Teaching Hospital). Microscopy to determine malaria infection was carried out in this laboratory. External quality control was conducted on a selected proportion of the slides in the Secondary Testing Laboratory at the University of Calabar Teaching Hospital.

Genotype testing for sickle cell disease: Sickle cell disease (SCD) is a common and life-threatening haematological disorder. Given that sickle cell anaemia is a public health concern in Nigeria, it was thought vital to include this disease in the survey as there is no reliable information at the national level. Blood collection for genotype testing was carried out among children age 6-59 months. With the same finger (or heel) prick used for anaemia and malaria testing, a drop of blood was tested immediately using the SickleSCAN® rapid diagnostic test kit. A tiny portion of blood was captured on the capillary sampler, dispensed into the PreTreatment Module, and mixed to allow complete treatment of the specimen with buffer. The specimen was then dispensed into the SickleSCAN cartridge. Results were available in 5 minutes. The results were provided to the respondent or the child's parent/guardian through the pamphlet and also recorded on the Biomarker Questionnaire. Parents or guardians whose children have sickle cell disease were urged to take the child to a health facility for follow-up care.

In 25% of the households where genotype testing was done, a confirmatory test for the SickleSCAN RDT was conducted. Using the same finger (or heel) prick used for the above tests, a drop of blood was collected on the filter paper card to form a dry blood spot to which a barcode label unique to the child was affixed. A duplicate label was attached to the Biomarker Data Collection Form. A third copy of the same barcode was affixed to the Dried Blood Spot Transmittal Sheet to track the blood samples from the field to the laboratory. The samples were then transported to the standard laboratory for high-performance liquid chromatography (HPLC) confirmatory testing at the International Foundation Against Infectious Disease in Nigeria (IFAIN) in Abuja. Upon arrival at the laboratory, each blood sample was logged into the CSPro Genotype Test Tracking System database, given a laboratory number, and stored at -20°C or lower until

¹ Dosage of ACT was based on the age of the recipient. The proper dosage for a child age 6 months to 3 years is one tablet of artemether-lumefantrine (co-formulated tablets containing 20 mg artemether and 120 mg lumefantrine) to be taken twice daily for 3 days, while the dosage for a child age 4-8 is two tablets of artemether-lumefantrine to be taken twice daily for 3 days.

² Children who exhibited signs of severe malaria (based on symptoms or laboratory confirmation of severe anaemia) were referred to the nearest facility for treatment.

tested. Test results for the 2018 NDHS were entered into a spreadsheet with a barcode as the unique identifier for each result.

1.5 PRETEST

The pretest training was designed to prepare the trainers for the main training as well as to ensure that they were well versed with the NDHS questionnaires and procedures and able to test the questionnaires in the different languages. The training involved sessions of administering the NDHS questionnaires and a separate session for biomarker data collection. Forty-five participants, comprising 5 zonal and 20 state NPC coordinators, 5 National Malaria Elimination Programme (NMEP) coordinators, 2 senior lab scientists from the Lagos University Teaching Hospital (LUTH), 4 lab scientists, 4 nurses, 2 enumerators, and 3 data processing staff members, took part in the pretest training and fieldwork. The pretest took place over a 3-week period from 30 April to 20 May 2018. Most of the participants had previous experience carrying out NDHS surveys or the Nigeria Malaria Indicator Survey (NMIS). The idea behind having the data processing staff participate in the pretest was to familiarise them with the CAPI system.

The training was conducted by ICF staff who focused on the technical components of the survey, biomarkers, and the CAPI data collection system. The training focused on key components of the survey, interview techniques and procedures for completing the NDHS questionnaires, and administration of interviews using the CAPI system. The biomarker training included orientation on collecting height and weight data, testing for anaemia and malaria and genotype testing for sickle cell disease, and standardisation procedures for anthropometry. The participants worked in groups using various training techniques, including interactive question-and-answer sessions, case studies, and role-plays. Before starting the fieldwork, the participants were given ample opportunities to practice on how to administer the questionnaires and to practice collection of biomarkers among women and children. The participants administered the questionnaires in the field, provided feedback on the content and language of the questionnaires, tested the CAPI software programme, commented on the biomarker procedure, and learned various training techniques.

The fieldwork for the pretest was carried out in communities that spoke English, Hausa, Yoruba, and Igbo. Each team carried out the pretest in an urban and a rural location, completing eight clusters in total. Following the fieldwork, a debriefing session was held with the pretest field staff, and modifications to the questionnaires were made based on lessons learned from the exercise.

1.6 TRAINING OF FIELD STAFF

Prior to the main training, biomarker training was held for the laboratory scientists and nurses from 25 June to 6 July 2018. The training was facilitated by the ICF team and supported by the trainers who were trained during the pretest. A total of 37 nurses and 37 laboratory scientists were trained on biomarker data collection and recording. This included training on anthropometry; using rapid test kits to test for anaemia, malaria, and sickle cell disease; preparing slides for malaria parasitaemia; and preparing dried blood spots for confirmatory testing of sickle cell diagnostics.

The training utilised a variety of different learning tools. Plenary lectures were held on the technical aspects of biomarker collection, and other tools included video and hands-on demonstrations on the process of biomarker collection, instructions on how to fill out the questionnaire and transmittal sheets, and instructions on data quality procedures. In addition, break-out sessions were held daily at which trainees had the opportunity for hands-on practice with both adults and children. A total of four anthropometry standardisation exercises with 40 children and two re-standardisation exercises were undertaken. Following the standardisation exercise, the results of the exercise were presented. General observations on accuracy (difference between the reference value and the participant's value) and precision (difference between the first and second readings) were discussed.

The field coordinators were trained on the use of the Biomarker Checklist. Also implemented were random re-measurements for quality assurance and re-visitation of households for re-measurements for flagged cases involving children whose z-score values were less than -3 or greater than 3. A 2-day field practice was conducted. The nurses and laboratory scientists later joined the main team for refresher training before moving on to data collection.

The main training for the 2018 NDHS started on 16 July 2018 and lasted until 13 August 2018. The training included 4 weeks of orientation on data collection instruments and procedures followed by field practice. The 358 participants for the main training were selected through a strict vetting process at the state level. Applicants took a written test and a computerised test and also completed a personal interview to qualify for participation in the main training. Attendees came from different parts of Nigeria and represented major language groups within the country. Most of the candidates had previous fieldwork experience, and some had experience gained through previous rounds of the Nigeria DHS and Malaria Indicator Survey.

Twenty-eight state coordinators from the NPC and five national coordinators from the NMEP who had participated in the pretest training and training of trainers facilitated the training. ICF staff provided technical support during the training sessions. The participants were divided into six classrooms of about 45 participants with at least three facilitators in each room. The training sessions included discussion of concepts, procedures, and methodologies for conducting the DHS survey. Participants were guided through the questionnaires using various training techniques such as role-plays, age probing in pairs, group discussion, in-class exercises, case studies, and presentations. The training also included discussions of the CAPI system, demonstrations of the CAPI DHS menus, and conducting of interviews through the CAPI system.

Participants were evaluated through in-class exercises, quizzes, and observations made during field practice. Ultimately, 37 supervisors and 37 field editors were identified based on their performance. Similarly, 74 male interviewers and 111 female interviewers were selected to serve as enumerators, while the rest were kept as reserves. Thirty-seven laboratory scientists and 37 nurses were also selected to participate in the survey.

The team supervisors received additional training on providing logistical support, managing the field teams, observing interviews, keeping an inventory of supplies, and collecting biomarker data. They were also trained on implementing the Biomarker Checklist to carry out data quality assurance.

The field editors received additional training in performing supervisory activities with the CAPI system, data quality control procedures, fieldwork coordination, and management. The field editors were trained on assigning households and receiving completed interviews from the interviewers, recognising and dealing with error messages, receiving system updates and distributing updates to interviewers, entering biomarker questionnaires, implementing the re-measurement and re-visit questionnaires and the Biomarker Checklist, resolving duplicated cases, and closing clusters. They were also trained on transferring interviews to the central office via the secure internet file streaming system (IFSS) developed by The DHS Program.

Six quality controllers for biomarker data collection were identified from among the trainees who underwent training during biomarker training, pretest training, and the main training, and they received additional training on supporting the teams and monitoring fieldwork through the Biomarker Checklist.

1.7 **FIELDWORK**

The fieldwork for the 2018 NDHS was launched under close supervision on 14 August 2018 in the clusters in the six zonal take-off centres. Thirty-seven teams, each consisting of one supervisor, one field editor, two male interviewers, three female interviewers, one lab scientist, and one nurse, were assigned across the different clusters in the zones. The teams were closely monitored by the state coordinators and the quality

controllers. After completion of the fieldwork in the zonal take-off centres in the first week, all of the teams were brought back to the zonal office for a review session where they had an opportunity to clarify any questions they had. The teams were then dispatched to their respective states. Data collection lasted until 29 December 2018. The fieldwork in some states took longer than expected due to the security situation.

Fieldwork monitoring was an integral part of the 2018 NDHS, and several rounds of monitoring were carried out by the NDHS core team, the state coordinators from the NPC and NMEP, and ICF staff. The monitors were provided with guidelines for overseeing the fieldwork. Weekly field check tables were generated from the completed interviews sent to the central office to monitor fieldwork progress, and regular feedback was sent out to the teams.

1.8 DATA PROCESSING

The processing of the 2018 NDHS data began almost immediately after the fieldwork started. As data collection was completed in each cluster, all electronic data files were transferred via the IFSS to the NPC central office in Abuja. These data files were registered and checked for inconsistencies, incompleteness, and outliers. The field teams were alerted to any inconsistencies and errors. Secondary editing, carried out in the central office, involved resolving inconsistencies and coding the open-ended questions. The NPC data processor coordinated the exercise at the central office. The biomarker paper questionnaires were compared with electronic data files to check for any inconsistencies in data entry. Data entry and editing were carried out using the CSPro software package. The concurrent processing of the data offered a distinct advantage because it maximised the likelihood of the data being error-free and accurate. Timely generation of field check tables allowed for effective monitoring. The secondary editing of the data was completed in the second week of April 2019.

Throughout this report, figures in the tables reflect weighted numbers. Percentages based on 25 to 49 unweighted cases are shown in parentheses, and percentages based on fewer than 25 unweighted cases are suppressed and replaced with an asterisk. This is to caution readers when interpreting data that a percentage based on fewer than 50 cases may not be statistically reliable.

1.9 RESPONSE RATES

Table 1.1 shows response rates for the 2018 NDHS. A total of 41,668 households were selected for the sample, of which 40,666 were occupied. Of the occupied households, 40,427 were successfully interviewed, yielding a response rate of 99%. In the households interviewed, 42,121 women age 15-49 were identified for individual interviews; interviews were completed with 41,821 women, yielding a response rate of 99%. In the subsample of households selected for the male survey, 13,422 men age 15-59 were identified and 13,311 were successfully interviewed, yielding a response rate of 99%.

Table 1.1 Results of the household and individual interviews

Number of households, number of interviews, and response rates, according to residence (unweighted), Nigeria DHS 2018

	Resi		
Result	Urban	Rural	Total
Household interviews			
Households selected	17,282	24,386	41,668
Households occupied	16,906	23,760	40,666
Households interviewed	16,780	23,647	40,427
Household response rate ¹	99.3	99.5	99.4
Interviews with women age 15-49			
Number of eligible women	17,127	24,994	42,121
Number of eligible women interviewed	16,984	24,837	41,821
Eligible women response rate ²	99.2	99.4	99.3
Household interviews in subsample			
Households selected	5,762	8,131	13,893
Households occupied	5,657	7,946	13,603
Households interviewed	5,614	7,900	13,514
Household response rate in subsample ¹	99.2	99.4	99.3
Interviews with men age 15-59			
Number of eligible men	5,547	7,875	13,422
Number of eligible men interviewed	5,506	7,805	13,311
Eligible men response rate ²	99.3	99.1	99.2

¹ Households interviewed/households occupied ² Respondents interviewed/eligible respondents

Key Findings

- Drinking water: Overall, 66% of households have access to an improved source of drinking water (74% in urban areas and 58% in rural areas).
- Availability of water: 71% of households using piped water or water from a tube well or borehole reported having water available to them without an interruption of at least 1 day.
- **Sanitation:** 56% of Nigerian households use an improved sanitation facility.
- *Electricity:* 59% of households have electricity (83% of urban households and 39% of rural households).
- Orphans: 6% of Nigerian children under age 18 are orphans (i.e., one or both parents are dead). Eight percent of children do not live with a biological parent.
- Birth registration: 43% of children under age 5 have their births registered with the civil authorities; among these 62% are registered with NPC.
- Education: Overall, 36% of females and 27% of males in Nigeria have no education.
- School attendance: The net attendance ratio (NAR) is
 61% at the primary level and 49% at the secondary level.

nowledge regarding the socioeconomic characteristics of the household population in the 2018 NDHS provides a context to interpret demographic and health indicators and can furnish an approximate indication of the accurateness of the survey. In addition, this information sheds light on the living conditions of the population.

This chapter presents information on sources of drinking water, sanitation, exposure to smoke inside the home, wealth, handwashing, household population and composition, educational attainment, school attendance, birth registration, and family living arrangements.

2.1 Drinking Water Sources and Treatment

Improved sources of drinking water

Include piped water, public taps, standpipes, tube wells, boreholes, protected dug wells and springs, rainwater, water delivered via a tanker truck or a cart with a small tank, and bottled water.

Sample: Households

In Nigeria, 66% of households have access to an improved source of drinking water, 74% in urban areas and 58% in rural areas (**Table 2.1.1**). Urban and rural households rely on similar sources of drinking water. The three most common improved sources of drinking water in urban and rural households are tube wells

or boreholes (41% in urban and 34% in rural households), protected dug wells or springs (13% in urban and 12% in rural households), and public taps/standpipes (7% in urban and 8% in rural households) (**Figure 2.1**).

Twenty-six percent of urban households and 42% of rural households still depend on unimproved sources for their drinking water. Among urban households, sachet water (18%) is the most common unimproved source of drinking water, while unprotected dug wells (22%) and surface water (15%) are the most common unimproved sources in rural households.

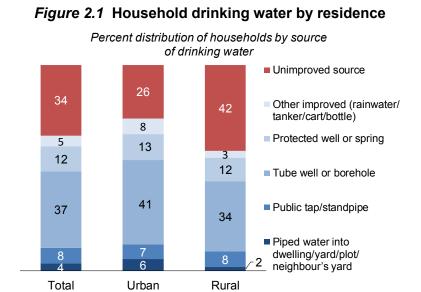
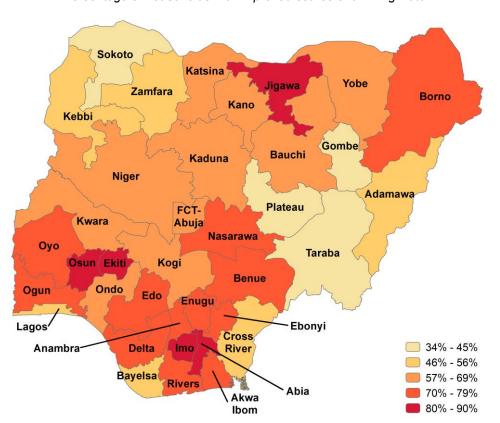


Figure 2.2 Improved water source by state

Percentage of households with improved source of drinking water



The percentage of households with improved sources of drinking water is highest in the South East (81%) and lowest in the North East (60%). Across the states, access to an improved source of drinking water is lowest in Sokoto (34%) and highest in Imo (90%) (**Figure 2.2**). Access to an improved source of drinking

water is most common among residents in the fourth wealth quintile and least common among those in the lowest quintile (84% and 41%, respectively).

Basic drinking water service

Drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less.

Sample: De jure population

Clean water is a basic need for human life; 62% of Nigeria's population has basic drinking water service (72% of the urban population and 54% of the rural population) (**Table 2.1.1**). Only 38% of households in the lowest wealth quintile have basic drinking water service (**Table 2.1.2**).

Limited drinking water service

Drinking water from an improved source, and round-trip collection time is more than 30 minutes.

Sample: De jure population

Fetching drinking water is an additional chore that could be of great cost to household members, depending on the time spent to obtain it. Six percent of urban households and 8% of rural households report having to travel more than 30 minutes to access an improved source of drinking water (**Table 2.1.1**). Overall, 3% of households in Nigeria have limited drinking water service (4% in urban areas and 3% in rural areas).

Most households in Nigeria (92%) report that they do not treat their water prior to drinking. Five percent of households use an appropriate treatment method, 7% in urban areas and 3% in rural areas. Appropriate treatment methods include boiling, adding bleach or chlorine, filtering through ceramic, sand, or other filters, and solar disinfecting (**Table 2.1.3**).

Table 2.2 presents information on the percentage of households using piped water or water from a tube well or borehole that reported availability of water in the last 2 weeks. Seventy-one percent of households in Nigeria reported having water with no interruption of at least 1 day in the 2 weeks before the survey. Seventy-three percent of rural households had availability with no interruption of at least 1 day, as compared with 69% of urban households. Urban households were more likely than rural households to report not having water available for at least 1 day (31% and 27%, respectively).

2.2 SANITATION

Improved toilet facilities

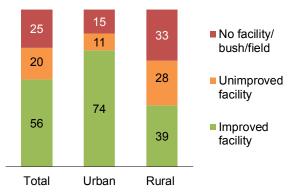
Include flush/pour flush toilets that flush water and waste to a piped sewer system, septic tank, pit latrine, or an unknown destination; ventilated improved pit (VIP) latrines; pit latrines with slabs; or composting toilets.

Sample: Households

Table 2.3.1 provides an overview of the types of sanitation facilities available in the surveyed households at the time of data collection. Overall, 56% of Nigerian households use improved toilet facilities, 74% in urban areas and 39% in rural areas (Figure 2.3). A pit latrine with a slab is the most common type of improved sanitation facility in Nigeria, used by 23% of households (24% in urban areas and 23% in rural areas). This is followed by flush/pour flush toilets that flush to a septic tank (16%); 27% of households in urban areas use this type of facility, as compared with only 6% of households in rural areas. Among rural households, 28% use unimproved toilet facilities, most commonly pit latrines without slabs (27%). Open defecation is still widespread in Nigeria, with 25%

Figure 2.3 Household toilet facilities by residence

Percent distribution of households by type of toilet facilities



of households (33% of rural households and 15% of urban households) engaging in this practice.

Trends: The proportion of households with no toilet facility has decreased over the last 5 years, from 29% of households in 2013 to 25% of households in 2018.

Basic sanitation service

Use of improved facilities that are not shared with other households.

Sample: De jure population

With respect to location of toilet facility, 37% of households in Nigeria have their toilet facility in their own dwelling (46% of urban households and 28% of rural households). Forty-three percent of households have basic sanitation service (48% of urban households and 37% of rural households) (**Table 2.3.1**).

Limited sanitation service

Use of improved facilities shared by two or more households.

Sample: De jure population

In Nigeria, 31% of households have limited sanitation service. Forty percent of urban households use improved toilet facilities that are shared with other households, as compared with only 21% of rural households.

Overall, 53% of the Nigerian population has access to an improved sanitation facility, while 24% has access to an unimproved facility. Twenty-three percent of the population engages in open defecation.

Patterns by background characteristics

- Open defecation is most common in the North Central zone (51%) and least common in the North West (9%) (**Table 2.3.2**).
- The percentage of households with access to an improved sanitation facility is highest in the South West zone (71%) and lowest in the North Central and North West zones (43% each).
- At the state level, Abia has the highest percentage of households with an improved sanitation facility (93%), while Ebonyi has the lowest (17%).
- Only 9% of households in Kebbi and 10% in Ebonyi have basic sanitation service, the lowest percentages among the states.

• As expected, access to an improved sanitation facility is most common among households in the highest wealth quintile (94%) and least common among households in the lowest quintile (12%).

2.3 EXPOSURE TO SMOKE INSIDE THE HOME

Exposure to smoke inside the home, from either cooking with solid fuels or smoking tobacco, has potentially harmful health effects. In Nigeria, 69% of households use some type of solid fuel for cooking, with 61% using wood (**Table 2.4**). Exposure to cooking smoke is greater when cooking takes place inside the house rather than in a separate building or outdoors. In 40% of households, cooking is done in the house (48% in urban areas and 34% in rural areas). In 7% of households, someone smokes inside the house on a daily basis. Overall, only 15% of households in Nigeria use clean fuel for cooking, 27% in urban areas and 4% in rural areas.

Other Housing Characteristics

The 2018 NDHS also collected data on access to electricity, flooring materials, and the number of rooms used for sleeping. Fifty-nine percent of households in Nigeria have access to electricity (83% in urban areas and 39% in rural areas) (**Table 2.4**). A majority of both urban (68%) and rural (54%) households use cement flooring in their dwellings.

2.4 HOUSEHOLD WEALTH

Household Durable Goods

The survey also collected information on household effects, means of transportation, and ownership of agricultural land and farm animals. In general, urban households are more likely than rural households to possess household effects. The most commonly found item in all households is a bed (94%). This is followed by a mobile phone (88%); 95% of urban and 82% of rural households own a mobile phone. As expected, rural households are more likely than urban households to own agricultural land and farm animals. Thirty-two percent of urban households own agricultural land, as compared with 76% of rural households (**Table 2.5**).

Wealth Index

Wealth index

Households are given scores based on the number and kinds of consumer goods they own, ranging from a television to a bicycle or car, and housing characteristics such as source of drinking water, toilet facilities, and flooring materials. These scores are derived using principal component analysis. National wealth quintiles are compiled by assigning the household score to each usual (de jure) household member, ranking each person in the household population by her or his score, and then dividing the distribution into five equal categories, each comprising 20% of the population.

Sample: Households

Table 2.6 shows that the wealthiest households are concentrated in urban areas (38%); only 6% of the wealthiest households are in rural areas (Figure 2.4). The South West zone has a much higher percentage of households in the highest wealth quintile (48%) than the North East and North West zones (5% and 9%, respectively). Among the states, Lagos has the highest percentage of households in the highest wealth quintile (75%), while Kebbi, Yobe, and Sokoto have the lowest (2% each).

HANDWASHING 2.5

To obtain handwashing information, interviewers asked to see the place where members of the household most often wash their hands. Interviewers

were able to observe a place for handwashing in 81% of households (84% in urban areas and 79% in rural areas) (Table 2.7). Thirty-eight percent of households had soap and 63% had water available. Cleansing agents other than soap were available in 1% of households.

The availability of soap and water varies across zones, from a low of 12% and 44%, respectively, in the increases with increasing wealth; 68% and 87% of households in the highest wealth quintile had soap and

North East to a high of 61% and 85%, respectively, in the South West. Availability of soap and water water available, as compared with 13% and 41% of households in the lowest quintile.

2.6 HOUSEHOLD POPULATION AND COMPOSITION

Household

A person or group of related or unrelated persons who live together in the same dwelling unit(s), who acknowledge one adult male or female as the head of the household, who share the same housekeeping arrangements, and who are considered a single unit.

De facto population

All persons who stayed in the selected households the night before the interview (whether usual residents or visitors).

De jure population

All persons who are usual residents of the selected households, whether or not they stayed in the household the night before the interview.

How data are calculated

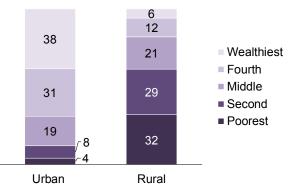
All tables are based on the de facto population unless otherwise specified.

Household composition and population data provide information on the socioeconomic characteristics of the households and respondents surveyed in terms of age, sex, and place of residence.

A total of 187,974 individuals stayed overnight in the 40,427 interviewed households; 49% of these individuals were male and 51% were female, yielding a sex ratio (number of males per 100 females) of 97.

Figure 2.4 Household wealth by residence

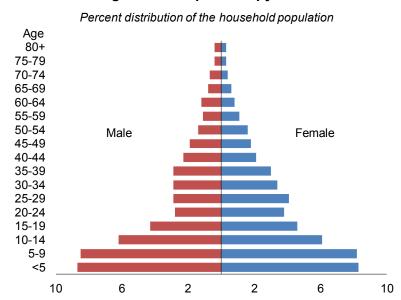
Percent distribution of de jure population by wealth quintiles



Forty-six percent of individuals are in the 0-14 dependency age group, while 4% are in the 65 and above dependency age group (**Table 2.8**). Fifty percent of the population is in the 15-64 age group. Children age 0-17 form the bulk of the population (52%). The broad base of the population pyramid shows that Nigeria's population is typical of countries with a low life expectancy and high fertility rates (**Figure 2.5**).

The average household size in Nigeria is 4.7 persons. Urban households are slightly smaller than rural households (4.3 persons versus 5.0 persons). A majority of the households in Nigeria are headed by men (82%) (**Table 2.9**).

Figure 2.5 Population pyramid



2.7 CHILDREN'S LIVING ARRANGEMENTS AND PARENTAL SURVIVAL

Orphan

A child with one or both parents who are dead.

Sample: Children under age 18

Table 2.10 presents the percentage distribution of children under age 18 by living arrangements and survival status of parents. Eight percent of children under age 18 do not live with a biological parent, while 6% are orphans (i.e., one or both parents are dead).

Among children less than age 2, 2% were not leaving with their parents at the time of the interview, and 1% had lost one or both parents. The percentage of children who are orphans rises rapidly with age, from 3% among those under age 2-4 to 14% among those age 15-17. The South East has the highest percentage of children who are orphans (9%), while the North West and South West have the lowest percentages (5% each).

Trends: The percentage of children under age 18 living with both parents has increased over time, from 71% in 2008 to 74% in 2013 and 75% in 2018.

2.8 BIRTH REGISTRATION

Registered birth

Child has a birth certificate or child does not have a birth certificate, but his/her birth is registered with the civil authorities.

Sample: De jure children under age 5

Table 2.11 presents information on birth registration of children under age 5. Birth registration is the documentation of the facts of each birth into an official log book kept at the registrar's office. According to the Births and Deaths (Compulsory Registration) Act Number 69 of 1992, registration of births and deaths is compulsory in all cases in Nigeria. The National Population Commission is responsible for registering

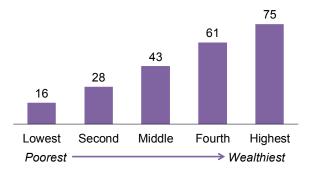
these important events nationwide (NPC 1992). Information was collected in the household interview whereby respondents were asked if children under age 5 residing in the household have been registered. At the time of the survey, 43% of children under age 5 were registered with the civil authorities (39% of children under age 2 and 45% of children between age 2 and 4). One in five of these children had birth certificates. Children in urban areas are much more likely than rural children to have their births registered (60% versus 32%).

Birth registration increases with increasing household wealth (**Figure 2.6**). Children in the highest wealth quintile are much more likely to have their birth registered (75%) than children in the lowest wealth quintile (16%).

Table 2.12 presents the percent distribution of children under age 5 whose births are registered with the civil authorities by type of authority. The results show that 62% of births in the 5 years preceding the survey were registered with the National Population Commission. Ten percent of children were registered under a local government administration, 26% with a private clinic/hospital, and the remaining 3% with other agencies.

Figure 2.6 Birth registration by household wealth

Percentage of de jure children under age 5 whose births are registered with the civil authorities



The percentage of children registered with the National Population Commission is higher in urban areas (64%) than in rural areas (60%). Across the states, registration of births under the commission is highest in Delta (99%) and lowest in Adamawa (20%); Adamawa has the highest percentage of births registered with a private clinic/hospital (65%).

Trends: The proportion of de jure children whose births were registered has increased since 2013, from 30% to 43%. Birth registration under the National Population Commission has also increased, from 57% to 62%.

2.9 EDUCATION

2.9.1 Educational Attainment

Median educational attainment

Half of the population has completed less than the median number of years of schooling, and half of the population has completed more than the median number of years of schooling.

Sample: De facto household population age 6 and older

Education is one of the most important aspects of social and economic development. Education improves capabilities and is strongly associated with various socioeconomic variables such as lifestyle, income, and fertility for both individuals and societies. Overall, 36% of females and 27% of males in Nigeria have no education (**Table 2.13.1** and **Table 2.13.2**). Eighteen percent of females and 19% of males age 6 or older have attended some primary school; however, only 11% of both sexes have completed a primary education. The median number of years of schooling is 3.6 for women and 5.4 for men.

Patterns by background characteristics

• Urban residents are much more likely than rural residents to be educated. Twenty percent of females age 6 and older in urban areas have no education, as compared with 49% of females in rural areas. The proportions among males are 13% and 37%, respectively.

- At the zonal level, the North West and North East have the highest percentages of both females (55% and 57%, respectively) and males (40% and 47%, respectively) with no education.
- Twenty-four percent of women in the highest wealth quintile have more than a secondary education, while only 7% have no education. On the contrary, 75% of women in the lowest quintile have no education and less than 1% have more than a secondary education.

Trends: The percentage of females age 6 and over with no education has decreased slightly since 2013, from 40% to 36%. A similar pattern is observed among males, with a reduction from 30% to 27%. Secondary school or higher level attainment among women has increased slightly, from 16% to 23%, while among men it has increased from 24% to 30%. The median number of years of schooling has increased from 1.7 to 3.6 among women and from 4.7 to 5.4 among men.

2.9.2 School Attendance

Net attendance ratio (NAR)

Percentage of the school-age population that attends primary or secondary school.

Sample: Children age 6-12 for primary school NAR and children age 13-18 for secondary school NAR

The primary school net attendance ratio (NAR) for children age 6-12 is 61% (59% for girls and 62% for boys). The secondary NAR drops drastically to 47% among girls and 52% among boys (**Table 2.14**).

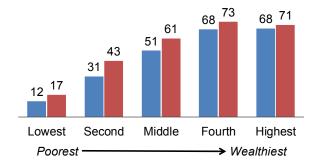
Patterns by background characteristics

- There is a substantial difference in the primary school NAR between urban and rural areas (72% and 53%, respectively). The difference increases at the secondary school level (65% in urban areas and 37% in rural areas).
- Among the zones, the primary and secondary NARs are highest in the South East (82% and 75%, respectively) and lowest in the North East (46% and 31%, respectively).
- The NAR increases with increasing household wealth, especially at the secondary school level. The overall secondary NAR rises from 15% in the lowest wealth quintile to 70% in the fourth and highest quintiles. Among girls, the secondary NAR increases from 12% in the lowest quintile to 68% in the fourth and highest quintiles (Figure 2.7).

Figure 2.7 Secondary school attendance by household wealth

Net attendance ratio for secondary school among children age 13-18

Girls Boys



Other Measures of School Attendance

Gross attendance ratio (GAR)

The total number of children attending primary school divided by the official primary school-age population and the total number of children attending secondary school divided by the official secondary school-age population.

Sample: Children age 6-12 for primary school GAR and children age 13-18 for secondary school GAR

Gender parity index (GPI)

The ratio of female to male students attending primary school and the ratio of female to male students attending secondary school. The index reflects the magnitude of the gender gap.

Sample: Primary school students and secondary school students

The gross attendance ratio (GAR) and gender parity index (GPI) are also presented in **Table 2.14**. A primary school GAR value of more than 100% means that a significant number of primary school students are not of the official primary school age. In Nigeria, the GAR is 86% at the primary level (83% for females and 88% for males) and 71% at the secondary level (67% for females and 74% for males).

A GPI of 1 indicates parity or equality between male and female school participation ratios. A GPI lower than 1 indicates a gender disparity in favour of males, with a higher proportion of males than females attending the specified level of schooling. A GPI higher than 1 indicates a gender disparity in favour of females. In Nigeria, the GPI is 0.95 at the primary school level and 0.91 at the secondary school level, indicating that more boys than girls attend primary and secondary school.

LIST OF TABLES

For more information on household population and housing characteristics, see the following tables:

•	Table 2.1.1	Household drinking water
•	Table 2.1.2	Drinking water according to zone, state, and wealth
•	Table 2.1.3	Treatment of household drinking water
•	Table 2.2	Availability of water
•	Table 2.3.1	Household sanitation facilities
•	Table 2.3.2	Sanitation facility type according to zone, state, and wealth
•	Table 2.4	Household characteristics
•	Table 2.5	Household possessions
•	Table 2.6	Wealth quintiles
•	Table 2.7	Handwashing
•	Table 2.8	Household population by age, sex, and residence
•	Table 2.9	Household composition
•	Table 2.10	Children's living arrangements and orphanhood
•	Table 2.11	Birth registration of children under age 5
•	Table 2.12	Birth registration of children under age 5 by authority
•	Table 2.13.1	Educational attainment of the female household population
•	Table 2.13.2	Educational attainment of the male household population
	Table 2.14	School attendance ratios

Table 2.1.1 Household drinking water

Percent distribution of households and de jure population by source of drinking water and by time to obtain drinking water, percentage of households and de jure population with basic drinking water service, and percentage with limited drinking water service, according to residence, Nigeria DHS 2018

		Households		Population			
Characteristic	Urban	Rural	Total	Urban	Rural	Total	
Source of drinking water							
Improved source	73.9	58.4	65.7	76.1	57.0	65.3	
Piped into dwelling/yard/plot	4.8	1.5	3.0	5.7	1.8	3.5	
Piped to neighbour	0.9	0.4	0.7	1.1	0.4	0.7	
Public tap/standpipe	7.3	7.6	7.5	7.4	7.5	7.5	
Tube well or borehole	40.8	34.0	37.2	41.1	33.1	36.6	
Protected dug well	11.9	11.0	11.4	11.5	10.8	11.1	
Protected spring	0.6	0.5	0.5	0.6	0.4	0.4	
Rainwater	2.2	1.8	2.0	2.2	1.4	1.7	
Tanker truck/cart with small tank	4.1	1.3	2.6	5.5	1.7	3.3	
Bottled water	1.3	0.1	0.7	0.9	0.1	0.5	
Unimproved source	25.9	41.6	34.2	23.7	42.9	34.6	
Unprotected dug well	3.3	22.4	13.5	4.4	25.9	16.6	
Unprotected spring	0.9	2.2	1.6	0.9	2.2	1.6	
Surface water	3.6	14.5	9.4	3.6	13.3	9.1	
Sachet water	18.1	2.4	9.8	14.8	1.4	7.2	
Other	0.2	0.0	0.1	0.2	0.1	0.1	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Time to obtain drinking water (round trip)							
Water on premises ¹	41.7	26.3	33.5	41.6	26.8	33.2	
30 minutes or less	52.2	65.8	59.5	52.2	65.5	59.7	
More than 30 minutes	5.9	7.8	6.9	6.1	7.7	7.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Percentage with basic drinking water service ²	70.2	55.5	62.4	72.1	54.1	61.9	
Percentage with limited drinking water							
service ³	3.6	2.8	3.2	4.0	2.8	3.3	
Number of households/population	18,940	21,487	40,427	81,770	106,586	188,355	

 ¹ Includes water piped to a neighbour and those reporting a round-trip collection time of zero minutes
 ² Defined as drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less. Includes safely managed drinking water, which is not shown separately.
 ³ Drinking water from an improved source, and round-trip collection time is more than 30 minutes

Table 2.1.2 Drinking water according to zone, state, and wealth

Percent distribution of de jure population by drinking water source, percentage of de jure population with basic drinking water service, and percentage with limited drinking water service, according to zone, state, and wealth quintile, Nigeria DHS 2018

Background characteristic	Improved source of drinking water ¹	Unimproved source of drinking water ²	Total	Percentage with basic drinking water service ³	Percentage with limited drinking water service ⁴	Number of persons
		<u> </u>				· ·
Zone	62.0	26.0	100.0	60.0	1.6	25.640
North Central	63.8	36.2	100.0	62.2	1.6	25,640
North East	60.1	39.9	100.0	56.3	3.5	32,602
North West	60.7	39.3	100.0	57.7	2.9	58,840
South East	80.8	19.2	100.0	73.8	7.0	20,227
South South	71.9	28.1	100.0	69.7	2.1	20,552
South West	66.5	33.5	100.0	62.7	3.7	30,495
State						
North Central						
FCT-Abuja	68.4	31.6	100.0	65.6	2.7	1,292
Benue	73.1	26.9	100.0	72.0	1.1	5,267
	65.3	34.7	100.0	62.2	3.2	2,580
Kogi						
Kwara	63.4	36.6	100.0	61.7	1.7	3,265
Nasarawa	74.8	25.2	100.0	74.3	0.5	2,891
Niger	61.0	39.0	100.0	60.7	0.3	6,409
Plateau	45.4	54.6	100.0	41.7	3.6	3,936
North East						
Adamawa	51.6	48.4	100.0	51.5	0.0	4,118
Bauchi	62.5	37.5	100.0	62.3	0.2	7,245
Borno	71.5	28.5	100.0	64.8	5.3	6,790
Gombe	43.0	57.0	100.0	36.9	6.1	3,593
Taraba	44.6	55.4	100.0	41.4	3.2	3,905
Yobe	69.0	31.0	100.0	63.0	6.0	6,952
North West						
Jigawa	83.2	16.8	100.0	83.1	0.0	6,938
Kaduna	66.1	33.9	100.0	62.8	3.3	10,691
Kano	58.6	41.4	100.0	52.4	6.2	13,340
Katsina	63.6	36.4	100.0	59.3	4.3	11,449
Kebbi	48.7	51.3	100.0	47.5	0.6	5,267
Sokoto	34.4	65.6	100.0	34.0	0.4	4,755
Zamfara	56.2	43.8	100.0	56.2	0.1	6,400
South East						
Abia	89.5	10.5	100.0	84.6	4.9	2,607
Anambra	78.5	21.5	100.0	78.1	0.5	5,728
Ebonyi	76.7	23.3	100.0	60.8	15.8	4,248
Enugu	70.7 72.5	27.5	100.0	62.7	9.7	3,453
	89.6	10.4			6.3	4,191
Imo	09.0	10.4	100.0	83.3	0.3	4,191
South South						
Akwa Ibom	77.3	22.7	100.0	73.7	3.6	3,867
Bayelsa	52.8	47.2	100.0	52.8	0.0	1,484
Cross River	53.6	46.4	100.0	49.5	4.1	2,360
Delta	75.4	24.6	100.0	75.1	0.2	4,286
Edo	73.8	26.2	100.0	68.9	4.9	2,712
Rivers	77.0	23.0	100.0	76.0	0.9	5,842
	77.0	20.0	100.0	. 0.0	0.0	5,072
South West						
Ekiti	80.2	19.8	100.0	74.6	5.6	2,108
Lagos	50.3	49.7	100.0	44.1	6.2	11,272
Ogun	74.0	26.0	100.0	73.5	0.5	3,935
Ondo	65.6	34.4	100.0	61.7	3.8	2,968
Osun	81.1	18.9	100.0	77.8	3.3	4,038
Oyo	77.3	22.7	100.0	76.3	0.9	6,174
•	* * * *					-,
Wealth quintile		50. 0	400.0	c= c	0.0	07.00-
Lowest	41.0	59.0	100.0	37.6	3.2	37,685
Second	56.1	43.9	100.0	53.1	2.9	37,674
Middle	73.5	26.5	100.0	69.4	4.1	37,656
Fourth	84.4	15.6	100.0	80.4	3.9	37,671
Highest	71.6	28.4	100.0	69.0	2.5	37,669
_						
Total	65.3	34.7	100.0	61.9	3.3	188,355

See Table 2.1.1 for definition of an improved source.
 See Table 2.1.1 for definition of an unimproved source.
 Defined as drinking water from an improved source, provided either water is on the premises or round-trip collection time is 30 minutes or less. Includes safely managed drinking water, which is not shown separately.
 Drinking water from an improved source, and round-trip collection time is more than 30 minutes.

Table 2.1.3 Treatment of household drinking water

Percentage of households and de jure population using various methods to treat drinking water, and percentage using an appropriate treatment method, according to residence, Nigeria DHS 2018

		Households			Population		
Water treatment method	Urban	Rural	Total	Urban	Rural	Total	
Boil	3.7	1.4	2.5	3.6	1.2	2.2	
Bleach/chlorine added	2.3	0.5	1.3	2.2	0.4	1.2	
Strain through cloth	1.2	2.3	1.8	1.4	2.5	2.0	
Ceramic, sand, or other filter	1.0	0.7	0.8	1.0	0.7	0.9	
Solar disinfection	0.1	0.0	0.1	0.1	0.0	0.1	
Let stand and settle	0.5	0.7	0.6	0.5	0.6	0.6	
Alum	1.5	1.6	1.6	1.4	1.4	1.4	
Other	0.2	0.1	0.1	0.2	0.0	0.1	
No treatment	90.0	93.5	91.9	90.1	93.7	92.1	
Percentage using an appropriate							
treatment method1	7.0	2.5	4.6	6.9	2.3	4.3	
Number of households/population	18,940	21,487	40,427	81,770	106,586	188,355	

Note: Respondents may report multiple treatment methods, so the sum of treatment may exceed 100%.

Appropriate water treatment methods include boiling, bleaching, filtering, and solar disinfecting.

Table 2.2 Availability of water

Percent distribution of households and de jure population using piped water or water from a tube well or borehole, by availability of water in the last 2 weeks, according to residence, Nigeria DHS 2018

	Households			Population		
Availability of water in last 2 weeks	Urban	Rural	Total	Urban	Rural	Total
Not available for at least 1 day Available with no interruption of at least	31.2	26.6	29.2	31.4	26.5	29.2
1 day	68.7	73.2	70.7	68.5	73.4	70.7
Total Number of households/population using	100.0	100.0	100.0	100.0	100.0	100.0
piped water or water from a tube well ¹	12,948	9,616	22,564	54,940	46,116	101,057

¹ Includes households/population reporting piped water or water from a tube well or borehole as their main source of drinking water and households/population reporting bottled water as their main source of drinking water if their main source of water for cooking and handwashing is piped water or water from a tube well or borehole

Table 2.3.1 Household sanitation facilities

Percent distribution of households and de jure population by type of toilet/latrine facilities, percent distribution of households and de jure population with a toilet/latrine facility by location of the facility, percentage of households and de jure population with basic sanitation services, and percentage with limited sanitation services, according to residence, Nigeria DHS 2018

		Households		Population Population		
Type and location of toilet/latrine facility	Urban	Rural	Total	Urban	Rural	Total
Improved sanitation facility	74.1	39.1	55.5	73.7	37.9	53.4
Flush/pour flush to piped sewer system	6.6	1.6	3.9	6.1	1.4	3.4
Flush/pour flush to septic tank	26.6	6.2	15.8	24.1	4.9	13.2
Flush/pour flush to pit latrine	13.8	5.2	9.2	12.8	4.3	7.9
Flush/pour flush, don't know where	0.0	0.0	0.0	0.0	0.1	0.0
Ventilated improved pit (VIP) latrine	3.5	3.5	3.5	3.5	3.7	3.6
Pit latrine with slab	23.5	22.5	23.0	27.2	23.5	25.1
Composting toilet	0.1	0.2	0.1	0.1	0.1	0.1
Unimproved facility						
Unimproved sanitation facility Flush/pour flush not to sewer/septic tank/pit	10.5	28.4	20.0	12.6	32.2	23.7
latrine	1.3	0.5	0.9	1.6	0.5	1.0
Pit latrine without slab/open pit	7.4	27.2	17.9	9.4	31.2	21.7
Bucket	0.2	0.2	0.2	0.2	0.1	0.1
Hanging toilet/hanging latrine	1.4	0.5	1.0	1.4	0.4	0.8
Other	0.1	0.0	0.0	0.1	0.0	0.0
Open defecation (no facility/bush/field)	15.4	32.5	24.5	13.7	29.9	22.9
Total	100.0	100.0	100.0	100.0	100.0	100.0
Number of households/population	18,940	21,487	40,427	81,770	106,586	188,355
Location of toilet facility						
In own dwelling	45.5	27.5	36.9	44.8	27.7	36.0
In own yard/plot	49.3	66.4	57.4	50.3	67.3	59.0
Elsewhere	5.2	6.1	5.7	4.9	5.1	5.0
Total Number of households/population with a toilet/	100.0	100.0	100.0	100.0	100.0	100.0
latrine facility	16,014	14,500	30,515	70,587	74,670	145,257
Percentage with basic sanitation service ¹	47.8	37.4	42.9	51.1	38.1	44.4
Percentage with limited sanitation service ²	39.6	20.5	30.5	34.1	15.9	24.8
Number of households/population	18,940	21,487	40,427	81,770	106,586	188,355

¹ Defined as use of improved facilities that are not shared with other households. Includes safely managed sanitation service, which is not shown separately

separately. $^{\rm 2}$ Defined as use of improved facilities shared by 2 or more households

Table 2.3.2 Sanitation facility type according to zone, state, and wealth

Percent distribution of de jure population by type of sanitation, percentage of de jure population with basic sanitation service, and percentage with limited sanitation service, according to zone, state, and wealth quintile, Nigeria DHS 2018

•		Type of sanitation			Percentage	entage Percentage		
Background characteristic	Improved sanitation facility ¹	Unimproved sanitation facility ²	Open defecation	Total	with basic sanitation service ³	with limited sanitation service ⁴	Number of persons	
Zone	,	,						
North Central	42.9	5.9	51.1	100.0	24.0	18.9	25,640	
North East	51.2	26.4	22.5	100.0	41.8	9.3	32,602	
North West	42.5	48.2	9.3	100.0	30.9	11.6	58,840	
South East	64.0	10.1	25.8	100.0	48.1	15.9	20,227	
South South	64.5	13.5	22.1	100.0	37.0	27.5	20,552	
South West	71.4	4.3	24.3	100.0	30.4	40.6	30,495	
			20	.00.0			00, 100	
State								
North Central	00.0	4.4	00.0	400.0	44.0	07.0	4 000	
FCT-Abuja	68.8	1.4	29.8	100.0	41.0	27.8	1,292	
Benue	43.8	14.3	41.9	100.0	33.3	10.5	5,267	
Kogi	26.7	2.9	70.4	100.0	14.3	12.4	2,580	
Kwara	41.6	1.9	56.5	100.0	15.3	26.3	3,265	
Nasarawa	65.7	12.3	22.0	100.0	28.9	36.8	2,891	
Niger	38.5	3.8	57.7	100.0	20.0	18.4	6,409	
Plateau	35.6	0.4	64.0	100.0	22.3	13.2	3,936	
North East								
Adamawa	76.5	8.0	22.8	100.0	56.0	20.4	4,118	
Bauchi	30.9	59.8	9.3	100.0	26.8	4.1	7,245	
Borno	66.1	24.6	9.3	100.0	49.3	16.8	6,790	
Gombe	73.5	13.6	12.9	100.0	67.8	5.7	3,593	
Taraba	51.7	26.2	22.1	100.0	42.3	9.4	3,905	
Yobe	30.8	15.2	54.0	100.0	28.0	2.8	6,952	
North West								
	17.9	66.1	16.0	100.0	17.3	0.6	6,938	
Jigawa Kaduna	65.8	30.2	4.0	100.0	27.1	38.7	10,691	
	54.0	42.1	3.9					
Kano	39.3			100.0	45.1	8.8	13,340	
Katsina		59.0	1.7	100.0	35.1	4.3	11,449	
Kebbi	22.7	46.8	30.6	100.0	9.2	13.4	5,267	
Sokoto Zamfara	43.5 27.6	31.0 66.0	25.5 6.4	100.0 100.0	39.1 26.1	4.4 1.5	4,755 6,400	
	21.0	00.0	0.4	100.0	20.1	1.5	0,400	
South East	20.4			400.0				
Abia	93.1	4.9	2.0	100.0	59.6	33.5	2,607	
Anambra	82.5	0.0	17.5	100.0	63.3	19.2	5,728	
Ebonyi	17.2	30.2	52.6	100.0	9.9	7.3	4,248	
Enugu	39.2	17.9	42.9	100.0	25.1	14.2	3,453	
Imo	88.6	0.4	11.0	100.0	78.1	10.5	4,191	
South South								
Akwa Ibom	88.3	6.9	4.8	100.0	49.2	39.1	3,867	
Bayelsa	31.5	7.0	61.5	100.0	20.1	11.4	1,484	
Cross River	46.5	42.1	11.4	100.0	22.8	23.7	2,360	
Delta	65.6	2.4	32.0	100.0	42.3	23.3	4,286	
Edo	69.8	3.5	26.7	100.0	38.6	31.3	2,712	
Rivers	61.0	20.7	18.3	100.0	34.3	26.7	5,842	
South West								
Ekiti	49.7	0.1	50.1	100.0	23.9	25.9	2.108	
Lagos	87.2	6.4	6.4	100.0	41.4	44.8	11,272	
Ogun	77.1	5.5	17.5	100.0	24.4	52.7	3,935	
Ondo	49.6	3.4	47.1	100.0	18.0	30.7	2,968	
Osun	62.4	4.3	33.3	100.0	24.9	37.4	4.038	
Oyo	62.7	1.5	35.8	100.0	25.8	36.9	6,174	
Wealth quintile	-	-					-,	
Lowest	12.0	46.7	41.4	100.0	10.2	1.8	37,685	
Second	33.2	36.7	30.1	100.0	23.6	9.7	37,674	
Middle	52.5	19.9	27.6	100.0	32.6	19.9	37,656	
Fourth								
Highest	75.5 94.1	10.8 4.4	13.7 1.5	100.0 100.0	41.6 63.4	33.8 30.5	37,671 37,669	
_								
Total	53.4	23.7	22.9	100.0	34.3	19.1	188,355	

See Table 2.3.1 for definition of an improved facility.
 See Table 2.3.1 for definition of an unimproved facility.
 Defined as use of improved facilities that are not shared with other households. Includes safely managed sanitation service, which is not shown separately.

⁴ Defined as use of improved facilities shared by 2 or more households

Table 2.4 Household characteristics

Percent distribution of households and de jure population by housing characteristics, percentage using solid fuel for cooking, percentage using clean fuel for cooking, and percent distribution by frequency of smoking in the home, according to residence, Nigeria DHS 2018

		Households			Population	
Housing characteristic	Urban	Rural	Total	Urban	Rural	Total
Electricity						
Yes	82.7	38.9	59.4	81.7	37.1	56.5
No	17.3	61.1	40.6	18.3	62.9	43.5
Total	100.0	100.0	100.0	100.0	100.0	100.0
Flooring material						
Earth, sand	11.5	38.3	25.8	14.0	41.8	29.7
Dung Wood/planks	0.2 0.1	0.5 0.3	0.4 0.2	0.2 0.0	0.4 0.2	0.3 0.1
Ceramic tiles	13.1	3.9	8.2	13.1	3.6	7.7
Cement	67.7	53.6	60.2	66.2	51.5	57.9
Carpet	7.0	3.1	5.0	6.2	2.2	3.9
Other ¹	0.3	0.3	0.3	0.3	0.3	0.3
Total	100.0	100.0	100.0	100.0	100.0	100.0
Rooms used for sleeping						
One	41.4	32.3	36.6	28.5	18.8	23.0
Two	31.4	34.9	33.3	32.3	33.4	32.9
Three or more	27.2	32.8	30.2	39.1	47.8	44.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Place for cooking	47.0	04.0	40.4	47.0	00.4	40.0
In the house	47.6 23.0	34.2 31.1	40.4 27.3	47.6 24.6	38.1 30.3	42.2 27.8
In a separate building Outdoors	28.2	32.7	30.6	24.6 27.4	31.0	29.4
No food cooked in household	1.3	2.1	1.7	0.4	0.5	0.5
Other	0.0	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Cooking fuel						
Electricity	1.1	0.3	0.7	1.0	0.2	0.6
LPG/natural gas/biogas	25.7	3.7	14.0	21.6	2.4	10.8
Kerosene	24.3	6.8	15.0	19.8	4.0	10.9
Coal/lignite Charcoal	1.3 9.3	0.3 2.6	0.7 5.8	1.4 10.5	0.2 2.2	0.7 5.8
Wood	36.8	82.6	61.1	45.0	88.5	69.6
Agricultural crop/straw/shrubs/grass	0.3	1.6	1.0	0.4	1.9	1.2
Animal dung	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
No food cooked in household	1.3	2.1	1.7	0.4	0.5	0.5
Total	100.0	100.0	100.0	100.0	100.0	100.0
Percentage using solid fuel for cooking ²	47.7	87.0	68.6	57.3	92.8	77.4
Percentage using clean fuel for cooking ³	26.7	4.0	14.7	22.5	2.7	11.3
Frequency of smoking in the home						
Daily	6.3	7.9	7.2	6.2	7.4	6.9
Weekly	1.6	1.7	1.7	1.5	1.5	1.5
Monthly Less than once a month	0.1 0.3	0.1 0.2	0.1 0.3	0.1 0.2	0.1 0.2	0.1 0.2
Never	91.6	90.1	90.8	91.9	90.9	91.3
Total Number of households/population	100.0 18,940	100.0 21,487	100.0 40,427	100.0 81,770	100.0 106,586	100.0 188,355
Trumber of flousefloids/population	10,570	21,701	70,721	01,770	100,000	100,000

LPG = Liquefied petroleum gas

¹ Includes palm/bamboo, parquet or polished wood, and vinyl or asphalt strips

² Includes coal/lignite, charcoal, wood, straw/shrubs/grass, agricultural crops, and animal dung

³ Includes electricity and LPG/natural gas/biogas

Table 2.5 Household possessions

Percentage of households possessing various household effects, means of transportation, agricultural land, and livestock/farm animals, by residence, Nigeria DHS 2018

	Resi		
Possession	Urban	Rural	Total
Household effects			
Radio	70.9	51.6	60.6
Television	70.7	30.0	49.1
Mobile telephone	94.5	82.1	87.9
Non-mobile telephone	1.0	0.4	0.7
Computer	10.8	2.5	6.4
Refrigerator	35.3	10.3	22.0
Table	75.5	50.6	62.3
Chair	88.1	74.7	81.0
Bed	95.0	93.4	94.1
Sofa	38.6	35.0	36.7
Cupboard	51.1	39.4	44.9
Air conditioner	5.7	0.9	3.1
Electric iron	51.6	16.6	33.0
Generator	39.9	18.5	28.5
Fan	75.0	30.5	51.3
Means of transport			
Bicycle	9.4	15.2	12.5
Animal-drawn cart	0.7	5.2	3.1
Motorcycle/scooter	21.3	32.9	27.5
Car/truck	13.9	5.2	9.3
Boat with a motor	0.5	0.7	0.6
Canoe	1.1	2.7	1.9
Keke Napep	1.2	0.6	0.9
Ownership of agricultural land	31.6	75.5	54.9
Ownership of farm animals ¹	26.1	56.2	42.1
Number of households	18,940	21,487	40,427

 $^{^{\}rm 1}$ Cows, bulls, other cattle, horses, donkeys, goats, sheep, pigs, camel, chickens or other poultry

<u>Table 2.6 Wealth quintiles</u>
Percent distribution of the de jure population by wealth quintiles, and the Gini coefficient, according to residence, zone, and state, Nigeria DHS 2018

Residence/region Residence Urban	Lowest	Second	Middle				Number of	Gini
Urban		Occoria	Middle	Fourth	Highest	Total	persons	coefficient
Urban								
D	4.2	8.0	18.9	30.6	38.4	100.0	81,770	0.15
Rural	32.2	29.2	20.8	11.9	5.9	100.0	106,586	0.32
Zone								
North Central	15.3	24.0	25.2	21.5	14.0	100.0	25,640	0.27
North East	38.1	25.3	19.0	12.1	5.4	100.0	32,602	0.33
North West	31.9	28.9	18.5	12.1	8.5	100.0	58,840	0.33
South East	4.9	10.2	24.2	32.1	28.6	100.0	20,227	0.17
South South	2.8	10.1	23.8	30.4	32.9	100.0	20,552	0.16
South West	3.4	6.9	14.1	27.3	48.3	100.0	30,495	0.13
State								
North Central								
FCT-Abuja	5.5	13.1	17.1	22.6	41.7	100.0	1,292	0.23
Benue	17.5	27.9	28.4	15.7	10.5	100.0	5,267	0.25
Kogi	2.8	20.1	34.7	31.2	11.2	100.0	2,580	0.12
Kwara	20.2	11.2	23.1	27.0	18.5	100.0	3,265	0.23
Nasarawa	3.9	17.2	27.2	33.6	18.2	100.0	2,891	0.17
Niger	17.4	30.4	23.7	16.1	12.4	100.0	6,409	0.26
Plateau	24.5	30.1	20.3	17.6	7.5	100.0	3,936	0.31
North East								
Adamawa	19.4	34.7	26.3	14.3	5.3	100.0	4.118	0.21
Bauchi	45.2	26.6	17.1	8.3	2.8	100.0	7,245	0.29
Borno	19.3	18.9	26.5	21.6	13.7	100.0	6,790	0.20
Gombe	40.8	28.2	14.8	11.2	4.9	100.0	3,593	0.26
Taraba	30.3	36.1	20.9	10.2	2.6	100.0	3,905	0.25
Yobe	63.2	17.0	10.5	7.1	2.2	100.0	6,952	0.32
North West								
Jigawa	55.3	24.8	11.5	4.3	4.0	100.0	6,938	0.24
Kaduna	6.2	30.3	29.7	17.1	16.6	100.0	10,691	0.25
Kano	29.4	24.2	17.3	14.6	14.5	100.0	13,340	0.26
Katsina	21.6	39.5	21.7	13.3	4.0	100.0	11,449	0.21
Kebbi	36.2	36.9	17.2	8.1	1.5	100.0	5,267	0.25
Sokoto	52.0	26.4	10.9	8.2	2.4	100.0	4,755	0.28
Zamfara	54.4	17.3	11.0	11.3	6.0	100.0	6,400	0.30
South East								
Abia	0.0	1.5	12.8	37.5	48.2	100.0	2,607	0.01
Anambra	0.2	6.1	19.7	35.6	38.4	100.0	5,728	0.07
Ebonyi	20.1	26.5	29.8	19.5	4.2	100.0	4,248	0.19
Enugu	3.2	14.1	35.3	25.0	22.5	100.0	3,453	0.13
Imo	0.3	1.6	22.7	42.7	32.7	100.0	4,191	0.09
South South								
Akwa Ibom	3.8	14.9	29.7	27.1	24.4	100.0	3,867	0.17
Bayelsa	1.7	12.1	31.8	30.3	24.2	100.0	1,484	0.13
Cross River	6.8	21.6	25.7	26.2	19.8	100.0	2,360	0.16
Delta	0.8	4.2	23.3	36.9	34.8	100.0	4,286	0.09
Edo	4.2	9.9	31.4	27.4	27.1	100.0	2,712	0.16
Rivers	1.8	6.4	13.8	30.9	47.2	100.0	5,842	0.11
South West								
Ekiti	12.0	13.0	24.4	29.7	20.9	100.0	2,108	0.21
Lagos	0.0	0.7	2.6	21.7	75.0	100.0	11,272	0.02
Ogun	1.0	7.0	16.0	26.7	49.4	100.0	3,935	0.14
Ondo	5.1	16.1	27.8	27.5	23.5	100.0	2,968	0.17
Osun	7.9	13.3	24.7	33.9	20.2	100.0	4,038	0.12
Oyo	4.3	7.5	17.0	32.7	38.5	100.0	6,174	0.12
Total	20.0	20.0	20.0	20.0	20.0	100.0	188,355	0.25

Table 2.7 Handwashing

Percentage of the de jure population for whom the place most often used for washing hands was observed, by whether the location was fixed or mobile; total percentage of the de jure population for whom the place for handwashing was observed; among the de jure population for whom the place for handwashing was observed, percentage with water available, percentage with soap available, and percentage with a cleansing agent other than soap available; percentage of the de jure population with a basic handwashing facility; and percentage with a limited handwashing facility, according to background characteristics, Nigeria DHS 2018

whom place for woodse			f de jure population for or washing hands was observed:		Place for ha	ndwashing observed and:		whom	Percentage of de jure	of de jure population	Number of persons for whom a place for hand- washing was observed or with no place for
Background characteristic	Place for hand- washing was a fixed place	Place for hand- washing was mobile	Total	Number of persons	Water available	Soap available ¹	Cleansing agent other than soap available ²	place for hand- washing was observed	population with a basic hand- washing facility ³	with a limited hand- washing facility ⁴	hand- washing in the dwelling, yard, or plot
Residence Urban Rural	28.3 25.4	55.7 53.4	83.9 78.8	81,770 106,586	72.4 56.0	49.9 27.4	1.6 1.0	68,644 84,034	42.7 22.5	44.4 62.7	76,326 96,294
Zone North Central North East North West South East South South South West	9.3 37.5 32.1 16.3 19.0 31.3	75.4 35.6 49.9 73.0 45.2 59.3	84.7 73.1 82.0 89.3 64.2 90.7	25,640 32,602 58,840 20,227 20,552 30,495	47.8 44.0 58.7 78.8 74.6 84.9	17.8 12.1 31.2 58.6 60.9 61.0	0.9 1.3 1.4 0.1 0.1 2.6	21,719 23,818 48,237 18,060 13,197 27,648	14.4 8.1 28.0 52.8 41.4 53.4	70.4 71.9 64.7 37.5 28.7 34.9	25,105 28,842 50,481 19,911 17,992 30,290
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	17.8 1.1 4.6 2.9 46.1 0.9 12.4	65.6 98.8 65.4 90.9 53.8 56.6 87.5	83.3 100.0 70.0 93.8 99.9 57.5 99.9	1,292 5,267 2,580 3,265 2,891 6,409 3,936	72.7 1.9 82.1 48.1 48.9 86.4 49.6	44.6 1.4 61.7 4.7 23.5 11.0 24.5	0.0 0.0 0.6 0.7 0.8 0.9 2.8	1,077 5,266 1,806 3,062 2,888 3,686 3,933	36.0 1.2 44.1 4.3 23.1 6.2 24.2	46.3 98.6 32.5 88.8 75.7 51.0 72.8	1,288 5,267 2,096 3,265 2,889 6,366 3,933
North East Adamawa Bauchi Borno Gombe Taraba Yobe	52.9 59.6 22.6 0.9 1.6 58.9	34.7 36.7 29.1 53.2 30.2 35.1	87.6 96.4 51.7 54.1 31.8 93.9	4,118 7,245 6,790 3,593 3,905 6,952	39.4 11.8 54.7 90.7 96.6 51.3	3.3 5.5 11.0 47.3 9.9 14.5	1.6 0.2 3.2 2.9 4.8 0.3	3,609 6,982 3,511 1,945 1,241 6,529	2.9 3.9 5.6 45.0 5.2 8.2	84.4 93.4 45.2 52.1 50.7 80.5	4,061 7,066 6,734 1,950 2,115 6,916
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	43.1 17.5 21.5 86.5 1.8 2.7 15.8	56.8 82.4 45.7 11.7 52.7 22.6 83.4	99.9 99.9 67.2 98.2 54.5 25.2 99.1	6,938 10,691 13,340 11,449 5,267 4,755 6,400	43.9 53.9 49.2 96.8 70.4 93.4 17.1	5.0 5.4 33.5 92.9 2.1 4.5 9.1	0.0 1.3 1.9 2.2 2.0 0.9	6,928 10,679 8,969 11,245 2,870 1,201 6,345	4.1 5.1 23.9 90.2 2.0 3.9 4.8	94.9 93.5 54.5 5.1 94.2 83.8 89.6	6,938 10,691 10,728 11,434 2,925 1,368 6,398
South East Abia Anambra Ebonyi Enugu Imo	53.6 11.4 4.3 10.0 17.2	46.3 88.6 55.5 88.9 72.8	99.9 100.0 59.8 98.9 90.0	2,607 5,728 4,248 3,453 4,191	97.6 99.8 15.1 55.4 98.1	77.0 96.7 10.9 25.7 49.9	0.1 0.0 0.6 0.0 0.1	2,604 5,728 2,539 3,416 3,774	75.7 96.7 5.9 25.3 47.9	22.9 3.3 53.7 73.5 48.1	2,607 5,728 4,203 3,453 3,921
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	9.3 4.5 63.6 12.5 10.6 19.8	24.4 94.7 35.4 38.9 66.6 45.0	33.7 99.2 99.0 51.4 77.3 64.8	3,867 1,484 2,360 4,286 2,712 5,842	36.1 89.5 89.3 77.0 45.4 87.7	32.2 14.6 66.5 71.4 40.9 90.2	0.5 0.0 0.0 0.3 0.0 0.0	1,304 1,472 2,337 2,204 2,095 3,786	10.4 14.1 62.6 60.4 31.4 56.6	23.7 84.8 33.3 28.1 50.7 6.5	3,730 1,483 2,355 2,242 2,444 5,739
South West Ekiti Lagos Ogun Ondo Osun Oyo	18.3 35.9 12.9 2.9 47.6 42.2	41.4 61.2 86.3 48.2 50.9 55.8	59.7 97.1 99.2 51.1 98.5 98.0	2,108 11,272 3,935 2,968 4,038 6,174	50.5 94.9 97.9 6.1 98.6 76.2	31.6 63.2 34.5 6.2 94.4 71.9	50.0 0.7 0.0 0.2 0.0 0.0	1,259 10,945 3,902 1,517 3,977 6,048	16.5 61.4 34.3 2.9 93.6 61.7	31.6 35.9 65.3 48.5 5.5 27.7	2,104 11,192 3,913 2,942 4,013 6,125

Continued...

Number of

Table 2.7—Continued

handwashing was Percentage of de jure population for Number of Percentage observed or persons for whom of de jure whom place for washing hands was observed: of de iure with no Place for handwashing observed and: population place for Place for place for population with a handhand-Place for Cleansing handwith a basic limited washing in washing handagent other washing handhandthe than soap available² washing facility³ Background was a fixed washing Number of Water Soap was washing dwelling available1 observed facility4 characteristic place was mobile Total persons available yard, or plot Wealth quintile 37,685 24.9 52.6 77.5 40.5 12.6 29,199 9.9 75.9 33,184 Lowest 1.6 24.6 53.3 77.9 37,674 55.2 25.5 1.7 29,361 20.5 63.9 33,771 Second Middle 21.6 57.2 78.8 37,656 59.2 31.2 1.5 29,678 24.6 58.1 34,775 Fourth 61.0 82.5 37,671 45.3 31,064 37.8 47.8 35,093 0.5 Highest 40.7 47.9 88.6 37,669 86.9 68.3 33,377 61.9 29.3 35,797 188,355 152,679 Total 26.7 54.4 81.1 63.4 37.5 1.3 31.4 54.6 172,620

Number of persons for whom a place for

Soap includes soap or detergent in bar, liquid, powder, or paste form.
 Cleansing agents other than soap include locally available materials such as ash, mud, or sand.
 The availability of a handwashing facility on premises with soap and water
 The availability of a handwashing facility on premises without soap and/or water

Table 2.8 Household population by age, sex, and residence

Percent distribution of the de facto household population by various age groups and percentage of the de facto household population age 10-19, according to sex and residence, Nigeria DHS 2018

	Urban				Rural				
Age	Male	Female	Total	Male	Female	Total	Male	Female	Total
<5	16.1	14.7	15.4	18.7	17.7	18.2	17.6	16.4	17.0
5-9	15.7	14.8	15.2	18.3	17.2	17.8	17.2	16.2	16.7
10-14	12.3	11.9	12.1	12.8	12.1	12.5	12.6	12.0	12.3
15-19	8.9	9.4	9.1	8.8	8.9	8.9	8.8	9.1	9.0
20-24	5.8	7.2	6.5	5.5	7.7	6.6	5.7	7.5	6.6
25-29	5.8	8.4	7.1	5.8	8.0	6.9	5.8	8.2	7.0
30-34	6.5	7.5	7.0	5.4	6.1	5.8	5.9	6.7	6.3
35-39	6.6	6.6	6.6	5.2	5.3	5.3	5.8	5.9	5.8
40-44	5.3	4.3	4.8	4.2	3.9	4.1	4.7	4.1	4.4
45-49	4.2	3.8	4.0	3.4	3.2	3.3	3.8	3.5	3.6
50-54	3.1	3.3	3.2	2.8	3.2	3.0	2.9	3.2	3.1
55-59	2.6	2.4	2.5	2.0	2.1	2.1	2.3	2.2	2.2
60-64	2.4	1.9	2.1	2.3	1.5	1.9	2.4	1.6	2.0
65-69	1.6	1.4	1.5	1.7	1.1	1.4	1.6	1.2	1.4
70-74	1.5	1.0	1.2	1.2	0.8	1.0	1.4	0.9	1.1
75-79	0.7	0.5	0.6	0.7	0.5	0.6	0.7	0.5	0.6
80+	8.0	8.0	8.0	0.9	0.6	0.7	8.0	0.7	8.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dependency age groups									
0-14	44.1	41.4	42.7	49.8	47.1	48.5	47.4	44.6	46.0
15-64	51.2	54.8	53.0	45.6	50.0	47.8	48.0	52.1	50.1
65+	4.6	3.7	4.2	4.5	2.9	3.7	4.6	3.3	3.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Child and adult populations									
0-17	49.6	47.1	48.4	55.7	52.6	54.1	53.1	50.2	51.6
18+	50.3	52.8	51.6	44.3	47.4	45.9	46.9	49.8	48.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Adolescents 10-19	21.2	21.3	21.2	21.6	21.1	21.3	21.4	21.2	21.3
Number of persons	40,176	41,511	81,686	52,495	53,793	106,288	92,670	95,304	187,974

Table 2.9 Household composition

Percent distribution of households by sex of head of household and by household size, mean size of household, and percentage of households with orphans and foster children under age 18, according to residence, Nigeria DHS 2018

	Residence				
Characteristic	Urban	Rural	Total		
Household headship					
Male	78.2	85.3	82.0		
Female	21.8	14.7	18.0		
Total	100.0	100.0	100.0		
Number of usual members					
0	0.0	0.1	0.1		
1	16.4	13.3	14.7		
2	12.2	11.3	11.7		
3	15.0	13.3	14.1		
4	16.1	13.5	14.7		
5	13.7	12.2	12.9		
6	9.6	10.5	10.1		
7	6.3	7.4	6.9		
8	3.7	5.6	4.7		
9+	7.0	12.7	10.0		
Total	100.0	100.0	100.0		
Mean size of households	4.3	5.0	4.7		
Percentage of households with orphans and foster children under age 18					
Double orphans	0.7	8.0	0.7		
Single orphans ¹	7.2	7.4	7.3		
Foster children ²	12.9	13.6	13.2		
Foster and/or orphan children	17.2	17.9	17.6		
Number of households	18,940	21,487	40,427		

Note: Table is based on de jure household members, i.e., usual residents.

¹ Includes children with one dead parent and an unknown survival status of the other parent

² Foster children are those under age 18 living in households with neither their mother nor their father present, and the mother and/or the father are alive.

Table 2.10 Children's living arrangements and orphanhood

Percent distribution of de jure children under age 18 by living arrangements and survival status of parents, percentage of children not living with a biological parent, and percentage of children with one or both parents dead, according to background characteristics, Nigeria DHS 2018

			g with but not father	but n	ith father ot with ther	No	t living with	n either par	ent		living	Percent- age with	
Background characteristic	Living with both parents	Father alive	Father dead	Mother alive	Mother dead	Both alive	Only father alive	Only mother alive	Both dead	Total	with a biolo- gical parent	one or both parents dead ¹	Number of children
Age													
0-4	83.0	9.2	1.3	2.3	0.4	3.2	0.3	0.2	0.1	100.0	3.8	2.3	31,785
<2	85.6	10.7	0.8	1.1	0.3	1.2	0.2	0.1	0.0	100.0	1.5	1.4	11,733
2-4 5-9	81.5 76.6	8.4 7.4	1.6 2.7	3.0 4.9	0.4 1.0	4.3 5.9	0.3 0.5	0.2 0.8	0.2 0.3	100.0 100.0	5.1 7.4	2.8 5.2	20,053 31,311
10-14	70.6	7.0	4.9	5.7	1.6	7.5	0.6	1.4	0.5	100.0	10.1	9.1	23,129
15-17	59.2	6.1	6.7	5.5	2.3	15.3	1.1	2.4	1.4	100.0	20.2	13.9	10,622
Sex													
Male Female	76.5 74.2	7.6 8.0	3.2 3.2	4.7 3.9	1.1 1.0	5.2 7.7	0.4 0.6	0.9 0.9	0.3 0.5	100.0 100.0	6.8 9.7	6.0 6.3	49,137 47,710
	14.2	0.0	5.2	3.9	1.0	1.1	0.0	0.9	0.5	100.0	9.1	0.5	47,710
Residence Urban	71.7	10.1	3.9	4.1	1.0	7.1	0.6	1.0	0.4	100.0	9.1	7.0	39,399
Rural	77.9	6.2	2.7	4.4	1.1	5.9	0.5	0.9	0.4	100.0	7.7	5.6	57,448
Zone													
North Central	72.7	8.7	3.6	4.5	0.7	7.8	0.5	1.2	0.4	100.0	9.9	6.4	12,828
North East	78.9	3.4	3.3	4.1	1.6	6.3	0.7	1.0	0.6	100.0	8.6	7.2	18,315
North West South East	83.7 65.6	3.8 13.3	2.0 6.4	4.2 2.6	1.3 0.6	3.7 9.2	0.4 0.5	0.6 1.2	0.2 0.5	100.0 100.0	4.9 11.5	4.6 9.2	33,822 9,499
South South	61.2	16.1	6.4 4.4	6.0	0.6	9.2 8.4	0.5	1.5	0.5	100.0	11.5	9.2 8.3	9,499
South West	68.4	13.3	2.5	4.7	0.8	8.8	0.5	0.6	0.3	100.0	10.2	4.7	13,166
State													
North Central										400.0			
FCT-Abuja	75.2	7.2	3.1	5.9	0.7	6.0	0.8	1.0	0.1	100.0	8.0	5.7	639
Benue Kogi	62.3 53.3	12.6 20.0	7.1 4.0	4.3 5.6	0.4 0.8	10.1 11.9	0.5 0.9	1.6 2.7	1.1 0.8	100.0 100.0	13.3 16.2	10.7 9.2	2,512 1,206
Kwara	65.9	12.9	2.7	3.1	0.8	13.1	0.5	1.3	0.0	100.0	15.2	4.9	1,672
Nasarawa	79.0	4.6	3.1	4.9	1.3	4.6	0.4	1.5	0.5	100.0	7.0	6.9	1,426
Niger	90.0	1.5	1.2	3.4	0.7	2.5	0.2	0.3	0.1	100.0	3.2	2.5	3,431
Plateau	67.9	9.1	4.4	6.2	0.7	9.9	0.4	1.3	0.2	100.0	11.7	6.9	1,943
North East										400.0			0.440
Adamawa	78.2	6.6	2.5	4.2	1.3	5.5	0.2	0.3	1.3	100.0	7.3	5.6	2,116
Bauchi Borno	83.2 80.1	2.0 3.0	1.6 5.3	4.9 3.1	2.1 1.6	4.1 4.2	0.4 0.9	1.1 1.2	0.4 0.6	100.0 100.0	6.0 6.9	5.7 9.6	4,270 3,730
Gombe	80.0	3.1	2.3	4.7	2.6	5.4	0.5	1.0	0.3	100.0	7.2	6.8	2,034
Taraba	69.3	7.8	3.2	5.3	1.8	9.5	1.1	1.6	0.4	100.0	12.6	8.0	2,120
Yobe	78.3	1.4	4.4	3.3	0.7	9.7	8.0	0.9	0.6	100.0	11.9	7.3	4,044
North West		4.0	4.0							400.0			
Jigawa	84.0	1.8 2.4	1.6	5.5 4.0	1.5 2.0	4.1 3.1	0.6 0.1	0.6 0.4	0.3	100.0 100.0	5.7 3.9	4.6 4.4	4,047
Kaduna Kano	86.2 76.6	9.6	1.7 1.9	5.5	1.3	3.1	0.1	0.4	0.2 0.2	100.0	5.9 5.1	4.4	5,923 7,713
Katsina	84.8	2.2	2.8	3.7	0.7	4.1	0.4	0.7	0.2	100.0	5.8	5.3	6,743
Kebbi	82.6	4.5	2.5	4.0	2.0	3.3	0.4	0.6	0.1	100.0	4.4	5.5	3,040
Sokoto	89.3	0.8	2.4	2.6	1.2	3.1	0.1	0.3	0.2	100.0	3.6	4.1	2,703
Zamfara	89.4	1.1	1.1	2.5	0.9	3.7	0.6	0.5	0.2	100.0	5.0	3.3	3,653
South East	70.7	9.1	10	2.7	0.7	9.1	0.6	17	0.6	100.0	12.1	ΩΛ	1 111
Abia Anambra	70.7 75.0	9.1 11.3	4.8 4.5	0.9	0.7	9.1 6.6	0.6 0.3	1.7 0.8	0.6 0.2	100.0 100.0	12.1 8.0	8.4 6.2	1,114 2,672
Ebonyi	65.0	12.1	8.0	2.4	0.5	10.6	0.3	0.8	0.2	100.0	12.0	9.9	2,360
Enugu	59.0	16.1	7.9	3.0	0.3	11.1	0.5	1.6	0.2	100.0	13.4	10.6	1,504
Imo	55.3	17.7	6.7	4.9	1.2	9.8	1.0	1.8	1.3	100.0	14.0	12.1	1,849
South South		44.4	<i>.</i>		6.6	40.5	2.5			400 -	4.5	40.5	4.00:
Akwa Ibom	57.7 54.4	14.1	8.4	4.1	0.8	10.9	0.9	1.7	1.4	100.0	14.9	13.2	1,661
Bayelsa Cross River	54.4 57.5	21.1 21.8	2.4 3.8	8.8 6.0	0.7 0.2	10.4 7.9	0.5 0.4	1.4 2.0	0.2 0.4	100.0 100.0	12.5 10.7	5.2 6.8	706 1,020
Delta	66.0	12.4	3.0	9.2	0.2	6.5	0.4	1.1	0.4	100.0	8.7	5.9	1,020
Edo	60.4	16.4	4.7	6.4	1.1	7.9	1.3	0.9	1.0	100.0	11.0	9.0	1,309
Rivers	63.4	16.3	3.6	3.9	0.4	8.3	1.3	1.9	8.0	100.0	12.3	8.0	2,614
South West		05 -								,	4		
Ekiti Lagos	60.2 72.4	20.2 9.8	2.2 3.0	4.6 5.0	0.7 1.3	11.2 6.8	0.2 0.7	0.7 0.6	0.0 0.4	100.0 100.0	12.1 8.4	3.8 6.0	906 4,768
Lagos Ogun	72.4 72.4	9.6 11.0	3.0 3.5	5.0 4.5	0.6	6.1	0.7	0.6	0.4	100.0	8.4 8.1	6.0	1,745
Ondo	62.1	17.1	3.5	4.1	1.0	9.5	1.0	1.3	0.3	100.0	12.2	7.2	1,294
Osun	67.2	12.9	2.0	3.5	0.3	13.2	0.3	0.5	0.1	100.0	14.1	3.2	1,702
Oyo	65.7	17.0	0.9	5.4	0.4	10.1	0.3	0.2	0.0	100.0	10.6	1.8	2,751

		mother	g with but not father	but no	ith father ot with ther	No	t living witl	n either par	ent		Percent- age not living	Percent- age with	
Background characteristic	Living with both parents	Father alive	Father dead	Mother alive	Mother dead	Both alive	Only father alive	Only mother alive	Both dead	Total	with a biolo- gical parent	one or both parents dead ¹	Number of children
Wealth quintile													
Lowest	81.1	4.5	2.3	4.0	1.2	5.5	0.4	0.6	0.3	100.0	6.8	4.9	21,443
Second	77.2	6.1	3.6	4.1	1.3	5.9	0.4	0.8	0.5	100.0	7.6	6.6	20,698
Middle	72.4	9.0	4.2	4.6	0.9	6.7	0.6	1.2	0.5	100.0	9.0	7.3	19,593
Fourth	71.9	10.3	3.4	4.5	1.2	6.9	0.5	0.9	0.4	100.0	8.6	6.4	18,310
Highest	73.0	9.8	2.5	4.3	8.0	7.3	8.0	1.2	0.4	100.0	9.7	5.6	16,802
Total <15	77.4	8.0	2.8	4.1	0.9	5.3	0.5	0.7	0.3	100.0	6.8	5.2	86,225
Total <18	75.4	7.8	3.2	4.3	1.1	6.4	0.5	0.9	0.4	100.0	8.3	6.1	96,847

Note: Table is based on de jure members, i.e., usual residents.

¹ Includes children with father dead, mother dead, both dead, and one parent dead but missing information on survival status of the other parent

Table 2.11 Birth registration of children under age 5

Percentage of de jure children under age 5 whose births are registered with the civil authorities, according to background characteristics, Nigeria DHS 2018

_	Percentage of cl	nildren whose births who:	are registered and	
Background characteristic	Had a birth certificate	Did not have a birth certificate	Total percentage of children whose births are registered	Number of children
Age <2 2-4	20.5 22.7	18.3 22.0	38.8 44.8	11,733 20,053
Sex Male Female	22.5 21.3	20.9 20.4	43.4 41.7	16,233 15,552
Residence Urban Rural	30.6 16.3	29.0 15.2	59.6 31.5	12,482 19,304
Zone North Central North East North West South East South South South West	18.3 16.9 20.6 23.1 23.6 33.9	15.2 18.9 14.5 35.9 26.4 29.2	33.5 35.9 35.1 59.0 50.0 63.1	4,336 5,837 11,230 3,278 2,882 4,222
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	35.4 16.9 21.0 17.5 38.1 11.5 11.1	32.2 22.2 21.4 24.2 19.8 5.6 2.7	67.5 39.1 42.4 41.7 57.9 17.1 13.9	214 918 376 515 486 1,226 601
North East Adamawa Bauchi Borno Gombe Taraba Yobe	33.6 14.3 16.9 14.1 13.2 13.3	29.5 26.6 9.0 18.7 16.1 14.7	63.1 40.8 25.9 32.8 29.3 28.0	755 1,379 1,141 636 722 1,202
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	17.6 30.3 9.5 48.2 10.3 0.8 3.2	8.7 14.3 27.1 10.5 17.8 6.1 6.5	26.3 44.6 36.7 58.6 28.1 6.9 9.7	1,318 2,085 2,467 2,203 1,032 916 1,209
South East Abia Anambra Ebonyi Enugu Imo	9.5 41.9 18.1 7.8 20.2	65.4 16.1 10.5 61.4 62.3	74.9 58.0 28.5 69.2 82.5	398 983 808 462 626
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	18.8 11.4 16.9 22.5 35.0 27.4	27.9 20.3 39.3 31.9 24.5 19.7	46.7 31.7 56.2 54.4 59.5 47.1	510 218 302 582 395 875
South West Ekiti Lagos Ogun Ondo Osun Oyo	42.1 19.1 32.8 35.5 18.0 63.6	27.5 50.5 13.4 18.3 33.9 8.1	69.6 69.7 46.2 53.8 51.9 71.7	297 1,458 580 389 557 941
Wealth quintile Lowest Second Middle Fourth Highest	7.5 14.1 23.1 31.8 38.5 21.9	8.3 13.9 20.3 29.4 36.3 20.7	15.9 28.0 43.4 61.2 74.8 42.6	6,952 7,050 6,521 5,865 5,398 31,785

Table 2.12 Birth registration of children under age 5 by authority

Among de jure children under age 5 whose births are registered with the civil authorities, percent distribution of children by authority with which the birth is registered, according to background characteristics, Nigeria DHS 2018

		Authority with which	birth is registered		_	
Background characteristic	National Population Commission	Local government administration	Private clinic/hospital	Other	Total	Number of children
Age						
<2 2-4	61.3 62.8	8.2 10.2	27.9 24.5	2.6 2.5	100.0 100.0	4,554 8,975
Sex		• •			100.0	-
Male Female	62.0 62.6	9.9 9.1	25.4 25.9	2.7 2.4	100.0 100.0	7,039 6,490
Residence						
Urban Rural	64.1 60.0	8.2 11.1	25.3 26.0	2.3 2.8	100.0 100.0	7,445 6,084
Zone						
North Central	52.9	10.9	31.0	5.2	100.0	1,453
North East North West	58.5 55.8	5.2 16.6	32.4 26.9	3.9 0.7	100.0 100.0	2,092 3,943
South East	64.7	1.7	31.0	2.6	100.0	3,943 1,935
South South	75.7	3.8	17.7	2.9	100.0	1,441
South West	71.0	10.4	15.9	2.7	100.0	2,664
State North Central						
FCT-Abuja	94.5	5.2	0.2	0.1	100.0	145
Benue	21.7	7.2	63.4	7.6	100.0	359
Kogi	69.3	11.5	15.8	3.5	100.0	159
Kwara	72.0	17.0	1.4 39.1	9.5	100.0	215
Nasarawa Niger	52.9 33.0	1.1 26.9	40.1	7.0 0.0	100.0 100.0	282 210
Plateau	84.0	12.4	0.6	3.0	100.0	84
North East						
Adamawa	19.9	2.9	65.3	11.8	100.0	477
Bauchi Borno	77.4 92.6	9.1 6.6	12.8 0.0	0.6 0.8	100.0 100.0	563 296
Gombe	65.7	3.5	29.5	1.3	100.0	209
Taraba	43.6	5.6	43.2	7.6	100.0	212
Yobe	56.6	1.5	41.8	0.0	100.0	337
North West Jigawa	37.0	47.9	15.1	0.0	100.0	347
Kaduna	36.4	17.5	46.0	0.1	100.0	930
Kano	41.7	11.1	46.4	0.8	100.0	905
Katsina	79.8	13.9	6.3	0.0	100.0	1,292
Kebbi	91.4	7.2	1.4	0.0	100.0	289
Sokoto Zamfara	31.9 34.4	25.4 8.2	42.8 42.2	0.0 15.2	100.0 100.0	63 118
South East						
Abia	80.1	5.5	13.8	0.7	100.0	298
Anambra	85.9	0.7	13.4	0.0	100.0	570
Ebonyi Enugu	85.8 58.3	0.8 3.3	9.8 30.6	3.6 7.9	100.0 100.0	231 320
Imo	27.1	0.1	70.1	2.7	100.0	517
South South Akwa Ibom	55.0	4.7	20.0	2.2	400.0	222
Bayelsa	55.2 63.5	4.7 10.9	36.8 3.5	3.3 22.1	100.0 100.0	238 69
Cross River	63.4	2.2	33.8	0.6	100.0	170
Delta	98.6	1.1	0.3	0.0	100.0	317
Edo Rivers	71.3 79.4	2.3 5.6	25.0 11.6	1.4 3.4	100.0 100.0	235 412
South West	7.0.7	0.0		U. 1	100.0	
Ekiti	91.3	0.7	6.5	1.6	100.0	207
Lagos	69.9	19.0	9.4	1.6	100.0	1,016
Ogun	92.8	1.2	3.1	2.9	100.0	268
Ondo Osun	72.8 45.7	10.4 13.6	3.9 39.1	13.0 1.6	100.0 100.0	209 289
Oyo	68.1	2.8	27.3	1.8	100.0	675
Wealth quintile		00.0	00.5	4.0	400.0	4 400
Lowest	47.9 58.0	20.2 11.9	26.9 27.6	4.9 2.5	100.0 100.0	1,102
Second Middle	58.0 59.6	9.8	27.6 27.9	2.5 2.7	100.0	1,973 2,829
Fourth	63.3	7.4	27.3	2.0	100.0	3,589
Highest	69.3	7.1	21.2	2.4	100.0	4,035
Total	62.3	9.5	25.6	2.6	100.0	13,529

Table 2.13.1 Educational attainment of the female household population

Percent distribution of the de facto female household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Nigeria DHS 2018

Background characteristic		Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	Number	Median years completed
Age									
6-9	39.6	59.0	0.9	0.5	0.0	0.0	100.0	12,057	0.3
10-14	24.3	37.6	12.0	25.7	0.4	0.0	100.0	11,468	3.8
15-19	24.1	4.1	8.2	40.5	20.6	2.5	100.0	8,719	8.3
20-24	30.8	2.6	9.3	11.3	34.2	12.0	100.0	7,139	9.4
25-29	32.5	2.3	11.8	8.3	31.0	14.0	100.0	7,798	8.4
30-34	33.8	2.4	13.7	7.5	26.2	16.4	100.0	6,403	6.2
35-39	35.2	3.1	16.4	7.2	24.3	13.7	100.0	5,584	5.7
40-44	39.6	3.5	19.4	7.0	18.8	11.6	100.0	3,918	5.4
45-49	37.4	5.6	22.2	6.5	17.7	10.5	100.0	3,290	5.3
50-54	54.0	4.2	16.2	3.4	13.7	8.4	100.0	3,096	0.0
55-59	54.5	4.9	19.0	2.8	9.9	8.9	100.0	2,132	0.0
60-64	65.9	5.7	17.4	1.3	4.4	5.2	100.0	1,570	0.0
65+	73.3	6.3	12.5	1.2	4.1	2.7	100.0	3,123	0.0
Residence		4= 0	44.0			10.1	100.0	0.4.074	
Urban	20.0	17.8	11.8	15.5	22.7	12.1	100.0	34,071	6.0
Rural	48.9	17.2	10.9	10.2	9.8	3.0	100.0	42,236	0.1
Zone	05.7	40.4	44.5	44.4	40.4	7.0	400.0	40.007	0.0
North Central	35.7	18.4	11.5	14.4	13.1	7.0	100.0	10,297	3.6
North East	57.2	16.3	7.4	8.1	7.3	3.7	100.0	12,726	0.0
North West	54.7	17.8	8.9	8.5	7.3	2.7	100.0	22,912	0.0
South East	14.2	19.9	15.5	17.2	23.6	9.5	100.0	8,958	6.1
South South	11.2	17.1	14.8	19.2	27.3	10.5	100.0	8,625	8.0
South West	13.5	15.8	14.3	15.0	27.1	14.3	100.0	12,789	8.2
North Central	04.0	40.0	45.0	40.0	00.4	40.0	100.0	540	5.0
FCT-Abuja	24.0	13.3	15.8	13.0	20.4	13.6	100.0	512	5.8
Benue	24.0	24.7	10.7	20.6	12.7	7.2	100.0	2,150	5.1
Kogi	24.6	17.3	16.5	14.0	20.9	6.7	100.0	1,142	5.5
Kwara	38.2	16.5	13.2	11.0	12.4	8.8	100.0	1,348	3.1
Nasarawa	30.0	18.5	10.8	18.5	14.2	8.0	100.0	1,110	5.1
Niger	63.5	11.8	4.9	7.3	8.4	4.1	100.0	2,386	0.0
Plateau	23.7	23.6	16.1	17.3	12.5	6.9	100.0	1,650	5.2
North East	-4.0						400.0	4.040	
Adamawa	51.2	14.5	7.5	8.6	14.1	4.1	100.0	1,612	0.0
Bauchi	57.1	18.8	10.2	8.0	4.3	1.6	100.0	2,747	0.0
Borno	52.9	15.8	6.5	9.1	8.6	7.1	100.0	2,791	0.0
Gombe	61.6	14.5	6.9	7.1	7.1	2.7	100.0	1,348	0.0
Taraba	40.2	23.6	10.0	12.2	8.9	5.0	100.0	1,589	1.5
Yobe	73.7	11.7	3.8	4.7	4.2	1.8	100.0	2,640	0.0
North West									
Jigawa	56.9	19.9	10.1	7.5	4.8	8.0	100.0	2,729	0.0
Kaduna	41.2	18.9	9.5	12.4	12.5	5.5	100.0	4,141	1.7
Kano	45.5	22.3	8.9	10.5	8.0	4.7	100.0	5,271	0.2
Katsina	45.7	22.4	13.5	9.6	7.7	1.1	100.0	4,476	0.6
Kebbi	78.9	7.0	6.8	3.0	4.0	0.4	100.0	2,014	0.0
Sokoto	81.6	9.4	4.0	2.5	1.7	0.9	100.0	1,789	0.0
Zamfara	71.8	10.6	3.3	5.9	6.3	2.1	100.0	2,492	0.0
South East									
Abia	8.9	18.4	15.5	16.5	29.1	11.4	100.0	1,130	8.4
Anambra	10.2	19.9	16.3	18.0	26.5	9.1	100.0	2,562	7.3
Ebonyi	23.4	24.1	19.5	16.9	13.1	3.0	100.0	1,875	5.1
Enugu	17.2	19.4	13.8	16.8	22.0	10.8	100.0	1,599	6.0
Imo	11.1	17.1	11.5	17.1	28.6	14.6	100.0	1,793	9.6
South South									
Akwa Ibom	13.5	16.8	13.7	19.8	23.6	12.5	100.0	1,705	7.6
Bayelsa	10.2	21.2	16.7	20.5	24.9	6.4	100.0	595	6.5
Cross River	14.2	16.3	14.3	25.2	19.2	10.8	100.0	996	7.2
Delta	9.7	17.3	18.0	17.1	27.4	10.6	100.0	1,762	7.7
Edo	15.6	21.0	16.5	20.1	18.3	8.3	100.0	1,141	5.8
Rivers	7.5	14.6	12.1	17.0	37.9	10.8	100.0	2,426	10.7
South West									
Ekiti	12.3	17.9	13.7	19.0	23.5	13.5	100.0	890	7.9
Lagos	7.1	14.8	12.7	14.2	32.7	18.5	100.0	4,723	11.0
Ogun	16.6	16.9	17.6	13.4	22.4	13.2	100.0	1,659	5.9
Ondo	13.8	19.9	14.5	20.8	21.8	9.2	100.0	1,266	6.3
Osun	17.4	13.9	15.7	15.3	27.5	10.3	100.0	1,729	7.3
Oyo	21.2	15.2	14.2	13.2	23.1	12.9	100.0	2,521	6.0
			· ··-					_,~_ '	

Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	Number	Median years completed
Wealth quintile									
Lowest	75.4	12.4	6.5	3.7	1.9	0.2	100.0	14,635	0.0
Second	52.1	19.3	12.0	9.9	5.9	0.7	100.0	15,002	0.0
Middle	31.8	21.0	14.7	15.5	14.4	2.6	100.0	15,409	4.1
Fourth	16.7	19.1	14.3	17.9	25.1	6.9	100.0	15,601	6.0
Highest	7.1	15.2	8.8	15.2	29.3	24.3	100.0	15,660	11.1
Total	36.0	17.5	11.3	12.6	15.6	7.1	100.0	76,307	3.6

Note: Total includes 12 cases with missing information on age.

¹ Completed grade 6 at the primary level

² Completed grade 6 at the secondary level

Table 2.13.2 Educational attainment of the male household population

Percent distribution of the de facto male household population age 6 and over by highest level of schooling attended or completed and median years completed, according to background characteristics, Nigeria DHS 2018

Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	Number	Median years completed
Age									
6-9	39.0	59.4	1.0	0.5	0.1	0.0	100.0	12,529	0.3
10-14	20.4	41.8	11.7	25.6	0.4	0.0	100.0	11,661	3.9
15-19	19.4	5.0	6.6	47.6	18.7	2.8	100.0	8,188	8.4
20-24	17.6	2.0	6.6	13.5	41.5	18.8	100.0	5,240	11.2
25-29	20.3	2.0	8.2	8.2	37.6	23.7	100.0	5,400	11.3
30-34	19.9	2.0	10.7	6.3	36.0	24.9	100.0	5,460	11.3
35-39	20.9	2.3	12.8	6.3	34.5	23.1	100.0	5,384	11.2
40-44	23.5	2.8	18.2	5.1	30.0	20.4	100.0	4,350	11.0
45-49	21.6	3.2	20.5	6.3	30.5	17.7	100.0	3,498	9.5
50-54	27.1	2.8	20.4	4.8	26.7	18.2	100.0	2,714	6.0
55-59	31.0	3.3	22.1	3.6	20.8	19.1	100.0	2,091	5.7
60-64	40.7	4.3	22.5	2.9	14.4	15.1	100.0	2,191	5.2
65+	54.3	5.9	19.8	2.0	9.0	8.9	100.0	4,241	0.0
Residence Urban	13.1	18.9	10.9	15.0	24.6	17.4	100.0	32,319	8.2
Rural	37.4	19.2	10.9	11.6	14.5	6.3	100.0	40,641	2.8
Zone									
North Central	24.6	18.6	9.9	15.0	18.8	13.1	100.0	10,097	5.7
North East	47.4	17.4	6.4	9.7	11.0	8.2	100.0	12,597	0.4
North West	39.5	21.2	9.3	10.9	10.9	8.1	100.0	21,952	1.8
South East	8.7	22.4	19.8	16.6	23.2	9.2	100.0	7,401	5.9
South South	6.4	18.2	13.0	17.9	30.6	13.6	100.0	8,479	9.4
South West	9.1	15.9	12.3	13.7	31.0	17.9	100.0	12,434	10.6
State									
North Central	47.0	44.0	40.0	44.4	00.4	00.0	400.0	504	0.0
FCT-Abuja	17.2	14.9	13.6	11.4	22.1	20.9	100.0	521	8.0
Benue	12.3	21.2	9.0	22.6	19.9	15.0	100.0	1,997	7.8
Kogi	13.0	20.9	10.7	15.1	26.6	13.7	100.0	976	8.0
Kwara	30.0	19.0	11.8	12.6	14.9	11.7	100.0	1,295	5.1
Nasarawa	16.7	21.1	12.4	15.5	19.2	15.1	100.0	1,175	6.0
Niger Plateau	46.9 14.4	12.8 22.5	4.6 14.5	10.2 15.9	14.2 21.9	11.2 10.7	100.0 100.0	2,591 1,542	1.1 5.9
North East								,-	
Adamawa	40.9	13.8	5.7	11.2	19.4	9.0	100.0	1,600	2.8
Bauchi	47.2	19.9	7.9	9.8	8.2	6.9	100.0	2,787	0.2
Borno	42.9	17.7	5.6	8.9	12.2	12.6	100.0	2,603	1.7
Gombe	52.3	16.5	7.2	8.4	10.6	5.0	100.0	1,463	0.0
Taraba	24.1	26.5	10.2	14.6	14.9	9.8	100.0	1,429	4.7
Yobe	65.2	12.2	3.5	7.5	5.9	5.7	100.0	2,715	0.0
North West									
Jigawa	42.2	23.0	10.4	10.2	7.2	7.0	100.0	2,431	1.2
Kaduna	26.1	24.6	9.8	12.8	16.8	9.9	100.0	4,001	4.7
Kano	30.1	25.1	8.8	13.7	10.6	11.7	100.0	5,066	3.1
Katsina	31.8	23.7	13.0	12.3	12.5	6.6	100.0	4,319	3.5
Kebbi	62.3	10.8	10.0	6.3	6.9	3.6	100.0	1,958	0.0
Sokoto	66.1	14.3	5.9	5.2	5.4	3.0	100.0	1,705	0.0
Zamfara	55.1	14.7	3.7	7.8	10.1	8.6	100.0	2,472	0.0
South East									
Abia	5.3	20.3	17.8	17.6	27.4	11.6	100.0	1,033	8.2
Anambra	6.7	21.3	23.7	17.8	23.6	7.0	100.0	2,054	5.9
Ebonyi	14.0	30.1	20.9	15.3	14.8	5.0	100.0	1,396	5.3
Enugu	10.6	23.6	20.1	15.1	20.4	10.1	100.0	1,285	5.8
Imo	7.4	17.8	14.9	17.0	29.4	13.3	100.0	1,633	8.8
South South	. .	40 =		40 =	o= -	40 =	105 -		
Akwa Ibom	8.1	18.5	14.1	19.7	27.0	12.7	100.0	1,573	8.5
Bayelsa	5.2	19.5	11.1	16.9	33.3	13.9	100.0	639	10.2
Cross River	10.0	15.6	15.1	20.2	25.3	13.9	100.0	968	8.5
Delta	4.1	18.1	12.5	15.5	35.3	14.4	100.0	1,835	10.9
Edo Rivers	8.6 4.9	21.3 17.5	14.9 11.7	19.6 17.0	24.1 33.9	10.3 15.0	100.0 100.0	1,073 2,391	7.1 10.7
	4.5	17.5	11.1	17.0	55.5	10.0	100.0	۱ ۵۶,۵	10.7
South West Ekiti	8.1	18.4	13.5	16.7	25.0	18.2	100.0	860	8.9
Lagos	3.9	14.1	10.6	14.0	35.0	22.3	100.0	4,647	11.2
Ogun	11.7	16.9	14.9	11.6	28.9	15.9	100.0	1,586	8.3
Ondo	10.5	19.7	13.0	18.4	26.5	11.8	100.0	1,237	8.1
Osun	11.6	15.7	12.3	13.3	33.8	13.3	100.0	1,606	9.8

Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	Number	Median years completed
Wealth quintile									
Lowest	65.1	14.8	8.1	6.2	4.8	0.9	100.0	14,347	0.0
Second	36.9	22.4	12.6	12.5	12.1	3.4	100.0	14,043	2.5
Middle	19.5	23.4	13.7	15.7	20.4	7.2	100.0	14,278	5.5
Fourth	9.5	19.7	12.3	16.5	28.5	13.3	100.0	14,889	8.4
Highest	4.7	15.2	7.9	14.5	27.8	29.9	100.0	15,402	11.3
Total	26.6	19.1	10.9	13.1	19.0	11.2	100.0	72,959	5.4

Note: Total includes 11 cases with missing information on age.

¹ Completed grade 6 at the primary level

² Completed grade 6 at the secondary level

Table 2.14 School attendance ratios

Net attendance ratios (NAR) and gross attendance ratios (GAR) for the de facto household population by sex and level of schooling, and the gender parity index (GPI), according to background characteristics, Nigeria DHS 2018

Background Characteristic Male Female Total Gender parity index3 Male Female Total Total Female Total T	Gross attendance ratio ²				
Residence	Gender parity al index ³				
Urban 72.8 70.2 71.5 0.96 99.6 97.1 98. Rural 55.0 51.0 53.1 0.93 79.8 97.1 98. Zone 70.0 71.0 81.0 89.6 97.1 78.0 76.0 North Central 62.1 62.1 62.1 1.00 87.6 91.3 89.0 North East 46.4 44.5 45.5 0.96 66.7 64.2 65. North West 57.9 51.8 54.9 0.90 83.4 74.3 78. South South 72.8 68.0 70.5 0.93 97.2 92.4 94. South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State 8 88.0 70.5 0.93 97.2 92.4 94. North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104. FCT-A					
Rural 55.0 51.0 53.1 0.93 79.8 73.9 76. Zone North Central 62.1 62.1 62.1 1.00 87.6 91.3 89. North Central 46.4 44.5 45.5 0.96 66.7 64.2 65. North West 57.9 51.8 54.9 0.90 83.4 74.3 78. South East 83.7 81.2 28.4 0.97 115.4 109.4 112. South South 72.8 68.0 70.5 0.93 97.2 92.4 94. South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104. Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0					
North Central 62.1					
North Central North East 46.4 44.5 45.5 0.96 66.7 64.2 65. North West 57.9 51.8 54.9 0.90 83.4 74.3 78. South East 83.7 81.2 82.4 0.97 115.4 109.4 1112. South South 72.8 68.0 70.5 0.98 103.9 97.2 92.4 94. South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State North Central FCT-Abuja FC	9 0.93				
North East 46.4 44.5 45.5 0.96 66.7 64.2 65. North West 57.9 51.8 54.9 0.90 83.4 74.3 78. South East 83.7 81.2 82.4 0.97 115.4 109.4 112. South South 72.8 68.0 70.5 0.93 97.2 92.4 94. South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104. Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 103.7 108.3 105. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 63. 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 26.9 0.81 48.2 37.3 42.2					
North West 57.9 51.8 54.9 0.90 83.4 74.3 78. South East 83.7 81.2 82.4 0.97 115.4 109.4 112. South South 72.8 68.0 70.5 0.93 97.2 92.4 94. South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104. Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 66.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 52.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.	4 1.04				
South East 83.7 81.2 82.4 0.97 115.4 109.4 112. South South 72.8 68.0 70.5 0.93 97.2 92.4 94. South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104. Benue 75.0 74.5 74.8 0.99 104.9 103.8 104. Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9					
South South South South West 72.8 68.0 70.5 0.93 97.2 92.4 94. 102. State North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104. 102. Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. 113. 105. 103.7 108.3 105. 103.7 103.7 103.7 108.3 105. 103.7 105. 103.7 105. 103.7 107.2 </td <td></td>					
South West 73.6 71.9 72.7 0.98 103.9 101.4 102. State North Central 75.0 74.5 74.8 0.99 104.9 103.8 104. Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69.					
State North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104.					
North Central FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104.8 104.8 104.8 105.	0.90				
FCT-Abuja 75.0 74.5 74.8 0.99 104.9 103.8 104.8 Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Benue 75.2 74.7 74.9 0.99 108.8 117.5 113. Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba	4 0.00				
Kogi 71.7 68.0 69.9 0.95 103.7 108.3 105. Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe					
Kwara 59.2 62.2 60.6 1.05 80.1 87.2 83. Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West					
Nasarawa 72.7 67.2 70.2 0.92 102.2 92.5 97. Niger 41.5 37.6 39.7 0.91 55.8 55.9 55. Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East 4 48.7 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna <td></td>					
Plateau 70.0 75.1 72.6 1.07 102.9 105.4 104. North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Karina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi					
North East Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64. Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.	8 1.00				
Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64.8 Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38.	2 1.02				
Adamawa 44.2 46.5 45.3 1.05 62.9 65.2 64.8 Bauchi 48.1 45.8 46.9 0.95 69.7 68.4 69. Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto					
Borno 53.3 48.8 50.9 0.92 72.2 65.3 68. Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.	1 1.04				
Gombe 40.9 40.0 40.5 0.98 60.6 57.4 59. Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.	1 0.98				
Taraba 65.3 59.3 62.3 0.91 98.3 90.6 94. Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Yobe 32.4 32.5 32.5 1.00 46.7 48.5 47. North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
North West Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Jigawa 57.3 55.6 56.4 0.97 92.7 83.7 88. Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.	5 1.04				
Kaduna 70.3 60.1 65.5 0.86 102.4 90.8 96. Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Kano 65.0 61.8 63.4 0.95 94.2 86.9 90. Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Katsina 70.9 65.7 68.3 0.93 96.8 91.2 94. Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Kebbi 30.6 22.0 26.4 0.72 44.0 31.8 38. Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Sokoto 31.8 25.9 28.9 0.81 48.2 37.3 42.					
Zamfara 43.9 32.3 38.2 0.73 57.7 43.1 50.					
	5 0.75				
South East					
Abia 82.5 80.0 81.2 0.97 115.6 102.4 108.	9 0.89				
Anambra 85.7 84.6 85.1 0.99 113.2 107.6 110.	2 0.95				
Ebonyi 84.1 77.4 80.7 0.92 115.6 111.2 113.					
Enugu 80.0 84.2 82.0 1.05 114.9 116.6 115.					
Imo 84.7 79.2 82.0 0.93 118.8 108.2 113.	6 0.91				
South South					
Akwa Ibom 69.5 64.2 66.8 0.92 95.7 85.1 90.					
Bayelsa 75.7 77.9 76.7 1.03 97.8 106.7 102.					
Cross River 63.2 60.9 62.0 0.96 90.7 85.1 87. Delta 80.7 70.6 75.8 0.88 107.7 94.9 101.					
Edo 74.3 74.2 74.2 1.00 96.2 98.6 97.					
Rivers 70.8 64.9 68.1 0.92 93.0 90.8 92.					
South West					
Ekiti 67.4 75.2 71.1 1.11 111.8 109.5 110.	7 0.98				
Lagos 75.5 72.7 74.0 0.96 104.1 106.1 105.					
Ogun 76.5 68.6 72.4 0.90 107.2 87.6 96.					
Ondo 79.4 78.4 78.9 0.99 104.1 108.0 106.	0 1.04				
Osun 75.0 71.5 73.2 0.95 101.9 103.1 102.					
Oyo 67.2 68.8 68.0 1.02 100.2 96.4 98.	3 0.96				
Wealth quintile					
Lowest 33.9 30.6 32.3 0.90 52.1 45.7 48.					
Second 60.6 55.6 58.1 0.92 87.5 81.4 84.					
Middle 73.1 69.4 71.3 0.95 103.1 98.4 100.					
Fourth 77.2 76.1 76.6 0.99 105.0 102.9 104. Highest 73.2 69.2 71.2 0.95 99.4 96.8 98.					
•					
Total 62.2 58.8 60.5 0.95 87.8 83.3 85.	6 0.95				

Table 2.14—Continued								
		Net attend	ance ratio1			Gross atter	ndance ratio ²	
Background characteristic	Male	Female	Total	Gender parity index ³	Male	Female	Total	Gender parity index ³
			SECON	DARY SCHOOL				
Residence								
Urban Rural	66.4 41.2	63.0 33.6	64.7 37.4	0.95 0.82	93.9 59.3	91.0 48.6	92.5 54.0	0.97 0.82
Zone								
North Central	54.4	49.0	51.7	0.90	81.4	72.5	77.0	0.89
North East	33.8	27.1	30.5	0.80	48.0	36.7	42.4	0.76
North West	41.8	32.0	36.8	0.77	58.3	43.9	51.0	0.75
South East South South	75.2 72.7	73.9 69.0	74.5 70.9	0.98 0.95	99.5 104.5	101.2 108.5	100.4 106.4	1.02 1.04
South West	67.8	69.2	68.5	1.02	104.5	104.8	100.4	1.04
State								
North Central								
FCT-Abuja	61.1	60.1	60.6	0.98	97.2	87.8	92.4	0.90
Benue	60.1	46.9	53.2	0.78	88.3	69.4	78.4	0.79
Kogi	62.5	63.4	63.0	1.01	105.5	91.8	98.2	0.87
Kwara	56.4	53.6	55.0	0.95	81.9	83.5	82.7	1.02
Nasarawa Niger	64.0 44.0	60.9 26.9	62.4 36.4	0.95 0.61	98.4 59.0	92.2 38.3	95.2 49.8	0.94 0.65
Plateau	49.3	54.3	51.8	1.10	78.0	79.3	78.7	1.02
North East								
Adamawa	50.0	28.1	38.2	0.56	63.0	35.8	48.3	0.57
Bauchi	29.2	27.2	28.2	0.93	45.5	39.7	42.7	0.87
Borno	42.4	34.0	38.0	0.80	57.0	44.1	50.3	0.77
Gombe	25.6	25.6	25.6	1.00	39.4	33.6	36.9	0.85
Taraba Yobe	50.9 22.0	32.3 17.1	40.6 19.7	0.63 0.78	78.2 29.5	50.4 20.4	62.8 25.3	0.64 0.69
	22.0	17.1	19.7	0.76	29.5	20.4	25.5	0.09
North West	34.7	29.7	32.1	0.86	50.6	39.6	44.7	0.78
Jigawa Kaduna	53.0	44.6	48.6	0.84	74.2	63.8	68.7	0.76
Kano	47.1	38.7	43.0	0.82	66.5	54.1	60.4	0.81
Katsina	49.6	32.5	40.9	0.65	66.7	44.8	55.5	0.67
Kebbi	23.1	13.7	18.4	0.59	33.2	16.1	24.8	0.49
Sokoto	18.3	10.5	14.4	0.57	25.8	13.6	19.7	0.53
Zamfara	36.6	28.0	32.3	0.76	51.0	35.6	43.2	0.70
South East	75.5	74.4	74.0	0.00	405.4	400.5	404.4	0.00
Abia Anambra	75.5 80.5	74.1 79.8	74.8 80.1	0.98 0.99	105.4 105.5	103.5 111.5	104.4 108.7	0.98 1.06
Ebonyi	66.5	62.2	64.1	0.94	82.7	82.6	82.6	1.00
Enugu	74.8	80.7	77.8	1.08	105.6	105.5	105.6	1.00
Imo	78.3	75.1	76.7	0.96	101.8	106.4	104.1	1.05
South South								
Akwa Ibom	72.9	63.2	68.1	0.87	101.0	100.9	100.9	1.00
Bayelsa	71.1	71.7	71.4	1.01	107.2	106.8	107.0	1.00
Cross River	75.5	81.7	78.3	1.08	114.8	150.3	130.7	1.31
Delta Edo	70.6 72.4	71.3 71.2	70.9 71.8	1.01 0.98	97.5 105.0	108.6 108.6	102.7 106.8	1.11 1.03
Rivers	73.7	65.3	69.6	0.89	103.0	100.0	100.0	0.93
South West								
Ekiti	76.0	78.4	77.1	1.03	122.3	117.3	119.9	0.96
Lagos	70.5	69.0	69.7	0.98	99.5	103.1	101.4	1.04
Ogun	60.4	64.8	62.6	1.07	95.2	112.2	103.6	1.18
Ondo	68.9	69.8	69.3	1.01	94.2	93.2	93.7	0.99
Osun Oyo	68.8 62.8	66.2 71.2	67.4 66.6	0.96 1.13	97.8 103.6	94.5 116.6	96.0 109.5	0.97 1.12
	UZ.U	11.2	00.0	1.10	100.0	110.0	103.0	1.12
Wealth quintile Lowest	17.0	12.0	14.7	0.71	24.8	16.9	21.1	0.68
Second	43.3	31.2	37.1	0.72	61.8	42.9	52.1	0.69
Middle	60.5	51.1	55.7	0.84	85.1	73.2	79.1	0.86
Fourth	73.4	67.6	70.4	0.92	102.3	95.1	98.6	0.93
Highest	71.1	68.2	69.7	0.96	104.4	104.7	104.5	1.00
Total	52.1	46.6	49.4	0.89	74.3	67.4	70.8	0.91

¹ The NAR for primary school is the percentage of the primary school-age (7-12 years) population that is attending primary school. The NAR for secondary school is the percentage of the secondary school-age (13-18 years) population that is attending secondary school. By definition, the NAR cannot exceed

^{100%.}The GAR for primary school is the total number of primary school students, expressed as a percentage of the official primary school-age population. The GAR for secondary school is the total number of secondary school students, expressed as a percentage of the official secondary school-age population. If there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100%.

there are significant numbers of overage and underage students at a given level of schooling, the GAR can exceed 100%.

The gender parity index for primary school is the ratio of the primary school NAR (GAR) for females to the NAR (GAR) for males. The gender parity index for secondary school is the ratio of the secondary school NAR (GAR) for females to the NAR (GAR) for males.

Key Findings

- Education: The percentage of women age 15-49 with no education has decreased since 2003, from 42% to 35%. The median number of years of schooling completed has increased from 5.0 to 6.5 years during the same period.
- Exposure to mass media: The level of exposure to mass media is generally low in Nigeria. More than half of the respondents age 15-49 have no access to any of the three media sources (newspaper, television, and radio) at least once a week (56% of female and 51% male).
- Internet usage: Urban women and men (31% and 55%, respectively) are more likely than rural women and men (6% and 25%, respectively) to have used the internet.
- **Employment:** 65% women and 86% of men age 15-49 are currently employed.

his chapter presents information on the demographic and socioeconomic characteristics of the survey respondents such as age, education, place of residence, marital status, employment, and wealth status. This information is useful for understanding the factors that affect use of reproductive health services, contraceptive use, and other health behaviours.

3.1 BASIC CHARACTERISTICS OF SURVEY RESPONDENTS

The 2018 NDHS interviewed 41,821 women age 15-49 and 13,311 men age 15-59. **Table 3.1** shows the percent distribution of women and men age 15-49 by background characteristics. The majority of women and men are under age 30 (54% of women and 46% of men).

Forty-six percent of men and women are Christian, while 54% are Islam and less than 1% are traditionalists. The main ethnic groups in Nigeria are Hausa (30% of women and 31% of men), Igbo (15% of both women and men), and Yoruba (15% of women and 16% of men).

Women are more likely than men to be currently married or living together with a partner (70% and 57%, respectively). Women are less likely than men to have never been married (25% and 42%, respectively).

Place of residence typically determines access to services and information about health and other aspects of life. Slightly more than half of women and men live in rural areas (54% each), while slightly less than half live in urban areas (46% each).

3.2 EDUCATION AND LITERACY

Literacy

Respondents who had attended higher than secondary school were assumed to be literate. All other respondents, shown a typed sentence to read aloud, were considered literate if they could read all or part of the sentence.

Sample: Women and men age 15-49

Education is an important factor influencing a person's behaviour and opportunities. **Tables 3.2.1** and **3.2.2** as well as **Figure 3.1** show that men are better educated than women. Thirty-five percent of women and 22% of men age 15-49 have no formal education, while 11% of women and 17% of men have more than a secondary education.

Trends: The percentage of women with no education has decreased since 2003, from 42% to 35%. The median number of years of schooling completed has increased from 5.0 to 6.5 years during the same period. Among men age 15-59, the median number of years of schooling has increased from 6.6 to 10.5 years.

Patterns by background characteristics

- Table 3.2.1 shows that urban women are better educated than rural women; only 16% of urban women have no education, as opposed to 51% of rural women.
- Educational attainment among women increases with increasing household wealth (Figure 3.2). For example, only 3% of women in the lowest wealth quantile have a secondary education or higher, as compared with 75% of those in the highest quantile. A similar pattern is observed among men.
- There are wide variations by place of residence in median number of years of education completed. Urban women have completed a median of 11 years of education, while the median among rural women is zero. The corresponding figures among men are 11 and 7 years.

Figure 3.1 Education of survey respondents

Percent distribution of women and men age 15-49 by highest level of schooling attended or completed

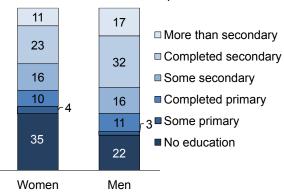


Figure 3.2 Secondary education by household wealth

Percentage of women and men age 15-49 with a secondary education or higher

■ Women ■ Men

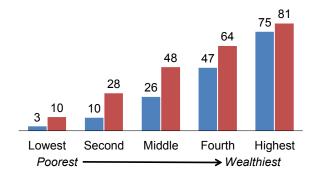
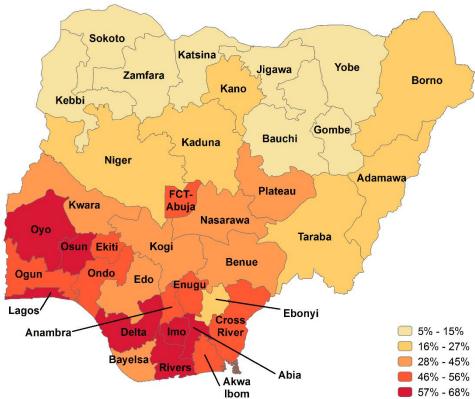


Figure 3.3 Secondary education by state

Percentage of women age 15-49 with a secondary education or higher



- The percentage of women who have a secondary education or more is highest in Lagos (68%) and lowest in Sokoto (5%) (**Figure 3.3**).
- Women and men in the lowest wealth quintile (11% and 29%, respectively) are less likely than other women and men to be literate (**Table 3.3.1** and **Table 3.3.2**).

3.3 MASS MEDIA EXPOSURE

Exposure to mass media

Respondents were asked how often they read a newspaper, listened to the radio, or watched television. Those who responded *at least once a week* are considered regularly exposed to that form of media.

Sample: Women and men age 15-49

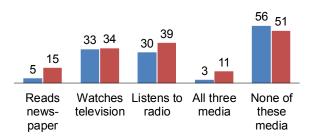
Exposure to different mass media is key to information dissemination and expansion of knowledge. **Tables 3.4.1** and **3.4.2** show the percentages of women and men who are exposed to different types of media, by background characteristics. The level of exposure to mass media is generally low in Nigeria. Among both women and men, radio and television are the most frequently accessed forms of media. Women are slightly more likely to watch television than to listen to the radio (33% versus 30%), while men are slightly more likely to listen to the radio (39% versus 34%).

Figure 3.4 shows that more than half of respondents have no access to any of the three media sources at least once a week (56% of female respondents and 51% of male respondents).

Trends: Since 2013, women's and men's exposure to mass media has shown a gradual decline. For example, the proportion of women who listen to the radio at least once a week has decreased from 39% to 30%. Among men, the proportion has declined from 55% to 39%. The proportion of respondents having no access to any of the three sources (newspaper, television, and radio) has increased from 50% to 56% among women and from 38% to 51% among men.

Figure 3.4 Exposure to mass media

Percentage of women and men age 15-49
who are exposed to media on a
weekly basis
Women Men



Patterns by background characteristics

- The percentage of women who read a newspaper at least once a week is very low. However, urban women are over two times more likely to read a newspaper than rural women (7% and 3%, respectively). The urban-rural gap is more evident in television viewing, with 51% of urban women and only 17% of rural women watching television at least once a week.
- The percentages of women and men with no access to any of the three media source are highest in the North East (73% and 68%, respectively) and lowest in the South West (28% and 15%, respectively).

3.4 INTERNET USAGE

The internet has gradually become an important means of transacting business and sharing information through social media. Other forms of media organisations have also adopted the internet as a means of reaching people. There are currently online shopping platforms through which business is transacted on a daily basis in Nigeria. Also, some e-health platforms have started operating in the country. The internet has become a very important tool through which information is accessed. Overall, 30% of women and 31% of men age 15-49 use the internet at least once a week (**Tables 3.5.1** and **3.5.2**).

Patterns by background characteristics

- Urban women and men (31% and 55%, respectively) are more likely than rural women and men (6% and 25%, respectively) to have ever used the internet.
- The percentages of women and men who have ever used the internet are highest in the South West (39% and 57%, respectively).
- Among the states, Lagos has the highest proportion of women (60%) and men (74%) using the internet. Women and men in Kebbi (1% and 11%, respectively) and Sokoto (1% and 14%, respectively) are also least likely to have ever used the internet.

3.5 EMPLOYMENT

Currently employed

Respondents who were employed in the 7 days before the survey.

Sample: Women and men age 15-49

In the 2018 NDHS, respondents were asked whether they were employed at the time of the survey and, if not, whether they had worked at any time during the 12 months preceding the survey. Tables 3.6.1 and 3.6.2 show that 65% of women and 86% of men are currently employed. Furthermore, 3% of women and 2% of men reported that they had worked in the past 12 months but were not currently employed.

Trends: Current employment among women age 15-49 has increased over the last decade, from 59% in 2008 to 65% in 2018. Similarly, the percentage of men who are currently employed has increased from 80% to 86%.

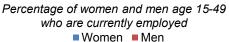
Patterns by background characteristics

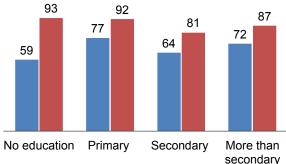
- Table 3.6.1 shows that divorced, separated, or widowed women (81%) are more likely to be employed than women who are currently married (71%) and those who have never been married (47%). Among men, those who are currently married or living together with a partner (99%) and those who are divorced, separated, or widowed (93%) are more likely to be employed than those who have never been married (69%) (**Table 3.6.2**).
- There are notable variations in the proportion of currently employed women and men by place of residence. Urban women are more likely than rural women to be employed (67% and 63%, respectively). Conversely, urban men are less likely to be employed than rural men (84% and 88%, respectively).
- The percentage of women who are currently employed generally increases with increasing education, from 59% among those with no education to 77% among those with primary education. Though it drops to 64% among those with secondary education, it rises to 72% among those with more than a secondary education. However, among men, there is a general decrease in current employment with increasing education, from 93% among those with no education to 87% among those with more than a

59 secondary education (Figure 3.5).

The percentage of women who are employed increases with increasing household wealth,

Figure 3.5 Employment status by education





from 58% among those in the lowest wealth quantile to 68% among those in highest quantile. Among men, the percentage who are employed decreases with increasing wealth, from 92% among those in the lowest quantile to 83% among those in the highest quantile.

3.6 **OCCUPATION**

Occupation

Categorised as professional/technical/managerial, clerical, sales and services, skilled manual, unskilled manual, agriculture, and other.

Sample: Women and men age 15-49 who were currently employed or had worked in the 12 months before the survey

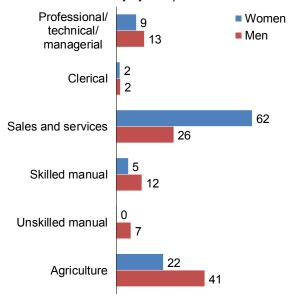
Tables 3.7.1 and **3.7.2** show that more men than women were employed in professional/technical/managerial occupations in the 12 months before the survey (13% and 9%, respectively). Women dominate employment in sales and services (62% versus 26% among men), while a higher percentage of men than women are engaged in agricultural work (41% and 22%, respectively) (**Figure 3.6**).

Eighteen percent of employed women in Nigeria are not paid for their work. Women engaged in agricultural work are much more likely (47%) than those working in nonagricultural occupations (10%) to not be paid for their work. Seventy percent of women who worked in the past year are self-employed (**Table 3.8**).

Trends: There has been a rise since 2013 in the proportion of women working in agricultural occupations, from 16% to 22%. Among men, the proportion has increased from 34% to 41%. The

Figure 3.6 Occupation

Percentage of women and men age 15-49 employed in the 12 months before the survey by occupation



proportion of women and men who are employed in sales and services has remained constant at 62% (versus 61% in 2013) and 26% (versus 25% in 2013), respectively.

Patterns by background characteristics

- **Tables 3.7.1** and **3.7.2** show that women and men living in rural areas are more likely to be engaged in agriculture (32% and 60%, respectively) than those living in urban areas (10% and 17%, respectively).
- Women and men with more than a secondary education are more likely than those at other educational levels to be engaged in professional/technical/managerial work (40% and 39%, respectively). Women with no education are mostly engaged in sales and services (67%), while men with no education are primarily engaged in agricultural work (72%).
- The percentages of men and women employed in professional/technical/managerial and clerical occupations generally increase with increasing wealth.

3.7 HEALTH INSURANCE COVERAGE

Health insurance improves access to health care, thus promoting good health. Reasonable access to health care encourages individuals to seek health maintenance services more regularly than they otherwise would, thereby preventing potentially serious illnesses. Additionally, health insurance protects individuals from financial hardships that may result from large or unexpected medical bills. In Nigeria, health insurance can be obtained from private organisations or from government agencies. The act of parliament that came into force in October 2014 envisages a health care system that will cover all strata of society in all urban and rural communities (Federal Republic of Nigeria 2014). However, coverage is limited to public and large private organisations.

The 2018 NDHS collected information about specific types of insurance coverage and the percentages of women and men with any health insurance according to background characteristics. Only 3% of women and men age 15-49 have health insurance (**Table 3.9.1** and **Table 3.9.2**).

Trends: The percentage of women who do not have any form of health insurance has decreased slightly since 2013, from 98% to 97%. There has been no change in the percentage among men (97% in both 2013 and 2018).

The percentage of women with more than a secondary education who have employer-based insurance increased from 0% in 2008 to 11% in 2018. Among men with more than a secondary education, the percentage increased from less than 1% to 12%.

Patterns by background characteristics

- Urban women and men (4% each) are more likely than rural women and men (1% each) to have employer-based insurance coverage.
- Eleven percent of women and 12% of men with more than a secondary education have employer-based insurance. Women (7%) and men (8%) in the highest wealth quantile are most likely to have employer-based insurance.

3.8 TOBACCO USE

Table 3.10.1 shows that cigarette smoking and use of any type of tobacco are rare among women (less than 1%). Six percent of men smoke any type of tobacco, while 94% are non-smokers (**Table 3.10.2**). Among men who smoke cigarettes daily, more than one-third (38%) smoke less than 5 cigarettes each day, while one-third (33%) smoke 5-9 cigarettes; 8% of daily cigarette smokers smoke between 15 and 24 cigarettes each day (**Table 3.11**). One percent of men use smokeless tobacco (**Table 3.12**).

Trends: The practice of smoking among women is uncommon in Nigeria; since 2008, 1% or less of women have reported that they smoke. The proportion of men who reported smoking any type of tobacco decreased from 10% in 2013 to 6% in 2018.

Patterns by background characteristics

- The percentage of men who use of any type of tobacco increases from 1% among those age 15-19 to a peak of 9% among those age 35-39 before declining to 6% among those age 45-49.
- There are regional variations in cigarette smoking among men, ranging from 3% in the North East to 10% in the South (**Table 3.10.2**).
- The percentage of men who smoke any type of tobacco varies by education, from a high of 10% among those with a primary education to a low of 3% among those with more than a secondary education.

LIST OF TABLES

For more information on the characteristics of survey respondents, see the following tables:

•	Table 3.1	Background characteristics of respondents
•	Table 3.2.1	Educational attainment: Women
•	Table 3.2.2	Educational attainment: Men
•	Table 3.3.1	Literacy: Women
•	Table 3.3.2	Literacy: Men
•	Table 3.4.1	Exposure to mass media: Women
•	Table 3.4.2	Exposure to mass media: Men
•	Table 3.5.1	Internet usage: Women
•	Table 3.5.2	Internet usage: Men
•	Table 3.6.1	Employment status: Women
•	Table 3.6.2	Employment status: Men
•	Table 3.7.1	Occupation: Women
•	Table 3.7.2	Occupation: Men
•	Table 3.8	Type of employment: Women
•	Table 3.9.1	Health insurance coverage: Women
•	Table 3.9.2	Health insurance coverage: Men
•	Table 3.10.1	Tobacco smoking: Women
•	Table 3.10.2	Tobacco smoking: Men
•	Table 3.11	Average number of cigarettes smoked daily: Men
•	Table 3.12	Smokeless tobacco use and any tobacco use

Table 3.1 Background characteristics of respondents

Percent distribution of women and men age 15-49 by selected background characteristics, Nigeria DHS 2018

		Women			Men	
Background characteristic	Weighted percent	Weighted number	Unweighted number	Weighted percent	Weighted number	Unweighted number
Age						
15-19	20.2	8,448	8,423	20.4	2,415	2,474
20-24	16.3	6,835	6,844	12.4	1,472	1,545
25-29	17.3	7,255	7,203	13.5	1,599	1,618
30-34	14.8	6,178	5,997	15.1	1,792	1,751
35-39	13.1	5,463	5,406	15.4	1,832	1,774
40-44	9.4	3,940	4,057	13.2	1,569	1,514
45-49	8.9	3,701	3,891	10.0	1,188	1,169
	0.9	3,701	3,091	10.0	1,100	1,103
Religion Catholic	10.4	4,345	4,436	11.3	1,339	1,384
	35.6			34.5	4.092	
Other Christian	53.5	14,872 22,372	16,070 20,959	53.5	,	4,409 5,962
Islam					6,351	
Traditionalist Other	0.3 0.2	145 87	156 200	0.6 0.1	74 11	76 14
	V. <u>–</u>	0.	200	0	••	
Ethnic group Ekoi	0.6	249	275	0.0	2	1
Fulani	6.2	2,585	2,953	5.3	630	721
Hausa	29.8	12,445	10,765	31.1	3,687	3,200
Ibibio	1.8	760	801	1.8	217	226
	0.8	346	457	1.0	125	151
lgala Igbo	15.4	6,420	6,714	14.9	1,764	1,843
ljaw/Izon	1.9	801	1,201	1.6	189	308
Kanuri/Beriberi	2.4	1,008	873	2.5	301	262
Tiv	2.4	1,008	976	2.2	258	202
Yoruba	15.3	6,418	5,372	15.9	1,892	1,601
Other	23.3	9,729	11,404	23.6 0.0	2,797	3,299
Don't know	0.1	24	30	0.0	6	6
Marital status	0.5.0	10 ==0	40.000			=
Never married	25.2	10,550	10,669	41.7	4,951	5,090
Married	67.2	28,121	27,841	54.5	6,470	6,380
Living together	2.3	968	1,047	2.7	316	231
Divorced/separated	2.7	1,123	1,147	0.9	103	113
Widowed	2.5	1,058	1,117	0.2	28	31
Residence	45.0	10.100	10.001	40.4	5.540	4.000
Urban	45.8	19,163	16,984	46.4	5,512	4,900
Rural	54.2	22,658	24,837	53.6	6,356	6,945
Zone						
North Central	14.1	5,891	7,772	14.4	1,704	2,186
North East	15.9	6,636	7,639	16.3	1,936	2,196
North West	29.2	12,225	10,129	26.9	3,195	2,622
South East	11.9	4,963	5,571	11.4	1,355	1,509
South South	11.6	4,840	5,080	12.1	1,438	1,520
South West	17.4	7,266	5,630	18.9	2,240	1,812
State						
North Central						
FCT-Abuja	0.8	319	1,186	8.0	96	353
Benue	3.2	1,354	1,278	3.0	351	321
Kogi	1.6	654	907	1.3	156	191
Kwara	1.6	684	906	1.8	208	259
Nasarawa	1.5	648	1,121	1.7	206	345
Niger	3.2	1,357	1,292	3.7	442	420
Plateau	2.1	875	1,082	2.1	246	297
North East						
Adamawa	2.2	903	1,083	1.8	218	244
Bauchi	3.2	1,343	1,329	3.5	420	419
Borno	3.5	1,469	1,269	3.4	398	339
Gombe	1.7	717	1,356	2.0	240	462
Taraba	2.1	877	1,284	1.6	187	268
Yobe	3.2	1,327	1,318	4.0	472	464
North West						
Jigawa	3.3	1,382	1,405	2.5	291	296
Kaduna	6.0	2,493	1,610	5.4	636	426
Kano	6.4	2,692	1,983	5.7	676	483
Katsina	5.5	2,283	1,494	5.8	687	454
Kebbi	2.7	1,136	1,335	2.5	291	342
Sokoto	2.2	910	1,065	1.8	218	258
Zamfara	3.2	1,328	1,237	3.3	396	363

Table 3.1—Continued						
		Women			Men	
Background characteristic	Weighted percent	Weighted number	Unweighted number	Weighted percent	Weighted number	Unweighted number
South East						
Abia	1.5	630	982	1.6	185	274
Anambra	3.5	1,477	1,244	3.4	409	342
Ebonyi	2.5	1,027	1,310	2.0	233	297
Enugu	2.1	880	1,038	1.6	192	224
Imo	2.3	948	997	2.8	337	372
South South						
Akwa Ibom	2.3	948	958	2.5	291	289
Bayelsa	0.7	298	771	0.9	109	273
Cross River	1.4	574	748	1.2	137	182
Delta	2.2	931	815	2.7	326	280
Edo	1.3	555	658	1.2	140	167
Rivers	3.7	1,534	1,130	3.7	435	329
South West						
Ekiti	1.1	475	774	1.2	139	226
Lagos	6.9	2,891	1,445	7.1	845	471
Ogun	2.2	927	798	2.6	309	261
Ondo	1.6	683	863	2.1	247	320
Osun	2.2	938	832	2.3	269	242
Oyo	3.2	1,352	918	3.6	432	292
Education						
No education	34.9	14,603	14,398	21.5	2,555	2,496
Primary	14.4	6,039	6,383	13.4	1,590	1,574
Secondary	39.7	16,583	16,698	48.0	5,697	5,797
More than secondary	11.0	4,596	4,342	17.1	2,025	1,978
Wealth quintile						
Lowest	17.3	7,222	7,747	16.8	1,991	2,133
Second	19.2	8,045	8,346	17.9	2,123	2,167
Middle	19.6	8,207	8,859	20.2	2,393	2,553
Fourth	21.5	8,990	8,840	21.8	2,590	2,587
Highest	22.4	9,357	8,029	23.3	2,770	2,405
Total 15-49	100.0	41,821	41,821	100.0	11,868	11,845
50-59	na	na	na	na	1,443	1,466
Total 15-59	na	na	na	na	13,311	13,311

Note: Education categories refer to the highest level of education attended, whether or not that level was completed. na = Not applicable

Table 3.2.1 Educational attainment: Women

Percent distribution of women age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Nigeria DHS 2018

			Highest leve	l of schooling				Median	
Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	years completed	Number of women
Age									
15-24	28.7	4.0	6.5	28.8	25.3	6.8	100.0	8.5	15,284
15-19	25.8	4.1	6.3	41.3	19.8	2.6	100.0	8.3	8,448
20-24	32.2	3.8	6.8	13.3	32.1	11.9	100.0	8.8	6,835
25-29	35.3	3.6	8.4	10.4	28.1	14.2	100.0	8.1	7,255
30-34	36.4	4.2	9.9	9.2	24.0	16.2	100.0	5.9	6,178
35-39	37.5	4.5	12.9	9.2	21.9	14.1	100.0	5.6	5,463
40-44	43.1	5.2	15.3	8.6	16.9	10.9	100.0	5.1	3,940
45-49	44.9	6.4	18.8	7.7	13.1	9.0	100.0	4.2	3,701
Residence									
Urban	15.6	3.1	10.2	19.0	33.5	18.5	100.0	11.1	19,163
Rural	51.2	5.4	10.0	14.1	14.7	4.6	100.0	0.0	22,658
Zone									
North Central	31.8	5.9	12.5	19.0	20.2	10.7	100.0	6.0	5,891
North East	59.1	5.3	7.4	11.0	11.0	6.2	100.0	0.0	6,636
North West	63.8	4.6	6.6	10.7	9.8	4.5	100.0	0.0	12,225
South East	4.2	4.6	13.9	25.3	36.5	15.4	100.0	11.1	4,963
South South	4.7	3.3	12.5	24.5	39.4	15.7	100.0	11.1	4,840
South West	7.9	2.2	12.3	17.2	39.9	20.4	100.0	11.3	7,266
State									
North Central									
FCT-Abuja	18.6	4.3	12.0	19.5	26.6	18.9	100.0	9.7	319
Benue	21.8	10.7	12.9	27.1	17.8	9.7	100.0	7.2	1,354
Kogi	12.8	4.5	21.6	18.6	32.2	10.3	100.0	9.5	654
Kwara	31.9	2.6	15.8	13.6	19.8	16.3	100.0	6.0	684
Nasarawa	26.1	4.7	11.3	22.7	23.1	12.1	100.0	8.2	648
Niger	65.1	2.4	4.4	8.3	13.6	6.2	100.0	0.0	1,357
Plateau	18.5	8.9	16.1	25.0	20.6	10.9	100.0	7.9	875
North East									
Adamawa	47.0	3.4	9.1	13.7	20.7	6.2	100.0	4.8	903
Bauchi	63.4	8.5	9.7	9.7	5.9	2.7	100.0	0.0	1,343
Borno	58.5	2.2	5.9	9.5	11.7	12.3	100.0	0.0	1,469
Gombe	64.8	4.1	5.5	11.3	10.0	4.4	100.0	0.0	717
Taraba	36.7	12.0	9.7	19.8	13.8	8.1	100.0	5.1	877
Yobe	75.5	3.3	4.9	5.9	7.4	3.0	100.0	0.0	1,327
North West									
Jigawa	74.9	4.2	5.7	6.8	6.9	1.4	100.0	0.0	1,382
Kaduna	47.0	6.0	8.4	15.5	15.3	7.8	100.0	3.2	2,493
Kano	56.3	4.8	6.8	13.6	10.4	8.1	100.0	0.0	2,692
Katsina	58.9	7.4	9.4	12.9	9.6	1.8	100.0	0.0	2,283
Kebbi	81.8	1.6	5.7	4.4	6.0	0.6	100.0	0.0	1,136
Sokoto	88.4	1.7	2.1	3.0	3.2	1.5	100.0	0.0	910
Zamfara	75.0	1.6	2.7	7.2	9.8	3.7	100.0	0.0	1,328
South East									
Abia	2.1	2.0	11.7	19.3	48.6	16.3	100.0	11.3	630
Anambra	2.3	3.9	12.7	24.7	42.3	14.1	100.0	11.2	1,477
Ebonyi	11.9	9.7	24.7	27.6	20.9	5.2	100.0	7.1	1,027
Enugu	4.2	4.5	13.0	24.9	35.9	17.5	100.0	11.1	880
Imo	0.5	2.1	6.3	27.8	37.2	26.2	100.0	11.4	948
South South									
Akwa Ibom	2.9	4.5	15.8	23.4	36.1	17.4	100.0	11.1	948
Bayelsa	9.7	2.8	13.9	31.5	33.3	8.8	100.0	10.5	298
Cross River	6.0	5.8	12.7	30.0	28.8	16.7	100.0	10.4	574
Delta	7.8	1.5	12.4	20.7	39.6	18.0	100.0	11.2	931
Edo	8.4	2.9	16.1	29.4	29.9	13.3	100.0	9.5	555
Rivers	1.0	3.0	8.9	22.2	49.8	15.2	100.0	11.3	1,534
South West									
Ekiti	5.1	2.8	11.8	26.8	33.1	20.3	100.0	11.1	475
Lagos	5.4	1.8	8.9	15.5	43.1	25.2	100.0	11.4	2,891
Ogun	10.3	2.7	19.2	11.5	37.0	19.3	100.0	11.2	927
Ondo	7.9	4.2	14.1	27.0	32.9	13.8	100.0	10.6	683
Osun	6.4	2.7	14.3	19.7	42.5	14.4	100.0	11.2	938
Oyo	13.8	1.2	12.8	14.4	39.3	18.4	100.0	11.2	1,352
Wealth quintile									
Lowest	79.6	4.9	6.6	5.5	3.1	0.2	100.0	0.0	7,222
Second	57.5	7.0	11.1	14.6	8.5	1.3	100.0	0.0	8,045
Middle	31.8	6.1	14.4	22.2	21.2	4.3	100.0	5.8	8,207
Fourth	13.9	3.3	12.5	23.1	36.9	10.4	100.0	10.5	8,990
Highest	4.0	1.1	5.8	14.6	40.4	34.1	100.0	11.6	9,357
Total	34.9	4.3	10.1	16.4	23.3	11.0	100.0	6.5	41,821
. Juli	∪ 1 .⊍	7.0	10.1	10.7	20.0	11.0	100.0	0.0	71,021

¹ Completed grade 6 at the primary level ² Completed grade 6 at the secondary level

Table 3.2.2 Educational attainment: Men

Percent distribution of men age 15-49 by highest level of schooling attended or completed, and median years completed, according to background characteristics, Nigeria DHS 2018

			Highest leve	el of schooling				Median	
Background characteristic	No education	Some primary	Completed primary ¹	Some secondary	Completed secondary ²	More than secondary	Total	years completed	Number of men
Age									
15-24	20.6	3.1	6.5	34.0	27.8	8.0	100.0	9.2	3,888
15-19	21.1	3.5	6.8	47.6	19.2	1.8	100.0	8.4	2,415
20-24	19.8	2.3	5.8	11.8	42.0	18.2	100.0	11.2	1,472
25-29 30-34	21.8 20.1	2.0 1.3	7.1 10.6	8.6	37.4 35.9	23.0 24.1	100.0 100.0	11.3 11.3	1,599
35-39	20.1	2.6	11.5	7.9 5.4	35.5	2 4 .1 22.9	100.0	11.3	1,792 1,832
40-44	22.9	2.7	17.4	6.8	31.9	18.2	100.0	11.0	1,569
45-49	23.6	2.9	21.1	6.4	28.5	17.5	100.0	8.4	1,188
Residence									
Urban Rural	8.0 33.3	1.7 3.3	9.5 12.0	16.3 15.5	39.4 25.9	25.2 10.0	100.0 100.0	11.4 6.8	5,512 6,356
Zone									
North Central	18.6	2.3	9.4	18.5	30.8	20.3	100.0	11.0	1,704
North East	46.2	3.0	6.4	12.2	18.8	13.3	100.0	5.1	1,936
North West	37.6	3.8	10.9	14.9	19.7	13.1	100.0	5.7	3,195
South East	1.7	2.6	17.2	22.7	43.4	12.4	100.0	11.1	1,355
South South	1.8	1.9	11.3	18.9	47.2	18.9	100.0	11.3	1,438
South West	4.2	0.9	11.6	12.3	45.9	25.2	100.0	11.5	2,240
State North Central									
FCT-Abuja	8.6	1.1	12.4	12.4	39.8	25.7	100.0	11.4	96
Benue	7.5	4.7	8.3	26.4	29.3	23.8	100.0	11.1	351
Kogi	4.2	0.4	9.7	14.0	48.2	23.7	100.0	11.5	156
Kwara	19.6	2.7	15.3	15.4	26.9	20.1	100.0	10.1	208
Nasarawa	15.6	2.7	10.3	20.8	28.7	21.9	100.0	11.0	206
Niger Plateau	42.7 5.7	0.9 2.3	3.7 14.6	13.2 23.0	23.8 36.1	15.7 18.4	100.0 100.0	7.5 11.1	442 246
	5.7	2.5	14.0	23.0	30.1	10.4	100.0	11.1	240
North East	00.0		0.0	47.0	00.0	47.0	400.0	40.4	040
Adamawa	32.2	1.4	3.3	17.0	29.2	17.0	100.0	10.1	218
Bauchi Borno	43.8 41.2	5.1 1.5	8.3 7.2	11.7 11.5	18.0 22.5	13.0 16.0	100.0	5.1 6.3	420
Gombe	54.1	2.5	4.7	13.7	16.6	8.4	100.0 100.0	0.0	398 240
Taraba	16.2	2.5 5.5	4.7 11.7	23.0	29.6	14.0	100.0	10.1	187
Yobe	67.0	2.4	4.4	6.0	8.4	11.8	100.0	0.0	472
North West									
Jigawa	36.7	6.0	14.2	14.3	15.7	13.1	100.0	5.5	291
Kaduna	29.1	2.7	11.7	12.7	27.6	16.1	100.0	8.9	636
Kano	25.7	5.3	11.7	21.0	18.4	18.0	100.0	8.0	676
Katsina	28.9	3.9	14.7	19.1	22.0	11.3	100.0	6.4	687
Kebbi	58.8	2.0	11.3	10.2	12.5	5.2	100.0	0.0	291
Sokoto Zamfara	58.5 60.1	7.8 0.2	5.3 2.3	6.8 9.0	15.1 16.1	6.4 12.3	100.0 100.0	0.0 0.0	218 396
	00.1	0.2	2.3	9.0	10.1	12.3	100.0	0.0	390
South East Abia	0.5	2.2	13.3	24.2	44.0	15.8	100.0	11.2	185
Anambra	0.7	2.9	22.9	23.4	41.5	8.7	100.0	11.0	409
Ebonyi	2.6	4.6	25.4	29.6	28.9	8.9	100.0	8.6	233
Enugu	2.5	3.5	18.1	19.0	42.8	14.0	100.0	11.2	192
Imo	2.6	0.6	6.3	18.3	55.7	16.5	100.0	11.4	337
South South									
Akwa Ibom	4.2	2.0	13.6	21.0	38.8	20.4	100.0	11.2	291
Bayelsa	2.0	1.8	4.4	15.6	54.9	21.3	100.0	11.5	109
Cross River	4.1	2.5	9.0	20.0	46.2	18.2	100.0	11.3	137
Delta	0.7	0.6	13.2	20.1	49.9	15.5	100.0	11.3	326
Edo Rivers	2.1 0.2	2.3 2.7	15.1 9.4	23.6 15.7	40.0 51.3	16.9 20.7	100.0 100.0	11.2 11.4	140 435
South West						==			
Ekiti	1.5	1.6	8.0	24.2	38.0	26.6	100.0	11.4	139
Lagos	1.5	0.0	10.3	8.0	47.2	33.1	100.0	11.6	845
Ogun	5.4	1.4	18.3	10.6	47.2	17.0	100.0	11.3	309
Ondo	3.6	3.5	11.2	24.2	41.8	15.7	100.0	11.2	247
Osun	4.1	0.0	8.1	13.3	55.4	19.1	100.0	11.4	269
Oyo	9.9	1.1	13.0	10.7	41.2	24.1	100.0	11.4	432
Wealth quintile	GA F	5.2	10.6	0.4	9.1	1 2	100.0	0.0	1.004
Lowest Second	64.5 34.0	5.2 4.1	10.6 15.2	9.4 18.6	9.1 21.9	1.3 6.3	100.0 100.0	5.8	1,991 2,123
Middle	34.0 15.2	2.6	13.6	20.8	36.0	6.3 11.8	100.0	5.8 10.5	2,123
Fourth	5.5	2.6 1.5	10.8	20.6 18.3	36.0 44.3	19.6	100.0	11.3	2,393 2,590
Highest	1.6	0.4	5.4	12.0	41.9	38.8	100.0	11.7	2,390
Total 15-49	21.5	2.5	10.9	15.9	32.1	17.1	100.0	10.8	11,868
50-59	31.2	3.4	18.8	5.4	23.0	18.2	100.0	5.8	1,443
	22.6	2.6			31.1			10.5	
Total 15-59	22.0	2.0	11.7	14.7	31.1	17.2	100.0	10.5	13,311

¹ Completed grade 6 at the primary level ² Completed grade 6 at the secondary level

Table 3.3.1 Literacy: Women

Percent distribution of women age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Nigeria DHS 2018

	Higher than	No	schooling, primary	or secondary sch	nool			
Background characteristic	secondary schooling	Can read a whole sentence	Can read part of a sentence	Cannot read at all	Blind/visually impaired	Total	Percentage literate ¹	Number of women
Age			40 =	00.4	0.4	400.0		45.004
15-24	6.8	34.6	19.5	39.1	0.1	100.0	60.9	15,284
15-19	2.6	41.1	20.6	35.6	0.1	100.0	64.3	8,448
20-24 25-29	11.9 14.2	26.5 21.5	18.2 18.4	43.3 45.9	0.0 0.0	100.0 100.0	56.7 54.1	6,835
30-34	16.2	18.2	16.8	45.9 48.8	0.0	100.0	54.1 51.2	7,255 6,178
35-39	14.1	17.7	17.9	50.3	0.0	100.0	49.6	5,463
40-44	10.9	14.8	16.7	57.5	0.0	100.0	42.3	3,940
45-49	9.0	13.4	16.1	61.2	0.3	100.0	38.5	3,701
	0.0	10.4	10.1	01.2	0.0	100.0	00.0	0,701
Residence Urban	18.5	33.9	21.6	25.9	0.1	100.0	74.0	19,163
Rural	4.6	15.5	15.2	64.5	0.1	100.0	35.4	22,658
	4.0	10.0	10.2	04.5	0.1	100.0	30.4	22,030
Zone	40 =					400.0		
North Central	10.7	15.4	23.5	50.4	0.0	100.0	49.6	5,891
North East	6.2	13.8	11.8	68.2	0.0	100.0	31.8	6,636
North West	4.5	15.1	9.5	70.9	0.0	100.0	29.0	12,225
South East	15.4	35.8	28.1	20.4	0.3	100.0	79.3	4,963
South South	15.7 20.4	41.2 35.4	22.0 24.8	20.9	0.2 0.0	100.0 100.0	79.0 80.6	4,840
South West	20.4	35.4	24.0	19.3	0.0	100.0	00.0	7,266
State								
North Central	18.9	19.3	29.5	32.2	0.0	100.0	67.8	319
FCT-Abuja Benue	9.7	19.3	29.5 31.7	32.2 44.2	0.0	100.0	57.8	1,354
Kogi	10.3	21.5	26.0	42.2	0.0	100.0	57.7	654
Kwara	16.3	16.7	20.6	46.1	0.0	100.0	53.7	684
Nasarawa	12.1	18.7	29.3	39.8	0.0	100.0	60.2	648
Niger	6.2	8.9	10.8	74.1	0.0	100.0	25.9	1,357
Plateau	10.9	17.7	24.4	47.0	0.1	100.0	52.9	875
North East								
Adamawa	6.2	17.3	16.4	60.1	0.0	100.0	39.9	903
Bauchi	2.7	11.1	12.6	73.6	0.0	100.0	26.4	1,343
Borno	12.3	16.3	12.0	59.4	0.0	100.0	40.6	1,469
Gombe	4.4	15.8	11.9	67.9	0.0	100.0	32.1	717
Taraba	8.1	13.9	13.2	64.9	0.0	100.0	35.1	877
Yobe	3.0	10.0	6.5	80.5	0.0	100.0	19.5	1,327
North West								
Jigawa	1.4	8.4	8.3	81.9	0.0	100.0	18.1	1,382
Kaduna	7.8	25.9	10.5	55.8	0.0	100.0	44.2	2,493
Kano	8.1	20.2	9.5	62.0	0.1	100.0	37.8	2,692
Katsina	1.8	14.2	10.5	73.4	0.0	100.0	26.6	2,283
Kebbi	0.6	7.9	6.8	84.7	0.0	100.0	15.3	1,136
Sokoto	1.5	2.3	6.8	89.4	0.0	100.0	10.6	910
Zamfara	3.7	7.8	11.3	77.2	0.1	100.0	22.8	1,328
South East								
Abia	16.3	39.3	32.4	12.0	0.0	100.0	88.0	630
Anambra	14.1	39.1	33.8	13.0	0.0	100.0	87.0	1,477
Ebonyi	5.2	20.1	28.4	46.3	0.0	100.0	53.7	1,027
Enugu	17.5	36.7	29.4	16.1	0.3	100.0	83.6	880
Imo	26.2	44.3	14.7	13.6	1.2	100.0	85.2	948
South South								
Akwa Ibom	17.4	39.4	23.8	19.4	0.0	100.0	80.6	948
Bayelsa	8.8	34.4	32.0	24.4	0.4	100.0	75.2	298
Cross River	16.7	37.8	19.1	26.4	0.0	100.0	73.6	574
Delta	18.0	24.1	35.1	22.4	0.4	100.0	77.2	931
Edo	13.3	35.2	24.3	27.0	0.0	100.0	72.8	555
Rivers	15.2	57.5	11.3	15.9	0.2	100.0	84.0	1,534
South West								
Ekiti	20.3	35.3	24.9	19.3	0.2	100.0	80.5	475
Lagos	25.2	36.5	23.6	14.6	0.0	100.0	85.3	2,891
Ogun	19.3	47.5	19.9	13.3	0.1	100.0	86.7	927
Ondo	13.8	27.6	31.0	27.6	0.0	100.0	72.4	683
Osun	14.4	41.0	24.5	20.1	0.0	100.0	79.9	938
Oyo	18.4	25.2	27.5	28.9	0.0	100.0	71.1	1,352
Wealth quintile					0.5	405.5	46.5	
Lowest	0.2	3.5	6.9	89.3	0.0	100.0	10.6	7,222
Second	1.3	10.7	14.3	73.7	0.1	100.0	26.3	8,045
Middle	4.3	23.2	23.4	49.0	0.0	100.0	50.9	8,207
Fourth	10.4	36.5 30.7	27.0 17.0	26.0	0.1	100.0	73.8	8,990 0.357
Highest	34.1	39.7	17.0	9.1	0.1	100.0	90.8	9,357
Total	11.0	23.9	18.1	46.9	0.1	100.0	53.1	41,821

¹ Refers to women who attended schooling higher than the secondary level and women who can read a whole sentence or part of a sentence

Table 3.3.2 Literacy: Men

Percent distribution of men age 15-49 by level of schooling attended and level of literacy, and percentage literate, according to background characteristics, Nigeria DHS 2018

	18.1		No schooling,	primary or seco					
Background characteristic	Higher than secondary schooling	Can read a whole sentence	Can read part of a sentence	Cannot read at all	No card with required language	Blind/visually impaired	Total	Percentage literate ¹	Number of men
	Schooling	SCHICHOC	or a semence	at all	lariguage	impaired	Total	incrate	IIICII
Age 15-24	8.0	36.3	27.4	28.0	0.1	0.2	100.0	71.7	3,888
15-19	1.8	38.3	30.4	29.3	0.1	0.2	100.0	70.4	2,415
20-24	18.2	32.9	22.6	26.0	0.1	0.2	100.0	73.8	1,472
25-29	23.0	25.7	23.2	27.8	0.2	0.0	100.0	72.0	1,599
30-34	24.1	23.0	26.7	25.9	0.2	0.0	100.0	73.9	1,792
35-39	22.9	23.4	26.9	26.6	0.2	0.0	100.0	73.2	1,832
40-44 45-49	18.2 17.5	23.7 22.8	29.0 29.6	28.9 30.0	0.0 0.1	0.0 0.0	100.0 100.0	71.0 69.9	1,569 1,188
Residence									
Urban	25.2	33.6	27.7	13.3	0.1	0.1	100.0	86.4	5,512
Rural	10.0	22.8	26.6	40.3	0.1	0.1	100.0	59.5	6,356
Zone									
North Central	20.3	25.3	27.2	26.8	0.3	0.0	100.0	72.9	1,704
North East	13.3	14.3	22.9	49.3	0.1	0.0	100.0	50.5	1,936
North West	13.1 12.4	26.2 32.8	19.7 41.5	40.7 13.2	0.2 0.0	0.1 0.1	100.0 100.0	59.0 86.7	3,195
South East South South	18.9	32.6 36.3	33.3	11.3	0.0	0.1	100.0	88.5	1,355 1,438
South West	25.2	35.3	28.6	10.8	0.0	0.1	100.0	89.0	2,240
State									
North Central	6	05.0	00.4	45.0	0.0	0.0	400.0	0	
FCT-Abuja	25.7	35.9	23.1	15.3	0.0	0.0	100.0	84.7	96
Benue	23.8	21.8	35.2	18.5	0.6	0.0	100.0	80.9	351
Kogi Kwara	23.7 20.1	23.3 15.5	28.9 29.0	24.1 35.4	0.0 0.0	0.0 0.0	100.0 100.0	75.9 64.6	156 208
Nasarawa	21.9	23.2	26.9	26.4	1.6	0.0	100.0	72.0	206
Niger	15.7	17.3	27.4	39.6	0.0	0.0	100.0	60.4	442
Plateau	18.4	52.1	14.5	15.0	0.0	0.0	100.0	85.0	246
North East									
Adamawa	17.0	14.9	29.2	38.9	0.0	0.0	100.0	61.1	218
Bauchi	13.0	11.6	22.9	52.1	0.4	0.0	100.0	47.5	420
Borno	16.0	16.2	29.3	38.5	0.0	0.0	100.0	61.5	398
Gombe	8.4	22.5	23.6	45.2	0.4	0.0	100.0	54.5	240
Taraba Yobe	14.0 11.8	25.6 6.3	30.4 11.3	30.1 70.6	0.0 0.0	0.0 0.0	100.0 100.0	69.9 29.4	187 472
North West									
Jigawa	13.1	27.1	18.1	41.6	0.0	0.0	100.0	58.4	291
Kaduna	16.1	29.8	19.0	35.0	0.0	0.0	100.0	65.0	636
Kano	18.0	35.5	17.9	28.4	0.2	0.0	100.0	71.3	676
Katsina	11.3	29.3	28.1	31.1	0.0	0.3	100.0	68.6	687
Kebbi	5.2	14.2	15.5	65.1	0.0	0.0	100.0	34.9	291
Sokoto	6.4	10.8	23.1	56.9	2.8	0.0	100.0	40.3	218
Zamfara	12.3	16.0	11.7	60.0	0.0	0.0	100.0	40.0	396
South East Abia	15.8	49.8	24.3	9.9	0.0	0.2	100.0	89.9	185
Anambra	8.7	49.6 39.6	40.9	9.9 10.9	0.0	0.2	100.0	89.1	409
Ebonyi	8.9	47.1	26.4	17.2	0.0	0.5	100.0	82.4	233
Enugu	14.0	15.2	60.9	9.8	0.0	0.0	100.0	90.2	192
Imo	16.5	15.5	51.0	17.0	0.0	0.0	100.0	83.0	337
South South									
Akwa Ibom	20.4	16.8	38.4	23.6	0.0	0.9	100.0	75.5	291
Bayelsa	21.3	50.0	27.0	1.8	0.0	0.0	100.0	98.2	109
Cross River	18.2	49.5	20.2	12.2	0.0	0.0	100.0	87.8	137
Delta Edo	15.5 16.0	29.9	51.4	3.1	0.0	0.0	100.0	96.9	326
Rivers	16.9 20.7	22.6 50.8	28.6 23.7	31.8 4.7	0.0 0.0	0.0 0.1	100.0 100.0	68.2 95.2	140 435
South West									
Ekiti	26.6	22.1	40.6	8.9	0.0	1.8	100.0	89.3	139
Lagos	33.1	35.7	24.3	7.0	0.0	0.0	100.0	93.0	845
Ogun	17.0	29.8	37.9	15.3	0.0	0.0	100.0	84.7	309
Ondo	15.7	29.1	33.9	20.6	0.7	0.0	100.0	78.7	247
Osun	19.1	54.4	15.4	11.0	0.0	0.0	100.0	89.0	269
Oyo	24.1	34.4	31.6	9.8	0.0	0.0	100.0	90.2	432

			No schooling,	primary or seco	ondary school				
Background characteristic	Higher than secondary schooling	Can read a whole sentence	Can read part of a sentence	Cannot read at all	No card with required language	Blind/visually impaired	Total	Percentage literate ¹	Number of men
Wealth quintile									
Lowest	1.3	10.3	17.8	70.6	0.0	0.1	100.0	29.3	1,991
Second	6.3	23.8	28.9	40.7	0.2	0.2	100.0	58.9	2,123
Middle	11.8	29.9	34.5	23.7	0.1	0.0	100.0	76.2	2,393
Fourth	19.6	34.9	32.0	13.1	0.3	0.0	100.0	86.6	2,590
Highest	38.8	35.2	21.5	4.4	0.1	0.1	100.0	95.5	2,770
Total 15-49	17.1	27.8	27.1	27.8	0.1	0.1	100.0	72.0	11,868
50-59	18.2	22.2	24.7	34.5	0.1	0.3	100.0	65.2	1,443
Total 15-59	17.2	27.2	26.8	28.5	0.1	0.1	100.0	71.3	13,311

¹ Refers to men who attended schooling higher than the secondary level and men who can read a whole sentence or part of a sentence

Table 3.4.1 Exposure to mass media: Women

Percentage of women age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Nigeria DHS 2018

Background	Reads a newspaper at least once a	Watches television at least	Listens to the radio at least	Accesses all three media at least once a	Accesses none of the three media at least	Number of
characteristic	week	once a week	once a week	week	once a week	women
Age						
15-19	3.7	32.5	23.0	2.1	58.5	8,448
20-24	5.4	31.9	28.2	3.6	56.8	6,835
25-29	4.5	34.0	30.6	3.5	54.7	7,255
30-34	5.3	35.6	31.9	3.9	53.5	6,178
35-39	4.8	34.8	34.5	3.7	52.0	5,463
40-44	5.1	31.0	33.3	3.9	54.9	3,940
45-49	3.7	27.7	31.9	2.8	57.4	3,701
Desidence						
Residence	6.9	E4 0	38.9	5.0	38.2	10 162
Urban Rural	2.7	51.2 17.3	22.0	1.8	70.2	19,163
Nulai	2.1	17.5	22.0	1.0	10.2	22,658
Zone						
North Central	3.8	30.3	20.9	2.7	63.6	5,891
North East	2.4	15.4	18.0	1.2	73.1	6,636
North West	1.8	15.6	25.1	0.9	68.8	12,225
South East	10.9	38.1	43.9	8.4	45.0	4,963
South South	9.1	53.3	31.2	6.9	40.4	4,840
South West	4.7	62.7	44.8	3.7	28.0	7,266
State						
North Central						
FCT-Abuja	2.9	42.4	17.6	1.4	53.7	319
Benue	6.0	39.3	31.6	4.9	52.4	1,354
Kogi	2.9	30.9	12.7	1.9	65.3	654
Kwara	1.7	28.5	21.2	1.1	66.5	684
Nasarawa	10.2	34.6	35.7	7.8	54.5	648
Niger	1.6	27.6	15.5	1.1	68.6	1,357
Plateau	1.8	13.7	9.1	0.4	80.0	875
North East	0.0	40.0	44.0	0.7	75.0	000
Adamawa	0.9	18.6	14.2	0.7	75.0	903
Bauchi	2.2	10.4	28.1	1.1	67.8	1,343
Borno	2.2	18.4	13.3	1.4	76.8	1,469
Gombe	4.0	14.5	29.7	3.5	67.4	717
Taraba	1.0	18.2	5.2	0.3	78.8	877
Yobe	4.0	13.7	17.6	1.0	72.2	1,327
North West						
Jigawa	1.3	10.2	32.0	0.7	64.7	1,382
Kaduna	1.8	28.5	32.5	0.9	54.9	2,493
Kano	3.5	23.2	35.9	2.0	57.1	2,692
Katsina	1.3	10.3	14.6	0.7	80.5	2,283
Kebbi	0.8	3.5	6.7	0.2	90.6	1,136
Sokoto	0.5	9.0	23.3	0.4	74.8	910
Zamfara	1.6	6.0	17.2	0.4	79.7	1,328
South East						
Abia	21.3	57.9	47.4	17.4	33.7	630
Anambra	15.7	51.9	49.7	13.3	37.3	1,477
Ebonyi	2.7	16.7	41.6	2.0	54.6	1,027
Enugu	4.4	26.6	36.4	3.8	59.5	880
Imo	11.5	37.5	41.9	5.9	40.7	948
South South	14.7	E2 E	4E 1	11 E	26.2	040
Akwa Ibom	14.7	53.5	45.1 57.2	11.5	36.3	948
Bayelsa Cross Bivor	20.4	64.8	57.2	19.3	27.9	298 574
Cross River	13.3	52.9	38.5	9.1	35.9	574
Delta	5.9	59.4	17.6	4.0	37.7	931
Edo	4.9	68.9	34.3	2.5	25.0	555 1 534
Rivers	5.3	41.7	22.1	4.2	54.3	1,534
South West						
Ekiti	5.9	34.8	47.5	3.9	42.4	475
Lagos	4.2	82.4	34.2	3.4	16.2	2,891
Ogun	3.2	21.1	18.1	1.7	70.4	927
Ondo	4.0	44.1	39.3	3.4	42.4	683
Osun	7.3	81.0	76.5	6.1	10.6	938
Oyo	5.1	55.6	65.8	4.0	24.1	1,352
Education						
No education	0.1	7.2	17.1	0.0	79.7	14,603
Primary	0.9	24.6	28.3	0.5	61.1	6,039
Secondary	5.5	48.0	36.2	3.6	41.6	16,583
More than secondary	20.7	70.5	48.5	16.1	22.1	4,596

Background characteristic	Reads a newspaper at least once a week	Watches television at least once a week	Listens to the radio at least once a week	Accesses all three media at least once a week	Accesses none of the three media at least once a week	Number of women
Wealth quintile						
Lowest	0.2	2.5	15.1	0.0	83.9	7.222
Second	0.9	7.8	18.1	0.3	78.5	8.045
Middle	2.7	24.6	28.7	1.5	59.6	8,207
Fourth	5.9	49.0	39.1	3.9	39.7	8,990
Highest	11.8	69.5	43.1	9.3	25.6	9,357
Total	4.6	32.9	29.8	3.3	55.6	41,821

Table 3.4.2 Exposure to mass media: Men

Percentage of men age 15-49 who are exposed to specific media on a weekly basis, according to background characteristics, Nigeria DHS 2018

Background characteristic	Reads a newspaper at least once a week	Watches television at least once a week	Listens to the radio at least once a week	Accesses all three media at least once a week	Accesses none of the three media at least once a week	Number of men
	WOOK	Onoc a wook	once a week	WOOK	once a week	Transcr of mon
Age 15-19	4.9	28.0	21.0	3.3	64.3	2,415
20-24	12.6	29.2	29.7	7.8	57.9	1,472
25-29	15.9	32.7	38.6	12.0	51.3	1,599
30-34	19.2	38.2	46.1	15.2	43.9	1,792
35-39	18.7	37.8	45.3	15.1	45.6	1,832
40-44	19.6	37.5	51.3	15.8	41.9	1,569
45-49	18.0	35.9	49.9	14.0	43.4	1,188
Residence						
Urban Rural	23.1 7.7	50.1 19.9	51.1 28.3	18.6 5.1	34.8 64.5	5,512 6,356
	7.7	19.9	20.3	5.1	04.5	0,330
Zone North Central	11.2	21.8	24.8	7.7	66.9	1,704
North East	8.3	21.0	23.8	7.7 5.6	68.4	
North West	7.0	19.4	25.9	3.9	63.6	1,936 3,195
South East	28.1	46.9	62.1	22.1	29.7	1,355
South South	12.5	37.4	29.2	9.3	54.1	1,438
South West	28.1	64.9	73.3	24.8	15.4	2,240
State						
North Central						
FCT-Abuja	34.2	51.1	42.0	30.1	44.4	96
Benue	11.6	20.6	33.1	9.2	62.7	351
Kogi	21.4	45.4	41.0	13.1	40.7	156
Kwara	10.5	27.9	22.6	7.9	62.6	208
Nasarawa	10.1	19.8	25.5	4.8	65.2	206
Niger	5.6	10.9	13.1	1.9	80.3	442
Plateau	7.1	13.1	18.2	5.9	79.5	246
North East						
Adamawa	2.1	4.8	7.6	1.9	89.8	218
Bauchi	5.9	21.3	24.8	4.3	67.0	420
Borno	14.0	26.0	25.6	8.7	64.0	398
Gombe	12.5	20.6	37.3	6.6	53.4	240
Taraba Yobe	2.7 8.4	6.9 29.7	6.5 28.8	2.1 6.6	90.4 62.4	187 472
North West						
Jigawa	3.9	15.4	21.1	1.5	69.1	291
Kaduna	7.5	24.8	21.2	7.2	66.7	636
Kano	10.7	24.0	36.2	5.1	52.5	676
Katsina	8.6	23.0	32.0	1.8	50.7	687
Kebbi	3.8	15.2	30.1	3.4	65.5	291
Sokoto	4.4	15.0	20.4	3.9	74.7	218
Zamfara	3.3	4.7	8.9	2.0	88.3	396
South East						
Abia	43.5	65.6	61.6	33.9	22.0	185
Anambra	40.4	64.4	85.1	34.8	11.0	409
Ebonyi	10.2	19.1	67.4	5.1	30.7	233
Enugu	19.1	40.2	61.5	12.6	27.1	192
Imo	22.3	38.4	31.2	17.2	57.2	337
South South	44.0	20.0	04.0	44.4	50.7	004
Akwa Ibom	14.3	29.6	31.6	11.1	59.7	291
Bayelsa	25.7	76.7	73.9	23.5	12.5	109
Cross River	28.5	55.7	52.2	19.1	27.8	137
Delta	9.0	28.4	16.8	6.0	66.4	326
Edo	12.9	45.8	32.2	11.0	48.7	140
Rivers	5.5	31.1	17.5	3.5	61.6	435
South West Ekiti	37.6	67.2	69.2	32.4	19.6	139
Lagos	28.3	75.2	71.8	32.4 25.5	13.1	845
	26.5 17.5	70.3	71.6 76.2	25.5 14.7	12.8	309
Ogun Ondo		70.3 41.8				309 247
Ondo Osun	13.8 54.9	41.8 74.6	59.9 77.4	6.6 52.3	22.6 15.7	247 269
Oyo	23.6	47.2	80.8	52.3 21.7	15.7	432
Education						
No education	1.0	8.4	19.8	0.7	77.5	2,555
Primary	5.3	21.3	36.4	3.1	55.8	1,590
Secondary	14.1	38.9	40.6	10.7	46.6	5,697
More than secondary	42.0	61.7	60.2	33.4	24.7	2,025

Background characteristic	Reads a newspaper at least once a week	Watches television at least once a week	Listens to the radio at least once a week	Accesses all three media at least once a week	Accesses none of the three media at least once a week	Number of men
Wealth quintile						
Lowest	1.8	5.3	14.8	0.6	82.7	1,991
Second	4.4	13.7	28.0	2.5	66.2	2,123
Middle	9.1	23.7	34.7	5.0	55.4	2,393
Fourth	17.9	44.7	45.4	13.6	40.1	2,590
Highest	34.5	68.7	62.1	29.3	21.7	2,770
Total 15-49	14.9	33.9	38.9	11.4	50.7	11,868
50-59	16.9	33.1	50.1	13.5	43.2	1,443
Total 15-59	15.1	33.8	40.1	11.6	49.9	13.311

Table 3.5.1 Internet usage: Women

Percentage of women age 15-49 who have ever used the internet, and percentage who have used the internet in the past 12 months; and among women who have used the internet in the past 12 months, percent distribution by frequency of internet use in the past month, according to background characteristics, Nigeria DHS 2018

	i	Used the nternet in the		Amor		who have used who, in the past			onths,
Background characteristic	Ever used the internet	past 12 months	Number	Almost every day	At least once a week	Less than once a week	Not at all	Total	Number
Age									
15-19	15.6	14.0	8,448	44.3	30.5	20.0	5.2	100.0	1,180
20-24	23.0	21.4	6,835	54.0	30.9	13.7	1.5	100.0	1,465
25-29	21.3	19.0	7,255	49.6	28.9	16.4	5.1	100.0	1,381
30-34	19.7	17.6	6,178	54.5	30.3	11.4	3.7	100.0	1,088
35-39	16.9	14.9	5,463	52.8	29.7	13.4	4.1	100.0	816
40-44 45-49	11.7 7.3	10.0 6.4	3,940	52.4 48.6	28.7 35.7	16.4 13.4	2.5 2.3	100.0 100.0	393 239
	7.3	0.4	3,701	40.0	35.7	13.4	2.3	100.0	239
Residence Urban	30.5	27.7	19,163	52.2	29.2	14.5	4.2	100.0	5,317
Rural	6.4	5.5	22,658	45.8	34.5	17.9	1.8	100.0	1,245
Zone									
North Central	11.9	10.6	5,891	45.1	37.8	16.6	0.6	100.0	624
North East	6.1	5.6	6,636	53.1	26.8	16.9	3.2	100.0	372
North West	5.5	5.0	12,225	55.4	31.8	12.2	0.6	100.0	609
South East	25.4	22.8	4,963	57.6	27.3	12.2	2.9	100.0	1,132
South South	28.9	25.5	4,840	52.1	30.5	14.8	2.6	100.0	1,232
South West	39.4	35.7	7,266	47.6	29.6	16.6	6.2	100.0	2,592
State									
North Central	00.0	04.4	040	01.1	00.0	0.0	0.0	400.0	20
FCT-Abuja	22.3	21.4	319	61.1	29.2	9.6	0.0	100.0	68
Benue	9.3	8.2	1,354	58.6	30.7	10.7	0.0	100.0	111
Kogi	15.2	12.8 18.3	654 684	26.1 39.1	53.1 38.8	20.7 21.0	0.0 1.1	100.0	84 125
Kwara	21.1							100.0	
Nasarawa	12.3	11.5	648	48.8	35.7	13.0	2.5	100.0	74
Niger Plateau	7.0 9.9	6.1 9.1	1,357 875	53.3 29.6	30.1 46.9	16.6 22.9	0.0 0.5	100.0 100.0	83 79
	0.0	5.1	0/0	25.0	40.5	22.0	0.0	100.0	10
North East Adamawa	6.8	6.6	903	43.5	36.8	19.8	0.0	100.0	60
Bauchi	3.4	2.9	1,343	(47.5)	(29.1)	(15.6)	(7.8)	100.0	39
Borno	11.5	10.5	1,469	64.2	14.7	15.7	5.4	100.0	154
Gombe	4.8	4.5	717	50.1	38.8	11.1	0.0	100.0	32
Taraba	6.6	5.8	877	52.4	30.1	16.1	1.4	100.0	51
Yobe	3.0	2.8	1,327	(32.2)	(43.5)	(24.3)	(0.0)	100.0	37
North West									
Jigawa	2.0	1.7	1,382	(53.0)	(40.1)	(2.9)	(4.0)	100.0	24
Kaduna	10.2	9.3	2,493	50.8	33.7	15.1	0.4	100.0	231
Kano	9.3	9.2	2,692	55.4	35.0	9.5	0.0	100.0	248
Katsina	2.2	2.0	2,283	(54.3)	(27.3)	(18.4)	(0.0)	100.0	46
Kebbi	0.5	0.4	1,136	* *	* ′	*	*	100.0	4
Sokoto	0.9	8.0	910	*	*	*	*	100.0	7
Zamfara	5.3	3.7	1,328	(87.8)	(4.1)	(4.0)	(4.1)	100.0	49
South East									
Abia	25.0	21.8	630	53.2	45.6	1.2	0.0	100.0	137
Anambra	34.0	31.5	1,477	67.1	19.6	9.8	3.5	100.0	465
Ebonyi	7.5	5.7	1,027	37.1	29.3	25.9	7.7	100.0	59
Enugu Imo	23.4 33.6	21.4 29.8	880 948	67.7 41.5	20.8 35.3	10.5 19.9	1.0 3.4	100.0 100.0	189 282
	00.0	20.0	040	41.0	00.0	10.0	0.4	100.0	202
South South Akwa Ibom	29.3	25.5	948	53.9	29.1	15.1	1.9	100.0	241
Bayelsa	11.7	10.8	298	21.0	58.0	21.1	0.0	100.0	32
Cross River	29.8	22.9	574	54.2	31.1	10.8	3.8	100.0	131
Delta	24.7	23.9	931	39.5	41.1	19.0	0.5	100.0	223
Edo	25.2	23.6	555	50.5	32.7	16.8	0.0	100.0	131
Rivers	35.6	30.8	1,534	59.0	23.6	12.9	4.6	100.0	473
South West									
Ekiti	21.6	20.2	475	43.0	45.7	11.3	0.0	100.0	96
Lagos	60.1	54.2	2,891	47.3	27.1	16.6	9.0	100.0	1,566
Ogun	36.9	32.0	927	23.8	42.9	27.3	6.0	100.0	296
Ondo	19.0	18.2	683	61.0	28.6	10.0	0.3	100.0	124
Osun	20.2	18.3	938	76.4	13.3	10.3	0.0	100.0	172
Oyo	26.5	25.0	1,352	51.8	33.8	14.4	0.0	100.0	338
Education									
No education	0.3	0.3	14,603	(30.1)	(58.0)	(11.9)	(0.0)	100.0	41
Primary	1.6	1.2	6,039	41.7	34.1	19.6	4.6	100.0	74
Secondary	22.6	19.7	16,583	40.9	33.7	19.7	5.7	100.0	3,266
More than secondary	74.1	69.2	4,596	61.8	26.1	10.3	1.7	100.0	3,181

		Used the internet in the		Amor			used the internet in the past 12 month past month, used the internet:			
Background characteristic	Ever used the internet	past 12 months	Number	Almost every day	At least once a week	Less than once a week	Not at all	Total	Number	
Wealth quintile										
Lowest	0.3	0.3	7,222	*	*	*	*	100.0	20	
Second	1.6	1.2	8,045	41.9	30.7	23.6	3.8	100.0	96	
Middle	6.4	5.4	8,207	43.5	32.7	21.8	2.0	100.0	445	
Fourth	20.0	17.4	8,990	45.3	32.1	19.1	3.5	100.0	1,563	
Highest	51.5	47.4	9,357	54.1	29.1	12.9	3.9	100.0	4,438	
Total	17.5	15.7	41,821	51.0	30.2	15.1	3.7	100.0	6,562	

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 3.5.2 Internet usage: Men

Percentage of men age 15-49 who have ever used the internet, and percentage who have used the internet in the past 12 months; and among men who have used the internet in the past 12 months, percent distribution by frequency of internet use in the past month, according to background characteristics, Nigeria DHS 2018

		Used the internet in the		Among respondents who have used the internet in the past 12 months, percentage who, in the past month, used the internet:					
Background characteristic	Ever used the internet	past 12 months	Number	Almost every day	At least once a week	Less than once a week	Not at all	Total	Numbe
\ge									
15-19	30.7	27.6	2,415	31.9	40.4	25.7	1.9	100.0	667
20-24	48.2	44.7	1,472	54.7	29.6	13.8	1.9	100.0	657
25-29	46.3	42.6	1,599	59.4	24.8	14.8	1.0	100.0	681
30-34	43.8	40.2	1,792	53.4	31.8	12.7	2.1	100.0	721
35-39	41.1	36.2	1,832	48.4	30.7	18.3	2.7	100.0	662
40-44	36.2	32.2	1,569	51.0	33.6	13.7	1.6	100.0	505
45-49	29.3	23.8	1,188	48.4	26.3	21.9	3.4	100.0	282
Residence	4	=0.4		50. 4		40 =		400.0	0 =04
Urban Rural	55.1 25.3	50.1 22.3	5,512 6,356	56.1 37.3	29.6 34.8	12.7 25.1	1.6 2.7	100.0 100.0	2,761 1,415
one.			-,						, -
North Central	30.5	28.2	1,704	51.9	36.5	9.4	2.2	100.0	480
North East	23.0	20.8	1,936	44.1	39.8	13.1	3.0	100.0	403
North West	34.1	31.2	3,195	46.3	28.2	22.7	2.8	100.0	998
South East	41.9	34.3	1,355	46.6	38.2	14.6	0.6	100.0	465
South South	51.4	45.0	1,438	33.5	35.8	28.5	2.2	100.0	465 647
South West	57.3	52.8	2,240	63.9	23.9	11.0	1.2	100.0	1,183
	01.0	02.0	2,210	00.0	20.0	11.0		100.0	1,100
State North Central									
FCT-Abuja	39.6	39.4	96	72.1	22.3	3.9	1.8	100.0	38
Benue	26.2	23.7	351	36.2	46.5	14.7	2.6	100.0	83
Kogi	41.9	37.6	156	43.8	46.2	7.5	2.5	100.0	59
Kwara	38.2	37.3	208	43.2	43.5	12.1	1.2	100.0	78
Nasarawa	30.5	30.4	206	42.7	44.6	12.7	0.0	100.0	62
	27.1	22.8	442	68.7	24.0	5.5	1.8	100.0	101
Niger Plateau	27.1 25.8	22.8 24.4	442 246	68.7 61.6	24.0 25.4	5.5 6.8	1.8 6.2	100.0	101 60
	20.0	∠ ⊣. ⊤	270	01.0	20.7	0.0	0.2	100.0	00
North East Adamawa	18.6	18.6	218	(27.9)	(55.2)	(15.7)	(1.3)	100.0	40
Bauchi	19.0	16.1	420	37.0	41.0	13.6	8.5	100.0	68
Borno	41.6	35.7	398	52.0	35.6	10.9	1.6	100.0	142
Gombe	23.7	22.5	240	33.8	28.1	31.1	7.0	100.0	54
Taraba Yobe	18.0 14.5	17.1 14.2	187 472	(46.5) 51.6	(49.8) 42.8	(3.7) 5.7	(0.0) 0.0	100.0 100.0	32 67
North West				00	.2.0	0	0.0	.00.0	٥.
Jigawa	30.4	26.5	291	40.9	28.7	18.5	11.8	100.0	77
Kaduna	31.5	25.9	636	61.1	19.7	15.1	4.1	100.0	165
Kano	39.2	37.1	676	57.3	26.5	13.4	2.8	100.0	251
	60.2	56.2	687	33.8	30.9	35.3	0.0	100.0	386
Katsina									
Kebbi	10.5	9.8	291	(40.7)	(37.9)	(21.4)	(0.0)	100.0	29
Sokoto	14.0	14.0	218	(42.4)	(39.8)	(17.7)	(0.0)	100.0	31
Zamfara	15.5	15.1	396	(51.5)	(29.9)	(10.2)	(8.4)	100.0	60
South East	46.0	42.4	105	GE 1	24.2	10.6	0.0	100.0	00
Abia	46.2	43.4	185	65.1	24.3	10.6	0.0	100.0	80 157
Anambra	41.9	38.3	409	41.0	49.8	8.7	0.5	100.0	157
Ebonyi	26.6	19.5	233	47.0	24.8	24.9	3.3	100.0	45
Enugu Imo	68.8 34.7	41.9 30.3	192 337	60.3 29.5	22.8 49.5	16.9 20.5	0.0 0.5	100.0 100.0	80 102
	J . . /	50.5	331	29.0	- 3.3	20.0	0.0	100.0	102
South South Akwa Ibom	30.0	29.4	291	56.4	27.6	16.0	0.0	100.0	86
Bayelsa Cross Biver	49.1	45.3	109	28.2	47.6	12.7	11.5	100.0	49
Cross River	42.4	29.1	137	39.9	36.8	23.3	0.0	100.0	40
Delta	49.4	46.5	326	36.5	36.9	24.7	1.9	100.0	152
Edo	55.4	46.0	140	54.9	15.7	23.5	5.9	100.0	64
Rivers	69.5	59.0	435	18.7	40.4	40.1	8.0	100.0	257
South West	a= :	• • •			4	•	0.5	40.5	
Ekiti	37.1	34.4	139	76.0	14.7	8.4	0.9	100.0	48
Lagos	73.9	69.7	845	69.0	23.4	7.0	0.5	100.0	589
Ogun	56.5	42.9	309	58.1	27.5	13.0	1.4	100.0	132
Ondo	39.5	38.1	247	59.5	19.7	11.9	8.9	100.0	94
Osun	24.4	20.9	269	(54.8)	(40.2)	(3.4)	(1.6)	100.0	56
Oyo	62.5	60.9	432	`56.4 [´]	23.2	20.4	0.0	100.0	263
Education									
No education	4.6	3.8	2,555	18.3	43.2	32.4	6.1	100.0	96
Primary	15.9	11.4	1,590	17.5	32.2	44.5	5.7	100.0	181
Secondary	44.8	39.2	5,697	41.1	36.7	20.0	2.2	100.0	2,231
More than secondary	85.1	82.4	2,025	66.5	23.4	8.9	1.1	100.0	1,668

Continued...

Table 3.5.2—Continued Among respondents who have used the internet in the past 12 months, percentage who, in the past month, used the internet: Used the internet in the Background Ever used past 12 Almost every At least once Less than characteristic the internet months Number day a week once a week Not at all Total Number Wealth quintile 6.0 21.7 30.1 1,991 100.0 100.0 Lowest Second 10.6 102 41.1 33.2 5.1 15.1 2,123 2,393 28.5 38.1 36.0 34.3 31.9 24.2 18.6 26.0 3.5 3.4 394 Middle 100.0 623 48.8 75.1 43.4 69.7 Fourth 2,590 45.7 33.2 19.3 1.8 100.0 1,125 Highest 2,770 62.0 27.8 9.3 0.9 100.0 1,931 35.2 Total 15-49 39.1 11,868 49.7 31.4 16.9 2.0 100.0 4,176 50-59 22.2 19.6 1,443 49.0 31.6 18.6 8.0 100.0 282 Total 15-59 37.3 13,311 4,459 33.5 49.7 31.4 17.0 1.9 100.0

Note: Figures in parentheses are based on 25-49 unweighted cases.

Table 3.6.1 Employment status: Women

Percent distribution of women age 15-49 by employment status, according to background characteristics, Nigeria DHS 2018

		Employed in the 12 months preceding the survey			
Background characteristic	Currently employed ¹	Not currently employed	months preceding the survey	Total	Number of women
Age					
15-19	35.6	3.0	61.4	100.0	8,448
20-24	55.4	3.4	41.2	100.0	6,835
25-29	67.7	4.4	27.9	100.0	7,255
30-34	75.6	3.6	20.8	100.0	6,178
35-39	80.4	3.5	16.1	100.0	5,463
40-44 45-49	83.8 83.8	2.5 3.1	13.7 13.1	100.0 100.0	3,940 3,701
	00.0	3.1	13.1	100.0	3,701
Marital status Never married	46.5	2.9	50.7	100.0	10,550
Married or living together	70.5	3.6	25.9	100.0	29,090
Divorced/separated/widowed	80.7	4.0	15.3	100.0	2,181
·			10.0		2,
Number of living children	46.0	3.1	50.9	100.0	12,271
1-2	67.8	3.7	28.4	100.0	10,731
3-4	75.2	3.4	21.4	100.0	9,363
5 -4	76.3	3.5	20.3	100.0	9,457
Residence		-	-		., -
Residence Urban	67.0	2.9	30.1	100.0	19,163
Rural	63.3	2.9 3.8	32.9	100.0	22,658
Zone					-,
Zone North Central	70.9	4.1	25.1	100.0	5,891
North East	60.7	2.9	36.4	100.0	6,636
North West	50.8	4.0	45.1	100.0	12,225
South East	71.8	4.3	23.9	100.0	4,963
South South	72.7	2.8	24.5	100.0	4,840
South West	78.1	2.1	19.8	100.0	7,266
State					
North Central					
FCT-Abuja	47.9	5.4	46.6	100.0	319
Benue	85.7	4.1	10.3	100.0	1,354
Kogi	81.4	3.7	14.9	100.0	654
Kwara	69.7	1.8	28.5	100.0	684
Nasarawa	54.2	1.1	44.7	100.0	648
Niger	62.1	2.5	35.4	100.0	1,357
Plateau	75.2	10.4	14.4	100.0	875
North East					
Adamawa	61.0	4.2	34.8	100.0	903
Bauchi	63.1	4.5	32.5	100.0	1,343
Borno	47.8	2.8	49.4	100.0	1,469
Gombe	43.4	1.7	55.0	100.0	717
Taraba	76.5	2.0	21.5	100.0	877
Yobe	71.3	1.9	26.7	100.0	1,327
North West					
Jigawa	48.1	22.0	29.9	100.0	1,382
Kaduna	64.3	8.0	34.9	100.0	2,493
Kano	54.8	2.1	43.1	100.0	2,692
Katsina	42.1	4.1	53.8	100.0	2,283
Kebbi	50.6	0.1	49.3	100.0	1,136
Sokoto Zamfara	48.6 37.1	1.8	49.6	100.0	910
	37.1	0.3	62.6	100.0	1,328
South East	 -	0 -	05.0	400.0	222
Abia	73.9	0.5	25.6	100.0	630
Anambra Ebonyi	73.4	2.0	24.6	100.0	1,477
Ebonyi Enugu	94.0 45.5	1.7 12.7	4.3 41.7	100.0 100.0	1,027 880
Imo	45.5 68.2	5.4	26.4	100.0	948
	00. <u>L</u>	J. 1		. 55.6	0.10
South South Akwa Ibom	58.9	3.9	37.2	100.0	948
Bayelsa		3.9 2.8		100.0 100.0	948 298
Cross River	72.6 80.3	2.8 4.4	24.6 15.3	100.0	298 574
Delta	74.7	4.4 1.2	24.1	100.0	931
Edo	74.7 71.1	1.2	27.8	100.0	555
Rivers	77.8	3.0	19.1	100.0	1,534

Table 3.6.1—Continued							
		the 12 months the survey	Not employed in the 12		Number of women		
Background characteristic	Currently employed ¹	Not currently employed	months preceding the survey	Total			
South West							
Ekiti	79.7	3.4	17.0	100.0	475		
Lagos	75.5	3.7	20.8	100.0	2,891		
Ogun	82.3	0.6	17.2	100.0	927		
Ondo	74.8	1.7	23.5	100.0	683		
Osun	78.4	0.6	21.0	100.0	938		
Oyo	81.8	0.6	17.6	100.0	1,352		
Education							
No education	58.7	3.9	37.4	100.0	14,603		
Primary	76.6	3.5	20.0	100.0	6,039		
Secondary	64.4	3.2	32.4	100.0	16,583		
More than secondary	71.9	2.7	25.4	100.0	4,596		
Wealth quintile							
Lowest	58.1	4.8	37.1	100.0	7,222		
Second	63.2	3.6	33.1	100.0	8,045		
Middle	66.5	3.3	30.2	100.0	8,207		
Fourth	67.2	3.0	29.8	100.0	8,990		
Highest	68.3	2.7	29.0	100.0	9,357		
Total	65.0	3.4	31.6	100.0	41,821		

¹ "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

Table 3.6.2 Employment status: Men

Percent distribution of men age 15-49 by employment status, according to background characteristics, Nigeria DHS 2018

		Employed in the 12 months preceding the survey			
Background characteristic	Currently employed ¹	Not currently employed	months preceding the survey	Total	Number of men
Age					
15-19	56.2	4.0	39.8	100.0	2,415
20-24 25-29	76.7 91.9	3.5 2.2	19.8 5.9	100.0	1,472
30-34	96.9	1.0	5.9 2.1	100.0 100.0	1,599 1,792
35-39	97.9	0.7	1.4	100.0	1,832
40-44	99.2	0.4	0.4	100.0	1,569
45-49	98.1	0.7	1.2	100.0	1,188
Marital status					
Never married	68.7	3.6	27.7	100.0	4,951
Married or living together	98.5	0.6	0.9	100.0	6,786
Divorced/separated/widowed	93.0	4.2	2.8	100.0	131
Number of living children					
0	71.1	3.5	25.5	100.0	5,410
1-2	98.2	8.0	1.0	100.0	2,488
3-4	98.5	0.6	0.8	100.0	2,050
5+	99.0	0.4	0.6	100.0	1,920
Residence					
Urban	83.8	1.8	14.4	100.0	5,512
Rural	87.9	2.0	10.0	100.0	6,356
Zone					
North Central	87.3	1.3	11.5	100.0	1,704
North East	91.3	1.3	7.5	100.0	1,936
North West	88.9	2.4	8.6	100.0	3,195
South East	84.8	1.1	14.1	100.0	1,355
South South	73.8	4.5	21.6	100.0	1,438
South West	84.9	1.1	14.0	100.0	2,240
State					
North Central					
FCT-Abuja	74.8	2.5	22.8	100.0	96
Benue	90.8	0.9	8.3	100.0	351
Kogi	82.7	6.2	11.1	100.0	156
Kwara	80.0	0.5	19.5	100.0	208 206
Nasarawa Niger	92.6 85.9	0.9 0.7	6.6 13.4	100.0 100.0	442
Plateau	94.2	0.2	5.6	100.0	246
	·	0.2	0.0		
North East	96.5	3.3	0.2	100.0	218
Adamawa Bauchi	89.0	3.3 1.2	9.7	100.0	420
Borno	98.2	0.0	1.8	100.0	398
Gombe	96.5	1.7	1.8	100.0	240
Taraba	89.4	1.5	9.1	100.0	187
Yobe	83.0	1.2	15.8	100.0	472
North West					
Jigawa	89.1	1.4	9.5	100.0	291
Kaduna	89.0	0.8	10.2	100.0	636
Kano	84.7	3.8	11.5	100.0	676
Katsina	88.9	3.0	8.1	100.0	687
Kebbi	91.0	4.7	4.3	100.0	291
Sokoto	86.0	0.3	13.7	100.0	218
Zamfara	96.1	2.0	2.0	100.0	396
South East					
Abia	80.7	0.0	19.3	100.0	185
Anambra	91.4	0.0	8.6	100.0	409
Ebonyi	88.8	1.1	10.0	100.0	233
Enugu	81.6	5.0	13.3	100.0	192
Imo	78.1	8.0	21.1	100.0	337
South South					
Akwa Ibom	73.1	2.9	24.0	100.0	291
Bayelsa	72.4	18.3	9.3	100.0	109
Cross River	76.7	1.0	22.2	100.0	137
Delta Edo	66.0	2.8	31.2	100.0	326 140
Edo Rivers	78.8 78.0	3.0 5.2	18.1 16.9	100.0 100.0	140 435

Table 3.6.2—Continued					
		the 12 months the survey	Not employed in the 12		
Background characteristic	Currently employed ¹	Not currently employed	months preceding the survey	Total	Number of men
South West					
Ekiti	85.4	1.0	13.6	100.0	139
Lagos	83.7	1.1	15.2	100.0	845
Ogun	86.6	1.7	11.7	100.0	309
Ondo	91.4	1.4	7.2	100.0	247
Osun	82.9	1.3	15.8	100.0	269
Oyo	83.5	0.3	16.2	100.0	432
Education					
No education	92.9	1.3	5.8	100.0	2,555
Primary	92.0	1.1	6.9	100.0	1,590
Secondary	81.0	2.1	16.9	100.0	5,697
More than secondary	86.7	2.8	10.4	100.0	2,025
Wealth quintile					
Lowest	92.3	1.2	6.5	100.0	1,991
Second	88.6	1.8	9.7	100.0	2,123
Middle	86.3	2.2	11.5	100.0	2,393
Fourth	82.6	2.5	14.9	100.0	2,590
Highest	82.5	1.8	15.7	100.0	2,770
Total 15-49	86.0	1.9	12.1	100.0	11,868
50-59	96.5	1.0	2.5	100.0	1,443
Total 15-59	87.1	1.8	11.0	100.0	13,311

¹ "Currently employed" is defined as having done work in the past 7 days. Includes persons who did not work in the past 7 days but who are regularly employed and were absent from work for leave, illness, vacation, or any other such reason.

Table 3.7.1 Occupation: Women

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Nigeria DHS 2018

		women
Age		
15-19 5.1 0.6 54.9 8.6 0.1 30.1 0.5	100.0	3,264
20-24 8.8 1.2 60.0 8.3 0.1 21.1 0.5	100.0	4,020
25-29 10.1 1.9 62.4 6.1 0.1 19.1 0.3	100.0	5,229
30-34 10.2 1.7 66.3 5.0 0.1 16.6 0.2	100.0	4,896
35-39 10.4 1.7 65.6 3.7 0.1 18.5 0.1	100.0	4,583
40-44 8.3 1.7 65.0 2.3 0.1 22.5 0.0	100.0	3,399
45-49 8.3 2.3 58.4 2.5 0.0 28.3 0.2	100.0	3,218
Marital status		
Never married 12.8 2.8 52.7 8.3 0.2 22.6 0.5	100.0	5,205
Married or living together 8.2 1.3 64.8 4.7 0.1 20.7 0.2	100.0	21,555
Divorced/separated/widowed 7.5 1.4 59.8 2.8 0.3 28.0 0.2	100.0	1,847
Number of living children		
0 12.7 2.6 54.8 8.1 0.2 21.1 0.6	100.0	6,025
1-2 11.1 1.7 61.5 6.3 0.2 19.1 0.2	100.0	7,679
3-4 8.2 1.4 65.1 4.4 0.0 20.8 0.1	100.0	7,362
5+ 4.7 0.8 66.3 2.8 0.0 25.2 0.2	100.0	7,542
3. 4.7 0.0 00.5 2.0 0.0 25.2 0.2	100.0	1,542
Residence		
Urban 13.9 2.6 66.6 7.2 0.1 9.5 0.2	100.0	13,399
Rural 4.7 0.7 58.4 3.5 0.1 32.2 0.3	100.0	15,208
Zone		
North Central 6.9 1.3 41.3 3.2 0.1 46.8 0.5	100.0	4,415
North East 2.3 0.9 56.7 7.4 0.0 32.5 0.3	100.0	4,222
North West 5.5 0.6 84.0 3.7 0.1 5.9 0.3	100.0	6,711
South East 11.6 1.6 54.9 5.1 0.1 26.6 0.2	100.0	3,777
South South 11.4 3.3 57.5 3.4 0.2 23.9 0.3	100.0	3,654
South West 16.3 2.4 64.8 8.4 0.2 7.8 0.1	100.0	5,829
State		
North Central		
FCT-Abuja 10.6 8.7 49.3 10.8 1.5 19.1 0.0	100.0	170
Benue 3.6 0.8 24.2 2.3 0.0 67.7 1.4	100.0	1,215
Kogi 5.5 2.5 66.5 0.9 0.0 24.3 0.3	100.0	557
Kwara 17.7 0.1 50.0 9.2 0.1 22.5 0.4	100.0	489
Nasarawa 8.4 1.5 49.6 5.9 0.0 34.1 0.5	100.0	358
Niger 4.3 1.0 39.6 1.3 0.0 53.7 0.0	100.0	877
Plateau 7.6 0.7 40.7 1.5 0.0 49.5 0.0	100.0	749
	100.0	743
North East		
Adamawa 1.0 1.0 36.1 0.2 0.0 61.8 0.0	100.0	589
Bauchi 2.1 0.3 75.0 9.2 0.0 13.2 0.3	100.0	907
Borno 4.1 1.8 55.6 20.4 0.0 18.1 0.1	100.0	743
Gombe 3.0 0.7 63.6 13.2 0.0 16.9 2.6	100.0	323
Taraba 3.4 1.0 53.8 0.1 0.0 41.8 0.0	100.0	688
Yobe 1.0 0.5 52.7 3.4 0.0 42.4 0.0	100.0	972
North West		
Jigawa 0.9 0.3 83.3 12.8 0.0 2.8 0.0	100.0	969
Kaduna 4.6 0.6 85.0 0.4 0.1 9.1 0.0	100.0	1,623
Kano 4.7 0.5 87.8 2.1 0.0 4.9 0.0	100.0	1,533
Katsina 5.2 0.9 83.4 6.6 0.2 2.1 1.5	100.0	1,054
Kebbi 22.8 0.2 59.6 0.8 0.0 16.5 0.1	100.0	576
Sokoto 3.3 0.0 89.8 2.0 0.0 4.8 0.2	100.0	459
Zamfara 2.6 1.1 95.0 0.0 0.0 1.2 0.2	100.0	497
South East		
Abia 10.3 0.6 69.3 6.9 0.0 12.3 0.6	100.0	469
Anambra 11.2 2.1 61.6 8.3 0.0 16.7 0.1	100.0	1,114
Ebonyi 8.4 1.0 29.0 1.9 0.0 59.4 0.3	100.0	983
Enugu 11.5 3.0 64.6 0.0 0.5 20.4 0.0	100.0	513
Imo 17.5 1.5 64.0 6.9 0.0 10.1 0.0	100.0	697
South South	100.0	E05
Akwa lbom 15.8 2.3 68.0 3.1 0.4 9.9 0.4	100.0	595
Bayelsa 5.3 0.9 47.3 1.8 0.1 43.2 1.4	100.0	225
Cross River 6.1 3.2 47.1 1.0 0.2 42.3 0.1	100.0	486
Delta 8.5 2.2 51.7 7.8 0.3 29.4 0.1	100.0	707
Edo 9.6 2.9 53.5 9.5 0.4 24.0 0.2	100.0	400
Rivers 14.6 5.0 63.1 0.3 0.0 16.7 0.3	100.0	1,240

Continued...

Background	Professional/ technical/		Sales and	Skilled	Unskilled				Number of
characteristic	managerial	Clerical	services	manual	manual	Agriculture	Other	Total	women
South West									
Ekiti	18.6	2.6	49.4	8.8	0.1	20.5	0.0	100.0	394
Lagos	23.4	2.6	63.3	10.1	0.2	0.4	0.0	100.0	2,290
Ogun	9.2	3.4	65.1	9.8	0.4	12.2	0.0	100.0	768
Ondo	12.5	1.1	54.8	12.7	0.0	18.8	0.2	100.0	523
Osun	17.6	1.0	64.9	4.5	0.0	11.9	0.0	100.0	741
Oyo	6.8	3.0	77.6	4.4	0.4	7.6	0.2	100.0	1,114
Education									
No education	2.0	0.1	67.4	3.7	0.0	26.6	0.2	100.0	9,138
Primary	2.4	0.2	61.4	4.3	0.0	31.5	0.2	100.0	4,834
Secondary	8.1	1.6	64.1	7.3	0.2	18.5	0.3	100.0	11,208
More than secondary	40.1	7.7	43.8	4.1	0.1	3.9	0.3	100.0	3,428
Wealth quintile									
Lowest	1.6	0.1	55.5	2.9	0.0	39.6	0.3	100.0	4,543
Second	2.6	0.1	56.4	3.1	0.1	37.4	0.3	100.0	5,379
Middle	5.0	1.0	62.6	4.9	0.1	26.2	0.3	100.0	5,730
Fourth	10.6	2.0	69.4	6.6	0.1	11.0	0.3	100.0	6,309
Highest	21.1	4.0	64.5	7.6	0.2	2.4	0.2	100.0	6,647
Total	9.0	1.6	62.2	5.3	0.1	21.5	0.3	100.0	28,607

Table 3.7.2 Occupation: Men

Percent distribution of men age 15-49 employed in the 12 months preceding the survey by occupation, according to background characteristics, Nigeria DHS 2018

Background characteristic	Professional/ technical/ managerial	Clerical	Sales and services	Skilled manual	Unskilled manual	Agriculture	Other	Total	Number of men
Age									
15-19	4.3	0.2	24.7	8.5	1.3	59.7	1.3	100.0	1,455
20-24	9.8	0.6	27.4	13.0	5.5	43.1	0.6	100.0	1,180
25-29	11.9	1.1	27.2	13.7	6.0	39.9	0.2	100.0	1,505
30-34	13.8	3.0	27.5	13.7	8.1	33.8	0.1	100.0	1,754
35-39	16.6	2.1	25.2	12.9	9.2	33.8	0.2	100.0	1,807
40-44	16.8	2.7	26.9	9.9	8.1	35.4	0.4	100.0	1,562
45-49	14.5	2.5	24.1	9.7	7.0	42.2	0.0	100.0	1,174
Marital status									
Never married	9.9	1.2	28.9	12.4	3.5	43.3	0.8	100.0	3,582
Married or living together	14.3	2.1	24.7	11.4	8.3	39.1	0.2	100.0	6,727
Divorced/separated/widowed	13.9	1.9	26.7	11.1	7.2	39.1	0.0	100.0	127
Number of living children									
0	10.2	1.3	28.3	12.0	4.1	43.3	0.7	100.0	4,031
1-2	16.8	2.4	26.7	13.1	8.6	32.2	0.1	100.0	2,463
3-4	15.7	1.9	23.9	13.1	9.5	35.7	0.1	100.0	2,033
5+	9.7	1.9	23.4	8.1	6.2	50.5	0.3	100.0	1,909
	0.1	1.0	20.1	0.1	0.2	00.0	0.0	100.0	1,000
Residence	20.0	20	24.4	16.7	0.6	17.0	0.5	100.0	A 710
Urban Rural	20.0 6.8	2.8 0.9	34.1 19.7	16.7 7.6	8.6 5.0	17.3 59.6	0.5 0.3	100.0 100.0	4,718 5,718
	0.0	0.9	19.7	7.0	5.0	59.0	0.3	100.0	5,710
Zone	40.0	4.0	40.0	- ^	4.5	50. 0	0.1	400.0	4.500
North Central	16.3	1.8	16.8	7.3	4.3	53.0	0.4	100.0	1,509
North East	7.1	1.4	23.9	5.4	3.9	58.3	0.1	100.0	1,791
North West	9.0	0.9	28.6	7.6	4.6	48.6	0.7	100.0	2,919
South East	8.0	1.5	32.7	21.6	11.3	24.5	0.4	100.0	1,164
South South	12.2	2.6	31.6	20.4	8.1	24.6	0.4	100.0	1,127
South West	24.0	3.2	24.9	16.3	10.4	20.9	0.2	100.0	1,927
State									
North Central									
FCT-Abuja	8.9	9.9	17.8	14.6	6.4	42.1	0.2	100.0	74
Benue	14.4	1.6	6.0	4.1	4.2	68.5	1.4	100.0	322
Kogi	17.1	2.7	17.5	13.8	5.8	43.1	0.0	100.0	139
Kwara	35.3	0.7	12.0	8.9	9.6	33.5	0.0	100.0	168
Nasarawa	18.3	2.1	25.3	15.5	5.3	32.5	0.9	100.0	192
Niger	7.4	0.7	24.7	4.0	1.8	61.2	0.0	100.0	382
Plateau	20.2	1.3	14.6	3.1	2.3	58.4	0.0	100.0	232
North East									
	7.1	0.2	33.1	2.9	4.0	52.7	0.0	100.0	218
Adamawa									
Bauchi	6.4	1.3	21.2	6.4	2.3	62.4	0.0	100.0	379
Borno	11.1	2.5	36.2	5.4	3.4	41.5	0.0	100.0	391
Gombe	7.7	0.2	15.7	5.6	5.7	65.0	0.1	100.0	236
Taraba	7.3 3.5	0.7	13.6	7.1	4.7	66.5	0.0	100.0	170 397
Yobe	3.5	1.9	18.6	5.0	4.4	66.3	0.2	100.0	397
North West			0.5		0 -			465.5	
Jigawa	7.4	0.3	38.1	6.4	6.2	41.6	0.0	100.0	263
Kaduna	11.3	0.8	14.0	14.0	5.5	54.0	0.3	100.0	571
Kano	17.5	0.7	32.9	10.0	5.9	30.6	2.3	100.0	599
Katsina	5.9	1.6	42.9	4.6	2.4	42.5	0.0	100.0	631
Kebbi	4.2	0.3	17.3	4.4	5.9	67.9	0.0	100.0	279
Sokoto	3.8	1.0	32.1	3.3	2.3	56.2	1.3	100.0	188
Zamfara	4.8	1.2	19.7	4.5	3.5	65.8	0.5	100.0	388
South East									
Abia	9.9	3.2	33.7	30.0	11.9	10.1	1.2	100.0	149
Anambra	4.7	1.3	39.2	24.4	14.5	15.5	0.3	100.0	374
Ebonyi	8.3	1.1	17.4	7.9	6.7	58.6	0.0	100.0	209
Enugu	4.3	2.0	20.6	23.7	8.6	39.9	1.0	100.0	166
Imo	13.7	0.8	42.8	22.3	11.8	8.6	0.0	100.0	266
South South									
Akwa Ibom	18.6	2.0	34.3	22.7	10.9	11.5	0.0	100.0	221
Bayelsa	17.8	1.8	14.6	12.2	5.1	47.8	0.8	100.0	99
Cross River	9.0	0.7	28.1	7.3	6.8	48.2	0.0	100.0	107
Delta	7.4	3.2	41.5	13.8	5.1	28.1	0.0	100.0	224
Edo	15.2	0.7	14.5	30.6	8.6	29.5	0.8	100.0	115
Rivers	9.8	4.0	34.9	26.1	9.3	15.6	0.8	100.0	361
- MVCIO	5.0	7.0	U-7.0	20.1	5.5	10.0	0.2	100.0	301

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Background characteristic	Professional/ technical/ managerial	Clerical	Sales and services	Skilled manual	Unskilled manual	Agriculture	Other	Total	Number of men
South West									
Ekiti	7.8	3.2	22.1	10.8	3.6	52.5	0.0	100.0	120
Lagos	34.3	4.6	34.7	12.5	12.8	1.2	0.0	100.0	716
Ogun	15.8	4.0	16.6	25.2	13.6	24.3	0.5	100.0	272
Ondo	19.5	2.5	9.7	11.4	7.2	49.7	0.0	100.0	229
Osun	26.7	0.4	2.5	15.7	12.8	41.5	0.4	100.0	226
Oyo	16.6	2.0	36.2	22.7	6.1	15.9	0.5	100.0	363
Education									
No education	2.3	0.1	18.0	4.0	4.0	71.5	0.1	100.0	2,408
Primary	6.2	0.5	24.6	11.6	9.7	47.0	0.4	100.0	1,481
Secondary	10.0	1.3	31.4	16.3	7.8	32.7	0.5	100.0	4,733
More than secondary	39.1	6.4	24.7	10.3	4.4	14.6	0.5	100.0	1,815
Wealth quintile									
Lowest	1.7	0.2	13.3	2.1	2.7	79.9	0.1	100.0	1,862
Second	4.7	0.4	19.1	5.7	3.8	65.8	0.4	100.0	1,918
Middle	9.7	1.5	26.3	11.5	7.4	43.0	0.6	100.0	2,119
Fourth	14.5	1.3	33.8	18.4	10.8	20.9	0.3	100.0	2,204
Highest	29.3	4.9	34.9	18.4	7.4	4.6	0.5	100.0	2,334
Total 15-49	12.8	1.8	26.2	11.7	6.6	40.5	0.4	100.0	10,436
50-59	16.6	3.2	18.1	7.3	6.8	47.3	0.7	100.0	1,407
Total 15-59	13.2	2.0	25.2	11.2	6.6	41.3	0.4	100.0	11,843

Table 3.8 Type of employment: Women

Percent distribution of women age 15-49 employed in the 12 months preceding the survey by type of earnings, type of employer, and continuity of employment, according to type of employment (agricultural or nonagricultural), Nigeria DHS 2018

Employment characteristic	Agricultural work	Nonagricultural work	Total
Characteristic	Agricultural work	Nonagricultural work	I Ulai
Type of earnings			
Cash only	31.6	80.8	70.1
Cash and in-kind	17.4	8.9	10.8
In-kind only	4.0	0.8	1.5
Not paid	46.9	9.5	17.6
Total	100.0	100.0	100.0
Type of employer			
Employed by family member	38.7	9.3	15.7
Employed by non-family member	3.4	16.8	13.9
Self-employed	57.9	74.0	70.4
Total	100.0	100.0	100.0
Continuity of employment			
All year	44.2	84.1	75.5
Seasonal	48.6	9.9	18.3
Occasional	7.1	6.0	6.3
Total	100.0	100.0	100.0
Number of women employed during the last			
12 months	6,165	22,370	28,607

Note: Total includes women with missing information on type of employment who are not shown separately.

Table 3.9.1 Health insurance coverage: Women

Percentage of women age 15-49 with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Nigeria DHS 2018

Declaration	Faralassa basad	Mutual health organisation/	Privately purchased			A b a a láb	Normala a mare
Background characteristic	Employer-based insurance	community- based insurance	commercial insurance	Other	None	Any health insurance	Number of women
Age							
15-19	1.1	0.4	0.1	0.1	98.3	1.7	8,448
20-24	1.1	0.5	0.1	0.1	98.2	1.8	6,835
25-29	1.6	0.4	0.2	0.1	97.8	2.2	7,255
30-34	2.5	0.7	0.2	0.1	96.6	3.4	6,178
35-39	3.2	0.6	0.3	0.1	95.9	4.1	5,463
40-44	2.9	0.4	0.2	0.0	96.5	3.5	3,940
45-49	2.5	0.3	0.2	0.1	97.1	2.9	3,701
Residence							
Urban	3.5	0.4	0.2	0.1	95.8	4.2	19,163
Rural	0.6	0.5	0.2	0.1	98.6	1.4	22,658
Zone							
North Central	2.2	0.0	0.1	0.0	97.6	2.4	5,891
North East	1.0	0.2	0.1	0.0	98.7	1.3	6,636
North West	1.7	1.0	0.1	0.1	97.2	2.8	12,225
South East	2.1	0.5	0.6	0.1	96.8	3.2	4,963
South South	2.3	0.4	0.1	0.2	97.1	2.9	4,840
South West	2.7	0.2	0.2	0.1	96.7	3.3	7,266
Education							
No education	0.2	0.6	0.0	0.0	99.2	0.8	14,603
Primary	0.4	0.2	0.1	0.0	99.3	0.7	6,039
Secondary	1.6	0.3	0.2	0.1	97.8	2.2	16,583
More than secondary	10.8	1.0	0.8	0.4	87.2	12.8	4,596
Wealth quintile							
Lowest	0.0	0.5	0.0	0.0	99.4	0.6	7,222
Second	0.1	0.4	0.0	0.0	99.5	0.5	8,045
Middle	0.5	0.4	0.0	0.1	99.0	1.0	8,207
Fourth	1.3	0.4	0.2	0.1	97.9	2.1	8,990
Highest	6.9	0.5	0.6	0.2	92.0	8.0	9,357
Total	1.9	0.5	0.2	0.1	97.4	2.6	41,821

Table 3.9.2 Health insurance coverage: Men

Percentage of men age 15-49 with specific types of health insurance coverage, and percentage with any health insurance, according to background characteristics, Nigeria DHS 2018

Background	Employer-based	Mutual health organisation/community-	Privately purchased commercial			Any health	
characteristic	insurance	based insurance	insurance	Other	None	insurance	Number of men
Age							
15-19	0.3	0.0	0.0	0.1	99.6	0.4	2,415
20-24	0.8	0.2	0.3	0.2	98.6	1.4	1,472
25-29	1.2	0.1	0.1	0.4	98.2	1.8	1,599
30-34	3.6	0.2	0.1	0.2	95.9	4.1	1,792
35-39	3.7	0.2	0.0	0.1	96.1	3.9	1,832
40-44	5.6	0.2	0.0	0.1	94.1	5.9	1,569
45-49	4.9	0.5	0.0	0.0	94.6	5.4	1,188
Residence							
Urban	4.3	0.3	0.1	0.2	95.2	4.8	5,512
Rural	1.3	0.1	0.1	0.1	98.6	1.4	6,356
Zone							
North Central	4.0	0.2	0.1	0.1	95.5	4.5	1,704
North East	1.6	0.1	0.0	0.0	98.4	1.6	1,936
North West	2.0	0.0	0.0	0.2	97.8	2.2	3,195
South East	1.7	0.2	0.0	0.0	98.0	2.0	1,355
South South	1.6	0.1	0.2	0.2	98.0	2.0	1,438
South West	4.7	0.5	0.1	0.3	94.4	5.6	2,240
Education							
No education	0.1	0.0	0.0	0.0	99.9	0.1	2,555
Primary	0.3	0.0	0.0	0.0	99.7	0.3	1,590
Secondary	1.2	0.1	0.0	0.0	98.6	1.4	5,697
More than secondary	11.8	0.8	0.3	0.8	86.5	13.5	2,025
Wealth quintile							
Lowest	0.0	0.0	0.0	0.0	100.0	0.0	1,991
Second	0.6	0.0	0.0	0.0	99.4	0.6	2,123
Middle	0.8	0.1	0.0	0.0	99.1	0.9	2,393
Fourth	1.9	0.1	0.0	0.1	98.0	2.0	2,590
Highest	8.4	0.7	0.3	0.6	90.2	9.8	2,770
Total 15-49	2.7	0.2	0.1	0.1	97.0	3.0	11,868
50-59	5.6	0.3	0.1	0.2	93.8	6.2	1,443
Total 15-59	3.0	0.2	0.1	0.2	96.6	3.4	13,311

Table 3.10.1 Tobacco smoking: Women

Percentage of women age 15-49 who smoke various tobacco products, according to background characteristics, Nigeria DHS 2018

	Po	e: ¹		
Background characteristic	Cigarettes ²	Other type of tobacco ³	Any type of tobacco	Number of women
Age				
15-19	0.1	0.0	0.1	8,448
20-24	0.3	0.0	0.3	6,835
25-29	0.4	0.1	0.4	7,255
30-34	0.4	0.1	0.4	6,178
35-39	0.2	0.0	0.2	5,463
40-44	0.3	0.1	0.3	3,940
45-49	0.2	0.0	0.2	3,701
Residence				
Urban	0.3	0.0	0.3	19,163
Rural	0.2	0.1	0.2	22,658
Zone				
North Central	0.3	0.0	0.3	5,891
North East	0.3	0.1	0.3	6,636
North West	0.1	0.1	0.1	12,225
South East	0.0	0.0	0.0	4,963
South South	0.3	0.0	0.3	4,840
South West	0.6	0.0	0.6	7,266
Education				
No education	0.1	0.0	0.1	14,603
Primary	0.3	0.1	0.3	6,039
Secondary	0.4	0.1	0.4	16,583
More than secondary	0.3	0.0	0.3	4,596
Wealth quintile				
Lowest	0.1	0.0	0.1	7,222
Second	0.2	0.1	0.2	8,045
Middle	0.3	0.0	0.3	8,207
Fourth	0.4	0.0	0.4	8,990
Highest	0.3	0.0	0.3	9,357
Total	0.3	0.0	0.3	41,821

 ¹ Includes daily and occasional (less than daily) use
 ² Includes kreteks
 ³ Includes pipes full of tobacco, cigars, cheroots, cigarillos, and water pipes

Table 3.10.2 Tobacco smoking: Men

Percentage of men age 15-49 who smoke various tobacco products, and percent distribution of men by smoking frequency, according to background characteristics, Nigeria DHS 2018

	Perce	entage who sn	noke:1	S	moking frequen	су		
Background characteristic	Cigarettes ²	Other type of tobacco ³	Any type of tobacco	Daily smoker	Occasional smoker ⁴	Non- smoker	Total	Number of men
Age								
15-19	0.8	0.3	0.8	0.5	0.3	99.2	100.0	2,415
20-24	3.1	0.4	3.1	2.3	1.0	96.6	100.0	1,472
25-29	6.2	1.1	6.5	3.8	2.9	93.3	100.0	1,599
30-34	7.8	1.9	8.0	5.4	3.1	91.5	100.0	1,792
35-39	8.5	1.8	8.6	6.0	3.1	90.8	100.0	1,832
40-44	7.6	1.5	8.0	5.4	2.6	91.9	100.0	1,569
45-49	5.8	1.9	6.3	5.0	1.6	93.4	100.0	1,188
Residence								
Urban	5.0	1.3	5.2	3.4	2.2	94.4	100.0	5,512
Rural	5.8	1.1	6.0	4.3	1.9	93.8	100.0	6,356
Zone								
North Central	5.8	1.0	6.1	4.3	2.0	93.8	100.0	1,704
North East	3.2	0.4	3.2	2.5	0.8	96.7	100.0	1,936
North West	4.0	0.9	4.2	3.3	1.1	95.6	100.0	3,195
South East	9.0	1.4	9.2	6.2	3.8	90.1	100.0	1,355
South South	10.0	1.9	10.1	5.1	5.5	89.4	100.0	1,438
South West	4.2	1.9	4.4	3.4	1.3	95.3	100.0	2,240
Education								
No education	4.9	1.1	5.2	4.2	1.0	94.8	100.0	2,555
Primary	9.4	1.9	9.8	6.5	3.6	89.9	100.0	1,590
Secondary	5.4	1.2	5.5	3.8	2.1	94.1	100.0	5,697
More than secondary	3.2	0.7	3.4	1.5	2.1	96.4	100.0	2,025
Wealth quintile								
Lowest	4.9	1.0	5.0	3.9	1.3	94.8	100.0	1,991
Second	5.6	1.2	5.8	4.7	1.3	94.0	100.0	2,123
Middle	6.7	1.4	6.9	4.8	2.5	92.7	100.0	2,393
Fourth	6.0	1.1	6.1	3.8	2.8	93.4	100.0	2,590
Highest	4.2	1.2	4.4	2.5	2.1	95.4	100.0	2,770
Total 15-49	5.5	1.2	5.6	3.9	2.0	94.1	100.0	11,868
50-59	4.6	0.9	4.8	3.2	1.7	95.1	100.0	1,443
Total 15-59	5.4	1.2	5.5	3.8	2.0	94.2	100.0	13,311

 ¹ Includes daily and occasional (less than daily) use
 ² Includes manufactured cigarettes, hand-rolled cigarettes, and kreteks
 ³ Includes pipes, cigars, cheroots, cigarillos, and water pipes
 ⁴ Occasional refers to less often than daily use.

Table 3.11 Average number of cigarettes smoked daily: Men

Among men age 15-49 who smoke cigarettes daily, percent distribution by average number of cigarettes smoked per day, according to background characteristics, Nigeria DHS 2018

	Av	verage numbe	er of cigarettes	smoked per d	lay ¹		Number of respondents
Background characteristic	<5	5-9	10-14	15-24	≥25	Total	who smoke cigarettes daily ¹
Age							
15-19	*	*	*	*	*	100.0	13
20-24	(53.4)	(30.7)	(14.3)	(0.0)	(1.6)	100.0	29
25-29	46.5	32.8	10.3	8.6	1.8	100.0	55
30-34	43.8	33.0	11.1	9.7	2.4	100.0	87
35-39	26.4	34.0	22.8	11.6	5.3	100.0	99
40-44	40.1	36.8	14.8	5.9	2.4	100.0	79
45-49	32.6	31.8	19.8	6.2	9.6	100.0	49
Residence							
Urban	39.3	32.8	12.3	11.8	3.8	100.0	162
Rural	37.8	32.9	18.9	6.2	4.2	100.0	250
Zone							
North Central	22.9	43.6	27.6	5.9	0.0	100.0	63
North East	59.6	18.7	9.5	11.2	1.0	100.0	47
North West	25.6	47.6	18.6	5.8	2.4	100.0	97
South East	47.6	33.1	13.5	4.3	1.5	100.0	75
South South	30.0	34.1	20.6	10.9	4.3	100.0	60
South West	53.3	10.8	6.4	14.8	14.7	100.0	69
Education							
No education	25.9	37.1	24.8	5.0	7.2	100.0	101
Primary	45.1	32.3	9.6	10.7	2.2	100.0	91
Secondary	40.7	31.8	16.0	8.3	3.1	100.0	193
More than secondary	(45.2)	(26.4)	(9.1)	(14.3)	(5.0)	100.0	27
Wealth quintile							
Lowest	33.5	25.7	29.4	5.1	6.2	100.0	73
Second	38.7	41.4	10.9	6.9	2.0	100.0	90
Middle	31.0	34.3	15.2	16.2	3.3	100.0	98
Fourth	48.3	28.8	14.4	7.2	1.3	100.0	90
Highest	40.8	32.6	13.1	3.9	9.7	100.0	61
Total 15-49	38.4	32.9	16.3	8.4	4.0	100.0	412
50-59	39.8	26.0	20.7	10.7	2.8	100.0	42
Total 15-59	38.5	32.2	16.7	8.6	3.9	100.0	454

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 3.12 Smokeless tobacco use and any tobacco use

Percentage of women and men age 15-49 who currently use smokeless tobacco, according to type of tobacco product, and percentage who use any type of tobacco, Nigeria DHS 2018

Tobacco product	Women	Men
Snuff, by mouth	0.0	0.5
Snuff, by nose	0.1	0.9
Chewing tobacco	0.0	0.2
Betel quid with tobacco	0.0	0.1
Other type of smokeless tobacco	0.0	0.1
Any type of smokeless tobacco ¹	0.1	1.2
Any type of tobacco ²	0.5	6.6
Number	41,821	11,868

Note: Table includes women and men who use smokeless tobacco daily or occasionally (less than daily).

¹ Includes snuff by mouth, snuff by nose, chewing tobacco, and betel

¹ Includes manufactured cigarettes, hand-rolled cigarettes, and kreteks

quid with tobacco ² Includes all types of smokeless tobacco shown in this table along with

cigarettes, kreteks, pipes, cigars, cheroots, cigarillos, and water pipes

Key Findings

- **Current marital status:** 70% of women and 57% of men age 15-49 are currently in union.
- Polygyny: 31% of currently married women report that their husband has multiple wives.
- Age at first marriage: The median age at first marriage among women age 20-49 is 19.1 years. Men marry later than women, with the median age at first marriage among men age 30-59 being 27.7 years.
- Sexual initiation: The median age at first sexual intercourse among women is 17.2 years, while the median age among men is 21.7 years.

arriage and sexual activity help determine the extent to which women are exposed to the risk of pregnancy. Thus, they are important determinants of fertility levels. However, the timing and circumstances of marriage and sexual activity also have profound consequences for women's and men's lives.

4.1 MARITAL STATUS

Currently married

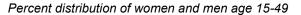
Women and men who report being married or living together with a partner as though married at the time of the survey.

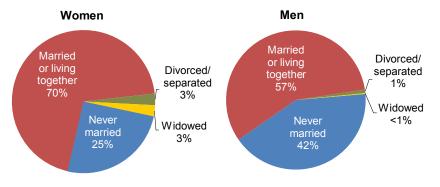
Sample: Women and men age 15-49

Seventy percent of women and 57% of men are currently married or living together with a partner. By age 45-49, only 2% of both women and men have never been married (**Table 4.1** and **Figure 4.1**).

Overall, women are more likely than men to be divorced, separated, or widowed. Women are less likely to be single; 25% of women and 42% of men have never been married.

Figure 4.1 Marital status





Trends: Overall, the percentage of women who are currently in union is consistent with the percentage in 2013, when 7 of 10 women were in union. There has been an increase among men, from 50% to 57%.

4.2 POLYGYNY

Polygyny

Women who report that their husband or partner has other wives are considered to be in a polygynous marriage.

Sample: Currently married women age 15-49

Thirty-one percent of women age 15-49 reported that their husband or partner has other wives, while 13% of men age 15-49 reported having more than one wife (**Table 4.2.1** and **Table 4.2.2**).

Trends: Thirty-one percent of currently married women are in a polygynous union, as compared with 41% in 1990 and 33% in 2013 (**Figure 4.2**).

Patterns by background characteristics

 Thirty-seven percent of rural women have one or more co-wives, compared with 21% of urban women (Table 4.2.1).

Figure 4.2 Trends in polygyny

Percentage of married women age 15-49 in a polygynous union

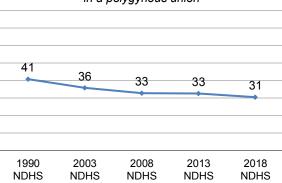
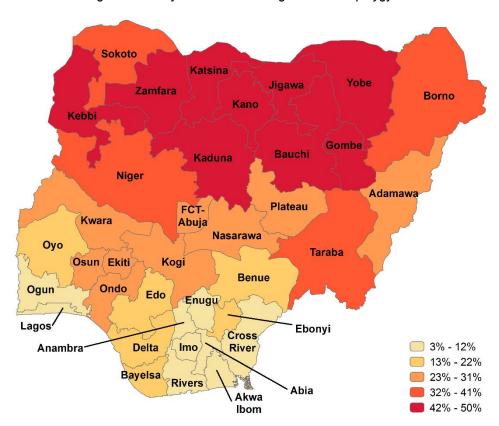


Figure 4.3 Polygyny by state

Percentage of currently married women age 15-49 in a polygynous union



The percentage of women with one or more co-wives is highest in Katsina (50%) and lowest in Abia (3%) (**Figure 4.3**).

- Women with no education are much more likely to have co-wives (47%) than women who have more than a secondary education (9%).
- Forty-one percent of women in the lowest wealth quintile report that they have one or more co-wives, as compared with 13% of women in the highest quintile.
- Twenty-seven percent of men in Kebbi and Katsina have two or more wives, compared with less than 1% in Anambra (**Table 4.2.2**).

4.3 **AGE AT FIRST MARRIAGE**

Median age at first marriage

Age by which half of respondents have been married.

Sample: Women age 20-49 and 25-49 and men age 20-49, 25-49, and 30-59

The median age at first marriage is 19.1 years among women age 20-49 and 25-49. The median age at first marriage among men age 30-59 is 27.7 years. This corroborates the fact that women tend to marry earlier than men. Forty-three percent of women and only 4% of men age 25-49 marry before their 18th birthday (Table 4.3).

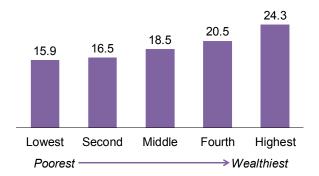
Trends: The median age at first marriage among women age 20-49 has increased slightly since 2013, from 18.3 years to 19.1 years. Within the same age group, the percentage of women marrying before age 18 has declined from 48% to 43%. Similarly, the percentage of women age 15-19 marrying before age 15 has declined from 12% to 8%.

Patterns by background characteristics

- Rural women age 25-49 marry at younger ages than their urban counterparts (17.2 years versus 21.6 years) (**Table 4.4**).
- Women in the North West marry at a much earlier age (15.8 years) than women in the South East (23.6 years).
- Women with no education marry 6 years earlier than women with a secondary education (15.9 years versus 21.9 years).
- Women in the lowest wealth quintile marry more than 8 years earlier than women in the highest quintile (15.9 years versus 24.3 years) (Figure 4.4).

Figure 4.4 Women's median age at marriage by wealth

Median age at first marriage among women age 25-49



4.4 **AGE AT FIRST SEXUAL INTERCOURSE**

Median age at first sexual intercourse

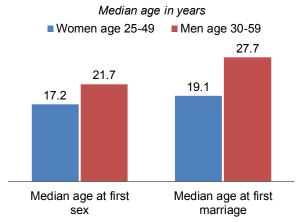
Age by which half of respondents have had sexual intercourse.

Sample: Women age 20-49 and 25-49 and men age 20-49, 25-49, 25-59, and 30-59

The median age at first sexual intercourse among women age 25-49 in Nigeria is 17.2 years, while the median age among men is 21.7 years. On average, women initiate sexual intercourse 4.5 years earlier than men (Table 4.5).

The median age at first sexual intercourse is 6 years earlier than the median age at first marriage among men, while the median age at first sexual intercourse is 1.9 years earlier than the median age at first marriage among women (Figure 4.5). This indicates that the gap between age at initiation of sexual intercourse and age at first marriage is longer among men than among women. .

Figure 4.5 Median age at first sex and first marriage



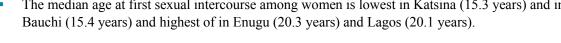
Nineteen percent of women initiate sexual intercourse by age 15 and 57% by age 18. By age 20, 7 out of 10 women have had sexual intercourse (**Table 4.5**). Three percent of men age 20-49 have their first sexual intercourse by age 15, and 3 out of 10 men have had sexual intercourse by age 20.

Trends: The percentage of women who have had sexual intercourse by age 18 has increased since 2013 (from 54% to 57%), while the percentage among men has declined (from 19% to 15%) (Figure 4.6).

Women's median age at first sexual intercourse has decreased slightly since 2013, from 17.6 years to 17.2 years.

Patterns by background characteristics

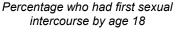
- On average, women age 25-49 in rural areas engage in sexual intercourse earlier than women in urban areas (16.0 years versus 18.6 years). The difference among men age 25-59 is
 - marginal, with urban men initiating sexual intercourse 0.8 years earlier than rural men (**Table 4.6**).
- The median age at first sexual intercourse among women is lowest in Katsina (15.3 years) and in Bauchi (15.4 years) and highest of in Enugu (20.3 years) and Lagos (20.1 years).
- Women with no education engage in sexual intercourse earlier than women with more than a secondary education (15.6 years versus 20.6 years).
- Women in the lowest wealth quintile initiate sexual intercourse earlier than women in the highest quintile (15.5 years versus 19.7 years).

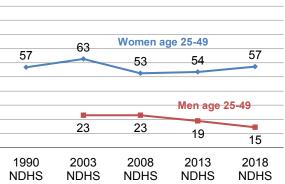


4.5 RECENT SEXUAL ACTIVITY

The survey collected data on recent sexual activity. Overall, more than half of women and men age 15-49 (58% and 54%, respectively) reported having sexual intercourse during the 4 weeks before the survey. Sixteen percent of women and 29% of men reported that they have not had sexual intercourse. For more information on recent sexual activity, see **Tables 4.7.1** and **4.7.2**.

Figure 4.6 Trends in early sexual intercourse





LIST OF TABLES

For more information on marriage and sexual activity, see the following tables:

Table 4.1	Current marital status
Table 4.2.1	Number of women's co-wives
Table 4.2.2	Number of men's wives
Table 4.3	Age at first marriage
Table 4.4	Median age at first marriage by background characteristics
Table 4.5	Age at first sexual intercourse
Table 4.6	Median age at first sexual intercourse according to background characteristics
Table 4.7.1	Recent sexual activity: Women
Table 4.7.2	Recent sexual activity: Men

Table 4.1 Current marital status

Percent distribution of women and men age 15-49 by current marital status, according to age, Nigeria DHS 2018

			Marita	l status				Percentage of	
Age	Never married	Married	Living together	Divorced	Separated	Widowed	Total	respondents currently in union	Number of respondents
				WOME	N				
15-19	76.6	22.1	0.7	0.4	0.1	0.1	100.0	22.8	8,448
20-24	33.5	60.8	3.0	1.5	0.9	0.2	100.0	63.8	6,835
25-29	13.3	80.3	3.2	1.6	1.1	0.6	100.0	83.5	7,255
30-34	7.3	85.0	2.7	1.5	1.8	1.7	100.0	87.7	6,178
35-39	4.0	86.1	2.5	1.7	2.5	3.2	100.0	88.6	5,463
40-44	2.1	85.2	2.5	1.6	2.1	6.5	100.0	87.7	3,940
45-49	1.8	79.9	1.9	1.6	2.4	12.5	100.0	81.8	3,701
Total 15-49	25.2	67.2	2.3	1.3	1.3	2.5	100.0	69.6	41,821
				MEN					
15-19	99.7	0.2	0.0	0.0	0.1	0.0	100.0	0.3	2,415
20-24	83.8	15.7	0.1	0.2	0.1	0.0	100.0	15.8	1,472
25-29	49.4	47.9	1.4	0.9	0.2	0.1	100.0	49.4	1,599
30-34	19.6	74.2	4.6	0.6	0.8	0.2	100.0	78.8	1,792
35-39	5.8	88.0	4.4	8.0	0.8	0.3	100.0	92.4	1,832
40-44	2.6	91.1	4.7	0.5	0.5	0.6	100.0	95.8	1,569
45-49	1.9	92.3	4.5	0.2	0.6	0.6	100.0	96.8	1,188
Total 15-49	41.7	54.5	2.7	0.4	0.4	0.2	100.0	57.2	11,868
50-59	0.8	92.0	4.7	0.8	0.3	1.4	100.0	96.6	1,443
Total 15-59	37.3	58.6	2.9	0.5	0.4	0.4	100.0	61.5	13,311

Table 4.2.1 Number of women's co-wives

Percent distribution of currently married women age 15-49 by number of co-wives, and percentage of currently married women with one or more co-wives, according to background characteristics, Nigeria DHS 2018

-		Number of	of co-wives			Percentage with	
Background characteristic	0	1	2+	Don't know	Total	one or more co- wives ¹	Number of women
\ge							
15-19	77.2	20.3	2.4	0.1	100.0	22.7	1,927
20-24	75.3	20.5	4.0	0.2	100.0	24.4	4,362
25-29	72.8	22.9	4.1	0.3	100.0	26.9	6,060
30-34	69.0	24.1	6.5	0.4	100.0	30.6	5,417
35-39	66.1	25.6	7.6	0.6	100.0	33.2	4,841
40-44	61.7	27.5	10.3	0.5	100.0	37.8	3,457
45-49	61.2	26.8	11.6	0.5	100.0	38.4	3,026
Residence		40.0			400.0	0.4.0	44 =00
Urban	78.3 62.9	16.3 29.2	4.9 7.6	0.5 0.3	100.0	21.2 36.8	11,790
Rural	02.9	29.2	7.0	0.3	100.0	30.0	17,299
Cone							
North Central	70.5	22.6	6.6	0.3	100.0	29.1	4,086
North East	60.2	31.2	8.5	0.1	100.0	39.7	4,841
North West	54.7	35.9	9.4	0.0	100.0	45.3	9,826
South East	91.2	6.9	1.8	0.1	100.0	8.7	2,893
South South	88.3	7.6	2.2	1.9	100.0	9.8	2,777
South West	82.3	12.9	4.0	0.8	100.0	16.9	4,666
State							
North Central							
FCT-Abuja	74.0	19.4	6.4	0.1	100.0	25.9	202
Benue	81.9	13.3	4.5	0.3	100.0	17.8	876
Kogi	71.6	21.6	5.3	1.6	100.0	26.8	428
Kwara	71.1	25.1	3.1	0.6	100.0	28.3	486
Nasarawa	69.9	20.7	9.3	0.0	100.0	30.1	416
Niger	59.5	30.5	9.9	0.1	100.0	40.4	1,108
Plateau	72.3	22.5	5.2	0.0	100.0	27.7	570
North East							
Adamawa	71.1	21.9	6.4	0.7	100.0	28.2	624
Bauchi	53.4	36.4	10.2	0.0	100.0	46.6	1,134
Borno	67.2	23.7	9.0	0.0	100.0	32.8	953
Gombe	56.1	34.1	9.7	0.0	100.0	43.9	554
Taraba	63.0	27.1	9.9	0.0	100.0	37.0	580
Yobe	55.2	38.9	5.9	0.0	100.0	44.8	996
North West							
Jigawa	55.3	36.3	8.4	0.0	100.0	44.7	1,158
Kaduna	56.2	34.9	8.9	0.0	100.0	43.8	1,975
Kano	52.9	36.4	10.7	0.0	100.0	47.1	2,085
	49.9	39.0	11.1	0.0	100.0	50.1	1,772
Katsina							
Kebbi	55.7	39.2	5.1	0.0	100.0	44.3	945
Sokoto	63.4	31.6	5.1	0.0	100.0	36.6	777
Zamfara	55.6	31.9	12.4	0.1	100.0	44.3	1,116
South East							
Abia	96.7	2.6	0.7	0.0	100.0	3.3	376
Anambra	93.7	5.6	0.6	0.0	100.0	6.3	905
Ebonyi	81.1	12.1	6.5	0.2	100.0	18.6	600
Enugu	92.3	6.4	0.9	0.3	100.0	7.3	458
Imo	93.4	6.5	0.1	0.0	100.0	6.6	554
South South							
Akwa Ibom	92.5	5.3	0.4	1.8	100.0	5.7	490
Bayelsa	80.2	12.0	3.7	4.2	100.0	15.6	195
Cross River	90.5	5.9	2.6	0.9	100.0	8.5	318
Delta	81.4	9.8	4.4	4.4	100.0	14.2	551
Edo	84.0	12.6	3.3	0.1	100.0	15.9	370
Rivers	93.1	5.1	0.7	1.1	100.0	5.9	855
South West							
Ekiti	72.1	19.1	8.6	0.2	100.0	27.7	326
Lagos	86.3	10.5	1.3	1.9	100.0	11.8	1,645
Ogun	88.7	9.9	1.2	0.2	100.0	11.1	624
Ondo	76.6	18.3	4.6	0.5	100.0	22.9	421
Osun	73.1	18.6	8.4	0.0	100.0	26.9	625
Oyo	83.4	11.0	5.6	0.0	100.0	16.6	1,024
Education	y -	-					.,
No education	53.2	36.8	9.9	0.0	100.0	46.7	12,955
Primary	70.1	22.7	6.9	0.4	100.0	29.5	4,580
Secondary	85.3	11.1	2.7	0.8	100.0	13.9	8,767
More than secondary	90.3	7.0	2.0	0.7	100.0	9.0	2,788

Continued...

		Number o	f co-wives			Percentage with one or more co- wives ¹	Number of women
Background characteristic	0	1	2+	Don't know	Total		
Wealth quintile							
Lowest	58.9	34.7	6.4	0.0	100.0	41.1	6,008
Second	58.2	32.4	9.3	0.1	100.0	41.7	6,224
Middle	68.0	23.9	7.7	0.4	100.0	31.6	5,601
Fourth	76.3	17.1	5.9	0.7	100.0	23.0	5,599
Highest	86.0	10.2	3.1	0.8	100.0	13.3	5,657
Total	69.1	24.0	6.5	0.4	100.0	30.5	29,090

 $^{^{\}rm 1}$ Excludes women who responded "don't know" when asked if their husband has other wives

Table 4.2.2 Number of men's wives

Percent distribution of currently married men age 15-49 by number of wives, according to background characteristics, Nigeria DHS 2018 $\,$

	Number	of wives		
Background characteristic	1	2+	Total	Number of men
Age				
15-19	*	*	100.0	7
20-24	99.2	0.8	100.0	233
25-29	94.5	5.5	100.0	790
30-34	90.9	9.1	100.0	1,412
35-39	88.5	11.5	100.0	1,693
40-44	83.2	16.8	100.0	1,502
45-49	78.8	21.2	100.0	1,150
Residence Urban	93.6	6.4	100.0	3,122
Rural	81.9	18.1	100.0	3,663
Zone				
North Central	85.4	14.6	100.0	968
North East	80.8	19.2	100.0	1,026
North West	75.5	24.5	100.0	1,703
South East	98.4	1.6	100.0	797
South South	98.2	1.8	100.0	782
South West	94.6	5.4	100.0	1,509
State North Central				
FCT-Abuja	90.2	9.8	100.0	58
Benue	94.6	5.4	100.0	216
Kogi	84.4	15.6	100.0	84
Kwara	79.0	21.0	100.0	106
Nasarawa	89.3	10.7	100.0	96
Niger	79.0	21.0	100.0	284
Plateau	84.4	15.6	100.0	125
North East				
Adamawa	93.2	6.8	100.0	131
Bauchi	77.8	22.2	100.0	238
Borno	80.4	19.6	100.0	229
Gombe	78.0	22.0	100.0	111
Taraba	82.8	17.2	100.0	115
Yobe	77.4	22.6	100.0	202
North West				
Jigawa	76.4	23.6	100.0	173
Kaduna	73.8	26.2	100.0	385
Kano	77.5	22.5	100.0	311
Katsina	73.3	26.7	100.0	325
Kebbi	72.7	27.3	100.0	171
Sokoto	80.0	20.0	100.0	124
Zamfara	78.1	21.9	100.0	214
South East Abia	99.5	0.5	100.0	93
Anambra	99.7	0.3	100.0	277
Ebonyi	96.6	3.4	100.0	154
Enugu	94.4	5.6	100.0	101
Imo	99.5	0.5	100.0	172
South South				
Akwa Ibom	98.9	1.1	100.0	147
Bayelsa	97.5	2.5	100.0	60
Cross River	97.8	2.2	100.0	73
Delta	97.2	2.8	100.0	185
Edo	95.9	4.1	100.0	65
Rivers	99.6	0.4	100.0	252
South West	00.4	7.0	400.0	0.5
Ekiti	92.1	7.9	100.0	95 563
Lagos	99.3	0.7	100.0	562
Ogun	86.1	13.9	100.0	236
Ondo	88.5	11.5	100.0	126
Osun Oyo	97.2 94.1	2.8 5.9	100.0 100.0	188 302
Education	-			
No education	75.2	24.8	100.0	1,665
Primary	86.1	13.9	100.0	1,133
Secondary	92.5	7.5	100.0	2,752
More than secondary	92.9	7.1	100.0	1,235
				,

Continued...

Table 4.2.2—Continued				
	Number	of wives		
Background characteristic	1	2+	Total	Number of men
Wealth quintile				
Lowest	78.9	21.1	100.0	1,106
Second	78.0	22.0	100.0	1,203
Middle	85.8	14.2	100.0	1,360
Fourth	92.7	7.3	100.0	1,445
Highest	95.9	4.1	100.0	1,672
Total 15-49	87.3	12.7	100.0	6,786
50-59	75.4	24.6	100.0	1,395
Total 15-59	85.2	14.8	100.0	8,180

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 4.3 Age at first marriage

Percentage of women and men age 15-49 who were first married by specific exact ages and median age at first marriage, according to current age, Nigeria DHS 2018

	Percentage first married by exact age:					Percentage	Number of	Median age at
Current age	15	18	20	22	25	never married	respondents	first marriage
				WOMEN				
15-19	8.3	na	na	na	na	76.6	8,448	а
20-24	15.7	43.4	56.2	na	na	33.5	6,835	19.0
25-29	17.7	42.8	56.7	67.8	80.6	13.3	7,255	19.0
30-34	18.9	43.4	53.5	63.3	75.6	7.3	6,178	19.3
35-39	15.3	39.4	52.4	62.5	73.2	4.0	5,463	19.6
40-44	20.9	44.6	56.1	67.1	79.4	2.1	3,940	18.9
45-49	21.3	46.4	59.6	68.6	78.9	1.8	3,701	18.5
20-49	17.9	43.1	55.5	na	na	12.2	33,373	19.1
25-49	18.5	43.0	55.4	65.7	77.5	6.7	26,537	19.1
				MEN				
15-19	0.0	na	na	na	na	99.7	2,415	а
20-24	0.0	3.2	8.0	na	na	83.8	1,472	а
25-29	0.0	3.1	7.9	16.6	36.7	49.4	1,599	а
30-34	0.0	3.7	9.4	18.8	38.7	19.6	1,792	26.5
35-39	0.0	4.3	9.9	19.1	33.6	5.8	1,832	27.7
40-44	0.0	4.0	9.4	17.2	32.7	2.6	1,569	28.0
45-49	0.1	3.4	9.8	17.2	29.9	1.9	1,188	28.4
20-49	0.0	3.7	9.1	na	na	26.9	9,453	а
25-49	0.0	3.7	9.3	17.8	34.6	16.4	7,980	а
30-59	0.1	3.9	9.7	18.1	33.3	6.8	7,824	27.7

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

na = Not applicable due to censoring

a = Omitted because less than 50% of the women or men began living with their spouse or partner for the first time before reaching the beginning of the age group

Table 4.4 Median age at first marriage by background characteristics

Median age at first marriage among women age 20-49 and age 25-49, and median age at first marriage among men age 30-59, according to background characteristics, Nigeria DHS 2018

Pookground	Wome	Men age	
Background characteristic	20-49	25-49	30-59
Residence Urban Rural	a 17.2	21.6 17.2	29.4 26.0
Zone North Central North East North West South East South South South West	19.2 16.7 15.9 a a a	19.0 16.6 15.8 23.6 22.5 23.3	27.9 25.2 25.3 a 29.9 29.0
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger	a 19.2 19.6 a 19.4 17.7	21.5 19.0 19.6 21.1 19.1 17.5	29.8 28.6 28.1 28.3 27.8 26.9
Plateau North East Adamawa Bauchi Borno Gombe Taraba Yobe	19.8 19.2 15.5 17.5 15.9 18.0 15.9	19.6 19.2 15.5 17.4 15.8 18.0 15.9	27.7 27.0 24.6 25.9 23.6 26.3 24.2
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	15.8 16.6 16.0 15.5 15.8 15.9	15.7 16.7 15.9 15.3 15.7 15.9	23.6 25.5 26.1 25.6 21.6 25.8 26.7
South East Abia Anambra Ebonyi Enugu Imo	a a a a	25.0 23.5 21.0 23.2 a	a a 28.2 29.7 a
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	a a a a a	21.8 20.5 22.4 22.2 21.7 24.2	29.6 26.0 28.8 28.8 29.1
South West Ekiti Lagos Ogun Ondo Osun Oyo	a a a a a	21.5 a 23.0 21.4 21.5 22.4	29.0 a 26.9 27.4 27.7 28.2
Education No education Primary Secondary More than secondary	15.8 18.0 a a	15.9 18.2 21.9 a	24.7 26.9 28.2 a
Wealth quintile Lowest Second Middle Fourth Highest	15.8 16.5 18.5 a a	15.9 16.5 18.5 20.5 24.3	24.6 25.3 26.8 28.4 a
Total	19.1	19.1	27.7

Note: The age at first marriage is defined as the age at which the respondent began living with her/his first spouse/partner.

a = Omitted because less than 50% of the respondents began living with their spouse/partner for the first time before reaching the beginning of the age group

Table 4.5 Age at first sexual intercourse

Percentage of women and men age 15-49 who had first sexual intercourse by specific exact ages, percentage who never had sexual intercourse, and median age at first sexual intercourse, according to current age, Nigeria DHS 2018

		Percentage who ha	d first sexual inter	course by exact age	e:	Percentage who		
Current age	15	18	20	22	25	never had intercourse	Number	Median age at first intercourse
				WOMEN				
15-19	8.6	na	na	na	na	64.6	8,448	а
20-24	15.8	55.9	74.7	na	na	14.2	6,835	17.4
25-29	16.6	54.6	72.9	86.1	92.6	2.9	7,255	17.5
30-34	19.4	56.8	72.5	83.2	90.6	0.9	6,178	17.2
35-39	17.3	56.0	72.4	85.0	91.2	0.5	5,463	17.4
40-44	22.2	59.6	75.9	86.2	91.4	0.2	3,940	16.9
45-49	23.4	63.2	78.0	88.1	92.3	0.1	3,701	16.6
20-49	18.5	57.1	74.0	na	na	3.8	33,373	17.3
25-49	19.2	57.3	73.9	85.5	91.6	1.1	26,537	17.2
15-24	11.8	na	na	na	na	42.1	15,284	а
				MEN				
15-19	2.4	na	na	na	na	90.2	2,415	а
20-24	2.2	13.8	30.6	na	na	53.2	1,472	а
25-29	2.2	15.0	31.3	49.5	68.9	21.5	1,599	22.1
30-34	3.6	13.7	29.7	51.3	70.4	6.5	1,792	21.8
35-39	3.6	16.5	31.8	54.2	71.3	1.7	1,832	21.5
40-44	2.8	13.8	28.6	52.7	71.2	0.6	1,569	21.7
45-49	3.4	13.0	28.6	51.2	68.2	0.7	1,188	21.8
20-49	3.0	14.4	30.2	na	na	13.7	9,453	а
25-49	3.1	14.5	30.1	51.9	70.1	6.4	7,980	21.7
15-24	2.3	na	na	na	na	76.2	3,888	а
25-59	3.0	14.1	29.5	na	na	5.4	9,423	21.8
30-59	3.2	13.9	29.1	51.9	70.1	2.2	7,824	21.7

na = Not applicable due to censoring a = Omitted because less than 50% of the respondents had sexual intercourse for the first time before reaching the beginning of the age group

Table 4.6 Median age at first sexual intercourse according to background characteristics

Median age at first sexual intercourse among women age 20-49 and age 25-49, and median age at first sexual intercourse among men age 25-59 and age 30-59, according to background characteristics, Nigeria DHS 2018

Dockground	ackground Women age			Men age			
Background characteristic	20-49	25-49	25-59	30-59			
Residence							
Urban	18.6	18.6	21.4	21.5			
Rural	16.1	16.0	22.2	22.1			
Zone	47.5	47.4	00.5	00.5			
North Central North East	17.5 16.0	17.4 15.9	22.5 23.1	22.5 23.0			
North West	15.8	15.7	24.4	24.4			
South East	19.0	19.0	20.8	20.8			
South South South West	17.9 19.3	17.9 19.4	19.6 20.8	19.6 20.9			
	19.5	13.4	20.0	20.3			
State North Central							
FCT-Abuja	18.2	18.2	20.8	20.7			
Benue	16.7	16.6	22.1	22.2			
Kogi Kwara	17.3 18.5	17.2 18.5	19.3 20.5	20.0 20.6			
Nasarawa	18.2	18.2	22.3	22.2			
Niger	17.0	16.8	24.0	23.9			
Plateau	18.2	18.2	а	25.7			
North East							
Adamawa Bauchi	17.1 15.5	17.0 15.4	20.2 23.4	20.4 23.5			
Borno	17.5	17.3	23.4	22.3			
Gombe	15.9	15.8	23.4	22.8			
Taraba	16.0	15.9	21.0	21.2			
Yobe	15.7	15.6	а	25.2			
North West	15.0	15.7	22.5	23.3			
Jigawa Kaduna	15.8 15.8	15.7 15.8	23.5 22.3	23.3 22.5			
Kano	16.0	15.8	25.0	24.6			
Katsina	15.5	15.3	а	25.8			
Kebbi Sokoto	15.9 15.7	15.8 15.6	21.9 a	21.5 25.5			
Zamfara	15.6	15.5	a	26.4			
South East							
Abia	18.8	18.7	20.4	20.4			
Anambra	19.2	19.3	21.3	21.6			
Ebonyi Enugu	18.1 a	18.0 20.3	19.0 21.0	19.0 21.1			
Imo	19.3	19.3	21.4	21.1			
South South							
Akwa Ibom	17.4	17.0	22.3	22.8			
Bayelsa	16.3	16.3	18.3	18.4			
Cross River Delta	17.5 17.9	17.3 17.8	19.2 20.8	19.8 20.8			
Edo	18.5	18.5	19.4	19.7			
Rivers	18.1	18.2	17.1	17.2			
South West							
Ekiti	18.8	18.9	19.3	19.7			
Lagos Ogun	20.0 19.3	20.1 19.6	20.3 a	20.3 25.6			
Ondo	18.3	18.1	19.5	19.7			
Osun	18.8	18.8	20.1	20.2			
Oyo	18.7	19.0	23.1	23.2			
Education	45.0	45.0	00.4	00.0			
No education Primary	15.6 16.6	15.6 16.8	23.1 21.5	23.0 21.4			
Secondary	18.6	18.6	20.9	20.9			
More than secondary	а	20.6	22.5	22.5			
Wealth quintile							
Lowest	15.6	15.5	23.1	22.9			
Second Middle	15.9 17.0	15.8 16.9	22.2 21.7	21.9 21.8			
Fourth	18.2	18.1	21.7	21.4			
Highest	19.8	19.7	21.3	21.4			
Total	17.3	17.2	21.8	21.7			

a = Omitted because less than 50% of the respondents had intercourse for the first time before reaching the beginning of the age group $\,$

Table 4.7.1 Recent sexual activity: Women

Percent distribution of women age 15-49 by timing of last sexual intercourse, according to background characteristics, Nigeria DHS 2018

David and a state of		of last sexual in	tercourse	Maria de la compa		
Background characteristic	Within the past 4 weeks	Within 1 year ¹	One or more years	Never had sexual intercourse	Total	Number of women
		. ,				
Age 15-19	22.7	9.5	3.2	64.6	100.0	8,448
20-24	58.6	20.2	7.0	14.2	100.0	6,835
25-29	70.8	19.4	6.9	2.9	100.0	7,255
30-34	70.8	18.3	8.0	0.9	100.0	6,178
35-39	72.2	18.1	9.3	0.5	100.0	5,463
40-44	69.7	18.3	11.8	0.2	100.0	3,940
45-49	58.8	20.0	21.1	0.1	100.0	3,701
Marital status						
Never married	11.6	15.9	8.7	63.8	100.0	10,550
Married or living together	78.7	16.9	4.4	0.0	100.0	29,090
Divorced/separated/widowed	13.9	25.6	60.4	0.0	100.0	2,181
Marital duration ²						
0-4 years	78.2	18.9	2.9	0.0	100.0	5,709
5-9 years	79.5	16.9	3.6	0.0	100.0	6,011
10-14 years	79.5	16.2	4.3	0.0	100.0	4,586
15-19 years	80.0	15.9	4.1	0.0	100.0	4,048
20-24 years	77.7	17.2	5.1	0.0	100.0	2,818
25+ years	73.8	18.2	7.9	0.0	100.0	2,992
Married more than once	80.9	14.4	4.7	0.0	100.0	2,925
Residence						
Urban	51.2	18.4	10.0	20.3	100.0	19,163
Rural	64.4	16.0	7.0	12.6	100.0	22,658
Zone						
North Central	53.0	19.9	11.6	15.5	100.0	5,891
North East	65.7	11.1	6.0	17.1	100.0	6,636
North West	70.7	10.1	3.7	15.5	100.0	12,225
South East	40.0	25.4	15.8	18.7	100.0	4,963
South South	51.6	24.6	9.8	13.9	100.0	4,963 4,840
			9.6 9.7			
South West	52.2	21.6	9.7	16.4	100.0	7,266
State						
North Central						
FCT-Abuja	49.7	19.5	11.2	19.6	100.0	319
Benue	55.0	19.9	11.0	14.1	100.0	1,354
Kogi	43.3	28.9	13.8	14.0	100.0	654
Kwara	46.8	22.9	12.7	17.6	100.0	684
Nasarawa	59.8	13.6	8.4	18.2	100.0	648
Niger	61.3	16.0	10.0	12.7	100.0	1,357
Plateau	45.6	21.6	15.1	17.7	100.0	875
North East						
Adamawa	69.0	13.0	5.9	12.1	100.0	903
Bauchi	73.5	10.6	4.1	11.8	100.0	1,343
Borno	56.7	11.7	7.0	24.6	100.0	1,469
Gombe	68.3	9.2	5.9	16.6	100.0	717
Taraba	63.2	16.2	7.0	13.6	100.0	877
Yobe	66.0	7.3	6.5	20.2	100.0	1,327
North West						
Jigawa	76.4	8.4	1.8	13.5	100.0	1,382
Kaduna	71.2	11.2	3.9	13.7	100.0	2,493
Kano	67.0	10.8	3.9	18.4	100.0	2,493
Katsina	66.5	10.2	4.5	18.7	100.0	2,283
Kebbi	74.0	9.1	3.0	13.9	100.0	1,136
Sokoto	74.0 74.2	10.6	3.0 4.1	13.9	100.0	910
Zamfara	74.2 73.9	8.9	3.8	13.5	100.0	1,328
	10.0	0.0	5.0	10.0	100.0	1,020
South East	45.0	25.2	44.0	17.7	100.0	630
Abia	45.8	25.2	11.3	17.7	100.0	630
Anambra	44.1	28.0	11.9	16.0	100.0	1,477
Ebonyi	32.5	21.7	24.7	21.1	100.0	1,027
Enugu	33.7	26.3	17.7 13.7	22.3	100.0	880 948
Imo	44.0	24.7	13.7	17.6	100.0	940
South South	40.0	66.6	40.0	4- 4	400 -	A :-
Akwa Ibom	42.9	29.8	12.2	15.1	100.0	948
Bayelsa	62.0	18.2	6.2	13.6	100.0	298
Cross River	46.0	27.9	14.1	12.1	100.0	574
Delta	53.5	22.7	8.0	15.8	100.0	931
Edo	50.7	19.4	13.9	16.0	100.0	555
Rivers	56.4	24.5	7.1	12.0	100.0	1,534

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	Timing of	tercourse				
Background characteristic	Within the past 4 weeks	Within 1 year ¹	One or more years	Never had sexual intercourse	Total	Number of women
South West						
Ekiti	44.0	28.4	13.4	14.2	100.0	475
Lagos	51.2	20.2	8.6	20.0	100.0	2,891
Ogun	54.7	19.8	12.9	12.6	100.0	927
Ondo	40.5	32.6	12.3	14.6	100.0	683
Osun	50.1	20.5	11.9	17.4	100.0	938
Oyo	62.9	18.7	5.9	12.5	100.0	1,352
Education						
No education	74.8	12.8	6.3	6.1	100.0	14,603
Primary	58.0	18.7	13.5	9.8	100.0	6,039
Secondary	44.8	19.2	8.1	27.9	100.0	16,583
More than secondary	55.7	21.3	9.2	13.9	100.0	4,596
Wealth quintile						
Lowest	70.3	13.0	6.3	10.5	100.0	7,222
Second	64.9	14.9	7.7	12.5	100.0	8,045
Middle	55.5	18.4	9.9	16.2	100.0	8,207
Fourth	52.3	19.5	9.6	18.6	100.0	8,990
Highest	51.9	18.9	8.1	21.0	100.0	9,357
Total	58.4	17.1	8.4	16.1	100.0	41,821

 $^{^{\}rm 1}$ Excludes women who had sexual intercourse within the last 4 weeks $^{\rm 2}$ Excludes women who are not currently married

Table 4.7.2 Recent sexual activity: Men

Percent distribution of men age 15-49 by timing of last sexual intercourse, according to background characteristics, Nigeria DHS 2018

	Timing of last sexual intercourse					
Background characteristic	Within the past 4 weeks	Within 1 year ¹	One or more years	Never had sexual intercourse	Total	Number of men
	· ········	. you.	one or more years			
Age 15-19	3.0	5.2	1.6	90.2	100.0	2,415
20-24	26.4	15.2	5.2	53.2	100.0	
		18.7				1,472
25-29	55.4		4.5	21.5	100.0	1,599
30-34	73.7	16.2	3.6	6.5	100.0	1,792
35-39	79.7	15.3	3.3	1.7	100.0	1,832
40-44	82.3	14.3	2.8	0.6	100.0	1,569
45-49	83.4	13.0	2.9	0.7	100.0	1,188
Marital status						
Never married	13.1	12.4	4.5	70.0	100.0	4,951
Married or living together	84.4	13.8	1.8	0.0	100.0	6,786
Divorced/separated/widowed	27.1	34.6	38.3	0.0	100.0	131
·		00	00.0	0.0	.00.0	
Marital duration ²	00.0	45.0	4.0	0.4	400.0	4.000
0-4 years	82.9	15.2	1.8	0.1	100.0	1,609
5-9 years	83.7	14.6	1.7	0.0	100.0	1,712
10-14 years	84.1	14.2	1.7	0.0	100.0	1,249
15-19 years	86.0	12.0	2.0	0.0	100.0	966
20-24 years	87.1	10.7	2.2	0.0	100.0	479
25+ years	85.1	10.9	4.1	0.0	100.0	192
Married more than once	86.0	13.3	0.7	0.0	100.0	580
Residence						
Urban	53.2	16.1	3.5	27.2	100.0	5,512
Rural	54.7	11.1	3.1	31.0	100.0	6,356
						-,
Zone	- 4.0	44.0	0.0		400.0	4 = 0.4
North Central	51.8	14.6	3.6	30.0	100.0	1,704
North East	52.2	8.1	2.2	37.5	100.0	1,936
North West	51.3	4.8	1.5	42.5	100.0	3,195
South East	54.0	19.9	6.4	19.7	100.0	1,355
South South	61.0	18.1	4.1	16.9	100.0	1,438
South West	56.6	22.7	4.3	16.4	100.0	2,240
State						
North Central						
FCT-Abuja	51.3	11.4	5.6	31.8	100.0	96
Benue	51.0	18.6	3.8	26.5	100.0	351
	42.3	31.8	9.3	16.5	100.0	156
Kogi						
Kwara	47.7	22.0	4.9	25.5	100.0	208
Nasarawa	52.0	12.9	1.5	33.7	100.0	206
Niger	60.4	6.7	1.9	30.9	100.0	442
Plateau	47.3	8.4	2.5	41.8	100.0	246
North East						
Adamawa	54.9	23.0	6.3	15.7	100.0	218
Bauchi	56.6	5.7	0.8	36.9	100.0	420
Borno	55.6	12.6	1.4	30.5	100.0	398
Gombe	46.1	2.5	1.9	49.6	100.0	240
Taraba	60.1	11.3	2.6	26.0	100.0	187
Yobe	44.0	1.3	2.3	52.3	100.0	472
North Mont						
North West	E2 E	7.0	2.0	27.2	100.0	201
Jigawa	53.5	7.3	2.0	37.3	100.0	291
Kaduna	63.6	5.1	1.9	29.4	100.0	636
Kano	44.6	3.0	2.2	50.3	100.0	676
Katsina	44.5	4.6	0.2	50.7	100.0	687
Kebbi	53.6	6.2	1.9	38.3	100.0	291
Sokoto	46.1	8.7	2.4	42.8	100.0	218
Zamfara	54.2	2.6	0.5	42.7	100.0	396
South East						
Abia	51.4	18.8	11.1	18.7	100.0	185
Anambra	57.2	22.3	5.4	15.1	100.0	409
Ebonyi	45.7	24.7	8.4	21.2	100.0	233
Enugu	59.5	11.7	4.9	23.9	100.0	192
Imo	59.5 54.2	19.1	4.6	22.1	100.0	337
	UT.4	10.1	-∓.∪	<i>LL</i> . I	100.0	331
South South						
Akwa Ibom	52.0	24.8	6.4	16.8	100.0	291
Bayelsa	65.0	17.3	3.3	14.4	100.0	109
Cross River	43.5	27.6	10.9	18.0	100.0	137
Delta	65.5	9.1	0.3	25.2	100.0	326
Edo	48.9	21.5	6.2	23.4	100.0	140
Rivers	72.1	16.4	2.8	8.8	100.0	435

Continued...

	Timing of last sexual intercourse					
Background characteristic	Within the past 4 weeks	Within 1 year ¹	One or more years	Never had sexual intercourse	Total	Number of men
South West						
Ekiti	60.3	21.1	3.4	15.2	100.0	139
Lagos	57.8	24.2	4.7	13.4	100.0	845
Ogun	63.7	16.4	1.9	18.0	100.0	309
Ondo	43.8	29.6	8.6	17.9	100.0	247
Osun	52.4	30.1	2.5	15.0	100.0	269
Oyo	58.2	16.2	4.1	21.5	100.0	432
Education						
No education	61.2	6.6	1.9	30.3	100.0	2,555
Primary	60.7	13.5	4.5	21.3	100.0	1,590
Secondary	47.1	14.8	3.2	34.9	100.0	5,697
More than secondary	59.1	18.3	4.4	18.1	100.0	2,025
Wealth quintile						
Lowest	51.3	7.4	2.9	38.5	100.0	1,991
Second	52.3	10.7	2.4	34.7	100.0	2,123
Middle	53.0	13.9	3.5	29.7	100.0	2,393
Fourth	52.8	16.8	3.5	26.9	100.0	2,590
Highest	59.3	16.4	4.0	20.2	100.0	2,770
Total 15-49	54.0	13.5	3.3	29.2	100.0	11,868
50-59	75.4	17.5	6.8	0.2	100.0	1,443

3.7

26.1

100.0

13,311

56.3

13.9

Total 15-59

 $^{^{\}rm 1}$ Excludes men who had sexual intercourse within the last 4 weeks $^{\rm 2}$ Excludes men who are not currently married

Key Findings

- **Total fertility rate:** The total fertility rate for the 3 years preceding the survey is 5.3 children per woman (4.5 in urban areas and 5.9 in rural areas).
- Fertility patterns: Fertility decreases with increasing education and wealth.
- Age at first birth: The median age at first birth among women age 25-49 is 20.4 years. This means that half of women age 25-49 give birth for the first time before age 21.
- Birth intervals: The median birth interval in Nigeria is 30.9 months. Twenty-five percent of non-first births occur within 2 years after the preceding birth. Almost 4 in 10 births (38%) occur 24-35 months after the previous birth.
- Teenage childbearing: 19% of teenage women age 15-19 have begun childbearing; 14% have given birth, and 4% are pregnant with their first child.

he number of children that a woman bears depends on many factors, including the age she begins childbearing, how long she waits between births, and her fecundity. Postponing first births and extending the interval between births have played a role in reducing fertility levels in many countries. These factors also have positive health consequences. In contrast, short birth intervals (of less than 24 months) can lead to harmful outcomes for both newborns and their mothers, such as preterm birth, low birth weight, and death. Childbearing at a very young age is associated with an increased risk of complications during pregnancy and childbirth and higher rates of neonatal mortality.

This chapter describes the current level of fertility in Nigeria and some of its proximate determinants. It presents information on the total fertility rate, birth intervals, insusceptibility to pregnancy (due to postpartum amenorrhoea, postpartum abstinence, or menopause), age at first birth, and teenage childbearing.

5.1 CURRENT FERTILITY

Total fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current age-specific fertility rates. Age-specific fertility rates are calculated for the 3 years before the survey, based on detailed birth histories provided by women.

Sample: Women age 15-49

The total fertility rate (TFR) in Nigeria is 5.3 children per woman. The age-specific fertility rate in the 15-19 age group is 106 births per 1,000 women; the rate peaks in the 25-29 age group (256 births per 1,000 women) and drops thereafter, to 23 births per 1,000 women in the 45-49 age group. Age-specific fertility

rates are lower in urban areas than in rural areas among women in all age groups (**Table 5.1** and **Table 5.3.1**). On average, rural women have 1.4 more children than urban women (5.9 versus 4.5 children) (**Table 5.1**).

Trends: There has been a gradual decline in the TFR over time, from 6.0 children per woman in 1990 to 5.3 in 2018. There has been a similar decline among women in both rural areas (from 6.3 to 5.9) and urban areas (from 5.0 to 4.5) during the same period (**Figure 5.1**). In the last three NDHS surveys (2008, 2013, and 2018), the age-specific fertility rate has been highest among women age 25-29 (**Table 5.3.2** and **Figure 5.2**).

Figure 5.2 Trends in age-specific fertility

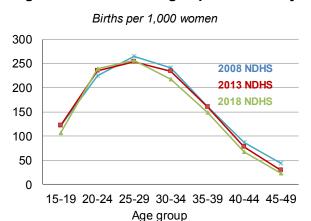


Figure 5.1 Trends in fertility by residence

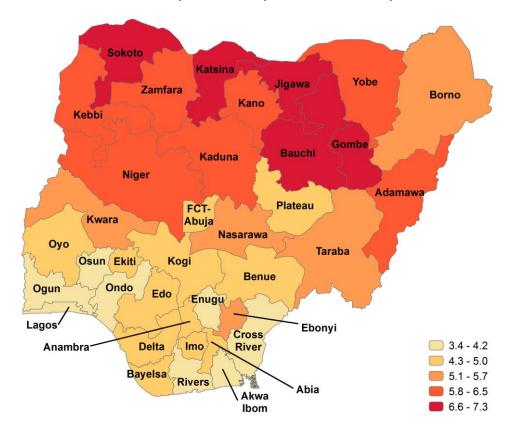
TFR for the 3 years before each survey



1990 2003 2008 2013 2018 NDHS NDHS NDHS NDHS NDHS

Figure 5.3 Fertility by state

Total fertility rate for the 3 years before the survey



Patterns by background characteristics

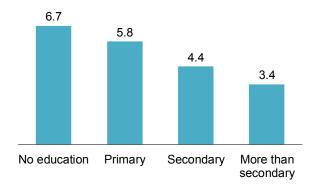
- The TFR is highest in the North West (6.6 children per woman) and lowest in the South West (3.9 children per woman) (**Table 5.2**). By state, it ranges from 3.4 children per woman in Lagos to 7.3 children per woman in Katsina (**Figure 5.3**).
- The number of children per woman declines with increasing education. Women with no education have 3.3 more children than women with more than a secondary education (6.7 children versus 3.4 children) (Figure 5.4).
- The number of children per woman also declines with increasing wealth, from 6.7 among those in the lowest wealth quintile to 3.8 among those in the highest quintile.
- The mean number of children ever born to women age 40-49 is nearly twice as high in the North West as in the South West (8.3 versus 4.4) (**Table 5.2**).

5.2 CHILDREN EVER BORN AND LIVING

The 2018 NDHS also collected information on the number of children ever born to women age 15-49 and those still surviving by the time of the survey. Women have a mean of 3.0 children overall and a

Figure 5.4 Fertility by mother's education

TFR for the 3 years before the survey



mean of 2.6 surviving children (a difference of 0.4). Among married women, the corresponding numbers are 4.0 children and 3.4 children (a difference of 0.6). On average, women age 45-49 have given birth to 6.4 children, of whom 5.2 survived to the time of the survey (**Table 5.4**). Of the 6.7 children on average born to currently married women age 45-49, 5.4 survived to the time of the survey. In Nigeria, 2% of currently married women age 45-49 have never given birth. Since voluntary childlessness is rare, this is often viewed as a measure of primary sterility (**Table 5.4**).

5.3 BIRTH INTERVALS

Median birth interval

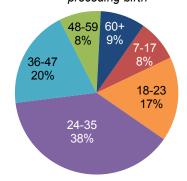
Number of months since the preceding birth by which half of children are born. *Sample:* Non-first births in the 5 years before the survey

Short birth intervals, particularly those less than 24 months, place newborns and their mothers at increased health risk. The median birth interval in Nigeria is 30.9 months. Twenty-five percent of nonfirst births occur within 2 years after the preceding birth (**Table 5.5**). Almost 4 in 10 births (38%) occur 24-35 months after the previous birth (**Figure 5.5**).

Trends: There have been no substantial differences in median birth intervals over the last 18 years. Median intervals were 30.2 months in 1990, 31.7 months in 2003, 33.4 months in 2008, 31.7 months in 2013, and 30.9 months in 2018.

Figure 5.5 Birth intervals

Percent distribution of non-first births by number of months since the preceding birth



Patterns by background characteristics

- Births to older women occur after longer intervals than births to younger women. The median birth interval among women age 40-49 is more than 10 months longer than the interval among women age 15-19 (37.3 months versus 26.9 months) (**Table 5.5**).
- The median birth interval is nearly 5 months longer if the child from the preceding birth is living than if the child has died. In contrast, there is no difference in the median birth interval by sex of the preceding child (**Table 5.5**).

5.4 INSUSCEPTIBILITY TO PREGNANCY

Postpartum amenorrhoea

The period of time after the birth of a child before the resumption of menstruation.

Postpartum abstinence

The period of time after the birth of a child before the resumption of sexual intercourse.

Postpartum insusceptibility

The period of time during which a woman is considered not at risk of pregnancy because she is postpartum amenorrhoeic and/or abstaining from sexual intercourse postpartum.

Sample: Women age 15-49

Median duration of postpartum amenorrhoea

Number of months after childbirth by which time half of women have begun menstruating.

Sample: Women who gave birth in the 3 years before the survey

Median duration of postpartum insusceptibility

Number of months after childbirth by which time half of women are no longer protected against pregnancy by either postpartum amenorrhoea or abstinence from sexual intercourse.

Sample: Women who gave birth in the 3 years before the survey

Postpartum amenorrhoea refers to the interval between the birth of a child and the resumption of menstruation. The length and intensity of breastfeeding influence the duration of amenorrhoea, which offers protection from conception. Postpartum abstinence refers to the period between childbirth and the time when a woman resumes sexual activity.

Following births in the 3 years preceding the survey, the median duration of postpartum amenorrhoea is 11.7 months, while the median duration of abstinence from sexual intercourse is 2.9 months. Overall, women are insusceptible to pregnancy after childbirth for a median duration of 12.7 months (**Table 5.6**).

Trends: In Nigeria, the median duration of postpartum amenorrhoea has declined steadily since 1990, from 14.7 months to 11.7 months. There has been a steeper decline in the median duration of postpartum abstinence (10.8 months in 1990 versus 2.9 months in 2018). Overall, the median duration of insusceptibility has declined from 19.2 months to 12.7 months.

Patterns by background characteristics

- The duration of postpartum insusceptibility is longest in the North West (16.0 months) and shortest in the South South (8.1 months). The reason is that the period of postpartum amenorrhoea is longer among women in the North West than among women in the South South (15.1 months and 6.8 months, respectively). The duration of postpartum abstinence is shortest in the North West and longest in the North Central (2.4 months and 5.4 months, respectively) (**Table 5.7**).
- The duration of postpartum amenorrhoea and the duration of postpartum insusceptibility decrease as mother's education increases.
- The duration of postpartum insusceptibility decreases with increasing wealth, from 17.3 months among women in the lowest quintile to 9.0 months among women in the highest quintile.

Menopause

Women are considered to have reached menopause if they are neither pregnant nor postpartum amenorrhoeic and have not had a menstrual period in the 6 months before the survey, if they report being menopausal or having had a hysterectomy, or if they have never menstruated.

Sample: Women age 30-49

Women who have reached menopause are no longer able to become pregnant. In Nigeria, 10% of women age 30-49 are menopausal. The percentage of menopausal women increases with age, from 1% among those age 30-34 to 51% among those age 48-49 (**Table 5.8**).

5.5 AGE AT FIRST BIRTH

Median age at first birth

Age by which half of women have had their first child.

Sample: Women age 20-49 and 25-49

The age at which childbearing commences is an important determinant of the overall level of fertility as well as the health and well-being of the mother and child. In Nigeria, the median age at first birth among women age 25-49 is 20.4 years. This means that half of women age 25-49 give birth for the first time before age 21 (**Table 5.9**). Seventy-five percent of women have given birth by age 25.

Patterns by background characteristics

- Urban women age 25-49 begin childbearing 3.3 years later than their peers in rural areas (22.3 years versus 19.0 years) (**Table 5.10**).
- The median age at first birth ranges from 18.1 years among women in the North West to 24.3 years among women in the South East.
- Women in Lagos begin childbearing 7.3 years later (24.8 years) than their counterparts in Katsina and Zamfara (17.5 years each).
- Women with no education begin childbearing 4.5 years earlier than women with a secondary education (18.0 years versus 22.5 years).
- Women in the highest wealth quintile start childbearing 6.7 years later than women in the lowest quintile (24.8 years versus 18.1 years).

5.6 TEENAGE CHILDBEARING

Teenage childbearing

Percentage of women age 15-19 who have given birth or are pregnant with their first child.

Sample: Women age 15-19

Teenage pregnancy is a major health concern because of its association with higher morbidity and mortality for both the mother and the child. Childbearing during adolescence is known to have adverse social consequences, particularly regarding educational attainment, as women who become mothers in their teens are more likely to drop out of school. In Nigeria, 19% of women age 15-19 have begun childbearing; 14% have given birth, and 4% are pregnant with their first child (**Table 5.11**).

Trends: The percentage of teenagers who have given birth or are pregnant with their first child has decreased since 1990, from 28% to 19%.

Patterns by background characteristics

- Teenagers in rural areas are three times as likely to have begun childbearing as their urban peers; 27% of rural teenagers have had a live birth or are pregnant, as compared with 8% of urban teenagers (Table 5.11).
- Teenagers in the North West are almost five times as likely to have begun childbearing as their peers in the South West (29% versus 6%).

Sokoto Katsina Yobe **Jigawa** Zamfara Borno Kano Kebbi Gombe Bauchi Kaduna Niger Adamawa Plateau FCT-Kwara Abuja Nasarawa Oyo Taraba Osun Ekiti Kogi Benue Ondo Ogun Edo Enugu Lagos Ebonyi Cross Anambra Delta 1% - 9% Imo River 10% - 17% Bayelsa 18% - 25% Rivers Abia 26% - 33% Akwa 34% - 41% **Ibom**

Figure 5.6 Teenage pregnancy and motherhood by state

Percentage of women age 15-19 who have begun childbearing

- Only 1% of teenagers in Lagos have begun childbearing, compared with 41% of their peers in Bauchi (**Figure 5.6**).
- Teenage childbearing decreases with increasing education. The percentage of teenagers who have begun childbearing rises from 1% among those with more than a secondary education to 23% among those with a primary education and 44% among those with no education.
- Teenage childbearing is less common in the wealthiest households: 3% of women in the highest wealth quintile have begun childbearing, as compared with 32% of those in the lowest quintile.

The tendency to initiate sexual intercourse before age 15 is higher among women than men (9% versus 2%). Eight percent of women age 15-19 were married by age 15, and 1% had given birth by that age. No men reported fathering a child before age 15 (**Table 5.12**).

LIST OF TABLES

For more information on fertility levels and some of the determinants of fertility, see the following tables:

•	Table 5.1	Current fertility
•	Table 5.2	Fertility by background characteristics
•	Table 5.3.1	Trends in age-specific fertility rates
•	Table 5.3.2	Trends in age-specific and total fertility rates
•	Table 5.4	Children ever born and living
•	Table 5.5	Birth intervals
•	Table 5.6	Postpartum amenorrhoea, abstinence, and insusceptibility
•	Table 5.7	Median duration of amenorrhoea, postpartum abstinence, and postpartum
		insusceptibility
•	Table 5.8	Menopause
•	Table 5.9	Age at first birth
•	Table 5.10	Median age at first birth
•	Table 5.11	Teenage pregnancy and motherhood
•	Table 5.12	Sexual and reproductive health behaviours before age 15

Table 5.1 Current fertility

Age-specific and total fertility rates, the general fertility rate, and the crude birth rate for the 3 years preceding the survey, by residence, Nigeria DHS 2018 $\,$

	Resid		
Age group	Urban	Rural	Total
10-14 15-19 20-24 25-29 30-34 35-39 40-44	[0] 58 199 236 194 137 57	[3] 144 269 273 239 161 75	[2] 106 239 256 217 149 67
45-49	[18]	[26]	[23]
TFR (15-49) GFR CBR	4.5 154 34	5.9 206 42	5.3 182 38

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates for the 45-49 age group may be slightly biased due to truncation. Rates are for the period 1-36 months preceding the interview. Rates for the 10-14 age group are based on retrospective data from women age 15-17. TFR: Total fertility rate, expressed per woman GFR: General fertility rate, expressed per 1,000 women age 15-44 CBR: Crude birth rate, expressed per 1,000 population

Table 5.2 Fertility by background characteristics

Total fertility rate for the 3 years preceding the survey, percentage of women age 15-49 currently pregnant, and mean number of children ever born to women age 40-49, according to background characteristics, Nigeria DHS 2018

Background characteristic	Total fertility rate	Percentage of women age 15-49 currently pregnant	Mean number of children ever born to women age 40-49
Residence			
Urban	4.5	7.9	5.3
Rural	5.9	12.0	6.8
Zone			
North Central	5.0	10.6	5.8
North East	6.1	12.0	7.2
North West	6.6	13.6	8.3
South East	4.7	7.8	4.7
South South	4.0	6.5	4.6
South West	3.9	6.2	4.4
State			
North Central			
FCT-Abuja	4.3	6.2	4.8
Benue	4.5	9.9	5.4
Kogi	4.8	11.0	5.8
Kwara	5.2	10.0	5.4
Nasarawa	5.3	8.1	6.2
Niger	5.8	12.3	6.4
Plateau	4.7	12.4	6.0
North East			
Adamawa	6.1	9.8	6.2
Bauchi	7.2	15.9	8.1
Borno	5.2	12.0	6.4
Gombe	6.6	11.2	7.7
Taraba	5.4	10.7	6.6
Yobe	5.9	11.2	8.0
North West			
Jigawa	7.1	15.2	9.2
Kaduna	5.9	11.3	7.1
Kano	6.5	15.2	8.0
Katsina	7.3	12.4	9.2
Kebbi	6.5	14.5	9.2
Sokoto Zamfara	7.0 6.4	14.5 13.7	8.0 7.6
	0.4	13.7	7.0
South East			
Abia	4.9	5.8	4.1
Anambra	4.7 5.4	8.2	4.5 5.7
Ebonyi Enugu	5.4 4.1	8.8 6.6	5.7 4.8
Imo	4.5	8.6	4.3
	4.0	0.0	4.0
South South	0.0	5 0	4.0
Akwa Ibom	3.6	5.9	4.8
Bayelsa Cross River	4.4 3.7	8.2 4.3	3.8 5.1
Delta	3.7 4.4	4.3 8.8	4.7
Edo	4.8	8.0	5.2
Rivers	3.9	5.5	4.1
	0.0	0.0	
South West	4.0	0.5	5 4
Ekiti	4.6 3.4	6.5 5.7	5.1 3.7
Lagos Ogun	3.8	6.3	3. <i>1</i> 4.1
Ondo	4.1	7.7	5.1
Osun	3.8	5.4	4.9
Oyo	4.5	7.0	4.7
-			
Education No education	6.7	14.1	7.6
Primary	6.7 5.8	9.0	7.6 6.0
Secondary	4.4	8.0	4.5
More than secondary	3.4	7.1	3.6
-	~	• • •	0.0
Wealth quintile Lowest	6.7	13.8	7.7
Second	6. <i>7</i>	13.8	7.7 7.2
Middle	5.6	12.6	7.2 6.2
Fourth	4.6	7.9	5.5
Highest	3.8	6.7	4.2
_			
Total	5.3	10.1	6.1

Note: Total fertility rates are for the period 1-36 months preceding the interview.

Table 5.3.1 Trends in age-specific fertility rates

Age-specific fertility rates for 5-year periods preceding the survey, according to age group, Nigeria DHS 2018 $\,$

_	Number of years preceding survey						
Age group	0-4	5-9	10-14	15-19			
10-14	[2]	[9]	[11]	[14]			
15-19	118	141	140	137			
20-24	249	258	241	248			
25-29	265	279	277	286			
30-34	228	255	255	[279]			
35-39	156	185	[208]				
40-44	73	[103]					
45-49	[24]						

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates exclude the month of the interview. For the 0-4 year period, rates for the 10-14 age group are based on retrospective data from women age 15-19.

Table 5.3.2 Trends in age-specific and total fertility rates

Age-specific and total fertility rates for the 3-year period preceding several surveys, according to mother's age at time of birth, Nigeria DHS 2018

	2003 NDHS	2008 NDHS	2013 NDHS	2018 NDHS
Mother's age at birth	2000 to 2003	2005 to 2008	2010 to 2013	2015 to 2018
10-14	[6]	[5]	[3]	[2]
15-19	126	121	122	106
20-24	229	225	235	239
25-29	274	265	253	256
30-34	244	241	234	217
35-39	168	161	160	149
40-44	72	87	78	67
45-49	[18]	[44]	[29]	[23]
TFR 15-49	5.7	5.7	5.5	5.3

Note: Age-specific fertility rates are per 1,000 women. Estimates in brackets are truncated. Rates exclude the month of the interview. Rates for the 10-14 age group are based on retrospective data from women age 15-19.

Table 5.4 Children ever born and living

Percent distribution of all women and currently married women age 15-49 by number of children ever born, mean number of children ever born, and mean number of living children, according to age group, Nigeria DHS 2018

				Nu	mber of	childre	n ever l	oorn						Mean number of	Mean number of
Age	0	1	2	3	4	5	6	7	8	9	10+	Total	Number of women	children ever born	living children
								ALL V	VOMEN						
15-19	85.6	11.5	2.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	8,448	0.18	0.16
20-24	37.0	23.9	22.3	11.7	4.1	8.0	0.2	0.0	0.0	0.0	0.0	100.0	6,835	1.25	1.11
25-29	14.9	14.0	19.4	19.4	15.8	10.1	4.7	1.3	0.2	0.1	0.0	100.0	7,255	2.65	2.32
30-34	8.2	8.9	13.3	14.5	15.0	14.2	11.6	8.4	3.9	1.4	0.7	100.0	6,178	3.89	3.37
35-39	5.1	5.4	9.1	12.9	13.5	14.3	11.4	10.4	8.4	4.9	4.5	100.0	5,463	4.88	4.20
40-44	3.4	3.8	6.4	8.9	11.6	13.3	13.0	10.0	8.7	8.3	12.6	100.0	3,940	5.86	4.91
45-49	2.9	2.8	5.7	7.4	10.7	12.3	12.8	10.2	9.2	8.0	18.0	100.0	3,701	6.36	5.19
Total	28.4	11.3	11.8	10.7	9.4	8.2	6.4	4.7	3.4	2.3	3.5	100.0	41,821	3.03	2.58
						C	URREI	NTLY M	ARRIE	NOM C	1EN				
15-19	43.5	44.1	11.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	1,927	0.70	0.62
20-24	10.2	31.0	33.1	17.8	6.2	1.2	0.3	0.0	0.0	0.0	0.0	100.0	4,362	1.84	1.62
25-29	4.7	13.8	21.7	22.2	18.4	11.8	5.6	1.5	0.3	0.1	0.0	100.0	6,060	3.03	2.66
30-34	3.3	7.7	13.8	15.0	16.1	15.2	12.8	9.4	4.4	1.6	0.7	100.0	5,417	4.21	3.64
35-39	2.4	4.4	8.4	13.1	13.9	15.0	12.1	11.1	9.3	5.4	4.9	100.0	4,841	5.15	4.44
40-44	2.3	2.8	6.0	8.6	11.8	12.9	13.0	10.8	9.3	9.0	13.5	100.0	3,457	6.09	5.09
45-49	2.1	2.4	5.1	6.5	10.1	11.7	12.6	10.2	9.7	8.7	20.8	100.0	3,026	6.67	5.38
Total	6.9	13.2	15.4	14.1	12.5	10.7	8.5	6.3	4.5	3.2	4.7	100.0	29,090	4.01	3.42

Table 5.5 Birth intervals

Percent distribution of non-first births in the 5 years preceding the survey by number of months since preceding birth, and median number of months since preceding birth, according to background characteristics, Nigeria DHS 2018

Background characteristic		1	Months since	preceding birt	h				number of months
	7-17	18-23	24-35	36-47	48-59	60+	- Total	Number of non-first births	since preceding birth
Mother's age									
15-19	12.0	25.2	46.3	13.7	2.5	0.2	100.0	268	26.9
20-29	9.7	19.4	42.1	18.2	6.3	4.3	100.0	11,709	28.8
30-39	7.5	15.2	36.9	20.8	9.2	10.5	100.0	12,329	32.3
40-49	5.5	11.6	30.2	20.4	12.3	20.0	100.0	3,192	37.3
Sex of preceding birth									
Male	7.8	16.9	38.5	19.8	7.9	9.1	100.0	13,908	30.9
Female	8.7	16.5	38.3	19.3	8.7	8.6	100.0	13,591	30.9
Survival of preceding birth									
Living	6.4	16.2	39.3	20.3	8.6	9.2	100.0	23,810	31.5
Dead	20.0	19.7	33.1	14.8	5.9	6.5	100.0	3,689	26.7
	20.0		00		0.0	0.0		0,000	
Birth order		4= 0		40.0			400.0		
2-3	8.7	17.6	38.4	19.0	7.6	8.7	100.0	11,545	30.4
4-6	7.7	15.7	38.6	19.7	8.7	9.7	100.0	10,507	31.4
7+	8.4	16.6	38.3	20.4	8.8	7.5	100.0	5,446	31.2
Residence									
Urban	8.0	16.3	36.9	19.1	8.8	10.9	100.0	10,308	31.2
Rural	8.4	16.9	39.3	19.8	7.9	7.6	100.0	17,191	30.7
Zone									
North Central	7.0	14.7	39.5	20.4	9.2	9.1	100.0	3,626	31.6
North East	9.1	16.5	39.9	19.9	7.9	6.7	100.0	5,177	30.4
North West	8.1	18.2	40.5	19.8	7.4	6.0	100.0	10,571	30.0
South East	10.6	20.7	39.4	14.6	6.2	8.5	100.0	2,630	28.0
South South	8.7	17.0	32.4	17.4	8.9	15.6	100.0	2,244	32.4
South West	6.4	10.6	31.6	22.8	11.5	17.1	100.0	3,249	36.6
State North Central						40.0	400.0		
FCT-Abuja	6.9	14.6	36.7	20.6	8.8	12.3	100.0	177	32.6
Benue	7.0	14.5	42.8	18.8	8.0	8.8	100.0	685	30.7
Kogi Kwara	7.4 4.8	16.0 13.7	36.6 38.8	17.9 21.0	12.7 10.9	9.3 10.7	100.0 100.0	361 439	31.8 32.5
Nasarawa	12.0	14.2	36.9	17.8	8.7	10.7	100.0	423	30.1
Niger	5.7	16.1	40.4	22.3	8.4	7.1	100.0	1,053	31.9
Plateau	7.3	12.8	39.2	22.1	9.1	9.6	100.0	488	32.1
		.2.0	00.2		· · ·	0.0		.00	02
North East		45.0	00.5	00.0	44.5	0.0	400.0	007	00.4
Adamawa	7.5	15.3	36.5	20.9	11.5	8.3	100.0	607	32.1
Bauchi	7.2	14.9	44.3	18.7	7.8	7.2	100.0	1,241	30.9
Borno Gombe	13.6 9.3	17.6 17.8	40.1 40.3	17.0 19.0	6.3 7.0	5.4 6.6	100.0 100.0	1,028 614	28.0 30.0
Taraba	4.8	15.2	36.5	24.2	9.0	10.2	100.0	605	33.5
Yobe	10.3	18.0	38.1	21.7	7.5	4.4	100.0	1,082	29.7
								.,	
North West	0.0	04.0	44.5	47.0	0.7	2.4	100.0	4.004	00.4
Jigawa	6.2	21.3	44.5	17.8	6.7	3.4	100.0	1,291	29.1
Kaduna Kano	11.7 6.6	18.1 18.4	36.3 41.4	18.2 20.6	7.6 7.1	8.1 5.9	100.0 100.0	1,940 2,306	29.0 30.3
Katsina	8.1	19.0	42.4	18.3	6.9	5.4	100.0	2,080	29.5
Kebbi	9.5	20.6	40.9	19.4	5.5	4.1	100.0	1,063	29.2
Sokoto	10.3	13.1	38.4	23.0	9.4	5.7	100.0	847	31.4
Zamfara	3.9	14.5	38.8	23.9	10.2	8.8	100.0	1,045	33.7
								,	
South East	40.0	40.0	07.0	40.7	4.0	0.0	400.0	200	07.4
Abia	13.6	18.8	37.6	16.7	4.3	9.0	100.0	320	27.4
Anambra Ebonyi	11.7 6.2	19.0 20.3	39.6 43.7	13.7 15.6	6.2 7.1	9.8 7.0	100.0 100.0	768 669	28.4 28.6
Enugu	9.7	18.7	37.7	15.7	8.1	10.1	100.0	370	28.6
Imo	13.5	26.7	35.7	12.4	4.9	6.8	100.0	503	25.9
	. 5.0				0	0.0	. 50.0		_0.0
South South	0.0	47.0	24.2	47.7	0.0	44.0	400.0	200	20.0
Akwa Ibom	8.9	17.3	34.0	17.7	8.0	14.2	100.0	383	32.3
Bayelsa Cross River	12.1 11.1	16.7 11.9	30.8 27.3	17.9 19.1	8.9 8.9	13.6 21.8	100.0 100.0	165 236	31.1 35.9
Delta	5.3	15.4	32.2	18.9	6.9 11.0	17.3	100.0	453	35.9 34.1
Edo	7.2	18.8	39.4	17.5	7.7	9.4	100.0	328	29.8
Rivers	9.9	18.8	30.4	15.6	8.6	16.6	100.0	679	31.4

Continued...

Table 5.5—Continued Median number of months Months since preceding birth Number of since Background non-first preceding 60+ 7-17 18-23 24-35 36-47 48-59 Total births characteristic birth South West Ekiti 8.4 11.6 37.4 23.0 7.7 11.8 100.0 244 33.5 5.6 11.6 33.2 22.5 10.9 16.2 100.0 1,093 35.8 Lagos 5.8 10.9 29.2 25.5 10.7 17.9 100.0 448 38.1 Ogun Ondo 5.9 8.7 36.0 19.9 10.2 19.2 100.0 307 35.7 Osun 5.9 11.3 29.9 22.3 11.1 19.6 100.0 406 36.6 100.0 Oyo 7.8 8.9 27.7 22.9 15.0 17.6 752 38.6 Mother's education No education 8.3 17.3 39.7 20.3 7.7 6.7 100.0 13,646 30.5 15.5 Primary 6.9 38.3 19.1 9.1 11.1 100.0 4,358 31.8 Secondary 8.9 15.9 36.6 18.7 8.9 11.0 100.0 7,577 31.1 More than secondary 8.5 17.7 36.9 18.6 7.5 10.8 100.0 1,918 30.8 Wealth quintile Lowest 7.4 16.4 41.8 20.7 7.3 6.5 100.0 6,445 30.7 Second 8.2 17.7 39.4 19.2 8.4 7.0 100.0 6,413 30.4 8.7 Middle 16.9 38.3 19.8 8.1 8.1 100.0 5,682 30.6 4,903 Fourth 8.8 16.3 35.9 18.6 9.0 11.4 100.0 31.1 34.8 Highest 8.8 13.5 100.0 4,054 32.2 8.1 15.7 19.1 Total 8.2 16.7 38.4 19.5 8.3 8.9 100.0 27,498 30.9

Note: First-order births are excluded. The interval for multiple births is the number of months since the preceding pregnancy that ended in a live birth.

Table 5.6 Postpartum amenorrhoea, abstinence, and insusceptibility

Percentage of births in the 3 years preceding the survey for which mothers are postpartum amenorrhoeic, abstaining, and insusceptible, by number of months since birth, and median and mean durations, Nigeria DHS 2018

	Percentage			
Months since birth	Amenorrhoeic	Abstaining	Insusceptible ¹	Number of births
<2	94.8	82.7	98.1	1,187
2-3	85.2	38.9	88.5	1,037
4-5	73.9	22.2	78.4	1,146
6-7	68.1	17.1	73.5	1,217
8-9	62.9	15.0	66.8	1,082
10-11	54.9	13.3	59.0	992
12-13	43.3	11.3	47.9	1,345
14-15	37.0	9.1	41.5	1,183
16-17	29.1	8.1	33.5	1,210
18-19	25.0	8.4	30.1	1,111
20-21	18.3	5.5	21.8	908
22-23	10.3	5.8	14.3	771
24-25	5.2	3.9	8.5	1,312
26-27	4.5	3.7	7.5	1,165
28-29	2.2	2.3	4.2	1,135
30-31	3.2	3.8	6.0	1,135
32-33	2.9	3.5	5.6	904
34-35	3.1	3.5	5.5	806
Total	35.8	14.8	39.6	19,646
Median	11.7	2.9	12.7	na
Mean	13.5	6.2	14.8	na

Note: Estimates are based on status at the time of the survey.

na = Not applicable

1 Includes births for which mothers are either still amenorrhoeic or still abstaining (or both) following birth

 $\underline{\textbf{Table 5.7}} \ \ \textbf{Median duration of amenorrhoea, postpartum abstinence, and postpartum insusceptibility}$

Median number of months of postpartum amenorrhoea, postpartum abstinence, and postpartum insusceptibility following births in the 3 years preceding the survey, according to background characteristics, Nigeria DHS 2018

Background characteristic	Postpartum amenorrhoea	Postpartum abstinence	Postpartum insusceptibility ¹
Mother's age			
15-29 30-49	11.3	2.9	12.4
	12.3	3.0	13.2
Residence Urban	9.8	3.0	10.8
Rural	12.9	2.9	14.1
Zone			
North Central	11.5	5.4	13.3
North East	12.9	2.7	13.8
North West South East	15.1 7.3	2.4 3.7	16.0 10.3
South South	6.8	4.0	8.1
South West	9.8	3.0	10.7
State			
North Central		• •	40.4
FCT-Abuja Benue	8.9 13.1	6.6 4.8	10.4 14.2
Kogi	7.1	10.2	14.1
Kwara	12.0	8.2	15.1
Nasarawa Nigor	8.3 12.7	5.3 4.3	9.3 13.2
Niger Plateau	12.7 11.1	4.3 6.1	15.4
North East		5. .	
Adamawa	8.9	(2.4)	9.5
Bauchi	12.5	2.9	13.1
Borno	11.1	* (2.7)	11.1
Gombe Taraba	15.1 11.0	(2.7) 3.8	15.3 13.0
Yobe	18.1	(2.6)	18.1
North West			
Jigawa	14.7	2.3	15.1
Kaduna	10.9	2.4	11.4
Kano Katsina	16.3 17.4	2.2 2.6	16.5 18.2
Kebbi	16.5	(2.1)	17.3
Sokoto	21.6	(2.5)	21.6
Zamfara	17.1	2.5	17.5
South East	5.0	2.0	0.0
Abia Anambra	5.0 6.8	3.2 3.6	8.6 10.0
Ebonyi	9.8	4.9	14.4
Enugu	7.8	*	9.8
Imo	7.4	4.0	9.5
South South	2.2	0.0	0.0
Akwa Ibom Bayelsa	6.6 7.7	3.9 3.5	6.9 7.9
Cross River	(8.6)	(8.5)	(10.1)
Delta	7.6	(3.6)	9.7
Edo Rivers	(8.5) 5.7	(3.4) 3.7	(9.2) 6.2
	5.7	0.7	Ų. <u>Z</u>
South West Ekiti	(8.2)	(9.9)	(11.8)
Lagos	6.9	(0.0) a	`10.1 [′]
Ogun	10.3	(3.6)	13.4
Ondo Osun	(11.6) (9.8)	4.3	(12.6) (11.4)
Oyo	10.1	*	10.2
Mother's education			
No education	15.0	2.6	15.7
Primary	11.4	3.4	13.4
Secondary More than secondary	9.3 6.5	3.5 2.6	10.7 7.8
	0.0	2.0	7.0
Vealth quintile Lowest	16.4	2.7	17.3
Second	12.6	2.9	14.3
Middle	11.5	3.1	12.6
Fourth Highest	9.7 6.6	3.2 2.8	10.8 9.0
Highest			
Total	11.7	2.9	12.7

Note: Medians are based on status at the time of the survey (current status). Figures in parentheses are based on 25-49 unweighted cases (smoothed data). An asterisk indicates that a figure is based on fewer than 25 unweighted

cases (smoothed data) and has been suppressed.

a = Omitted because less than 50% of women are abstaining

1 Includes births for which mothers are either still amenorrhoeic or still abstaining (or both) following birth

Table 5.8 Menopause

Percentage of women age 30-49 who are menopausal, according to age, Nigeria DHS 2018

Age	Percentage menopausal ¹	Number of women
30-34	1.3	6,178
35-39	2.3	5,463
40-41	7.6	2,091
42-43	9.0	1,400
44-45	23.1	1,680
46-47	28.6	1,017
48-49	51.4	1,453
Total	10.0	19,283

¹ Percentage of women (1) who are not pregnant, (2) who have had a birth in the past 5 years and are not postpartum amenorrhoeic, and (3) for whom one of the following additional conditions applies: (a) their last menstrual period occurred 6 or more months preceding the survey, (b) they declared that they are in menopause or have had a hysterectomy, or (c) they have never menstruated

Table 5.9 Age at first birth

Percentage of women age 15-49 who gave birth by specific exact ages, percentage who have never given birth, and median age at first birth, according to current age, Nigeria DHS 2018

		Percentage	who gave birth t	Percentage who have				
Current age	15	18	20	22	25	never given birth	Number of women	Median age at first birth
15-19	1.4	na	na	na	na	85.6	8,448	а
20-24	4.8	27.9	46.9	na	na	37.0	6,835	а
25-29	4.8	29.0	46.4	62.0	78.2	14.9	7,255	20.4
30-34	6.9	30.9	46.8	59.3	73.0	8.2	6,178	20.5
35-39	5.4	27.7	43.3	57.2	71.5	5.1	5,463	20.8
40-44	8.4	33.2	48.3	62.6	77.1	3.4	3,940	20.2
45-49	7.9	35.0	50.9	64.2	77.6	2.9	3,701	19.9
20-49	6.1	30.1	46.8	na	na	13.9	33,373	а
25-49	6.4	30.6	46.8	60.8	75.4	8.0	26,537	20.4

na = Not applicable due to censoring a = Omitted because less than 50% of women had a birth before reaching the beginning of the age group

Table 5.10 Median age at first birth

Median age at first birth among women age 25-49, according to background characteristics, Nigeria DHS 2018

Background characteristic	Women age 25-49
Residence Urban Rural	22.3 19.0
Zone North Central North East North West South East South South South West	20.3 18.6 18.1 24.3 22.6 23.4
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	21.8 20.4 20.2 21.4 20.3 19.3 20.6
North East Adamawa Bauchi Borno Gombe Taraba Yobe	20.2 17.7 19.4 17.8 19.2 18.0
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	18.0 18.9 18.3 17.5 17.6 18.3 17.5
South East Abia Anambra Ebonyi Enugu Imo	a 24.5 21.7 23.8 a
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	22.3 21.2 20.8 22.3 22.6 23.6
South West Ekiti Lagos Ogun Ondo Osun Oyo	22.5 24.8 23.3 22.1 22.3 22.7
Education No education Primary Secondary More than secondary	18.0 19.4 22.5 a
Wealth quintile Lowest Second Middle Fourth Highest	18.1 18.4 19.9 21.2 24.8
Total	20.4

a = Omitted because less than 50% of women had a birth before reaching the beginning of the age group

Table 5.11 Teenage pregnancy and motherhood

Percentage of women age 15-19 who have had a live birth or who are pregnant with their first child, and percentage who have begun childbearing, according to background characteristics, Nigeria DHS 2018

	Percentage of womer	Percentage who		
Background characteristic	Have had a live birth	Are pregnant with first child	have begun childbearing	Number of women
Age				
15-17	6.7	3.2	9.9	5,242
15	0.8	1.5	2.4	2,078
16	4.5	3.9	8.4	1,585
17	16.6	4.7	21.3	1,579
18	24.4	6.1	30.6	1,921
19	30.9	6.1	37.0	1,286
Residence	0.5	4.0	2.4	0.040
Urban	6.5	1.9	8.4	3,813
Rural	20.9	6.3	27.2	4,635
Zone				
North Central	12.1	4.2	16.3	1,183
North East	19.6	4.9	24.5	1,497
North West	21.3	7.2	28.5	2,737
South East	7.5	1.3	8.8	928
South South	8.6	1.9	10.6	888
South West	4.2	1.3	5.5	1,215
	1.2	1.0	0.0	1,210
State				
North Central	0.0	4 =	40.0	
FCT-Abuja	8.9	1.7	10.6	63
Benue	13.2	4.7	17.9	279
Kogi	17.0	3.4	20.4	148
Kwara	8.6	2.1	10.7	141
Nasarawa	7.8	2.3	10.1	128
Niger	18.0	8.0	26.1	242
Plateau	5.4	2.8	8.2	180
	0.4	2.0	0.2	100
North East				
Adamawa	20.5	3.4	23.9	183
Bauchi	32.3	8.3	40.7	307
Borno	10.0	3.5	13.5	357
Gombe	19.8	3.2	23.0	142
Taraba	19.4	5.3	24.7	189
Yobe	17.6	4.6	22.2	320
				020
North West	10.0	7.0	00.0	000
Jigawa	19.2	7.8	26.9	293
Kaduna	25.8	5.5	31.3	522
Kano	20.8	6.2	27.0	607
Katsina	21.0	6.3	27.3	585
Kebbi	18.5	8.6	27.2	219
Sokoto	19.6	12.5	32.1	188
Zamfara	20.7	8.7	29.4	322
	20.7	0.1	20.1	OLL
South East				
Abia	10.1	0.8	10.9	112
Anambra	10.9	1.3	12.2	249
Ebonyi	6.9	1.4	8.2	223
Enugu	5.6	1.5	7.0	166
Imo	3.5	1.5	5.0	177
Courth Courth				
South South Akwa Ibom	10.7	2.1	12.8	178
Bayelsa	19.0	0.9	19.9	51
Cross River	11.5	2.5	14.0	102
Delta	5.9	4.0	9.9	184
Edo	6.5	2.1	8.7	112
Rivers	7.0	0.3	7.3	262
South West				
Ekiti	14.2	1.3	15.5	83
Lagos	1.1	0.0	1.1	544
Ogun	4.4	3.4	7.8	118
Ondo	7.8	1.3	9.1	129
Osun	5.6	2.1	7.7	172
Oyo	4.9	3.3	8.2	168
Education				
No education	33.8	9.9	43.7	2,182
Primary	17.8	5.4	23.2	881
Secondary	6.2	2.0	8.2	5,162
More than secondary	0.4	0.4	0.8	224

Continued...

	Percentage of wom-	en age 15-19 who:	Percentage who	
Background characteristic	Have had a live birth	Are pregnant with first child	have begun childbearing	Number of women
Wealth quintile				
Lowest	25.9	6.2	32.0	1,427
Second	22.5	8.5	31.0	1,740
Middle	15.2	4.2	19.4	1,758
Fourth	8.1	2.2	10.3	1,810
Highest	2.4	1.0	3.4	1,713
Total	14.4	4.3	18.7	8,448

Table 5.12 Sexual and reproductive health behaviours before age 15

Among women and men age 15-19, percentage who had sexual intercourse, were married, and had a live birth/fathered a child before age 15, according to sex, Nigeria DHS 2018

Sex	Had sexual intercourse before age 15	Were married before age 15	Gave birth/fathered a child before age 15	Number
Women	8.6	8.3	1.4	8,448
Men	2.4	0.0	0.0	2.415

6

Key Findings

- **Desire for another child:** 34% of currently married women age 15-49 want to have another child within 2 years, and 30% want to wait at least 2 years.
- Limiting childbearing: 24% of currently married women and 19% of currently married men age 15-49 want no more children or are sterilised.
- *Ideal family size:* In Nigeria, men desire more children than women (7.2 children versus 6.1 children).
- Unwanted births: Of all births in the past 5 years and current pregnancies, 90% were wanted at the time of conception, 8% were mistimed, and 3% were unwanted.
- Wanted births: The wanted fertility rate is 4.8, while the total fertility rate is 5.3. This suggests that Nigerian women are currently having, on average, 0.5 more children than they want.

nformation on fertility preferences can help family planning programme planners assess the desire for children, the extent of mistimed and unwanted pregnancies, and the demand for contraception to space or limit births. This information may suggest the direction that fertility patterns will take in the future.

This chapter presents information on whether and when married women and men want more children, ideal family size, whether the last birth was wanted, and the theoretical fertility rate if all unwanted births were prevented.

6.1 DESIRE FOR ANOTHER CHILD

Desire for another child

Women and men were asked whether they wanted more children and, if so, how long they would prefer to wait before the birth of the next child. Women and men who are sterilised are assumed not to want any more children.

Sample: Currently married women and men age 15-49

Sixty-seven percent of currently married women age 15-49 want to have another child; 34% of these women want to have another child within 2 years, 30% want to wait at least 2 years, and 4% are undecided on when they would want another child. The majority of other women want to limit childbearing: 24% of currently married women want no more children or are sterilised. Overall, 77% of currently married men age 15-49 want to have another child; 44% want the child within 2 years, 29% want to wait at least 2 years, and 4% are undecided with respect to time. Nineteen percent of currently married men want no more children or are sterilised (**Table 6.1**).

Trends: With respect to number of living children, the percentage of currently married women with three living children who want no more children has increased slightly since 2013, from 13% to 18%, while the percentage of women with four living children who want no more children has increased from 27% to 33% (**Figure 6.1**).

Patterns by background characteristics

- The more children a woman already has, the more likely she is to want no more children. Fifty-one percent of currently married women with six or more children want no more children or are sterilised, as compared with 2% of women who have one child (**Figure 6.2**).
- Among women with four children, those in urban areas are more likely than those in rural areas to want no more children (45% versus 25%). The pattern is similar among men (Table 6.2.1 and Table 6.2.2).
- Women's desire for a smaller family tends to increase with increasing education. For example, among women who have four children, 20% of those with no education want no more children, as compared with 49% of those with more than a secondary education.
- The desire to limit childbearing increases with 0 1 2 3 increasing wealth; 31% of women and 29% of Number of living men in the highest wealth quintile want no more children, compared with 17% of women and 6% of men in the lowest quintile.
- The percentage of women who want no more children is lowest in the North East (16%) and North West (17%) and highest in the South West (37%). The pattern is similar among men.

6.2 IDEAL FAMILY SIZE

Ideal family size

Respondents with no children were asked "If you could choose exactly the number of children to have in your whole life, how many would that be?" Respondents who had children were asked "If you could go back to the time when you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be?"

Sample: Women and men age 15-49

Figure 6.1 Trends in desire to limit childbearing by number of living children

Percentage of currently married women age 15-49 who want no more children

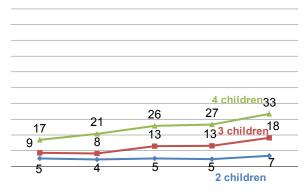
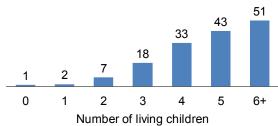


Figure 6.2 Desire to limit childbearing by number of living children

Percentage of currently married women age 15-49 who want no more children



In Nigeria, men desire more children than women (7.2 children and 6.1 children, respectively) (**Table 6.3**). The ideal family size is slightly larger among women and men who are currently married (**Figure 6.3**). Eighty-four percent of women consider four or more children to be ideal, while 13% prefer to have three or fewer children.

Trends: The mean ideal number of children among currently married women has decreased slightly since 2013, from 6.5 to 6.1.

Patterns by background characteristics

- In general, the more children respondents already have, the more children they consider ideal. Women who have no children consider 5.1 children to be ideal on average. On the other hand, women with six or more children consider 8.1 children to be ideal (Figure 6.4). Among men and women with the same number of children, men consistently consider a slightly higher number of children to be ideal than women
- The mean ideal number of children among women age 15-49 is lower in urban areas (5.2 children) than in rural areas (6.8 children) (Table 6.4).
- Women's mean ideal number of children is highest in the North East (7.9 children) and lowest in the South West (4.0 children).
- The mean ideal number of children among women with no education is 7.9, as compared with 4.4 among women with more than a secondary education.

6.3 FERTILITY PLANNING STATUS

Planning status of births/pregnancies

Women reported whether their births/pregnancies were wanted at the time (planned birth), at a later time (mistimed birth), or not at all (unwanted birth). *Sample:* Current pregnancies and births in the 5 years before the survey to women age 15-49

Figure 6.3 Ideal family size

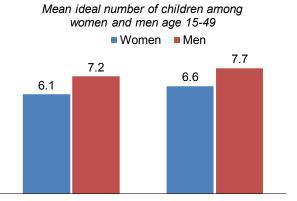
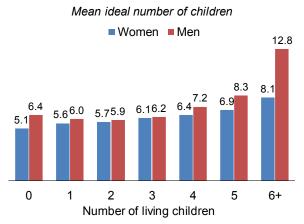


Figure 6.4 Ideal family size by number of living children

Currently married



Most births were wanted at the time of conception (90%), while 8% were mistimed (that is, wanted at a later date). Only 3% of births were not wanted at all (**Table 6.5** and **Figure 6.5**).

Trends: Over the past 5 years, the proportion of births that were wanted at the time of conception has remained constant at 90%. Similarly, there have been only minimal changes in the percentages of unwanted births (2% in 2013 and 3% in 2018) and mistimed births (7% in 2013 and 8% in 2018).

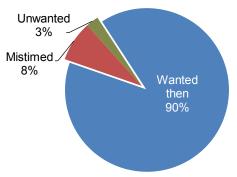
Patterns by background characteristics

- The more children a woman has, the more likely it is that her most recent birth was unwanted.

 Less than 1% (0.3%) of first births were unwanted as compared with 5% of fourth- or higher
- unwanted, as compared with 5% of fourth- or higher-order births.

Figure 6.5 Fertility planning status

Percent distribution of births to women age 15-49 in the 5 years before the survey (including current pregnancies) by planning status of births



Figures may not add to 100% due to rounding.

• The likelihood of unwanted births increases with mother's age. One percent of births to women less than age 25 were unwanted, compared with 12% of births to women age 45-49 (**Table 6.5**).

6.4 WANTED FERTILITY RATES

Unwanted birth

Any birth in excess of the number of children a woman reported as her ideal number.

Wanted birth

Any birth fewer than or equal to the number of children a woman reported as her ideal number.

Wanted fertility rate

The average number of children a woman would have by the end of her childbearing years if she bore children at the current agespecific fertility rates, excluding unwanted births.

Sample: Women age 15-49

The wanted fertility rate measures the potential demographic impact of fertility that would have prevailed in the 3 years preceding the survey if all unwanted births were prevented. It is calculated in the same manner as the total fertility rate, except that only wanted births are included. A birth is considered wanted if the number of living children at the time of conception is fewer than the ideal number of children reported by the respondent.

The wanted fertility rate in Nigeria is 4.8 children, as compared with the actual total fertility rate of 5.3 children. In other words, on average, women in Nigeria have 0.5 more children than they want (**Table 6.6**).

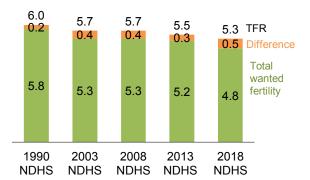
Trends: The total fertility rate in Nigeria has declined slightly over the past 5 years, from 5.5 children in 2013 to 5.3 children in 2018. The wanted fertility rate has decreased to 4.8 since 2013, widening the gap between wanted and actual fertility (from 0.3 to 0.5) (**Figure 6.6**).

Patterns by background characteristics

- The gap between wanted and actual fertility is the same among rural and urban women (0.5 children) (Table 6.6).
- The gap between wanted and actual fertility generally narrows with increasing education.
 For example, the gap falls from 0.6 among

Figure 6.6 Trends in wanted and actual fertility

Wanted and actual number of children per woman



women with no education to 0.2 among women with more than a secondary education (Table 6.6).

LIST OF TABLES

For more information on fertility preferences, see the following tables:

	Table 6.1	Fertility preferences by number of living children
•	Table 6.2.1	Desire to limit childbearing: Women
•	Table 6.2.2	Desire to limit childbearing: Men
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■ Table 6.3 Ideal number of children by number of living children

Table 6.4 Mean ideal number of children

Table 6.5 Fertility planning statusTable 6.6 Wanted fertility rates

Table 6.1 Fertility preferences by number of living children

Percent distribution of currently married women and currently married men age 15-49 by desire for children, according to number of living children, Nigeria DHS 2018

	Number of living children ¹								Total
Desire for children	0	1	2	3	4	5	6+	Total 15-49	15-59
			WOME	N					
Have another soon ²	87.5	49.9	40.9	31.4	24.4	21.4	16.4	33.6	na
Have another later ³	3.7	39.7	41.1	36.8	29.7	22.3	19.0	30.0	na
Have another, undecided when	2.4	5.5	5.6	4.8	3.2	2.3	1.0	3.6	na
Undecided	0.9	2.1	4.2	7.2	7.2	8.3	8.7	6.0	na
Want no more	1.1	1.8	6.8	18.0	33.1	42.4	50.3	24.2	na
Sterilised ⁴	0.0	0.0	0.1	0.3	0.3	0.3	0.5	0.2	na
Declared infecund	4.3	1.1	1.2	1.6	2.1	3.0	4.1	2.3	na
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	na
Number	1,539	4,360	5,032	4,691	4,253	3,485	5,729	29,090	na
			MEN	5					
Have another soon ²	82.7	59.0	48.0	40.3	33.1	30.7	36.8	43.9	41.4
Have another later ³	6.0	32.1	35.2	28.9	25.2	28.0	29.4	29.2	26.3
Have another, undecided when	2.7	4.3	5.9	5.7	3.6	2.1	2.3	4.1	3.8
Undecided	2.9	1.7	1.9	3.5	4.6	4.8	4.3	3.3	3.3
Want no more	2.5	2.6	8.3	21.3	33.2	34.1	26.5	19.0	24.3
Sterilised ⁴	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.1	0.1
Declared infecund	3.2	0.3	0.4	0.4	0.3	0.1	0.6	0.5	8.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	283	1,104	1,279	1,187	914	694	1,324	6,786	8,180

Table 6.2.1 Desire to limit childbearing: Women

Percentage of currently married women age 15-49 who want no more children, by number of living children, according to background characteristics, Nigeria DHS 2018

	Number of living children ¹							
Background characteristic	0	1	2	3	4	5	6+	Total
Residence								
Urban	0.8	1.5	9.8	25.1	44.7	55.9	59.0	29.6
Rural	1.3	2.0	4.6	12.5	25.3	34.2	46.6	21.0
Zone								
North Central	1.3	2.0	4.4	17.0	35.0	47.6	59.0	25.7
North East	1.6	1.9	4.4	7.6	13.3	20.3	37.7	16.0
North West	1.3	1.4	3.2	7.4	13.5	22.1	39.4	16.5
South East	0.9	2.4	9.3	16.8	50.3	65.4	82.4	35.8
South South	0.2	2.1	8.0	26.7	53.4	63.8	81.8	33.1
South West	0.0	1.7	13.4	37.4	64.2	76.4	87.5	37.0
Education								
No education	1.4	2.3	4.4	9.1	19.5	27.5	41.6	20.1
Primary	1.0	1.8	7.5	20.2	36.9	55.9	64.7	35.2
Secondary	0.7	1.3	6.3	21.0	46.3	56.8	70.5	24.9
More than secondary	1.0	1.8	13.8	36.4	48.9	64.9	60.2	25.7
Wealth quintile								
Lowest	2.2	2.2	3.6	9.0	15.3	23.3	37.8	17.3
Second	0.9	1.8	4.6	11.3	22.4	33.2	44.9	20.0
Middle	1.6	1.2	5.2	14.9	30.3	40.3	56.8	25.6
Fourth	0.7	2.2	7.0	19.3	42.5	57.5	61.6	29.3
Highest	0.0	1.6	12.0	32.4	55.9	67.5	71.5	31.1
Total	1.1	1.8	6.9	18.3	33.4	42.8	50.7	24.5

Note: Women who have been sterilised are considered to want no more children.

na = Not applicable

¹ The number of living children includes the current pregnancy.

² Wants next birth within 2 years

³ Wants to delay next birth for 2 or more years

⁴ Includes both female and male sterilisation
5 The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

¹ The number of living children includes the current pregnancy.

Table 6.2.2 Desire to limit childbearing: Men

Percentage of currently married men age 15-49 who want no more children, by number of living children, according to background characteristics, Nigeria DHS 2018

			Number	r of living o	children ¹			
Background characteristic	0	1	2	3	4	5	6+	Total
Residence								
Urban	2.6	3.8	11.7	25.4	43.9	46.7	40.5	24.3
Rural	2.4	1.5	5.0	16.0	24.7	24.1	20.6	14.6
Zone								
North Central	2.4	2.8	7.8	12.5	28.1	33.8	27.7	17.0
North East	(0.0)	2.4	3.3	8.7	14.1	14.8	17.0	10.4
North West	2.2	0.0	0.6	4.9	3.3	6.6	10.9	5.5
South East	(7.3)	4.8	8.0	16.1	30.4	49.0	60.2	24.0
South South	(0.0)	2.7	8.7	25.2	53.0	62.6	55.0	27.9
South West	(3.8)	4.0	15.7	39.6	66.6	70.1	77.2	34.4
Education								
No education	0.0	1.6	4.4	6.5	8.5	10.4	11.7	7.7
Primary	(12.6)	4.2	4.8	18.1	32.2	37.4	38.2	24.8
Secondary	` 1.7 [′]	1.7	8.0	23.2	44.3	47.5	36.3	22.3
More than secondary	0.0	4.3	14.0	32.1	37.7	47.7	35.3	21.9
Wealth quintile								
Lowest	0.0	1.9	3.2	4.3	7.1	8.7	10.6	6.4
Second	0.0	2.6	2.1	14.9	19.3	23.4	16.1	12.4
Middle	8.9	0.0	5.7	18.0	27.7	29.8	32.8	19.0
Fourth	3.8	3.1	8.7	18.0	41.1	46.7	44.7	23.0
Highest	0.0	4.1	15.0	33.2	56.8	60.5	54.5	28.8
Total 15-49	2.5	2.6	8.6	21.3	33.2	34.3	26.6	19.1
50-59	(9.6)	(19.0)	42.1	48.3	64.9	66.0	46.5	50.4
Total 15-59	2.9	3.1	10.4	24.0	37.7	42.0	33.9	24.4

Note: Men who have been sterilised or who state in response to the question about desire for children that their wife has been sterilised are considered to want no more children. Figures in parentheses are based on 25-49 unweighted cases.

¹ The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.3 Ideal number of children by number of living children

Percent distribution of women and men age 15-49 by ideal number of children, and mean ideal number of children for all respondents and for currently married respondents, according to number of living children, Nigeria DHS 2018

	Number of living children							
Ideal number of children	0	1	2	3	4	5	6+	Total
		WON	ΛΕΝ¹					
0	1.9	1.6	2.1	2.1	3.3	3.6	5.5	2.8
1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
2	4.3	2.4	2.5	0.9	0.6	0.7	0.4	2.1
3	13.8	11.9	8.2	7.6	2.1	2.3	0.6	7.8
4 5	30.0 16.0	26.4 16.0	28.0 16.0	22.5 17.1	20.6 13.6	10.5 17.3	5.3 6.0	22.0 14.5
5 6+	31.3	39.1	40.8	17.1 46.9	56.4	61.7	78.6	14.5 47.9
Non-numeric responses	2.6	2.5	2.2	2.8	3.3	3.8	3.5	2.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	11,401	5,310	5,515	5,098	4,601	3,771	6,126	41,821
Mean ideal number of children for:2								
All women	5.1	5.6	5.7	6.1	6.4	6.9	8.1	6.1
Number of women	11,106	5,177	5,394	4,955	4,448	3,627	5,913	40,621
Currently married women	6.5	5.8	5.7	6.1	6.5	6.9	8.2	6.6
Number of currently married women	1,505	4,267	4,923	4,561	4,117	3,350	5,525	28,249
		ME	EN ³					
0	2.7	0.4	0.7	1.2	1.4	0.6	0.9	1.7
1	0.1	0.3	0.0	0.1	0.1	0.0	0.1	0.1
2	4.4	2.4	3.4	1.8	1.0	0.6	0.3	2.9
3	9.8	15.2	12.0	9.3	3.1	2.2	0.7	8.5
4 5	19.6 16.6	26.5 17.3	29.5 16.0	26.6 18.6	22.6 15.2	10.7 16.0	4.2 4.6	20.1 15.3
6+	41.1	35.6	35.3	38.5	51.4	63.3	80.2	46.2
Non-numeric responses	5.7	2.3	3.1	36.5	5.3	6.6	9.0	5.3
·								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	5,201	1,181	1,318	1,206	927	703	1,331	11,868
Mean ideal number of children for:2	0.4	0.0	5 0	0.0	7.0	0.0	40.0	7.0
All men	6.4	6.0	5.9	6.2	7.2 877	8.3	12.8	7.2
Number of men	4,905	1,155	1,277	1,158		657	1,211	11,240
Currently married men Number of currently married men	6.4 260	6.0 1.080	5.9 1,239	6.2 1.139	7.1 865	8.3 650	12.9 1,205	7.7 6,439
,	200	1,000	1,200	1,100	000	000	1,200	0,400
Mean ideal number of children for men 15- 59: ²								
All men	6.4	5.9	5.9	6.1	7.0	7.9	13.1	7.4
Number of men	4,933	1,188	1,351	1,291	1,031	877	1,904	12,575
Currently married men	6.4	5.9	5.9	6.1	7.0	7.9	13.1	8.1
Number of currently married men	277	1,113	1,306	1,266	1,011	865	1,890	7,727

 ¹ The number of living children includes the current pregnancy.
 ² Means are calculated excluding respondents who gave non-numeric responses.
 ³ The number of living children includes one additional child if the respondent's wife is pregnant (or if any wife is pregnant for men with more than one current wife).

Table 6.4 Mean ideal number of children

Mean ideal number of children for all women age 15-49, according to background characteristics, Nigeria DHS 2018

Background characteristic	Mean	Number of women ¹
Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49	5.5 5.8 6.1 6.2 6.3 6.6 6.9	8,202 6,686 7,073 5,998 5,291 3,809 3,562
Residence Urban Rural	5.2 6.8	18,594 22,027
Zone North Central North East North West South East South South South West	5.7 7.9 7.5 5.0 4.6 4.0	5,715 6,319 12,063 4,926 4,795 6,802
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	4.7 5.1 4.8 5.0 6.0 7.4 5.4	300 1,351 615 635 647 1,304 863
North East Adamawa Bauchi Borno Gombe Taraba Yobe	7.9 8.6 7.6 8.5 6.9 7.9	711 1,296 1,463 653 873 1,323
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	8.7 7.2 7.4 6.6 8.8 8.1 7.0	1,382 2,486 2,686 2,141 1,135 906 1,328
South East Abia Anambra Ebonyi Enugu Imo	4.9 4.6 5.9 5.0 4.7	630 1,475 1,004 876 941
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	4.4 4.9 4.5 5.0 4.5 4.4	941 298 549 930 544 1,532
South West Ekiti Lagos Ogun Ondo Osun Oyo	4.3 3.9 4.0 4.5 3.9 4.1	472 2,612 925 620 931 1,243
Education No education Primary Secondary More than secondary	7.9 6.2 4.9 4.4	14,187 5,820 16,089 4,525

Continued...

Table 6.4—Continued		
Background characteristic	Mean	Number of women ¹
Wealth quintile		
Lowest	8.0	7,017
Second	7.2	7,787
Middle	6.1	7,978
Fourth	5.3	8,703
Highest	4.5	9,136
Total	6.1	40,621

 $^{^{\}rm 1}$ Number of women who gave a numeric response

Table 6.5 Fertility planning status

Percent distribution of births to women age 15-49 in the 5 years preceding the survey (including current pregnancies), by planning status of the birth, according to birth order and mother's age at birth, Nigeria DHS 2018

	Plan	ning status o			
Birth order and mother's age at birth	Wanted then	Wanted later	Wanted no more	Total	Number of births
Birth order					
1	89.5	10.2	0.3	100.0	7,437
2	91.0	8.6	0.4	100.0	7,007
3	90.8	8.2	0.9	100.0	5,988
4+	88.5	6.8	4.8	100.0	17,996
Mother's age at birth					
<20	90.0	9.5	0.5	100.0	5,174
20-24	90.7	8.8	0.5	100.0	9,798
25-29	90.3	8.5	1.2	100.0	10,190
30-34	89.4	7.2	3.4	100.0	7,350
35-39	86.6	5.7	7.6	100.0	4,146
40-44	84.6	4.0	11.3	100.0	1,506
45-49	79.6	8.2	12.2	100.0	265
Total	89.5	8.0	2.5	100.0	38,429

Table 6.6 Wanted fertility rates

Total wanted fertility rates and total fertility rates for the 3 years preceding the survey, according to background characteristics, Nigeria DHS 2018

Background characteristic	Total wanted fertility rate	Total fertility rate
Residence		
Urban Rural	4.0 5.4	4.5 5.9
Zone		
North Central	4.7	5.0
North East	5.6	6.1
North West	5.9	6.6
South East South South	4.3 3.6	4.7 4.0
South West	3.5	3.9
State		
North Central		
FCT-Abuja	3.9 4.2	4.3 4.5
Benue Kogi	4.2	4.8
Kwara	4.9	5.2
Nasarawa	5.0	5.3
Niger Plateau	5.7 4.2	5.8 4.7
	4.2	7.1
North East Adamawa	5.6	6.1
Bauchi	6.8	7.2
Borno Gombe	4.7 6.3	5.2 6.6
Taraba	5.0	5.4
Yobe	5.4	5.9
North West		
Jigawa	6.9	7.1
Kaduna Kano	5.4 6.1	5.9 6.5
Katsina	5.5	7.3
Kebbi	6.1	6.5
Sokoto	6.6	7.0
Zamfara	5.3	6.4
South East Abia	4.6	4.9
Anambra	4.0	4.9
Ebonyi	5.0	5.4
Enugu	3.8	4.1
Imo	4.1	4.5
South South Akwa Ibom	3.2	3.6
Bayelsa	4.0	4.4
Cross River	3.1	3.7
Delta	4.0	4.4
Edo Rivers	4.3 3.5	4.8 3.8
South West	0.0	5.0
Ekiti	4.3	4.6
Lagos	3.1	3.4
Ogun	3.5	3.8
Ondo Osun	3.7 3.0	4.1 3.8
Oyo	4.0	4.5
Education		
No education	6.1	6.7
Primary Secondary	5.2 4.0	5.8 4.4
More than secondary	3.2	3.4
Wealth quintile		
Lowest	6.2	6.7
Second	5.7	6.2
Middle	5.0	5.6
Fourth	41	
Fourth Highest	4.1 3.5	4.6 3.8

Note: Rates are calculated based on births to women age 15-49 in the period 1-36 months preceding the survey. The total fertility rates are the same as those presented in Table 5.2.

Key Findings

- Current contraceptive use: Modern contraceptive use is higher among sexually active unmarried women (28%) than among currently married women (12%). The contraceptive prevalence rate for any method is 17% among currently married women.
- Contraceptive discontinuation: Two of every five times (41%) that women began using a contraceptive method in the 5 years preceding the survey, they discontinued the method within 12 months. The most common reason for discontinuation was the desire to become pregnant (35%).
- Demand for family planning: The total demand for family planning among currently married women is 36%; 34% of total demand is satisfied by modern methods.
- Unmet need for family planning: Unmet need for family planning is higher among sexually active unmarried women (48%) than among currently married women (19%).
- **Future use of contraception:** 35% of currently married women who are not using contraception intend to use family planning in the future.

ouples can use contraceptive methods to limit or space the number of children they have. This chapter presents information on the use and sources of contraceptive methods, informed choice of methods, and rates and reasons for discontinuing contraceptives. It also examines the potential demand for family planning and how much contact nonusers have with family planning providers.

The Federal Government of Nigeria, through the Federal Ministry of Health (FMOH), has set a modern contraceptive prevalence rate (mCPR) target of 27% by 2020. In order to achieve this, the government has developed the following:

- National Communication Plan (2017-2020)
- National guideline and training manuals for the introduction and scale-up of DMPA-SC self-injection (2019)
- Manual for the Training of Doctors, Nurse/Midwives and Community Health Extension Workers on Postpartum Family Planning (2016)
- Task shifting/task sharing policy for essential health care services in Nigeria as well as the standard of practice (SOP) (Federal Government of Nigeria 2018)

7.1 CONTRACEPTIVE KNOWLEDGE AND USE

Knowledge of modern contraceptive methods is higher among sexually active unmarried women (98%) than currently married women (94%), with the former knowing about 9 methods on average and the latter knowing about 7 methods (**Table 7.1**). The most commonly known modern methods among currently married women are injectables (88%) and pills (87%), followed by implants (78%), male condoms (77%), and lactational amenorrhoea (58%). Seventy-two percent of currently married women are aware of a traditional method of contraception.

Contraceptive prevalence rate

Percentage of women who use any contraceptive method.

Sample: All women age 15-49, currently married women age 15-49, and sexually active unmarried women age 15-49

The contraceptive prevalence rate (CPR) is 17% among currently married women age 15-49. Most currently married women using contraception use a modern method (12%), while 5% use a traditional method. Thirty-seven percent of sexually active unmarried women use a contraceptive method, with 28% using a modern method and 9% using a traditional method (**Table 7.2**).

Modern methods

Include male and female sterilisation, injectables, intrauterine devices (IUDs), contraceptive pills, implants, female and male condoms, the standard days method, the lactational amenorrhoea method (LAM), and emergency contraception.

The most commonly used modern methods of contraception among currently married women are injectables and implants (3% each), while the most common modern method used by sexually active unmarried women is the male condom (19%) (**Figure 7.1**).

Trends: Contraceptive use among currently married women increased from 15% in 2013 to 17% in 2018. Use of any modern method of contraception also increased, from 10% to 12% (**Figure 7.2**). In addition, there has been a noticeable rise in the use of implants since 2008, from 0% to 3% (**Table 7.3**).

Figure 7.1 Contraceptive use

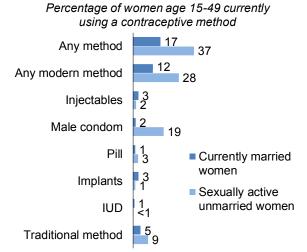
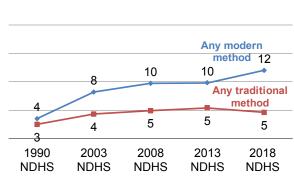


Figure 7.2 Trends in contraceptive use

Percentage of currently married women currently using a contraceptive method

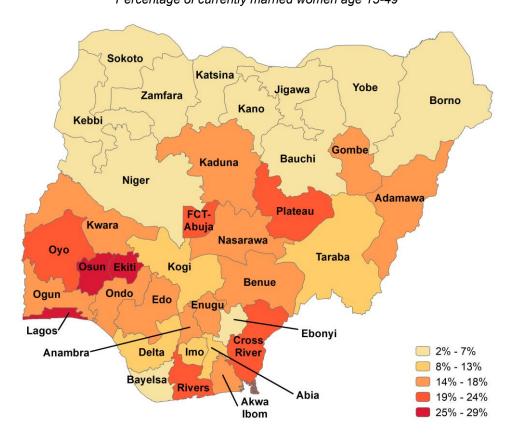


Patterns by background characteristics

- Modern contraceptive use is higher among currently married women with 3-4 living children (15%) than among those with 1-2 living children (11%) (**Table 7.4**).
- Use of any contraceptive method is higher among currently married women in urban areas (26%) than among those in rural areas (10%).

Figure 7.3 Modern contraceptive use by state

Percentage of currently married women age 15-49



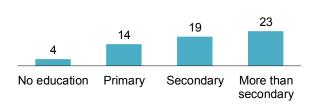
- Modern contraceptive use among currently married women ranges from 2% in Yobe and Sokoto to 29% in Lagos (Figure 7.3).
- The proportion of currently married women using modern contraceptive methods is higher among those with more than a secondary education (23%) than among those with no education (4%) (**Table 7.4** and **Figure 7.4**).
- The percentage of currently married women using modern contraceptives increases with increasing household wealth, from 4% among those in the lowest wealth quintile to 22% among those in the highest quintile (**Table 7.4**).

Knowledge of the Fertile Period

Among women using the rhythm method, more than half incorrectly perceive the fertile period to be right

Figure 7.4 Use of modern methods by education

Percentage of currently married women age 15-49



after a woman's menstrual period has ended (58%). Thirty percent of women using the rhythm method correctly perceive the fertile period to be halfway between two menstrual periods (**Table 7.5**).

With the exception of women age 15-19, approximately one quarter of women in each age bracket correctly identified the fertile period (**Table 7.6**).

7.2 Source of Modern Contraceptive Methods

Source of modern contraceptives

The place where the modern method currently being used was obtained the last time it was acquired.

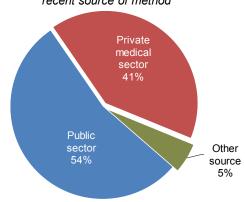
Sample: Women age 15-49 currently using a modern contraceptive method

In Nigeria, the public sector plays a more prominent role than the private sector in providing modern contraceptive methods (54% and 41%, respectively) (**Figure 7.5**). However, this role varies by method type. The public sector is the predominant source for female sterilisation (75%), IUDs (79%), implants (93%), and injectables (74%). The private sector is the main source for male condoms (81%), emergency contraception (80%), and pills (67%) (**Table 7.7**).

In the public sector, implants and injectables are mainly obtained from government health centres (47% and 46%, respectively), while IUDs are mainly obtained from government hospitals (41%). In the private sector, emergency contraception, male condoms, and pills are primarily obtained from private chemists/patent medicine store (PMS) stores (61%, 51%, and 34%, respectively) (**Table 7.7**).

Figure 7.5 Source of modern contraceptive methods

Percent distribution of current users of modern methods age 15-49 by most recent source of method



Among users of social marketing branded pills, the most common brands are Duofem Confidence (23%) and Combination 3 (21%). Among users of social marketing branded condoms, Gold Circle is the most common brand (66%) and Rough Rider is the least common (7%) (**Table 7.8**).

7.3 INFORMED CHOICE

Informed choice

Informed choice indicates that women were informed about their method's side effects, about what to do if they experience side effects, and about other methods they could use.

Sample: Women age 15-49 who are currently using selected modern contraceptive methods and who started the last episode of use within the 5 years before the survey

Three quarters (74%) of all women currently using modern contraceptive methods were informed about side effects associated with the method they used, and 68% were informed about what to do if they experienced side effects. A higher percentage (83%) were informed about other available methods. Overall, 65% of women currently using modern contraceptives were informed about the method information index (side effects of the method, what to do if they experience side effects, and other available methods) at the time they started their last episode of use (**Table 7.9**).

Women obtaining a method from the public sector were more likely to be informed of the method information index (72%) than those who obtained their method from the private sector (41%). The percentage of women who were informed about the method information index was highest among IUD users (85%) and lowest among pill users (39%). Women who initially obtained their method in a family planning clinic were most likely to be informed of the method information index (82%) (**Table 7.9**).

7.4 DISCONTINUATION OF CONTRACEPTIVES

Contraceptive discontinuation rate

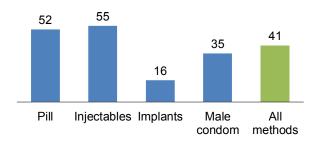
Percentage of contraceptive use episodes discontinued within 12 months. *Sample:* Episodes of contraceptive use in the 5 years before the survey experienced by women who are currently age 15-49 (one woman may contribute more than one episode)

The overall 12-month contraceptive discontinuation rate was 41% in the 5 years preceding the survey (**Table 7.10**). The contraceptive discontinuation rate was highest for injectables (55%) and pills (52%) (**Figure 7.6**).

The most common reason for discontinuation was the desire to become pregnant (35%). Other prominent reasons cited for discontinuation included becoming pregnant while using the method (15%), side effects/health concerns (14%), and infrequent sex/husband being away (11%) (**Table 7.11**). Injectables were mostly discontinued due to side effects/health concerns (37%), while pills were mostly discontinued due to a desire to become pregnant (33%).

Figure 7.6 Contraceptive discontinuation rates

Percentage of contraceptive episodes discontinued within 12 months among women age 15-49



7.5 DEMAND FOR FAMILY PLANNING

Unmet need for family planning

Proportion of women who (1) are not pregnant and not postpartum amenorrhoeic and are considered fecund and want to postpone their next birth for 2 or more years or stop childbearing altogether but are not using a contraceptive method, or (2) have a mistimed or unwanted current pregnancy, or (3) are postpartum amenorrhoeic and their last birth in the last 2 years was mistimed or unwanted.

Sample: All women age 15-49, currently married women age 15-49, and sexually active unmarried women age 15-49

Demand for family planning:	Unmet need for family planning + current contraceptive use (any method)
Proportion of demand satisfied:	Current contraceptive use (any method) Unmet need + current contraceptive use (any method)
Proportion of demand satisfied by modern methods:	Current contraceptive use (any modern method) Unmet need + current contraceptive use (any method)

Thirty-six percent of currently married women have a demand for family planning, 14% for limiting and 22% for spacing. Seventeen percent of currently married women are already using contraception. However, 19% have an unmet need for family planning (7% for limiting and 12% for spacing) (**Figure 7.7**). If all currently married women who say they want to space or limit their children were to use a family planning method, the contraceptive prevalence rate would increase from 17% to 36% (**Table 7.12.1**).

Trends: Total demand for family planning among currently married women has increased since 1990, from 27% to 36% (**Figure 7.8**). Over the same period, the proportion of demand satisfied by

modern methods has increased from 14% to 34%. Unmet need decreased from 22% in 1990 to 16% in 2013 before rising to 19% in 2018 (**Figure 7.8**).

Patterns by background characteristics

• Unmet need for family planning among currently married women is 20% in urban areas and 18% in rural areas. The percentage of demand satisfied with modern methods is 39% in urban areas and 28% in rural areas (**Table 7.12.1**).

Figure 7.7 Demand for family planning

Percent distribution of currently married women age 15-49 by need for family planning

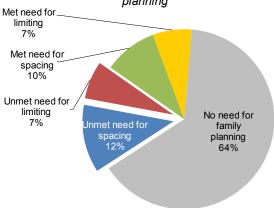
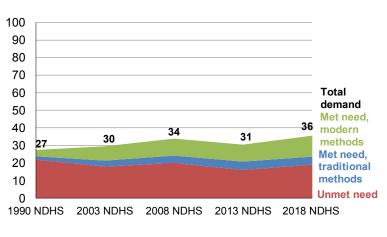


Figure 7.8 Trends in demand for family planning

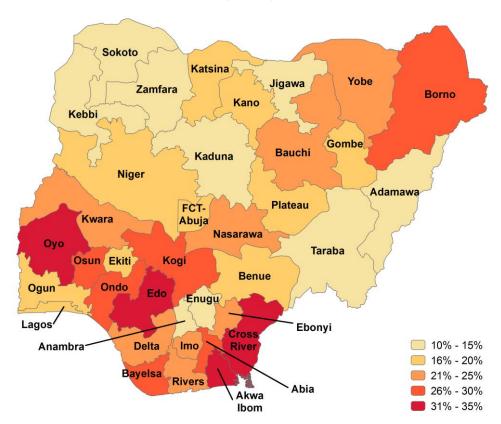
Percentage of currently married women age 15-49



Demand for family planning is lowest among currently married women in the North West (21%), particularly women in Kebbi and Sokoto (15% each). Demand is highest among women in the South West (57%), particularly women in Lagos (66%) (Table 7.12.1).

Figure 7.9 Unmet need by state

Percentage of currently married women age 15-49 with unmet need for family planning



- Unmet need for family planning among currently married women is highest in Cross River (35%) and Edo (33%) and lowest in Anambra and Adamawa (10% each) (**Figure 7.9**).
- Demand for family planning increases with increasing household wealth, from 21% among women in the lowest wealth quintile to 52% among women in the highest quintile (**Table 7.12.1**).
- Sexually active unmarried women have a higher demand for family planning than currently married women (85% versus 36%). They also have a higher unmet need (48% versus 19%) (**Table 7.12.2**).

Decision Making about Family Planning

Among currently married women who are users of family planning, 66% reported that they decided jointly with their husband to use family planning, whereas 23% said that they made their own decision (**Table 7.13**). Among currently married women who are nonusers, 41% decided jointly with their husband to not use family planning, 38% made their own decision, and 19% reported that it was mainly their husband's decision to not use family planning (**Table 7.13**).

Future Use of Contraception

Thirty-five percent of currently married women who are not using contraception intend to use family planning in the future. However, 58% of women do not intend to use contraception in the future, and 7% are unsure about future use. Future intention to use contraception increases from 26% among women with no living children to a peak of 40% among those with two living children before declining to 33% among those with four or more living children (**Table 7.14**).

Exposure to Family Planning Messages in the Media

The survey also collected information on exposure to family planning messages in the media and other sources among women and men age 15-49. The radio is the most common source of family planning messages in Nigeria, with 31% of women and 39% of men having heard a family planning message on the radio in the past few months. Among women, 19% reported having seen a family planning message on television and 4% saw one in a newspaper or magazine, while among men these proportions were 23% and 13%, respectively. On the other hand, 65% of women and 56% of men have not been exposed to family planning messages through any of the four media sources (radio, television, newspaper/magazine, and mobile phone) in the past few months (**Table 7.15.1** and **Table 7.15.2**). Among other sources of information, 18% of women and 25% of men reporting seeing a family planning message on a poster.

For details on the types of family planning messages to which women and men in Nigeria are exposed, see **Table 7.16**.

7.6 CONTACT OF NONUSERS WITH FAMILY PLANNING PROVIDERS

Contact of nonusers with family planning providers

Respondent discussed family planning in the 12 months before the survey with a fieldworker or during a visit to a health facility.

Sample: Women age 15-49 who are not currently using any contraceptive methods

Eighty-four percent of women age 15-49 who are not using contraception said they did not discuss family planning with a fieldworker or health facility staff member in the 12 months before the survey. Four percent were visited by a fieldworker who discussed family planning, and 14% discussed family planning with a staff member during a health facility visit. Twenty-four percent of women visited a health facility but did not discuss family planning with a health facility worker (**Table 7.17**).

Patterns by background characteristics

- Women in urban areas are more likely than women in rural areas to have discussed family planning during a heath facility visit (16% and 12%, respectively).
- The percentage of women who did not discuss family planning either with a fieldworker or at a health facility ranges from a high of 97% in Zamfara to a low of 70% in Ekiti.
- The percentage of women who did not discuss family planning with a fieldworker or at a health facility was highest among those with no education (88%) and lowest among those with more than a secondary education (78%).

LIST OF TABLES

For more information on family planning, see the following tables:

Table 7.1	Knowledge of contraceptive methods
Table 7.2	Current use of contraception by age
Table 7.3	Trends in current use of contraception
Table 7.4	Current use of contraception according to background characteristics
Table 7.5	Knowledge of fertile period
Table 7.6	Knowledge of fertile period by age
Table 7.7	Source of modern contraception methods
Table 7.8	Use of social marketing brand pills and condoms
Table 7.9	Informed choice
Table 7.10	Twelve-month contraceptive discontinuation rates
Table 7.11	Reasons for discontinuation
Table 7.12.1	Need and demand for family planning among currently married women
Table 7.12.2	Need and demand for family planning for all women and for sexually active
	unmarried women
Table 7.13	Decision making about family planning
Table 7.14	Future use of contraception
Table 7.15.1	Exposure to family planning messages: Women
Table 7.15.2	Exposure to family planning messages: Men
Table 7.16	Exposure to specific family planning messages
Table 7.17	Contact of nonusers with family planning providers

Table 7.1 Knowledge of contraceptive methods

Percentage of all respondents, currently married respondents, and sexually active unmarried respondents age 15-49 who know any contraceptive method, by specific method, Nigeria DHS 2018

		Women			Men	
Method	All women	Currently married women	Sexually active unmarried women ¹	All men	Currently married men	Sexually active unmarried men ¹
Any method	92.7	94.5	98.4	94.1	98.2	99.1
Any modern method	92.1	93.9	98.3	93.8	97.8	99.1
Female sterilisation Male sterilisation Pill IUD Injectables Implants Male condom Female condom Emergency contraception Standard days method Lactational amenorrhoea (LAM) Other modern method	45.1 17.8 82.2 45.8 82.1 70.3 77.9 42.4 36.7 23.0 51.5 0.6	48.8 18.7 87.2 50.8 88.4 77.5 76.6 41.7 36.6 25.5 58.4 0.6	50.2 25.5 87.8 51.5 84.6 74.3 97.7 72.9 65.7 27.0 52.6 2.4	39.7 32.6 73.8 31.6 62.3 45.0 92.0 51.1 36.0 24.8 35.2 0.2	48.3 38.4 83.1 40.0 72.9 57.4 96.0 58.1 43.3 31.5 47.1 0.3	47.4 44.4 85.1 32.6 66.9 45.3 98.5 70.6 52.0 27.6 24.6 0.9
Any traditional method	68.2	72.1	89.5	71.1	84.1	84.1
Rhythm Withdrawal Other traditional method	50.5 59.5 11.1	52.0 63.1 13.7	73.9 85.9 11.5	35.0 69.4 0.4	43.9 82.6 0.5	43.1 82.0 0.4
Mean number of methods known by respondents 15-49 Number of respondents	7.0 41,821	7.4 29,090	8.6 1,535	6.3 11,868	7.4 6,786	7.2 694
Mean number of methods known by respondents 15-59 Number of respondents	na na	na na	na na	6.4 13,311	7.5 8,180	7.2 697

na = Not applicable

1 Had last sexual intercourse within 30 days preceding the survey

Table 7.2 Current use of contraception by age

Percent distribution of all women, currently married women, and sexually active unmarried women age 15.49 by contraceptive method currently used, according to age, Nigeria DHS 2018

						Mc	Modern method	pc					Trad	Traditional method	pot			
•	Any	Any	Female sterili-	į	<u>(</u>	Inject-	-	Male	Emer- gency contra-		-	Any tradi- tional	:	With-		Not currently		Number of
Age	method	method	sation	≣ B		ables	Implants	condom	ception	LAM	Other ¹	method	Rhythm	drawal	Other	nsing	Total	women
								AF	ALL WOMEN									
15-19	2.9	2.4	0.0	0.2	0.0	0.1	0.1	1.6	0.1	0.1	0.1	9.0	0.2	0.3	0.1	97.1	100.0	8,448
20-24	11.9	9.1	0.0	8.0	0.1	1.6	1.6	3.7	4.0	0.8	0.1	5.9	8.0	1.7	4.0	88.1	100.0	6,835
25-29	17.0	13.0	0.0	4.1	4.0	2.9	2.9	3.7	0.2	7:5	0.1	3.9	6.0	2.3	0.7	83.0	100.0	7,255
30-34	20.1	14.2	0.1	1.6	0.7	3.6	3.9	2.7	0.3	1.3	0.1	5.9	1.6	3.5	8.0	6.62	100.0	6,178
35-39	22.4	16.1	0.2	2.4	1.0	4.3	4.5	2.4	0.1	1.2	0.1	6.3	1.9	3.8	0.7	77.5	100.0	5,463
40-44	19.8	14.1	9.0	4.	1.6	3.5	4.1	1.6	4.0	9.0	0.2	2.7	2.1	2.4	1.3	80.2	100.0	3,940
45-49	11.7	8.4	0.8	0.7	. 3	2.2	2.0	9.0	4.0	0.2	0.0	3.4	1.9	. .	4.0	88.3	100.0	3,701
Total	14.3	10.5	0.2	1.2	9.0	2.4	2.5	2.5	0.2	8.0	0.1	3.8	1.2	2.1	9.0	85.7	100.0	41,821
							าว	IRRENTLY	CURRENTLY MARRIED WOMEN	WOMEN								
15-19	3.2	2.3	0.0	0.1	0.1	0.5	0.3	6.0	0.1	0.4	0.0	6.0	0.3	0.4	0.2	8.96	100.0	1,927
20-24	10.9	8.2	0.0	8.0	0.2	2.3	2.4	1.3	0.1	1.1	0.1	2.6	9.0	1.8	0.2	89.1	100.0	4,362
25-29	16.3	12.3	0.1	4.1	0.5	3.3	3.1	2.1	0.1	6 .	0.0	0.4	1.0	2.3	0.7	83.7	100.0	090'9
30-34	19.7	14.0	0.1	1.6	8.0	3.9	4.3	1.8	0.1	4.	0.1	5.7	1.5	3.6	0.5	80.3	100.0	5,417
35-39	23.3	16.5	0.2	2.5	1.0	4 .	6.4	2.0	0.1	. .	0.0	6.7	2.0	0.4	0.7	76.7	100.0	4,841
40-44	21.1	14.9	0.7	7.5	1.8	3.8	4.4	1.5	0.3	0.7	0.2	6.2	2.2	2.5	4.	78.9	100.0	3,457
45-49	13.0	9.1	6.0	0.7	1.5	2.5	2.2	0.5	0.5	0.2	0.0	3.9	2.3	1.3	0 .4	87.0	100.0	3,026
Total	16.6	12.0	0.2	1.4	8.0	3.2	3.4	1.6	0.2	1.2	0.1	4.6	1.4	2.6	9.0	83.4	100.0	29,090
							SEXUA	LLY ACTIV	SEXUALLY ACTIVE UNMARRIED WOMEN $^{\rm 2}$	RIED WON	1EN ²							
15-19	28.3	22.2	0.0	2.5	0.0	0.7	0.3	16.8	1.3	0.0	9.0	0.9	1.7	3.6	7.0	71.7	100.0	310
20-24	37.1	28.2	0.0	2.8	0.0	د .	0.5	20.5	2.8	0.0	0.3	8.9	2.8	8.4	1.3	62.9	100.0	450
25+	40.3	29.5	0.0	3.5	0.5	2.5	2.3	17.9	2.1	0.0	0.7	10.7	2.5	5.1	3.2	9.69	100.0	775
Total	36.9	27.7	0.0	3.1	0.2	1.8	4.1	18.5	2.2	0.0	9.0	9.2	2.4	4.7	2.1	63.0	100.0	1,535

Note: If more than one method is used, only the most effective method is considered in this tabulation. LAM = Lactational amenorrhoea method ¹ Includes female condom, standard days method, and other modern methods ² Women who have had sexual intercourse within 30 days preceding the survey

Table 7.3 Trends in current use of contraception

Percent distribution of currently married women age 15-49 by contraceptive method currently used, according to several surveys, Nigeria DHS 1990-2018

Method	1990 NDHS	2003 NDHS	2008 NDHS	2013 NDHS	2018 NDHS
Any method	6.0	12.6	14.6	15.1	16.6
Any modern method	3.5	8.2	9.7	9.8	12.0
Female sterilisation	0.3	0.2	0.4	0.3	0.2
IUD	0.8	0.7	1.0	1.1	0.8
Pill	1.2	1.8	1.7	1.8	1.4
Injectables	0.7	2.0	2.6	3.2	3.2
Implants	u	0.0	0.0	0.4	3.4
Male condom	0.4	1.9	2.4	2.1	1.6
LAM	u	1.4	1.6	0.4	1.2
Other modern methods	0.1	0.2	0.0	0.4	0.3
Any traditional method	2.5	4.3	4.9	5.4	4.6
Rhythm	1.4	2.1	2.1	2.2	1.4
Withdrawal	0.5	1.3	2.0	2.5	2.6
Other	0.6	1.0	0.9	0.7	0.6
Not currently using	94.0	87.4	85.4	84.9	83.4
Total	100.0	100.0	100.0	100.0	100.0
Number of women	6,880	5,336	23,578	27,830	29,090

LAM = Lactational amenorrhoea method u = Unknown (not available)

Table 7.4 Current use of contraception according to background characteristics

Percent distribution of currently married and sexually active unmarried women age 15-49 by contraceptive method currently used, according to background characteristics, Nigeria DHS 2018

Background																		
characteristic	Any	Any modern method	Female sterili- sation	E E	2	Inject- ables	Implants	Male	Emer- gency contra- ception	Z	Other¹	Any tradi- tional method	Rhythm	With- drawal	Other	Not currently using	Total	Number of women
							CURRE	CURRENTLY MARRIED WOMEN	RRIED WC	OMEN			,					
Number of living children 0 1-2 3-4 5+	1.9 15.1 21.1	1.2 10.7 15.3 13.2	0.0 1.0 6.0 7.0	0.1 2.0 5.1	0.0 0.5 1.0	0.0 7.2.4 1.4.9.9	0 2 4 4 2 6 5 6 6	0.8 2.4 1.7 0.8	0.0 0.0 0.0	0.0 4.1.1 0.0	0.0 0.0 1.0	0.7 7.8 5.8 6.6	0 2	0.4 2.7 3.3	0.0 6.0 6.0	98.1 84.9 78.9 82.2	100.0 100.0 100.0 100.0	2,333 9,363 8,615 8,779
Residence Urban Rural	26.3 10.0	18.2 7.8	0.3	2.3	1.6	4.3 5.5	4.8 4.8	2.9	0.3	1.7	0.0	8.1	2.5	7.7	0.0 4.0	73.6 90.0	100.0	11,790 17,299
one North Central North East North West South East South South South West	16.2 9.5 6.7 28.1 21.7 35.1	13.8 6.2 15.9 24.3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2.3.4 2.2.3.4 8.2.3.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	7.1. 7.2. 9.2. 6.6. 5.2.	2.00 0 8.64 8.21 8.64 6.44	0.00 0.00 0.00 1.00 0.00	0.10 0.20 0.20 0.30 0.30 0.30 0.30 0.30	0.0 0.0 0.0 0.0 0.0	2.4 7.1 15.2 6.0 10.8	0 0 0 0 1 1 8 8	1.4 4.0 7.8 3.6 1.7	0 0 0 0 0 t 7 4 6 6 6 9	83.8 90.5 93.2 71.9 78.3 64.9	100.0 100.0 100.0 100.0 100.0	4,086 4,841 9,826 2,893 4,666
tate North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Platean	23.6 17.1 18.3 22.4 14.8 7.6	20.0 115.5 17.1 14.3 6.4 21.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 9 - 0 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	0.6 0.7 0.9 0.8 0.2 1.2	7.0. 2.0. 3.0. 3.0. 6.3. 6.3. 6.3.	4.000.000 6.4480.000	3.8 3.4 2.5 0.0 0.0 7.	0.0000000000000000000000000000000000000	4.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	6. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	0.00 0.00 0.00 0.00 0.00	2,04.8.0.0 4.0.0.0 4.4.0.0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	76.1 82.9 81.7 77.6 85.2 92.4	100.0 100.0 100.0 100.0 100.0	202 876 428 486 416 1,108
North East Adamawa Bauchi Borno Gombe Taraba Yobe	25.1 6.5 6.2 17.0 10.3	18.2 16.2 16.2 18.6 17.1	0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1 0	0.1.1.0.0 8.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	0.0 0.0 0.0 0.0 0.0	0.4.4.0.0 0.0.0.0.0 0.0.0.0.0	4.1.0 0.6 0.8.8.3 4.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	6.0 0.0 0.0 0.0 0.0	0.0000000000000000000000000000000000000	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0 0.0 0.0	7.00 0.00 4.00 1.00 7.00	74.9 93.5 93.8 83.0 89.7	100.0 100.0 100.0 100.0 100.0	624 1,134 953 554 580 996
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	7.3 14.9 14.9 13.5 13.5 13.5 13.5 13.5	3.9 13.7 5.6 3.3 3.2 2.1 6.7	0.1 0.3 0.0 0.0 0.0	0.5 0.8 0.7 0.7 0.8 0.6	0.0 0.5 0.7 0.0 0.0 0.0	2.5 1.5 1.5 1.6 2.4	0.8 7.0 2.3 1.3 0.7 2.2	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.7 0.0 0.0 0.0	0.0	0.1 0.7 0.3 0.3 0.6	0.0 0.0 0.0 0.0 0.0	0.0 0.2 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.0	96.0 85.1 93.7 96.6 96.5 97.7	100.0 100.0 100.0 100.0 100.0 100.0	1,158 1,975 2,085 1,772 945 1,116

						M	Modern method	ро					Trad	Traditional method	poq			
Background characteristic	Any method	Any modern method	Female sterili- sation	⊞id	anı	Inject- ables	Implants	Male condom	Emer- gency contra- ception	LAM	Other ¹	Any tradi- tional method	Rhythm	With- drawal	Other	Not currently using	Total	Number of women
South East	10.0	8 01	3 0	-	9	2	0	ر م		60	0		-	0.0		4 78	000	376
Anambra	44.6	17.2	0.0	- @	0.0	ο σ. Ο σ.	- C	2. 5.	0.0	5 4 7 C	0.0	27.4	- 6	2.0	0.0	55.4	0.00	905
Ebonvi	8.2	5.9	0.0	0.7	0.1	9.1	2.6	0.7	0.0	0.2	0.0	2.3	0.7	1.6	0.0	91.8	100.0	009
Enugú	30.9	17.6	0.0	2.4	4.0	0.7	6.3	2.3	0.3	3.9	0.0	13.4	5.0	8.2	0.1	69.1	100.0	458
2	20.7	9.0		<u>:</u>	0.0	<u>.</u>	0.	0.7	C:0	4.4	0.7	0.0	0 4.	0.0		69.5	0.00	5 5 7
South South	40.8	7 7	c	~	^	o c	0	7	c	,	c	,	0	0	~	c Og	000	001
Bayelea	9.0 7.0	. °	0.0	o. c		o; c	. c	- o	0.0	- 0	9.0	+ ⊂ - ~	9.0	9. C		90.7 7.00 9.00	0.00	190 195
Cross River	20.0	18.9	0.3	6.6	5.0	9. E 1. 4.	1.5	0.1	0.0	0.2	0.1	1.5	0.3	0.0	0.0	80.0	100.0	318
Delta	16.5	12.9	4.0	2.1	1.2	5.9	3.0	1.0	0.0	1.8	0.3	3.6	1.3	1.4	6.0	83.5	100.0	551
Edo Rivers	19.4 32.0	15.0 19.6	0 2 4	3.5	0.0 0.0	3.7	8. 4 9. 6.	4. 4. 0.	0.1 1.3	0.8 4.	0.0	4.3 5.3	1.6 2.7	2.7 8.6	0.0	80.6 68.0	100.0	370 855
South West																		
Ekiti	38.5	25.4	4.0	3.4	4.3	4.1	5.5	6.2	0.5	1.0	0.0	13.1	3.3	9.0	0.8	61.5	100.0	326
Lagos	49.4	29.0	0.0	4.9	1.9	3.1	4.5	6.9	4 .	0.9	0.3	20.3	3.8	12.2	4.3	9.09	100.0	1,645
Ognu	32.1	16.6	0.5	7. 9. r	0.6	7.3	7.3	დ ₹ დ ₹	0.5	0.2	0.0	15.5	0.5	13.3	2.0	67.9	100.0	624
Ongo Onigo	20.1 29.4	27.0	4. 6		7.7	 7 - 7	۰.۵ ۲.۵	- c.	. o	0. L	0.0	4.7 4.4	0.0	- c	5. C	70.9	0.00	47 625
Oyo	22.6	22.2	0.0	- -	4.2	10.1	0.9	0.8	0.0	0.0	0.0	0.4	0.0	0.2	0.1	4.77	100.0	1,024
Education																		
No education	5.2	6.4	0.2	4.0	0.2		- .	0.1	0.1	0.7	0.0	6.0	0.3		4.0	94.8	100.0	12,955
Primary Secondary	19.4 4.8	14.1	٥ O ۲ ۳	7.7	ے د ین د	4, 4 xo a	4. ת ס. ת	7. 6	7.0			5.3 2 0	د. د دن ک	0.6) «	80.6	0.00	4,580
More than	0.00	2	9	7:7	<u>.</u>		9	9	9	<u>:</u>	- 5	5	t . 1		ò	4	2	ò
secondary	33.3	22.7	0.3	2.7	2.5	4.4	6.1	4.7	0.1	1.7	0.1	10.6	4.3	0.9	0.3	2.99	100.0	2,788
Wealth quintile																		
Lowest	4 4	3.7	0.1	0.2	0.2	7.5	0.5	0.1	0.0	9.0	0.0	0.7	0.2	0.3	0.3	92.6	100.0	6,008
Second	7.8 8.7 9.7	6.3	0.2	9.6	0 0.2	2.2 4 4	1.9 7	4.0 4.0	0.0	٥.7	0.0	7.5 7.4	0.5 1	0.6 9.0	0 ر 4 ر	92.2 85.4	100.0	6,224
Fourth	25.2	17.9	0 C	5 7	د ن در	. 4 . 4	. 6	9 6	- 0	5 -	. c	t 60		6 4 6	. .	. 47 F & 4	100.0	7,00
Highest	33.0	22.2	0.4	2.5	2.0	6.4	5.6	4 4	0.3	6.	0.1	10.7	3.6	6.3	6.0	67.0	100.0	5,657
Total	16.6	12.0	0.2	4.	8.0	3.2	3.4	1.6	0.2	1.2	0.1	4.6	4.	5.6	9.0	83.4	100.0	29,090
						SE	SEXUALLY ACTIVE UNMARRIED WOMEN ²	CTIVE UN	MARRIED	WOMEN	2							
Residence	0 86	4 00		~	6	7	4	17.6	3.0		d	0 C		o u	o c	0 09	000	000
Rural	34.0	27.0	0.0	2.7	0.0	1.9	0.	19.7	1.5	0.0	0.1	0.0	7.8 7.8	3.7	1.0	0.09	100.0	929
Total	36.9	27.7	0.0	3.1	0.2	1.8	4.	18.5	2.2	0.0	9.0	9.2	2.4	4.7	2.1	63.0	100.0	1,535

Note: If more than one method is used, only the most effective method is considered in this tabulation. LAM = Lactational amenorrhoea method

*Includes female condom, standard days method, and other modern methods

*Women who have had sexual intercourse within 30 days preceding the survey

Table 7.5 Knowledge of fertile period

Percent distribution of rhythm users and all women age 15-49 by knowledge of the fertile period during the ovulatory cycle, Nigeria DHS 2018

Perceived fertile period	Users of rhythm method	All women
Just before her menstrual period begins	5.6	11.4
During her menstrual period	0.8	1.1
Right after her menstrual period has ended	57.8	51.9
Halfway between two menstrual periods	30.3	24.2
Other	0.7	0.2
No specific time	0.4	4.3
Don't know	4.5	7.0
Total	100.0	100.0
Number of women	490	41,821

Table 7.6 Knowledge of fertile period by age

Percentage of women age 15-49 with correct knowledge of the fertile period during the ovulatory cycle, according to age, Nigeria DHS 2018

Age	Percentage with correct knowledge of the fertile period	Number of women
15-19	15.1	8,448
20-24	24.1	6,835
25-29	25.9	7,255
30-34	28.0	6,178
35-39	27.9	5,463
40-44	27.2	3,940
45-49	27.4	3,701
Total	24.2	41,821

Note: Correct knowledge of the fertile period is defined as "halfway between two menstrual periods."

Table 7.7 Source of modern contraception methods

Percent distribution of users of modern contraceptive methods age 15-49 by most recent source of method, according to method, Nigeria DHS 2018

Source	Female sterili- sation	IUD	Injectables	Implants	Pill	Male condom	Emer- gency contra- ception	Total
Public sector	74.5	79.1	74.4	92.8	31.4	5.4	0.0	54.0
Government hospital	70.6	40.9	25.9	39.4	12.0	1.8	0.0	22.4
Government health centre	3.9	35.2	45.5	47.4	16.8	2.6	0.0	28.5
Family planning clinic	0.0	2.5	2.4	3.1	2.1	0.3	0.0	1.9
Public mobile clinic	0.0	0.0	0.2	0.8	0.3	0.2	0.0	0.3
Public fieldworker	0.0	0.5	0.4	2.1	0.4	0.5	0.0	8.0
Private sector	25.5	20.1	23.1	6.9	66.5	81.4	80.2	40.8
Private hospital/clinic	21.5	16.9	7.1	5.0	3.2	1.2	0.0	5.2
Private pharmacy	0.0	0.0	3.8	0.0	28.1	29.0	19.7	12.4
Private chemist/PMS store	1.3	0.8	9.0	0.4	33.9	50.9	60.5	21.5
Private doctor	1.1	1.8	1.8	0.6	0.2	0.0	0.0	0.8
Private mobile clinic	0.0	0.3	0.6	0.4	1.0	0.1	0.0	0.4
Private fieldworker	1.5	0.4	0.6	0.1	0.0	0.0	0.0	0.3
Other private medical sector	0.0	0.0	0.2	0.4	0.0	0.1	0.0	0.2
Other source	0.0	0.8	2.0	0.3	2.0	10.9	19.8	4.4
Shop	0.0	0.0	0.2	0.0	0.8	4.9	16.8	1.9
Church	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.1
Friend/relative	0.0	0.2	1.7	0.0	1.2	5.8	3.0	2.3
NGO	0.0	0.4	0.0	0.3	0.0	0.2	0.0	0.2
Other	0.0	0.0	0.4	0.0	0.0	2.2	0.0	0.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of women	73	247	1,007	1,051	484	1,046	104	4,050

Note: Total includes other modern methods not listed separately but excludes the lactational amenorrhoea method (LAM). NGO = Nongovernmental organisation

Table 7.8 Use of social marketing brand pills and condoms

Percentage of pill and condom users age 15-49 using a social marketing brand, by background characteristics, Nigeria DHS 2018

			Among	pill users				Amo	ng condom ι	users ¹	
Background characteristic	Duofem Confidenc e	Combi- nation 3	Micro- gynon	Lofemenal	Other	Number of women	Gold Circle	Durex	Rough Rider	Other	Number of women
Age											
15-19	*	*	*	*	*	13	69.5	14.5	7.3	8.2	129
20-24	33.0	3.5	22.2	14.2	27.2	48	66.7	12.9	10.3	9.7	237
25-29	19.6	20.6	24.0	17.6	18.2	100	61.6	15.8	5.9	15.3	250
30-34	17.1	22.7	16.7	11.6	31.9	92	65.2	11.8	9.5	12.0	147
35-39	18.2	30.7	10.6	12.3	28.1	113	71.3	11.9	3.2	12.6	116
40-44	22.8	16.7	21.5	10.9	28.1	49	(52.4)	(30.7)	(6.3)	(10.6)	55
45-49	(42.7)	(25.3)	(11.5)	(8.5)	(12.0)	24	*	*	*	*	19
Residence											
Urban	23.3	20.2	16.1	12.8	27.5	292	60.2	17.9	8.8	11.8	607
Rural	22.5	23.2	20.4	12.8	21.1	147	74.8	8.8	4.8	11.3	345
Zone											
North Central	21.1	30.9	3.9	22.6	21.5	49	61.3	10.6	7.2	20.4	136
North East	31.2	6.4	37.5	3.9	21.0	58	52.5	23.9	23.6	0.0	54
North West	14.9	5.8	47.4	16.4	15.5	71	*	*	*	*	30
South East	(12.3)	(47.4)	(14.4)	(8.7)	(17.1)	34	69.4	16.7	9.6	3.8	190
South South	28.5	28.8	5.6	5.1	32.0	80	75.6	11.5	5.1	7.5	284
South West	23.8	21.1	7.0	16.6	31.4	147	56.4	17.8	4.9	18.5	256
Education											
No education	28.4	5.9	34.9	7.4	23.5	48	*	*	*	*	15
Primary	17.3	37.8	14.1	16.4	14.4	80	75.3	9.6	5.0	10.0	69
Secondary More than	25.6	21.3	18.3	11.7	23.2	215	70.2	12.0	6.5	11.1	567
secondary	19.4	14.8	10.0	15.2	40.5	95	52.9	21.1	10.0	13.6	301
Wealth quintile											
Lowest	*	*	*	*	*	12	*	*	*	*	15
Second	(29.3)	(12.0)	(31.7)	(10.5)	(16.5)	39	66.5	15.3	6.4	11.9	68
Middle	26.1	24.0	23.2	5.9	20.8	79	72.8	8.8	8.5	9.9	140
Fourth	28.4	25.2	8.7	12.3	25.4	147	70.3	12.8	6.8	9.4	303
Highest	13.5	19.6	19.1	17.8	30.0	162	59.4	17.6	7.8	13.6	425
Total	23.0	21.2	17.5	12.8	25.4	439	65.5	14.6	7.4	11.6	952

Note: Table excludes pill and condom users who do not know the brand name. Condom use is based on women's reports. Figures in parentheses are based on 25-49 unweighted cases. As asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Among condom users not also using the pill

Table 7.9 Informed choice

Among current users of modern methods age 15-49 who started the last episode of use within the 5 years preceding the survey, percentage who were informed about possible side effects or problems of that method, percentage who were informed about what to do if they experienced side effects, percentage who were informed about other methods they could use, and percentage who were informed of all three, according to method and initial source, Nigeria DHS 2018

	Among wor		last episode of mears preceding the	odern contracept ne survey:	ive method
Method/source	Percentage who were informed about side effects or problems of method used	Percentage who were informed about what to do if they experienced side effects	Percentage who were informed by a health or family planning worker of other methods that could be used	Percentage who were informed of all three (method information index)	Number of women
Method					
Female sterilisation IUD Injectables Implants Pill	(64.6) 88.1 71.8 83.1 51.7	(53.9) 85.8 65.9 77.3 41.5	(54.6) 95.7 83.6 87.9 64.0	(44.7) 84.8 63.0 73.7 39.3	30 182 921 981 412
Initial source of method1					
Public sector Government hospital Government health centre Family planning clinic Other public sector	80.5 82.4 78.7 83.9 (83.0)	75.2 76.3 73.5 82.9 (83.0)	88.7 92.0 86.0 96.3 (84.6)	72.2 74.8 69.5 81.8 (75.6)	1,910 762 1,040 65 43
Private sector Private hospital/clinic Private pharmacy Private chemist/PMS store Other private medical sector	54.2 78.2 41.4 40.5 69.9	44.1 72.8 26.3 30.6 57.4	64.1 90.1 50.4 51.2 72.7	40.8 71.3 23.2 26.4 51.8	581 169 144 219 49
Other source ²	(51.9)	(45.8)	(53.7)	(45.8)	29
Other Total	* 74.0	* 67.6	* 82.6	* 64.6	7 2,526

Note: Table includes users of only the methods listed individually. Figures in parentheses are based on 25-49 unweighted cases. As asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 7.10 Twelve-month contraceptive discontinuation rates

Among episodes of contraceptive use experienced within the 5 years preceding the survey, percentage of episodes discontinued within 12 months, according to reason for discontinuation and specific method, Nigeria DHS 2018

Method	Method failure	Desire to become pregnant	Other fertility- related reasons ¹	Side effects/ health concerns	Wanted more effective method	Other method- related reasons ²	Other reasons	Any reason ³	Switched to another method ⁴	Number of episodes of use ⁵
IUD	(2.1)	(6.4)	(0.0)	(3.7)	(1.6)	(0.2)	(1.5)	(15.5)	(1.5)	276
Injectables	2.4	13.4	3.1	22.7	4.9	4.1	4.1	54.7	3.0	1,916
Implants	1.1	3.8	0.3	8.9	0.4	0.3	0.9	15.7	1.6	1,241
Pilİ	7.3	14.5	3.8	13.4	6.2	4.7	2.5	52.3	6.6	1,141
Male condom	4.3	10.2	9.4	0.9	2.8	3.5	3.9	34.9	2.7	1,605
Emergency contraception	(6.0)	(10.5)	(8.7)	(9.4)	(3.3)	(2.0)	(2.5)	(42.4)	(5.7)	220
Rhythm	9.6	16.2	3.0	0.1	2.0	1.1	0.7	32.8	1.6	845
Withdrawal	10.5	15.8	4.7	0.1	3.5	1.4	2.5	38.5	2.2	1,646
Other ⁶	5.9	16.4	4.2	1.0	12.4	6.3	6.4	52.6	14.4	1,426
All methods	5.6	12.7	4.3	7.2	4.6	3.1	3.2	40.6	4.5	10,384

Note: Figures are based on life table calculations using information on episodes of use that occurred 3-62 months preceding the survey. Figures in parentheses are based on 125-249 women exposed to method use.

Includes infrequent sex/husband away, difficult to get pregnant/menopausal, and marital dissolution/separation

Source at start of current episode of use

 $^{^{\}rm 2}$ Includes shop, church, friend/relative, and nongovernmental organisation

Includes lack of access/too far, costs too much, and inconvenient to use
 Reasons for discontinuation are mutually exclusive and add to the total given in this column.
 A woman is considered to have switched to another method if she used a different method in the month following discontinuation or if she gave "wanted a more effective method" as the reason for discontinuation and started another method within 2 months of discontinuation

⁵ All episodes of use that occurred within the 5 years preceding the survey are included. Episodes of use include both episodes that were discontinued during the period of observation and episodes that were not discontinued during the period of observation.
⁶ Includes lactational amenorrhoea method (LAM), female condom, and standard days method

Table 7.11 Reasons for discontinuation

Percent distribution of discontinuations of contraceptive methods in the 5 years preceding the survey by main reason stated for discontinuation, according to specific method, Nigeria DHS 2018

						Emergency				
					Male	contra-				All
Reason	IUD	Injectables	Implants	Pill	condom	ception	Rhythm	Withdrawal	Other ¹	methods
Became pregnant while using	7.9	4.8	5.0	14.8	11.9	11.9	28.6	25.1	14.0	14.6
Wanted to become pregnant	45.5	29.0	31.4	32.7	34.4	26.7	47.1	43.3	31.8	35.3
Husband/partner disapproved	4.3	4.2	2.2	2.4	7.4	7.3	0.1	3.0	0.7	3.2
Wanted a more effective method	6.9	8.4	3.6	10.1	7.7	6.2	6.0	9.4	20.3	10.1
Side effects/health concerns	21.6	37.3	42.9	21.7	1.5	15.1	0.1	0.5	2.3	14.0
Lack of access/too far	0.0	1.9	1.0	1.5	0.5	0.0	0.0	0.0	0.6	8.0
Cost too much	0.0	1.4	0.1	0.9	0.5	2.5	0.0	0.0	0.1	0.5
Inconvenient to use	2.5	3.4	2.0	4.6	7.5	1.4	2.9	2.8	8.4	4.7
Up to God/fatalistic	0.0	0.3	1.0	0.3	0.3	0.0	0.3	0.2	0.5	0.3
Difficult to get pregnant/menopausal	0.6	0.3	0.8	0.3	0.2	0.0	1.1	0.2	0.3	0.4
Infrequent sex/husband away	2.2	5.7	4.1	8.1	23.9	26.5	10.1	12.5	8.3	11.0
Marital dissolution/separation	0.0	0.7	0.0	0.1	1.0	0.4	1.0	0.4	0.0	0.5
Other	8.6	2.0	4.9	2.3	1.8	2.1	2.4	1.5	11.1	3.7
Don't know	0.0	0.7	1.1	0.1	1.4	0.0	0.1	1.3	1.7	0.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of discontinuations	107	1,243	350	856	909	160	577	1,127	1,037	6,365

 $^{^{\}rm 1}$ Includes lactational amenorrhoea method (LAM), female condom, and standard days method

Table 7.12.1 Need and demand for family planning among currently married women

Percentage of currently married women age 15-49 with unmet need for family planning, percentage with met need for family planning, total demand for family planning, and percentage of the demand for family planning that is satisfied, according to background characteristics, Nigeria DHS 2018

	Unmet ne	ed for family	/ planning		d for family urrently usir		Total	demand for planning ¹	family		Percent-	Percent- age of demand satisfied
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	age of demand satisfied ²	by modern methods ³
Age												
15-19	11.9	0.2	12.2	3.1	0.1	3.2	15.0	0.3	15.3	1,927	20.6	15.0
20-24	15.5	0.6	16.1	10.5	0.4	10.9	26.0	0.9	27.0	4,362	40.3	30.5
25-29	15.2	1.8	17.1	14.2	2.1	16.3	29.4	3.9	33.4	6,060	48.9	37.0
30-34 35-39	15.0 11.8	5.8 11.4	20.8 23.1	13.4 10.4	6.3 12.9	19.7 23.3	28.4 22.2	12.1 24.3	40.6 46.5	5,417 4,841	48.7 50.2	34.7 35.7
40-44	5.9	16.5	22.4	5.1	16.0	21.1	11.0	32.5	43.4	3,457	48.5	34.2
45-49	3.4	13.2	16.6	0.8	12.3	13.0	4.2	25.4	29.6	3,026	44.0	30.7
Residence												
Urban	12.7	7.2	19.9	14.9	11.4	26.4	27.6	18.6	46.2	11,790	57.0	39.4
Rural	11.7	6.5	18.2	6.0	4.0	10.0	17.8	10.5	28.2	17,299	35.5	27.7
Zone												
North Central	12.9	7.6	20.5	8.9	7.2	16.2	21.9	14.8	36.7	4,086	44.1	37.6
North East North West	14.4 9.2	4.6 5.2	19.0 14.4	7.0 4.9	2.6 1.9	9.5 6.8	21.4 14.1	7.2 7.1	28.6 21.1	4,841 9,826	33.4 32.0	27.4 29.5
South East	10.2	7.4	17.7	13.5	14.6	28.1	23.8	22.0	45.8	2,893	61.4	28.1
South South	17.6	10.2	27.8	12.9	8.8	21.7	30.6	19.0	49.5	2,777	43.9	31.8
South West	12.9	9.3	22.3	18.8	16.4	35.1	31.7	25.7	57.4	4,666	61.2	42.4
State												
North Central	44.0		40.4		40.0							4= 0
FCT-Abuja	11.2	7.9	19.1	11.5	12.3	23.9	22.7	20.2	43.0	202	55.6	47.2
Benue Kogi	9.5 15.2	7.2 10.7	16.7 25.9	8.6 10.8	8.5 7.5	17.1 18.3	18.1 26.0	15.7 18.2	33.8 44.2	876 428	50.7 41.4	45.8 26.8
Kwara	13.2	11.3	24.4	8.7	13.7	22.4	21.8	25.1	46.8	486	47.9	36.6
Nasarawa	13.8	9.9	23.7	9.2	5.7	14.8	23.0	15.5	38.5	416	38.5	37.0
Niger	15.7	3.5	19.2	5.4	2.1	7.6	21.2	5.6	26.8	1,108	28.3	24.0
Plateau	10.8	9.0	19.8	13.9	8.8	22.7	24.7	17.8	42.4	570	53.4	50.4
North East			40.0			0= 4		40.0		20.4		
Adamawa Bauchi	3.3 14.1	6.9 6.7	10.2 20.8	19.4 4.8	5.7 1.7	25.1 6.5	22.7 18.9	12.6 8.4	35.2 27.3	624 1,134	71.1 23.8	51.7 18.9
Borno	24.2	1.8	26.0	4.0	2.2	6.2	28.2	4.0	32.2	953	19.3	16.8
Gombe	12.1	4.6	16.8	12.8	4.2	17.0	25.0	8.8	33.8	554	50.4	48.0
Taraba	8.5	4.6	13.1	6.2	4.0	10.3	14.8	8.6	23.4	580	43.8	36.5
Yobe	17.0	3.6	20.6	1.7	0.3	1.9	18.7	3.9	22.5	996	8.6	7.4
North West												
Jigawa	9.9	4.6	14.5	2.4	1.6	4.0	12.3	6.2	18.4	1,158	21.6	21.1
Kaduna Kano	6.6 10.5	5.7 6.0	12.3 16.5	10.4 5.0	4.5 1.3	14.9 6.3	17.0 15.5	10.1 7.3	27.2 22.8	1,975 2,085	54.8 27.8	50.6 24.7
Katsina	9.1	6.6	15.7	2.3	1.1	3.4	11.4	7.7	19.1	1,772	17.7	17.1
Kebbi	9.9	1.9	11.8	2.5	1.0	3.5	12.4	2.9	15.3	945	22.6	20.8
Sokoto	8.1	4.9	13.0	2.0	0.4	2.3	10.1	5.2	15.3	777	15.1	13.8
Zamfara	11.2	3.9	15.0	5.4	1.9	7.3	16.6	5.7	22.3	1,116	32.6	29.9
South East						40.0		40 =		0=0		20.4
Abia Anambra	17.4 5.9	11.1 3.7	28.5 9.6	5.4 22.0	7.4 22.6	12.9 44.6	22.8 27.9	18.5 26.3	41.4 54.2	376 905	31.1 82.3	26.1 31.8
Ebonyi	5.9 14.3	3.7 8.7	23.0	4.6	3.6	8.2	18.9	20.3 12.3	31.2	600	62.3 26.4	19.0
Enugu	5.4	8.4	13.8	12.3	18.7	30.9	17.7	27.1	44.8	458	69.1	39.2
Imo	12.0	9.0	21.0	15.8	14.9	30.7	27.8	23.9	51.7	554	59.4	21.1
South South												
Akwa Ibom	20.1	12.0	32.0	12.6	7.2	19.8	32.6	19.2	51.8	490	38.2	30.4
Bayelsa	17.7	12.2	29.9	1.7	1.9	3.7	19.4	14.1	33.5	195	10.9	9.9
Cross River Delta	26.8 13.3	7.6	34.5 23.7	10.8 10.3	9.3 6.2	20.0 16.5	37.6 23.6	16.9 16.5	54.5 40.2	318 551	36.8	34.6 32.0
Edo	20.3	10.3 12.4	23.7 32.7	8.9	6.2 10.5	19.4	23.6 29.2	16.5 22.9	40.2 52.0	370	41.1 37.2	32.0 28.9
Rivers	14.5	8.5	23.0	19.9	12.1	32.0	34.4	20.6	55.0	855	58.1	35.7
South West												
Ekiti	8.4	9.9	18.2	18.0	20.5	38.5	26.4	30.4	56.7	326	67.9	44.7
Lagos	9.2	7.3	16.5	28.1	21.4	49.4	37.3	28.7	65.9	1,645	75.0	44.1 33.4
Ogun Ondo	11.6 18.5	6.0 10.8	17.6 29.4	16.4 9.3	15.7 10.9	32.1 20.1	28.0 27.8	21.7 21.7	49.8 49.5	624 421	64.6 40.7	33.4 35.8
Osun	13.0	12.6	25.6	16.5	12.9	29.4	29.5	25.5	55.0	625	53.5	49.1
Oyo	18.8	11.8	30.6	10.9	11.7	22.6	29.7	23.5	53.2	1,024	42.5	41.8

Table 7.12.1—Continued

	Unmet ne	ed for family	/ planning		d for family urrently usir		Total o	demand for planning ¹	family	_	Percent-	Percent- age of demand satisfied by
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	demand satisfied ²	modern methods ³
Education												
No education	10.9	5.9	16.8	2.8	2.4	5.2	13.6	8.3	22.0	12,955	23.6	19.5
Primary	11.5	9.9	21.4	8.4	11.0	19.4	19.9	20.9	40.8	4,580	47.6	34.6
Secondary More than	14.5	6.8	21.2	16.9	9.9	26.8	31.4	16.7	48.1	8,767	55.8	39.6
secondary	11.5	5.6	17.1	20.6	12.7	33.3	32.1	18.3	50.4	2,788	66.0	45.0
Wealth quintile												
Lowest	10.8	5.5	16.3	2.7	1.7	4.4	13.5	7.1	20.7	6,008	21.1	17.8
Second	11.2	6.0	17.2	4.6	3.2	7.8	15.8	9.2	25.0	6,224	31.1	25.0
Middle	13.3	7.8	21.1	8.4	6.2	14.6	21.7	14.0	35.7	5,601	40.9	31.4
Fourth	13.7	7.9	21.6	14.4	10.8	25.2	28.0	18.8	46.8	5,599	53.9	38.3
Highest	11.7	6.9	18.6	19.1	13.9	33.0	30.8	20.8	51.6	5,657	64.0	43.2
Total	12.1	6.8	18.9	9.6	7.0	16.6	21.8	13.8	35.5	29,090	46.9	33.9

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012.

¹ Total demand is the sum of unmet need and met need.

² Percentage of demand satisfied is met need divided by total demand.

³ Modern methods include female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods.

Table 7.12.2 Need and demand for family planning for all women and for sexually active unmarried women

Percentage of all women and sexually active unmarried women age 15-49 with unmet need for family planning, percentage with met need for family planning, total demand for family planning, and percentage of the demand for family planning that is satisfied, according to background characteristics, Nigeria DHS 2018

	Unme	et need for to planning	family		d for family urrently usir		Total	demand for planning ¹	family	_	Percent-	Percent- age of demand satisfied
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	age of demand satisfied ²	by modern methods ³
					ALL V	VOMEN						
Age												
15-19	5.6	0.1	5.7	2.9	0.0	2.9	8.5	0.1	8.6	8,448	34.1	27.5
20-24	13.9	0.4	14.3	11.6	0.3	11.9	25.5	0.7	26.2	6,835	45.5	34.6
25-29	14.9	1.6	16.5	15.1	1.9	17.0	30.1	3.4	33.5	7,255	50.8	39.0
30-34	14.3	5.3	19.6	14.3	5.8	20.1	28.6	11.1	39.7	6,178	50.7	35.9
35-39	10.9	10.5	21.4	10.4	12.0	22.5	21.3	22.6	43.9	5,463	51.2	36.8
40-44	5.4 2.9	15.0	20.4	5.0	14.8	19.8	10.4	29.8	40.2	3,940	49.2 45.7	35.1
45-49	2.9	11.1	14.0	0.7	11.0	11.7	3.6	22.1	25.7	3,701	45.7	32.6
Residence												
Urban	10.1	4.6	14.7	12.5	7.4	19.9	22.5	12.0	34.6	19,163	57.5	40.5
Rural	10.5	5.1	15.6	6.3	3.3	9.6	16.8	8.4	25.2	22,658	38.1	30.1
Zone												
North Central	10.7	5.6	16.3	8.0	5.3	13.3	18.7	10.9	29.6	5,891	44.9	38.7
North East	12.4	3.5	15.9	6.4	1.9	8.4	18.8	5.4	24.2	6,636	34.4	28.6
North West	7.6	4.1	11.7	4.2	1.5	5.7	11.8	5.7	17.5	12,225	32.9	30.5
South East	8.1	4.5	12.6	11.9	9.1	21.0	20.0	13.6	33.6	4,963	62.4	31.5
South South	14.1	6.2	20.2	14.5	6.0	20.6	28.6	12.2	40.8	4,840	50.4	37.9
South West	11.5	6.3	17.8	15.3	10.9	26.2	26.8	17.3	44.0	7,266	59.6	41.8
Education												
No education	10.0	5.3	15.3	2.6	2.2	4.8	12.6	7.5	20.1	14,603	23.9	19.9
Primary	9.8	7.9	17.7	7.3	9.0	16.3	17.1	16.9	34.0	6,039	47.9	35.5
Secondary	10.7	3.8	14.5	12.9	5.6	18.5	23.5	9.4	32.9	16,583	56.0	40.4
More than				40.0				44.0		. =00		
secondary	10.5	3.6	14.0	18.8	8.0	26.8	29.3	11.6	40.8	4,596	65.7	46.6
Wealth quintile												
Lowest	9.9	4.6	14.5	2.6	1.5	4.1	12.4	6.1	18.5	7,222	21.9	18.7
Second	9.9	4.9	14.8	4.5	2.7	7.2	14.5	7.5	22.0	8,045	32.8	26.8
Middle	10.9	5.6	16.5	8.1	4.5	12.6	19.0	10.2	29.2	8,207	43.3	33.5
Fourth	11.1	5.1	16.2	12.7	7.3	20.0	23.8	12.4	36.2	8,990	55.2	39.7
Highest	9.6	4.3	13.9	15.6	8.7	24.3	25.1	13.0	38.2	9,357	63.7	44.1
Total	10.3	4.9	15.2	9.1	5.2	14.3	19.4	10.1	29.5	41,821	48.5	35.7
				SEXUALL'	Y ACTIVE I	JNMARRII	ED WOMEN	J ⁴				
Age												
15-19	64.5	1.1	65.6	27.8	0.4	28.3	92.4	1.5	93.9	310	30.1	23.7
20-24	51.1	0.3	51.4	36.8	0.3	37.1	87.9	0.6	88.5	450	41.9	31.8
25-29	46.0	0.0	46.0	40.2	1.3	41.5	86.2	1.3	87.5	309	47.4	36.5
30-34	32.8	4.9	37.7	45.5	5.1	50.6	78.3	10.0	88.3	199	57.3	35.7
35-39	19.3	15.2	34.5	25.1	10.2	35.3	44.4	25.3	69.8	132	50.6	39.2
40-44 45-40	10.4	30.8	41.2	16.7	11.9	28.6	27.1	42.8	69.8	71	40.9	34.6
45-49	4.3	21.5	25.8	3.9	23.1	27.0	8.2	44.6	52.8	63	51.2	46.0
Residence												
Urban	42.4	3.3	45.7	35.8	3.3	39.1	78.2	6.6	84.8	909	46.1	33.3
Rural	46.0	6.3	52.3	30.2	3.7	34.0	76.2	10.1	86.3	626	39.4	31.3
Zone												
North Central	45.3	10.8	56.1	28.6	3.4	32.0	73.9	14.2	88.1	185	36.3	33.4
North East	59.7	3.0	62.7	28.4	1.3	29.7	88.1	4.3	92.4	193	32.2	27.1
North West	(38.3)	(0.0)	(38.3)	(50.9)	(0.0)	(50.9)	(89.2)	(0.0)	(89.2)	44	(57.0)	(57.0)
South East	40.0	3.5	43.5	41.9	6.4	48.3	81.9	9.9	91.8	194	52.6	29.9
South South	35.9	2.9	38.8	38.5	4.0	42.6	74.5	6.9	81.3	477	52.3	40.0
South West	47.2	5.3	52.6	26.9	2.9	29.8	74.2	8.2	82.4	442	36.2	25.3
Education												
No education	48.4	9.7	58.1	9.9	7.4	17.3	58.3	17.2	75.4	89	23.0	22.6
Primary	32.5	12.7	45.2	20.7	10.8	31.4	53.2	23.5	76.6	157	41.0	35.7
Secondary	45.7	3.7	49.4	36.3	2.6	38.9	82.0	6.3	88.3	930	44.1	31.8
More than				o - -								
secondary	43.1	1.9	45.0	37.7	1.6	39.2	80.8	3.4	84.2	360	46.6	35.3

Table 7.12.2—Continued

	Unme	et need for f	amily		d for family urrently usir		Total	demand for planning ¹	family	_	Percent-	Percent- age of demand satisfied
Background characteristic	For spacing	For limiting	Total	For spacing	For limiting	Total	For spacing	For limiting	Total	Number of women	age of demand satisfied ²	by modern methods ³
Wealth quintile												
Lowest	61.4	5.6	66.9	12.6	6.1	18.7	74.0	11.7	85.7	83	21.8	21.2
Second	44.0	9.8	53.8	25.1	4.9	30.0	69.1	14.7	83.9	172	35.8	31.5
Middle	45.8	7.8	53.6	29.9	3.9	33.8	75.7	11.7	87.4	282	38.7	28.4
Fourth	40.0	2.5	42.5	40.2	2.8	43.0	80.2	5.3	85.5	495	50.3	36.7
Highest	43.7	2.8	46.5	35.2	3.0	38.2	78.9	5.8	84.7	503	45.1	32.8
Total	43.9	4.5	48.4	33.5	3.5	37.0	77.4	8.0	85.4	1,535	43.3	32.5

Note: Numbers in this table correspond to the revised definition of unmet need described in Bradley et al. 2012. Figures in parentheses are based on 25-49 unweighted cases.

Total demand is the sum of unmet need and met need.
 Percentage of demand satisfied is met need divided by total demand.
 Modern methods include female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods.
 Women who have had sexual intercourse within 30 days preceding the survey

Table 7.13 Decision making about family planning

Among currently married women age 15-49 who are current users of family planning, percent distribution by who makes the decision to use family planning, and among currently married women who are not currently using family planning, percent distribution by who makes the decision not to use family planning, according to background characteristics, Nigeria DHS 2018

		currently mar rent users of						urrently mar urrently using				
Background characteristic	Mainly wife	Wife and husband jointly	Mainly husband	Other/ don't know/ missing	Total	Number of women	Mainly wife	Wife and husband jointly	Mainly husband	Other/ don't know/ missing	Total	Number of women
Age 15-19	16.7	66.1	17.2	0.0	100.0	61	37.8	37.1	23.4	1.8	100.0	1,364
20-24	20.2	61.9	17.3	0.6	100.0	474	37.5	38.0	23.1	1.4	100.0	2,973
25-29	18.3	69.0	12.4	0.3	100.0	988	35.9	40.8	21.3	2.0	100.0	3,925
30-34	23.7	67.5	8.2	0.6	100.0	1,070	36.0	43.2	19.3	1.6	100.0	3,532
35-39	23.9	67.6	8.3	0.2	100.0	1,129	37.1	44.1	17.0	1.8	100.0	3,225
40-44 45-49	27.9 28.6	64.1 62.3	8.0 9.1	0.0 0.0	100.0 100.0	728 394	40.7 41.9	41.5 42.1	16.2 13.2	1.6 2.8	100.0 100.0	2,539 2,574
Number of living children	20.0	02.0	9.1	0.0	100.0	334	41.5	72.1	10.2	2.0	100.0	2,514
0	(21.5)	(64.7)	(13.7)	(0.0)	100.0	44	34.3	42.8	18.2	4.6	100.0	1,496
1-2	19.4	68.3	11.7	0.5	100.0	1,418	35.7	45.2	17.2	1.9	100.0	6,398
3-4	23.7	67.1	9.1	0.1	100.0	1,820	36.6	42.6	19.3	1.5	100.0	5,735
5+	26.2	63.7	9.9	0.2	100.0	1,562	41.9	36.1	20.7	1.3	100.0	6,503
Residence												
Urban	22.9	68.0	8.8	0.3	100.0	3,108	36.1	47.7	14.0	2.2	100.0	7,237
Rural	23.9	63.3	12.6	0.3	100.0	1,735	38.8	37.8	21.8	1.6	100.0	12,894
Zone North Central	18.6	67.8	13.3	0.3	100.0	660	37.4	35.2	22.7	4.8	100.0	2,814
North East	31.0	48.0	20.7	0.3	100.0	462	37. 4 30.6	39.0	22.7 29.8	4.6 0.7	100.0	3,590
North West	21.6	63.9	14.0	0.5	100.0	664	48.1	30.8	20.6	0.5	100.0	7,512
South East	21.3	71.9	6.3	0.5	100.0	813	31.1	53.2	11.8	3.9	100.0	1,723
South South	21.1	71.6	7.4	0.0	100.0	603	35.7	49.2	13.8	1.2	100.0	1,885
South West	25.3	67.2	7.3	0.2	100.0	1,640	24.9	68.2	4.0	2.9	100.0	2,608
State North Central												
FCT-Abuja	31.3	58.5	10.2	0.0	100.0	48	31.4	52.0	15.5	1.0	100.0	134
Benue	13.9	71.9	13.3	0.9	100.0	150	39.7	31.5	19.6	9.2	100.0	595
Kogi	30.5	54.8	13.9	0.8	100.0	78	54.8	38.1	6.8	0.2	100.0	281
Kwara	12.6	84.6	2.9	0.0	100.0	109	24.7	65.2	9.2	0.9	100.0	311
Nasarawa	15.1	60.1	24.8	0.0	100.0	62	21.0	44.2	34.7	0.1	100.0	302
Niger Plateau	19.6 18.1	48.7 76.4	31.7 5.5	0.0 0.0	100.0 100.0	84 129	34.5 54.8	21.8 30.7	37.1 9.0	6.6 5.5	100.0 100.0	857 334
	10.1	70.4	3.3	0.0	100.0	123	54.0	30.7	9.0	5.5	100.0	334
North East Adamawa	26.9	49.2	23.6	0.3	100.0	156	26.1	63.0	10.8	0.2	100.0	380
Bauchi	29.7	56.0	12.8	1.6	100.0	74	35.8	37.6	25.1	1.5	100.0	848
Borno	(25.5)	(32.3)	(42.2)	(0.0)	100.0	59	21.9	34.1	44.0	0.0	100.0	721
Gombe	`51.5 [´]	`41.6	6.9	0.0	100.0	94	40.5	49.9	8.9	0.7	100.0	380
Taraba	21.2	71.7	7.1	0.0	100.0	59	15.6	60.9	23.0	0.6	100.0	431
Yobe	*	*	*	*	100.0	19	37.9	17.2	44.1	0.8	100.0	832
North West												
Jigawa	(27.6)	(47.2)	(25.2)	(0.0)	100.0	46	61.2	26.3	12.5	0.1	100.0	903
Kaduna Kano	17.2 35.1	71.4 50.9	11.0 13.4	0.3 0.6	100.0 100.0	294 132	59.4 64.5	17.2 16.6	22.3 18.4	1.1 0.6	100.0 100.0	1,401 1,547
Katsina	(18.8)	(74.3)	(4.7)	(2.2)	100.0	60	48.1	36.4	15.5	0.0	100.0	1,431
Kebbi	(14.2)	(76.2)	(9.6)	(0.0)	100.0	33	21.5	67.2	11.3	0.0	100.0	748
Sokoto	*	*	* *	*	100.0	18	29.7	33.0	34.9	2.3	100.0	629
Zamfara	14.6	63.6	21.8	0.0	100.0	81	22.6	40.6	36.8	0.0	100.0	853
South East												
Abia	8.1	86.2	5.7	0.0	100.0	48	18.1	76.6	5.2	0.0	100.0	294
Anambra	12.5	83.0	4.0	0.5	100.0	404	17.7	72.6	5.6	4.1	100.0	389
Ebonyi	30.9	64.1	5.0	0.0	100.0	49	47.4	25.4	26.3	0.9	100.0	467
Enugu Imo	17.3 46.6	65.2 49.6	17.6 2.8	0.0 1.0	100.0 100.0	142 170	16.3 48.2	69.6 34.4	12.7 3.2	1.3 14.2	100.0 100.0	264 309
	40.0	40.0	2.0	1.0	100.0	170	40.∠	04.4	0.2	17.2	100.0	000
South South Akwa Ibom	21.9	62.5	15.7	0.0	100.0	97	45.1	38.6	15.0	1.3	100.0	345
Bayelsa	21.9 *	۷۷.5 *	15.7	*	100.0	97 7	6.6	30.0 31.1	62.1	0.2	100.0	163
Cross River	22.5	69.0	8.5	0.0	100.0	64	38.0	50.0	11.4	0.6	100.0	232
Delta	28.2	65.6	6.2	0.0	100.0	91	33.6	58.4	8.0	0.0	100.0	384
Edo	27.9	66.8	5.3	0.0	100.0	72	66.0	24.6	5.5	4.0	100.0	256
Rivers	16.9	79.0	4.1	0.0	100.0	273	23.9	67.5	7.1	1.4	100.0	505
South West Ekiti	37.9	50.4	11.7	0.0	100.0	125	49.9	43.4	5.9	0.8	100.0	171
Lagos	32.3	58.2	9.1	0.4	100.0	813	30.5	60.4	4.2	5.0	100.0	680
Ogun	10.5	77.5	12.0	0.0	100.0	201	5.2	83.6	11.2	0.0	100.0	368
Ondo	20.3	77.7	1.9	0.0	100.0	85	35.8	57.0	2.8	4.5	100.0	291
Osun	23.1	74.7	2.2	0.0	100.0	184	16.2	81.4	2.4	0.0	100.0	395
Oyo	10.1	89.3	0.5	0.0	100.0	231	24.1	70.9	0.9	4.1	100.0	703

Table 7.13—Continued Among currently married women who are Among currently married women who are current users of family planning not currently using family planning Other/ Other/ Wife and don't Number Wife and don't Number Background Mainly Mainly Mainly Mainly husband know/ husband know/ husband characteristic wife missing Total husband missing Total jointly women wife jointly women Education No education 30.6 50.6 18.3 0.5 100.0 674 40.1 33.2 25.3 100.0 10,241 1.4 Primary 26.5 63.5 9.7 0.3 100.0 890 40.9 42.0 14.4 2.6 100.0 3,164 8.6 8.7 Secondary 21.5 69.8 0.2 100.0 2,352 34.1 51.6 12.4 100.0 5,187 More than secondary 19.2 71.8 0.4 100.0 928 29.2 59.2 8.6 3.1 100.0 1,540 Wealth quintile 35.8 52.9 11.3 0.0 100.0 262 38.7 34.7 25.1 100.0 4,757 Lowest 1.4 Second 22.4 62.0 15.2 0.3 100.0 485 40.6 34.9 22.6 1.9 100.0 4,728 1.2 Middle 22.8 64.9 11.8 0.5 100.0 818 40.8 39.0 19.0 100.0 3,946 9.2 8.7 0.3 Fourth 25.6 65.0 100.0 1,412 37.5 46.2 14.3 100.0 3,511 Highest 20.1 71.0 0.2 100.0 1,867 29.1 58.4 9.6 2.9 100.0 3,190 23.2 66.3 10.1 0.3 100.0 4,843 37.8 41.3 19.0 1.8 100.0 20,132 Total

Note: Table excludes women who are currently pregnant. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 7.14 Future use of contraception

Percent distribution of currently married women age 15-49 who are not using a contraceptive method by intention to use in the future, according to number of living children, Nigeria DHS 2018

		Numb	er of living o	:hildren1		
Intention to use in the future	0	1	2	3	4+	Total
Intends to use	26.0	39.4	40.4	37.0	32.5	35.2
Unsure	9.7	9.5	7.3	6.8	4.9	6.6
Does not intend to use	64.3	51.1	52.3	56.2	62.6	58.1
Total	100.0	100.0	100.0	100.0	100.0	100.0
Number of women	1,496	3,842	4,133	3,763	11,013	24,246

¹ Includes current pregnancy

Table 7.15.1 Exposure to family planning messages: Women

Percentage of women age 15-49 who heard or saw a family planning message on radio, on television, in a newspaper or magazine, or on a mobile phone in the past few months, according to background characteristics, Nigeria DHS 2018

		N	ledia source	S				(Other source	es		
Background characteristic	Radio	Television	News- paper/ magazine	Mobile phone	None of these four media sources ¹	Social media	Poster	Leaflet or brochure	Town crier	Mobile public announce- ment	None of these sources ²	Number of women
Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49	19.9 29.6 34.2 35.9 37.6 36.1 32.6	11.3 16.8 20.8 23.5 22.6 20.5 17.3	2.2 4.1 5.3 6.1 5.3 5.1 3.7	1.7 4.0 4.6 4.6 4.3 3.9 2.7	75.8 65.8 61.6 59.4 58.7 60.4 64.8	3.9 5.9 6.2 6.4 5.3 4.3 2.8	10.2 18.3 20.9 21.1 21.2 18.3 15.9	3.9 7.4 9.0 9.0 9.2 7.8 6.0	3.9 6.8 6.2 7.5 8.2 7.8 7.1	4.8 7.6 8.1 9.3 10.5 9.5 8.2	69.3 57.5 53.6 52.3 51.2 53.0 58.7	8,448 6,835 7,255 6,178 5,463 3,940 3,701
Residence Urban Rural	41.7 22.5	30.8 8.2	7.2 2.1	5.3 2.2	51.7 75.6	8.7 2.1	24.2 12.2	11.7 3.7	9.0 4.4	12.4 4.2	44.2 68.4	19,163 22,658
Zone North Central North East North West South East South South South West	18.7 14.0 30.6 47.9 34.0 45.4	11.7 5.5 9.4 26.4 26.0 41.0	2.3 1.6 0.8 11.5 7.8 7.8	2.7 1.6 0.9 7.0 8.3 5.5	78.0 83.5 66.7 50.3 59.3 46.5	2.2 1.8 1.0 11.5 7.2 11.8	11.3 13.7 12.9 30.1 24.5 21.7	3.3 3.7 3.4 16.3 6.6 15.1	1.4 1.7 2.4 7.6 9.3 19.4	2.9 2.2 0.7 8.0 12.4 26.7	71.2 75.2 60.2 44.5 50.4 38.2	5,891 6,636 12,225 4,963 4,840 7,266
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	24.2 16.6 15.4 34.5 29.7 13.3 10.3	21.7 13.9 8.7 19.9 14.9 6.8 6.1	5.3 2.8 1.8 1.8 5.5 1.2	7.0 1.8 0.6 0.8 3.8 5.5	68.2 79.8 82.1 62.5 66.9 83.7 87.3	5.8 2.5 1.6 2.1 4.0 1.3 1.0	15.9 12.4 5.6 27.8 20.7 2.4 6.1	3.6 0.4 3.1 13.2 3.6 0.8 3.6	2.2 0.6 0.4 4.7 1.8 0.8 1.0	2.9 3.7 0.3 11.3 2.6 0.9 0.3	59.4 72.4 78.6 47.5 54.3 81.7 83.3	319 1,354 654 684 648 1,357 875
North East Adamawa Bauchi Borno Gombe Taraba Yobe	11.4 17.3 8.5 27.5 4.2 17.7	6.9 4.8 2.7 6.4 2.1 10.1	3.1 1.7 0.7 0.6 0.1 3.0	0.6 1.7 1.6 1.3 0.1 3.1	85.4 81.0 89.5 71.1 94.4 77.4	1.5 1.5 1.8 0.7 0.7 3.4	16.3 15.0 4.7 34.3 2.8 16.5	7.6 3.5 2.8 0.2 0.5 6.1	0.3 4.3 0.5 0.2 1.0 2.6	1.7 3.5 0.3 0.2 1.6 4.8	77.6 71.4 85.7 52.4 90.6 67.7	903 1,343 1,469 717 877 1,327
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	22.3 39.4 39.8 17.5 16.5 41.1 31.6	3.2 24.5 9.2 4.2 7.1 5.2 1.6	0.3 1.7 0.5 0.6 0.8 1.3 0.2	0.1 1.8 0.6 0.4 0.1 3.1 0.4	76.7 53.3 58.3 80.7 82.5 57.5 67.8	0.1 1.4 1.6 0.9 0.1 1.0 0.8	5.1 28.0 13.7 10.2 9.9 5.0 3.6	0.3 11.9 1.2 0.8 3.4 1.2 0.9	2.3 0.4 0.7 8.8 2.4 0.9 0.1	0.1 0.5 0.5 1.8 0.6 0.8 0.1	72.7 45.3 53.8 67.1 73.4 56.8 67.1	1,382 2,493 2,692 2,283 1,136 910 1,328
South East Abia Anambra Ebonyi Enugu Imo	50.6 53.1 60.4 42.7 29.0	34.4 35.1 17.3 33.8 10.5	21.0 8.2 7.4 20.2 6.5	18.8 2.8 4.1 13.3 3.3	47.8 44.3 38.5 56.6 68.2	19.1 8.2 13.6 11.8 9.1	32.9 35.0 37.7 18.3 23.4	30.3 10.9 14.4 23.4 10.9	27.5 2.6 5.5 9.9 2.2	32.1 1.7 4.2 9.0 5.0	41.3 37.4 32.4 55.2 60.8	630 1,477 1,027 880 948
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	42.0 19.1 40.9 19.5 30.8 39.3	27.0 12.5 18.8 21.1 34.6 30.6	11.2 4.4 7.6 4.7 4.0 9.7	7.8 1.8 5.4 2.3 1.5	53.0 77.3 52.1 72.2 59.0 54.5	9.7 2.1 6.7 3.5 2.9 10.7	19.7 10.7 14.5 29.2 20.3 32.5	10.6 4.2 4.1 11.8 1.6 4.1	3.7 10.0 24.5 4.3 0.4 13.2	4.0 9.5 17.3 13.6 4.6 18.5	47.7 65.2 40.3 55.1 54.1 48.7	948 298 574 931 555 1,534
South West Ekiti Lagos Ogun Ondo Osun Oyo	48.7 44.5 17.4 27.1 46.0 74.2	16.7 48.9 17.3 18.7 44.9 57.5	5.9 10.7 1.7 4.7 1.7	4.4 5.7 2.4 4.9 1.6 10.4	48.8 42.9 79.0 66.4 51.0 17.8	2.4 21.7 1.8 4.4 2.5 10.9	27.1 21.8 7.1 11.2 6.1 45.6	5.2 16.9 2.4 3.5 5.1 36.4	4.9 9.6 1.2 7.4 3.5 74.9	3.5 22.6 9.1 10.9 5.3 78.7	44.4 35.0 70.9 56.0 50.1 3.4	475 2,891 927 683 938 1,352
Education No education Primary Secondary More than secondary	19.6 30.1 36.4 51.8	3.5 14.0 25.2 48.3	0.3 1.5 5.0 19.4	0.5 1.2 4.2 14.4	79.5 67.3 58.2 37.1	0.4 1.5 5.8 22.7	7.6 15.7 22.0 36.8	1.6 4.7 9.6 20.8	2.6 7.6 8.6 10.1	2.2 7.4 11.1 15.8	73.2 59.5 50.1 30.1	14,603 6,039 16,583 4,596

Table	7.15.1—Continued
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		N	1edia source	S		Other sources							
Background characteristic	Radio	Television	News- paper/ magazine	Mobile phone	None of these four media sources ¹	Social media	Poster	Leaflet or brochure	Town crier	Mobile public announce- ment	None of these sources ²	Number of women	
Wealth quintile													
Lowest	16.6	1.7	0.4	0.3	83.1	0.6	6.9	1.4	2.0	1.1	77.7	7,222	
Second	20.3	3.7	0.6	0.8	78.6	0.8	10.4	2.3	3.5	2.5	70.6	8,045	
Middle	29.7	11.3	2.2	2.0	68.1	2.3	15.7	5.0	6.1	6.2	60.1	8,207	
Fourth	39.3	26.7	5.4	4.5	55.5	5.5	23.5	10.2	9.5	12.0	47.3	8,990	
Highest	45.8	42.8	11.8	9.1	44.2	14.5	28.5	15.6	10.2	15.8	37.2	9,357	
Total	31.3	18.5	4.4	3.6	64.6	5.1	17.7	7.4	6.5	8.0	57.3	41,821	

¹ Radio, television, newspaper or magazine, or mobile phone ² Includes those with no exposure to any source (radio, television, newspaper or magazine, mobile phone, social media, poster, leaflet or brochure, town crier, or mobile public announcement)

Table 7.15.2 Exposure to family planning messages: Men

Percentage of men age 15-49 who heard or saw a family planning message on radio, on television, in a newspaper or magazine, or on a mobile phone in the past few months, according to background characteristics, Nigeria DHS 2018

		N	ledia source	s				(Other source			
Background characteristic	Radio	Television	News- paper/ magazine	Mobile phone	None of these four media sources ¹	Social media	Poster	Leaflet or brochure	Town crier	Mobile public announce- ment	None of these sources ²	Number of men
Age	radio	TCICVISION	magazine	prioric	3001003	media	1 03(0)	broonare	TOWIT CITC	mont	3001003	men
15-19	19.5	11.5	4.4	2.5	75.9	5.9	12.6	7.2	6.3	8.3	67.3	2,415
20-24	31.4	18.5	11.9	8.0	63.0	14.7	24.0	16.2	10.1	12.5	52.1	1,472
25-29	40.3	22.4	13.6	8.2	54.3	16.3	27.1	15.3	9.0	11.6	45.3	1,599
30-34 35-39	46.4	28.4 28.6	15.7 16.9	9.8 9.9	49.0	13.9	27.2 29.5	17.5 21.2	11.4 12.0	15.0	41.6 39.6	1,792 1,832
35-39 40-44	48.8 50.5	29.6	18.9	9.9 9.6	46.8 45.1	13.0 14.0	29.5 29.5	19.0	14.0	16.5 15.1	39.6 39.7	1,632
45-49	48.7	27.1	15.7	7.8	46.3	8.9	28.2	19.2	11.2	16.8	39.5	1,188
Residence												
Urban	50.1	35.4	20.3	11.3	43.3	18.2	32.7	22.5	12.4	17.0	35.0	5,512
Rural	30.1	12.2	7.2	4.5	66.6	6.7	17.5	10.2	8.4	10.1	59.0	6,356
Zone												
North Central	20.9	13.9	7.7	5.4	73.0	8.9	12.8	7.1	2.8	8.1	64.2	1,704
North East North West	32.2 34.9	17.2 12.7	9.8 7.8	6.6 5.7	64.8 60.3	8.6 11.2	24.6 23.4	8.8 15.7	6.8 11.9	8.1 13.3	57.6 50.0	1,936 3,195
South East	57.2	30.3	21.5	11.5	37.5	11.7	38.0	25.6	11.5	10.5	30.2	1,355
South South	35.6	24.6	12.7	7.2	57.5	12.2	14.9	10.5	6.4	10.0	49.9	1,438
South West	57.7	44.0	23.6	11.0	38.5	18.8	33.3	26.6	18.5	25.4	33.3	2,240
State												
North Central												
FCT-Abuja	14.5	17.9	5.2	1.7	75.2	1.7	20.8	3.7	0.2	1.2	67.0	96
Benue	17.9	10.6	9.6	3.4	79.4	6.6	4.8	3.9 9.5	3.0	3.5 15.0	76.1	351 156
Kogi Kwara	(28.7) 37.0	(23.5) 27.7	(16.7) 11.0	(6.1) 6.4	(55.2) 51.1	26.0 11.9	16.8 16.4	9.5 10.6	9.8 4.4	15.0	46.6 47.8	156 208
Nasarawa	35.2	18.9	7.5	13.0	56.6	13.2	10.4	5.3	1.9	28.8	38.5	206
Niger	(11.5)	(7.1)	(2.1)	(2.8)	(86.6)	4.2	17.7	9.8	1.2	1.3	72.4	442
Plateau	`14.1 [′]	`7.4	`7.6 [′]	`6.9 [′]	82.2	6.3	8.8	5.1	1.5	1.5	77.9	246
North East												
Adamawa	6.3	2.4	0.9	0.0	93.2	1.5	12.8	1.8	0.0	0.2	85.4	218
Bauchi	(22.6)	(6.9)	(4.2)	(1.8)	(74.7)	4.9	15.6	5.9	7.6	7.0	65.8	420
Borno	(61.0)	(46.7)	(30.7)	(25.7)	(34.0)	27.0	50.7	22.2	20.7	21.9	28.6	398
Gombe	44.3	12.5	5.3	1.2	53.5	2.8	55.1	7.6	0.6	4.3	37.1	240
Taraba Yobe	(20.0)	(10.0)	(1.6)	(0.7)	(79.0) *	6.9 3.2	12.4 5.2	12.7 2.2	3.3 2.1	2.4 5.2	72.3 66.4	187 472
North West												
Jigawa	(18.6)	(1.8)	(0.8)	(8.0)	(80.3)	3.2	3.3	1.9	0.4	0.5	78.7	291
Kaduna	34.9	23.8	15.3	15.6	52.1	17.9	38.1	38.0	42.7	46.9	23.5	636
Kano	43.9	14.4	9.6	7.1	50.7	13.5	15.9	11.3	10.1	5.1	45.4	676
Katsina	*	*	*	*	*	18.3	40.2	17.1	2.5	9.8	38.5	687
Kebbi Sokoto	*	*	*	*	*	4.7 2.7	34.5 1.2	15.2 3.0	4.1 2.8	5.1 3.7	41.1 88.3	291 218
Zamfara	(10.1)	(2.6)	(2.0)	(8.0)	(87.1)	0.0	2.7	2.4	0.8	0.4	84.9	396
South East	, ,	, ,	, ,	, ,	, ,							
Abia	(68.5)	(63.1)	(42.4)	(32.8)	(20.3)	20.9	69.4	42.6	31.1	30.4	7.8	185
Anambra	74.2	40.8	`27.7	6.8	23.5	11.6	49.8	47.0	15.7	8.6	19.1	409
Ebonyi	(67.0)	(17.2)	(8.2)	(1.1)	(32.2)	3.9	35.3	5.6	2.4	3.0	28.7	233
Enugu Imo	47.7 29.1	9.1 20.7	5.3 20.9	3.3	48.2	3.0 17.0	29.1 13.2	12.5 11.6	1.8 7.3	3.1	28.5 57.9	192 337
	29.1	20.7	20.9	17.2	61.7	17.0	13.2	11.0	1.3	11.4	57.9	331
South South Akwa Ibom	22.2	15.0	5.9	2.0	72.6	5.4	8.0	7.7	5.1	1 9	65.2	201
Bavelsa	22.2	15.0 *	5.8 *	2.9	72.6 *	5.4 14.5	8.0 42.5	7.7 35.6	5.1 8.6	4.8 15.4	65.2 27.2	291 109
Cross River	(63.0)	(41.3)	(30.5)	(8.4)	(31.6)	16.2	35.7	22.1	14.9	15.1	27.0	137
Delta	27.1	29.3	14.5	8.5	65.2	13.5	8.1	6.9	10.6	20.9	58.7	326
Edo	(38.1)	(29.4)	(14.1)	(2.0)	(56.8)	10.1	13.0	5.5	2.9	2.1	52.1	140
Rivers	38.5	17.8	10.1	9.7	54.0	14.7	11.6	6.8	1.9	5.1	45.3	435
South West	E 4 7	20.4	17.0	12.0	44.0	15.0	20.0	22.4	04.4	26.2	20.0	400
Ekiti Lagos	54.7 74.5	28.1 65.1	17.9 32.7	13.6 11.5	41.6 21.2	15.0 25.7	28.8 53.0	23.4 40.6	24.4 13.1	26.3 24.7	28.8 14.0	139 845
Ogun	4.8	1.0	0.7	1.1	93.5	0.5	2.6	0.9	0.0	0.2	92.4	309
Ondo	68.5	44.4	18.8	8.8	20.7	19.5	29.1	17.5	46.0	54.2	14.2	247
Osun	36.6	23.6	14.4	1.1	62.8	6.0	12.4	3.9	0.9	3.8	59.9	269
Oyo	70.7	51.0	32.4	23.5	27.1	27.3	33.6	37.9	35.6	41.4	24.7	432
Education												
No education	22.7	4.7	1.0	0.7	76.4	1.2	10.5	4.5	6.2	7.7	68.4	2,555
Primary	41.3	15.4	5.6	3.2	56.3	2.2	18.1	11.6	9.7	12.0	49.6	1,590
Secondary More than secondary	39.9 57.4	25.0 46.1	12.1 38.2	6.8 22.3	54.6 32.8	11.5 35.1	26.1 43.0	16.4 32.3	10.5 15.5	13.2 21.6	46.5 24.4	5,697 2,025
wore man secondary	57.4	40.1	JU.Z	22.3	J2.0	JJ. I	+3.0	32.3	10.0	Z 1.U	24.4	2,020

		N	ledia source	S		Other sources							
Background characteristic	Radio	Television	News- paper/ magazine	Mobile phone	None of these four media sources ¹	Social media	Poster	Leaflet or brochure	Town crier	Mobile public announce- ment	None of these sources ²	Number of men	
Wealth quintile													
Lowest	18.6	2.0	1.0	8.0	80.6	1.1	7.7	2.3	2.9	3.1	76.5	1,991	
Second	30.6	7.1	3.7	2.6	66.6	5.1	18.5	9.0	7.5	10.2	58.1	2,123	
Middle	37.3	16.5	8.4	4.6	58.9	7.4	21.7	13.6	10.0	12.8	49.0	2,393	
Fourth	47.2	30.9	16.4	8.8	46.1	14.1	28.5	20.1	14.0	16.5	37.3	2,590	
Highest	55.6	48.4	30.7	18.0	36.0	27.4	40.2	28.9	14.5	20.4	28.3	2,770	
Total 15-49	39.4	23.0	13.3	7.6	55.8	12.1	24.6	15.9	10.3	13.3	47.9	11,868	
50-59	51.6	27.2	16.3	8.6	44.4	8.8	29.0	20.3	15.0	16.2	38.3	1,443	
Total 15-59	40.7	23.4	13.6	7.7	54.6	11.7	25.1	16.4	10.8	13.6	46.8	13,311	

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed

1 Radio, television, newspaper or magazine, or mobile phone

2 Includes those with no exposure to any source (radio, television, newspaper or magazine, mobile phone, social media, poster, leaflet or brochure, town crier, or mobile

public announcement)

Table 7.16 Exposure to specific family planning messages

Percentage of women and men age 15-49 who heard or saw a family planning message in the past few months, according to background characteristics, Nigeria DHS 2018

			Wo	men					N	len		
Background characteristic	As for me and my partner, we dey kampe with female condom	Unspaced children makes the going tough. For the love of your family, go for child spacing today	Well- spaced children are every parent's joy	It's not too late to prevent unwanted pregnancy	Why is your wife looking so good?	Number of women	As for me and my partner, we dey kampe with female condom	Unspaced children makes the going tough. For the love of your family, go for child spacing today	Well- spaced children are every parent's joy	It's not too late to prevent unwanted pregnancy	Why is your wife looking so good?	Number of men
Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49	24.0 25.7 27.1 29.2 30.7 28.6 26.4	25.9 29.7 31.4 32.3 30.8 31.4 31.5	30.8 34.0 35.4 35.3 34.2 36.1 34.6	28.1 28.5 25.8 24.9 24.4 23.5 23.6	15.2 14.8 16.6 17.7 17.2 15.9 16.5	2,597 2,904 3,363 2,949 2,667 1,850 1,528	23.3 27.2 27.9 28.5 33.5 35.5 31.2	15.7 22.5 25.7 23.1 27.2 24.2 23.4	34.8 37.1 35.7 38.2 38.5 41.0 38.5	18.1 21.4 24.2 24.7 23.6 21.4 20.1	14.2 18.9 16.7 18.1 21.1 20.8 20.3	789 706 875 1,047 1,106 946 719
Residence Urban Rural	32.9 19.2	31.7 28.4	32.9 36.5	25.7 25.9	18.1 13.5	10,699 7,159	32.4 26.4	23.6 23.1	36.5 39.5	24.0 19.6	18.9 18.4	3,584 2,604
Zone North Central North East North West South East South South South West	20.4 15.4 9.1 35.5 31.2 47.4	21.0 31.4 31.2 33.8 34.0 28.6	35.0 36.6 33.9 41.2 42.2 25.3	22.4 28.1 18.7 24.3 36.7 28.9	7.6 25.1 16.2 18.6 9.8 18.5	1,694 1,649 4,868 2,756 2,402 4,489	30.0 13.2 10.6 41.1 46.0 44.7	33.8 24.1 21.8 25.7 10.9 25.1	42.3 37.1 39.0 47.3 34.7 30.5	33.7 14.7 11.2 25.8 13.4 35.3	28.0 24.2 13.1 15.1 8.9 24.9	610 822 1,597 946 720 1,494
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	47.2 21.2 13.8 29.7 11.2 10.6 13.4	24.9 18.2 26.1 21.9 9.7 23.6 36.1	26.5 49.4 28.2 23.8 25.8 42.2 49.4	18.8 20.7 42.8 7.4 24.1 32.5 27.1	23.2 0.7 5.3 19.2 5.0 0.8 2.1	130 374 140 359 296 248 146	58.0 52.7 15.4 17.8 20.3 43.6 17.3	17.9 44.8 27.2 28.2 34.4 41.7 27.8	26.5 49.4 25.0 29.3 71.8 35.9 38.9	26.1 44.4 4.6 30.5 54.7 30.1 31.3	13.4 23.3 37.9 26.4 26.3 32.5 25.2	32 84 83 109 126 122 54
North East Adamawa Bauchi Borno Gombe Taraba Yobe	25.5 5.6 19.3 3.0 10.5 28.4	11.7 43.6 56.1 27.2 31.8 21.2	41.1 36.6 58.2 33.2 37.3 26.3	51.7 13.5 22.0 44.0 9.4 23.9	45.7 14.6 16.2 28.3 4.4 30.7	203 385 209 342 82 428	(6.1) 13.2 6.4 2.6 2.0 40.6	(80.4) 19.7 17.0 13.2 75.0 23.2	(68.4) 29.0 40.2 20.3 48.0 45.0	(0.0) 24.9 9.2 23.9 4.9 12.5	(3.1) 11.3 31.8 38.7 7.4 18.4	32 144 284 151 52 159
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	0.6 2.5 7.5 18.6 19.3 4.3 22.0	43.2 24.2 53.1 31.2 4.3 19.6 9.0	63.7 42.4 9.6 45.7 23.7 43.7 28.9	6.7 20.1 4.1 51.6 37.6 0.5 13.4	18.6 13.6 19.4 18.6 13.4 2.4 24.0	377 1,364 1,245 752 302 393 436	2.9 3.0 8.4 17.0 10.8 (49.0) (33.5)	27.8 20.0 19.2 19.7 30.1 (16.6) (38.6)	47.6 58.0 20.7 36.6 31.1 (51.6) (22.8)	21.8 16.1 9.8 5.4 11.8 (20.2) (2.7)	15.2 16.4 15.2 6.4 18.2 (7.6) (5.2)	62 486 369 422 172 25 60
South East Abia Anambra Ebonyi Enugu Imo	18.0 57.4 22.1 31.5 27.8	23.3 47.4 37.1 2.9 36.8	48.6 43.8 51.9 13.6 36.7	20.2 20.4 29.0 22.2 31.9	9.4 19.2 22.3 5.9 32.8	370 925 694 395 372	68.6 37.1 13.2 21.8 68.3	44.0 17.5 34.0 15.4 22.9	74.1 49.0 60.0 18.3 24.4	62.3 2.7 4.3 49.2 38.7	40.2 9.7 1.9 8.2 20.0	170 331 166 137 142
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	24.9 29.6 20.1 6.1 25.9 55.2	25.2 57.7 38.4 24.4 15.0 45.7	28.0 11.8 32.2 50.4 14.9 63.9	46.7 8.8 19.2 21.3 19.8 55.2	8.4 5.0 6.6 5.9 2.7 17.1	496 104 342 418 255 787	50.4 74.1 46.4 75.4 2.2 30.4	4.9 6.9 26.7 5.8 6.4 12.2	20.8 13.4 64.8 2.8 3.5 61.8	9.3 6.1 24.9 14.7 8.8 13.3	12.9 27.4 11.1 0.7 0.0 7.4	101 79 100 135 67 238
South West Ekiti Lagos Ogun Ondo Osun Oyo	20.8 33.0 22.7 13.0 65.9 79.7	18.3 22.0 34.0 16.4 41.6 37.1	23.0 17.4 35.8 27.0 24.6 35.0	15.9 23.0 24.2 47.8 17.0 41.1	35.9 13.5 3.3 38.0 4.6 25.8	264 1,880 270 300 468 1,306	67.6 34.7 * 42.1 31.5 66.6	9.5 20.6 * 10.0 25.3 50.6	5.9 28.6 * 20.6 36.1 48.8	21.2 28.9 * 27.2 30.7 62.9	3.1 14.4 * 15.5 10.4 66.9	99 726 23 212 108 326

	-		Wo	men					M	len		
Background	As for me and my partner, we dey kampe with female	Unspaced children makes the going tough. For the love of your family, go for child spacing	Well- spaced children are every parent's	It's not too late to prevent unwanted		Number of	As for me and my partner, we dey kampe with female	Unspaced children makes the going tough. For the love of your family, go for child spacing	Well- spaced children are every parent's	It's not too late to prevent unwanted		Number of
characteristic	condom	today	joy	pregnancy	good?	women	condom	today	joy	pregnancy	good?	men
Education												
No education	14.2	27.6	33.1	19.2	14.0	3,914	13.2	18.2	36.3	14.9	19.5	808
Primary	23.5	30.6	35.8	22.6	16.2	2,447	28.5	21.0	36.3	19.6	13.5	801
Secondary	31.5	30.1	34.0	27.8	16.1	8,282	31.7	22.2	38.0	23.0	17.8	3,048
More than secondary	35.9	34.4	35.5	30.9	19.6	3,214	35.9	29.9	39.0	25.7	22.8	1,531
Wealth quintile												
Lowest	15.9	27.5	34.7	15.9	15.9	1,608	15.9	19.3	27.8	13.8	16.2	468
Second	14.0	28.7	33.9	25.3	13.2	2,362	17.1	22.0	39.1	17.0	14.0	890
Middle	23.2	28.3	36.0	25.8	16.7	3,273	22.4	24.5	38.9	19.9	17.8	1,221
Fourth	32.0	32.3	35.3	27.2	15.7	4,734	34.5	23.1	39.1	23.5	18.4	1,622
Highest	34.6	31.4	32.7	27.5	17.9	5,879	39.7	24.6	37.9	26.7	22.2	1,988
Total 15-49	27.4	30.4	34.3	25.8	16.3	17,858	29.9	23.4	37.8	22.2	18.7	6,188
50-59	na	na	na	na	na	0	25.6	20.4	43.8	23.4	18.0	891
Total 15-59	na	na	na	na	na	0	29.3	23.0	38.6	22.3	18.6	7,079

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. na = Not applicable

Table 7.17 Contact of nonusers with family planning providers

Among women age 15-49 who are not using contraception, percentage who during the past 12 months were visited by a fieldworker who discussed family planning, percentage who visited a health facility and discussed family planning, percentage who visited a health facility but did not discuss family planning, and percentage who did not discuss family planning either with a fieldworker or at a health facility, according to background characteristics, Nigeria DHS 2018

	Percentage of women who were	Percentage o visited a health fa 12 months	acility in the past	Percentage of women who did not discuss family		
Background characteristic	visited by a fieldworker who discussed family planning	Discussed family planning	Did not discuss family planning	planning either with a fieldworker or at a health facility	Number of women	
Age						
15-19	1.0	3.9	16.8	95.5	8,201	
20-24	3.6	16.6	26.2	81.7	6,020	
25-29	5.6	21.5	27.3	76.3	6,022	
30-34	5.1	21.3	26.6	76.5	4,934	
35-39	5.3	18.1	26.2	79.2	4,236	
40-44	3.9	11.2	25.0	86.5	3,161	
45-49	3.3	6.0	23.7	92.0	3,267	
esidence						
Urban	3.6	16.0	23.0	82.5	15,353	
Rural	3.9	12.4	24.6	85.7	20,487	
one						
North Central	6.9	14.3	25.7	82.4	5,109	
North East	3.6	14.7	26.9	83.4	6,082	
North West	1.6	11.7	29.7	87.5	11,522	
South East	3.2	17.0	16.0	81.6	3,922	
South South	7.1	17.2	17.4	79.4	3,845	
South West	3.4	12.7	17.2	85.8	5,361	
tate						
North Central						
FCT-Abuja	1.4	17.2	37.2	82.0	253	
Benue	13.9	18.1	20.0	75.0	1,181	
Kogi	3.3	12.2	29.8	85.6	541	
Kwara	7.0	24.0	10.7	74.3	562	
Nasarawa	13.3	22.4	17.7	71.3	576	
Niger	2.5	4.3	36.8	94.2	1,264	
Plateau	2.3	12.5	26.4	86.5	731	
North East						
Adamawa	0.2	12.2	15.1	87.7	689	
Bauchi	5.9	6.4	42.8	89.8	1,267	
Borno	1.2	17.7	15.5	81.9	1,394	
Gombe	2.4	29.0	27.9	70.5	618	
Taraba	3.8	13.8	27.8	83.3	806	
Yobe	6.4	14.5	28.7	82.5	1,308	
North West						
Jigawa	1.3	12.5	54.6	86.8	1,336	
Kaduna	1.3	13.4	13.1	86.3	2,166	
Kano	1.5	20.6	37.2	78.7	2,555	
Katsina	1.0	6.6	36.2	92.9	2,223	
Kebbi	4.2	9.8	23.2	88.2	1,102	
Sokoto	3.0	8.5	22.1	89.9	892	
Zamfara	0.8	2.7	15.8	96.6	1,247	
South East						
Abia	4.8	18.7	8.5	79.6	579	
Anambra	0.7	14.1	15.0	85.4	985	
Ebonyi	5.3	26.7	12.9	71.0	967	
Enugu	2.6	11.6	9.3	88.0	683	
Imo	3.2	11.7	34.5	86.3	708	
South South						
Akwa Ibom	3.7	15.6	11.7	82.4	786	
Bayelsa	4.1	8.2	3.9	89.0	288	
Cross River	20.9	13.5	13.4	72.1	480	
Delta	2.1	12.6	31.3	86.9	812	
Edo	5.1	17.4	26.4	81.5	471	
Rivers	9.0	26.5	12.2	70.6	1,008	
South West	•	00.1	04.0	00.0	- · -	
Ekiti	6.4	28.1	21.2	69.9	315	
Lagos	2.3	9.3	24.2	89.5	1,932	
Ogun	6.0	8.5	4.0	88.4	681	
Ondo	2.5	13.2	22.1	85.7	584	
Osun	0.9	8.6	12.8	91.2	732	
Oyo	5.0	19.1	12.1	78.7	1,116	

	Percentage of women who were visited by	omen who were visited a health fac		Percentage of women who did not discuss family		
Background characteristic	· · · · · · · · · · · · · · · · · · ·		Did not discuss family planning	planning either with fieldworker or at a health facility	Number of women	
Education						
No education	2.5	10.8	26.4	87.8	13,900	
Primary	4.6	15.6	23.1	82.1	5,055	
Secondary	4.3	15.0	20.1	83.0	13,522	
More than secondary	5.1	20.0	30.3	78.4	3,364	
Wealth quintile						
Lowest	2.7	10.6	26.3	88.0	6,930	
Second	3.1	11.4	24.6	86.9	7,464	
Middle	4.3	15.8	21.8	82.2	7,170	
Fourth	4.2	16.1	22.5	81.9	7,196	
Highest	4.4	15.6	24.6	82.5	7,081	
Total	3.7	13.9	24.0	84.3	35,840	

Key Findings

- Current levels: The infant mortality rate was 67 deaths per 1,000 live births for the 5-year period preceding the survey, while under-5 mortality was 132 deaths per 1,000 live births. This implies that more than 1 in 8 children in Nigeria die before their 5th birthday.
- Trends: The under-5 mortality rate has decreased since 2008, from 157 deaths per 1,000 live births to 132 deaths per 1,000 live births. Similarly, there has been a slight reduction in infant mortality, from 75 to 67 deaths per 1,000 live births. However, there has been no noticeable change in the neonatal mortality rate over the same period.
- High-risk fertility behaviour: 80% of currently married women have the potential for a high-risk birth. In the 5 years preceding the survey, 63% of infants were at elevated odds of dying from avoidable risks: 40% fell into a single high-risk category, and 23% fell into a multiple high-risk category. Only 23% of births were not in any high-risk category.

nformation on infant and child mortality is relevant to a demographic assessment of a country's population and is an important indicator of the country's socioeconomic development and quality of life. It can also help identify children who may be at higher risk of death and lead to strategies to reduce this risk, such as promoting birth spacing.

This chapter presents information on levels, trends, and differentials in perinatal, neonatal, infant, and under-5 mortality rates. It also examines biodemographic factors and fertility behaviours that increase mortality risks for infants and children. The information was collected as part of a retrospective birth history in which female respondents listed all of the children to whom they had given birth, along with each child's date of birth, survivorship status, and current age or age at death.

The quality of mortality estimates calculated from birth histories depends on the mother's ability to recall all of the children she has given birth to, as well as their birth dates and ages at death. Potential data quality problems include:

- The selective omission from birth histories of those births that did not survive, which can result in underestimation of childhood mortality.
- The displacement of birth dates, which may distort mortality trends. This can occur if an interviewer knowingly records a birth as occurring in a different year than the one in which it occurred. This may happen if an interviewer is trying to cut down on her overall workload, because live births occurring during the 5 years before the interview are the subject of a lengthy set of additional questions.

- The quality of reporting of age at death. Misreporting the child's age at death may distort the age pattern of mortality, especially if the net effect of the age misreporting is to transfer deaths from one age bracket to another.
- Any method of measuring childhood mortality that relies on mothers' reports (e.g., birth histories)
 assumes that female adult mortality is not high or, if it is high, that there is little or no correlation
 between the mortality risks of mothers and those of their children.

Selected indicators of the quality of the mortality data on which the estimates of mortality in this chapter are based are presented in Appendix C, Tables C.3-C.6.

8.1 INFANT AND CHILD MORTALITY

Neonatal mortality: The probability of dying within the first month of life. **Postneonatal mortality:** The probability of dying between the first month of life and the first birthday (computed as the difference between infant and neonatal mortality).

Infant mortality: The probability of dying between birth and the first birthday. **Child mortality:** The probability of dying between the first and the fifth birthday.

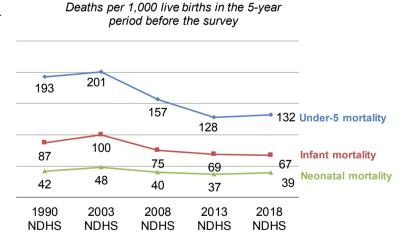
Under-5 mortality: The probability of dying between birth and the fifth birthday.

The 2018 NDHS results (**Table 8.1**) show that the infant mortality rate was 67 deaths per 1,000 live births for the 5 years preceding the survey. The child mortality rate was 69 deaths per 1,000 live births, while the under-5 mortality rate was 132 deaths per 1,000 live births. This implies that more than 1 in 8 children in Nigeria die before their 5th birthday. With respect to other early childhood mortality rates, the neonatal mortality rate was 39 deaths per 1,000 live births and the postneonatal mortality rate was 28 deaths per 1,000.

Trends: Under-5 mortality declined from 157 deaths per 1,000 live births in 2008 to 132 deaths per 1,000 live births in 2018 (Figure 8.1). Similarly, the infant mortality rate declined from 75 deaths per 1,000 live births in 2008 to 67 deaths per 1,000 live births in 2018. There have not been any substantial changes in neonatal mortality in the last decade (40 deaths per 1,000 live births in 2008 versus 39 deaths per 1,000 live births in 2018).

Patterns by demographic characteristics

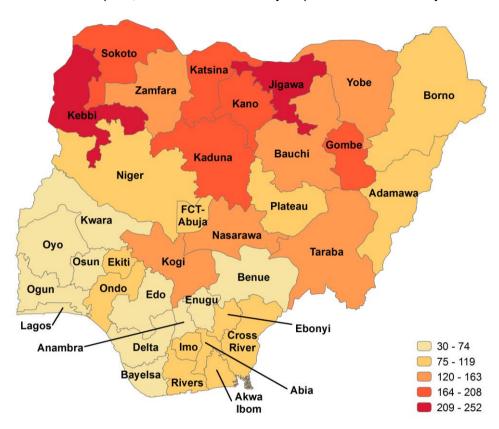
Figure 8.1 Trends in early childhood mortality rates



• The under-5 mortality rate is highest in the North West (187 deaths per 1,000 live births) and lowest in the South West (62 deaths per 1,000 live births).

Figure 8.2 Under-5 mortality by state

Deaths per 1,000 live births for the 10-year period before the survey



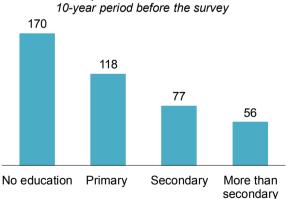
- Among the states, the under-5 mortality rate is highest in Kebbi (252 deaths per 1,000 live births) and lowest in Ogun (30 deaths per 1,000 live births) (**Figure 8.2**). Meanwhile, neonatal mortality is highest in Kaduna (63 deaths per 1,000 live births) and lowest in Bayelsa (13 deaths per 1,000 live births).
- Under-5 mortality declines with increasing mother's education, from 170 deaths per 1,000 live births among children whose mothers have no education to 56 deaths per 1,000 live births among children whose mothers have more than a secondary education (Figure 8.3).
- Under-5 mortality also decreases with increasing household wealth, from 173 deaths per 1,000 live births in the lowest wealth quintile to 53 deaths per 1,000 live births in the highest quintile.

8.2 BIODEMOGRAPHIC RISK FACTORS

The demographic characteristics of both mothers and children have been found to play an important role in the survival of children. **Tables 8.2** and **8.3** present childhood mortality rates by demographic characteristics (sex of the child, residence, mother's age at birth, birth order, previous birth interval, and infant's size at birth).

Figure 8.3 Under-5 mortality by mother's education

Deaths per 1,000 live births for the



Patterns by demographic characteristics

- Boys are more likely than girls to die in childhood. The difference is particularly pronounced for the under-5 mortality rate (137 male deaths per 1,000 live births versus 127 female deaths per 1,000 live births) (Table 8.2).
- The under-5 mortality rate is higher in rural areas than in urban areas (157 and 92 deaths per 1,000 live births, respectively).
- For the 10-year period preceding the survey, under-5 mortality was higher among children of mothers who were less than age 20 and age 40-49 at the time of the birth (160 and 168 deaths per 1,000 live births, respectively than among children of mothers who were age 20-29 and age 30-39 at the time of the birth (120 and 124 deaths per 1,000 live births, respectively) (Table 8.3).
- Under-5 mortality is highest among children of mothers who have given birth to seven or more children (190 deaths per 1,000 live births).
- The under-5 mortality rate is higher among children with birth intervals of less than 2 years (183 deaths per 1,000 live births) than among

Figure 8.4 Childhood mortality by previous birth interval

Deaths per 1.000 live births for the 10-vear period before the survey



children with birth intervals of 4 or more years (83 deaths per 1,000 live births) (Figure 8.4).

8.3 PERINATAL MORTALITY

Perinatal mortality rate

Perinatal deaths comprise stillbirths (pregnancy losses occurring after 7 months of gestation) and early neonatal deaths (deaths of live births within the first 7 days of life). The perinatal mortality rate is calculated as the number of perinatal deaths per 1,000 pregnancies of 7 or more months' duration.

Sample: Number of pregnancies of 7 or more months' duration to women age 15-49 in the 5 years before the survey

The causes of stillbirths and early neonatal deaths are closely linked, and it can be difficult to determine whether a death is attributable to one cause or the other. The perinatal mortality rate encompasses both stillbirths and early neonatal deaths and offers a better measure of the level of mortality and quality of antenatal care (ANC) services at delivery. During the 5 years before the survey, the perinatal mortality rate was 49 deaths per 1,000 pregnancies (Table 8.4).

Patterns by background characteristics

- Perinatal mortality is highest among children whose mothers age were less than age 20 (64 deaths per 1,000 pregnancies) and age 40-49 (74 deaths per 1,000 pregnancies) at the time of the birth (**Table** 8.4).
- The perinatal mortality rate is relatively high for first pregnancies (59 deaths per 1,000 pregnancies) and among women with a pregnancy interval of less than 15 months (65 deaths per 1,000 pregnancies).

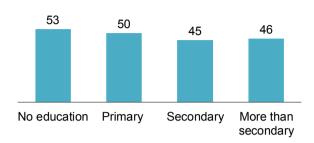
- The perinatal mortality rate is higher in rural areas than in urban areas (52 versus 45 deaths per 1,000 pregnancies).
- The perinatal mortality rate is highest for mothers with no education (53 deaths per 1,000 pregnancies) and lowest for mothers with a secondary education (45 deaths per 1,000 pregnancies) (Figure 8.5).

8.4 HIGH-RISK FERTILITY BEHAVIOUR

Findings from scientific studies have confirmed a strong relationship between a child's chance of dying and specific fertility behaviours, meaning that the survival of infants and children depends in part

Figure 8.5 Perinatal mortality by mother's education

Deaths per 1,000 pregnancies of 7 or more months' duration in the 5-year period before the survey



on the demographic and biological characteristics of their mothers. The probability of dying in infancy is much greater among children born to mothers who are too young (under age 18) or too old (over age 34), children born after a short birth interval (less than 24 months after the preceding birth), and children born to mothers of high parity (more than three children). The risk is elevated when a child is born to a mother who has a combination of these risk characteristics.

Table 8.5 presents the percent distribution of children born in the 5 years preceding the survey who fall into different risk categories: not in any high-risk category, in an unavoidable risk category, in a single high-risk category, or in a multiple high-risk category.

In the 5 years before the survey, three-fifths of infants in Nigeria (63%) were at elevated odds of dying from avoidable risks: 40% were in a single high-risk category, and 23% were in a multiple high-risk category. Twenty-three percent of births were not in any high-risk category, while 15% were in the unavoidable risk category.

In general, risk ratios are higher for children in a multiple high-risk category than for children in a single high-risk category. Risk ratios are highest for births in which the mother was older than age 34, the birth interval was less than 24 months, and the birth order was higher than three (2.90) and births in which the mother was less than age 18 and the birth interval was less than 24 months (2.50).

Overall, 80% of currently married women have the potential for a high-risk birth, with 32% falling into a single high-risk category and 49% falling into a multiple high-risk category.

LIST OF TABLES

For more information on infant and child mortality, see the following tables:

•	Table 8.1	Early childhood mortality rates
•	Table 8.2	Five-year early childhood mortality rates according to background
		characteristics
•	Table 8.3	Ten-year early childhood mortality rates according to additional characteristics
•	Table 8.4	Perinatal mortality
•	Table 8.5	High-risk fertility behaviour

Table 8.1 Early childhood mortality rates

Neonatal, postneonatal, infant, child, and under-5 mortality rates for 5-year periods preceding the survey, Nigeria DHS 2018

Years preceding the survey	Neonatal mortality (NN)	Postneonatal mortality (PNN) ¹	Infant mortality	Child mortality (4q1)	Under-5 mortality (₅q₀)
0-4	39	28	67	69	132
5-9 10-14	34 32	29 32	63 64	66 80	125 139

¹ Computed as the difference between the infant and neonatal mortality rates

Table 8.2 Five-year early childhood mortality rates according to background characteristics

Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 5-year period preceding the survey, according to background characteristics, Nigeria DHS 2018

Background characteristic	Neonatal mortality (NN)	Postneonatal mortality (PNN) ¹	Infant mortality (1q0)	Child mortality (4Q1)	Under-5 mortality (₅q₀)
Child's sex Male Female	42 37	29 27	71 63	71 68	137 127
Residence Urban Rural	36 42	21 33	56 74	38 90	92 157
Total	39	28	67	69	132

¹ Computed as the difference between the infant and neonatal mortality rates

Table 8.3 Ten-year early childhood mortality rates according to additional characteristics

Neonatal, postneonatal, infant, child, and under-5 mortality rates for the 10-year period preceding the survey, according to additional characteristics, Nigeria DHS 2018

Characteristic	Neonatal mortality (NN)	Postneonatal mortality (PNN) ¹	Infant mortality	Child mortality	Under-5 mortality (5q0)
	(IVIV)	(1 1414)	(140)	(491)	mortanty (540)
Mother's age at birth <20	53	32	85	82	160
20-29	32	26	59	65	120
30-39	34	29	64	65	124
40-49	55	38	94	81	168
Birth order					
1	47	23	69	50	116
2-3 4-6	30 33	24 30	54 64	59 69	110 129
4-0 7+	47	42	89	111	190
Previous birth interval ²					
<2 years	52 29	43 29	95 57	97 76	183 129
2 years 3 years	29 27	29	47	76 49	93
4+ years	24	21	44	40	83
Birth size ³					
Small/very small	74	43	116	na	na
Average or larger	32	26	59	na	na
Zone					
North Central	32	26	58	39	95
North East	37	37	73	65	134
North West	46	35	80	117	187
South East South South	27 27	22 21	48 49	29 25	75 73
South West	31	12	43	20	62
	0.			_0	5 2
State North Central					
FCT-Abuja	27	20	46	30	75
Benue	25	15	40	19	59
Kogi	50	43	93	60	148
Kwara	31	20	52	23	74
Nasarawa Niger	36 29	28 27	64 57	60 44	120 98
Plateau	36	29	65	44	106
North East					
Adamawa	32	36	68	39	104
Bauchi	38	31	69	84	147
Borno	27	25	52	36	86
Gombe	45 37	59 27	104 63	95 70	189
Taraba Yobe	37 44	27 47	90	70 68	129 152
	••				.02
North West Jigawa	47	34	81	144	213
Kaduna	63	34	97	100	187
Kano	37	26	62	109	164
Katsina	38	28	66	131	188
Kebbi Sokoto	55 50	58 52	112 102	157 106	252 197
Zamfara	33	33	66	69	130
South East			-	-	
Abia	39	25	65	23	86
Anambra	17	18	35	24	58
Ebonyi	35	22	57	36	91
Enugu	21	19	40 54	22	61 97
Imo	27	27	54	35	87
South South	^-		70	00	66
Akwa Ibom Bayelsa	37 13	33 10	70 23	30 8	98 31
Cross River	32	27	60	21	80
Delta	21	11	32	22	53
Edo	29	23	52	20	71
Rivers	27	21	48	33	79
South West					
Ekiti	42 25	15 12	57 47	40	95 50
Lagos Ogun	35 15	12 4	47 19	13 11	59 30
Ondo	30	19	49	32	79
Osun	32	15	47	24	70
Oyo	30	11	41	24	64

Table 8.3—Continued					
Characteristic	Neonatal mortality (NN)	Postneonatal mortality (PNN) ¹	Infant mortality (1q0)	Child mortality (4q1)	Under-5 mortality (5q0)
Mother's education					
No education	40	36	77	101	170
Primary	38	28	66	56	118
Secondary	32	19	51	27	77
More than secondary	28	16	44	12	56
Wealth quintile					
Lowest	39	39	78	103	173
Second	41	36	77	99	169
Middle	41	27	69	64	128
Fourth	32	21	53	35	86
Highest	28	12	40	14	53

na = Not available

¹ Computed as the difference between the infant and neonatal mortality rates

² Excludes first-order births

³ Rates for the 5-year period before the survey

Table 8.4 Perinatal mortality

Number of stillbirths and early neonatal deaths, and the perinatal mortality rate for the 5-year period preceding the survey, according to background characteristics, Nigeria DHS 2018

Background characteristic	Number of stillbirths ¹	Number of early neonatal deaths ²	Perinatal mortality rate ³	Number of pregnancies of 7+ months' duration
Mother's age at birth				
<20	105	200	64	4,758
20-29	274	513	44	18,036
30-39	177	326	49	10,279
40-49	50	64	74	1,551
Previous pregnancy interval in months ⁴				
First pregnancy	134	240	59	6,363
<15	128	269	65	6,146
15-26	166	279	45	9,804
27-38	76	153	38	6,087
39+	102	162	42	6,224
Residence				
Urban	186	405	45	13,274
Rural	419	699	52	21,349
Zone				
North Central	76	153	49	4,666
North East	143	203	55	6,330
North West	272	449	56	12,787
South East	42	90	38	3,437
South South	47	68	38	3,001
South West	26	140	38	4,402
Mother's education				
No education	338	517	53	16,153
Primary	78	180	50	5,149
Secondary	146	321	45	10,488
More than secondary	43	86	46	2,833
Wealth quintile				
Lowest	170	235	52	7,712
Second	141	245	49	7,886
Middle	121	270	55	7,139
Fourth	106	194	47	6,328
Highest	68	159	41	5,558
Total	605	1,104	49	34,623

Stillbirths are foetal deaths in pregnancies lasting 7 or more months.
 Early neonatal deaths are deaths at age 0-6 days among live-born children.
 The sum of the number of stillbirths and early neonatal deaths divided by the number of pregnancies of 7 or more months' duration, expressed per 1,000

4 Category cut-offs correspond to birth intervals of <24 months, 24-35 months, 36-47 months, and 48+ months assuming a

pregnancy duration of 9 months.

Table 8.5 High-risk fertility behaviour

Percent distribution of children born in the 5 years preceding the survey by category of elevated risk of mortality and the risk ratio, and percent distribution of currently married women by category of risk if they were to conceive a child at the time of the survey, Nigeria DHS 2018

	Births in the 5 y the su		Percentage of	
Risk category	Percentage of births	Risk ratio	currently married women ¹	
Not in any high-risk category	23.1	1.00	14.7ª	
Unavoidable risk category First-order births between age 18 and age 34	14.5	1.23	4.9	
In any avoidable high-risk category	62.5	1.59	80.4	
Single high-risk category Mother's age <18 only Mother's age >34 only Birth interval <24 months only Birth order >3 only	5.4 1.5 8.1 24.5	1.94 0.80 1.75 1.29	1.2 5.0 9.3 16.3	
Subtotal	39.5	1.45	31.7	
Multiple high-risk category Age <18 and birth interval <24 months ² Age >34 and birth interval <24 months Age >34 and birth order >3 Age >34 and birth order >3 Age >34 and birth interval <24 months and birth order >3 Birth interval <24 months and birth order >3	0.6 0.2 11.0 2.3 8.9	2.50 0.27 1.27 2.90 2.24	0.3 0.4 29.7 5.7 12.5	
Subtotal	23.0	1.83	48.7	
Total	100.0	na	100.0	
Subtotals by individual avoidable high-risk category Mother's age <18 Mother's age >34 Birth interval <24 months Birth order >3	6.0 15.0 20.0 46.6	2.00 1.46 2.10 1.54	1.5 40.8 28.3 64.3	
Number of births/women	34,193	na	29,090	

Note: Risk ratio is the ratio of the proportion dead among births in a specific high-risk category to the proportion dead among births not in any high-risk category.

dead among births not in any nigh-risk category.

na = Not applicable

1 Women are assigned to risk categories according to the status they would have at the birth of a child if they were to conceive at the time of the survey: current age less than 17 years and 3 months or older than 34 years and 2 months, latest birth less than 15 months ago, or latest birth being of order 3 or higher.

2 Includes the category age <18 and birth order >3

a Includes sterilised women

Key Findings

- Antenatal care coverage: 67% of women age 15-49
 who gave birth in the 5 years preceding the survey
 received antenatal care (ANC) from a skilled provider
 during the pregnancy for their most recent birth. Fiftyseven percent had at least four ANC visits.
- Components of antenatal care: High proportions of women who received antenatal care services had their blood pressure measured (94%), a urine sample taken (86%), and a blood sample taken (88%).
- Protection against neonatal tetanus: 62% of women who gave birth in the 5 years preceding the survey had a sufficient number of tetanus toxoid injections to ensure that their most recent birth was protected against neonatal tetanus.
- Delivery: 39% of live births in the 5 years preceding the survey took place in a health facility. Forty-three percent of births were assisted by a skilled provider. Three percent of health facility births in the 5 years before the survey were delivered via caesarean section.
- Means of transportation to health facility for delivery: Motorcycles/scooters are the most common means of transportation, used for 31% of births that took place in a facility. Other means of transportation, including ambulances were used for just 3 in 1,000 births.
- Cord care: 11% of most recent live births in the 2 years preceding the survey had chlorhexidine applied to the umbilical cord.
- Maternal postnatal check: Among women who gave birth in the 2 years preceding the survey, 42% received a postnatal check in the first 2 days after birth.
- Newborn postnatal check: Among newborns in the 2 years preceding the survey, 38% received a postnatal check in the first 2 days after birth.

ealth care services during pregnancy and childbirth and after delivery are important for the survival and well-being of both the mother and the infant. Ensuring access to a continuum of care for women during the antenatal, intrapartum, and postpartum periods is critical for maternal and newborn survival and is a priority of the Federal Ministry of Health. The 2018 NDHS obtained information on key indicators of maternal and newborn care in Nigeria. These findings will help policymakers and programme implementers in assessing current policies and programmes as well as in decision making to improve maternal and newborn health care services in Nigeria.

9.1 ANTENATAL CARE COVERAGE AND CONTENT

9.1.1 Skilled Providers

Antenatal care (ANC) from a skilled provider

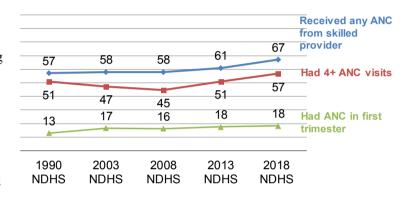
Pregnancy care received from skilled providers, such as doctors, nurses/midwives, and auxiliary nurses/midwives.

Sample: Women age 15-49 who had a live birth in the 5 years before the survey

Access to quality ANC services during pregnancy can help prevent maternal deaths. ANC visits allow providers to identify and manage infections as well as obstetric complications and to provide preventive injections, medications, and supplements to women. During ANC visits, women receive education about health behaviours during pregnancy, counselling on pregnancy danger signs, and information on family planning. Sixty-seven percent of women age 15-49 received ANC from a skilled provider for their most recent birth

Figure 9.1 Trends in antenatal care coverage

Percentage of women age 15-49 who had a live birth in the 5 years before the survey (for the most recent birth)



(**Table 9.1**). The majority of women (48%) received ANC from nurses/midwives, while 17% received care from doctors.

Trends: The proportion of women receiving ANC from a skilled provider has increased steadily since 2008, from 58% to 67%. Between 2013 and 2018, there was a 6 percentage point increase in the proportion of women receiving ANC from a skilled provider (**Figure 9.1**). Over the same period, there was a 10 percentage point reduction in the proportion of mothers with no antenatal care.

Patterns by background characteristics

- Women age 20-34 were more likely (69%) to receive antenatal care services from a skilled provider than women in other age groups.
- Urban women (84%) were more likely than rural women (56%) to receive antenatal care from a skilled provider.
- The proportion of pregnant women who received antenatal care from a skilled provider ranged from 15% in Kebbi to 97% in Imo.
- Disparities along socioeconomic characteristics exist in use of ANC services. Forty-five percent of women with no education received ANC services from a skilled provider, as compared with 97% of women with more than a secondary education. Similarly, women in the highest quintile (93%) were more likely to receive ANC from a skilled provider than women in the lowest wealth quintile (41%).

9.1.2 Timing and Number of ANC Visits

Fifty-seven percent of women had at least four ANC visits for their most recent birth in the 5 years preceding the survey (**Table 9.2**). Urban women (74%) were more likely than rural women (46%) to have

four or more ANC visits. The majority of pregnant women (36%) had their first antenatal care visit in the fourth or fifth month of pregnancy. Only 18% of women started ANC in the first trimester, and 19% did not seek care until the sixth month of pregnancy. Urban women (24%) were more likely than rural women (14%) to seek ANC services in the first trimester.

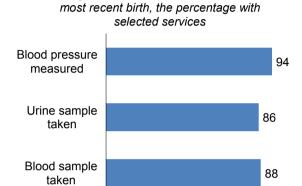
Trends: The proportion of women with four or more ANC visits increased from 45% in 2008 to 57% in 2018 (**Figure 9.1**). Within the same time period, the proportion of women with an ANC visit in the first trimester of pregnancy increased from 16% to 18%.

9.2 COMPONENTS OF ANC VISITS

Sixty-nine percent of women took iron tablets or syrup during their most recent pregnancy, while only 17% took intestinal parasite drugs (**Table 9.3**). Among women who received ANC for their most recent birth, 94% had their blood pressure checked, 86% had a urine sample taken, and 88% had a blood sample taken (Figure 9.2). There was substantial variation by background characteristics in the components of ANC. Women age 20-49 were more likely than women less than age 20 to have their blood pressure checked and to have urine and blood samples taken. In general, women living in urban areas, women at higher educational levels, and women in the higher wealth quintiles were more likely than their counterparts to have their blood pressure measured and blood and urine samples taken.

Figure 9.2 Components of antenatal care

Among women who received ANC for their



Trends: The proportion of women who receive iron tablets or syrup has increased since 2008, from 54% to 69%. There has also been an increase in the proportion of women who receive intestinal parasite drugs, from 10% to 17%.

9.3 Protection against Neonatal Tetanus

Protection against neonatal tetanus

The number of tetanus toxoid injections needed to protect a baby from neonatal tetanus depends on the mother's vaccinations. A birth is protected against neonatal tetanus if the mother has received any of the following:

- Two tetanus toxoid injections during the pregnancy
- Two or more injections, the last one within 3 years of the birth
- Three or more injections, the last one within 5 years of the birth
- Four or more injections, the last one within 10 years of the birth
- Five or more injections at any time prior to the birth

Sample: Last live births in the 5 years before the survey to women age 15-49

Neonatal tetanus, a leading cause of death among neonates in developing countries, is often due to failure to observe hygienic procedures during delivery. Fifty-three percent of women with a live birth in the 5 years before the survey received two or more tetanus toxoid injections to protect their last live birth against neonatal tetanus. Sixty-two percent of women's most recent live births were protected against neonatal tetanus (**Table 9.4**).

Trends: The proportion of mothers whose births were protected against neonatal tetanus has increased by 14 percentage points since 2008, from 48% to 62%, while the proportion of women receiving two or more doses of tetanus toxoid has increased by 8 percentage points, from 45% to 53%.

Patterns by background characteristics

- Only 22% of women in Zamfara had their last live birth protected against neonatal tetanus, as compared with 97% of women in Imo and 94% of women in Abia.
- Protection against neonatal tetanus increases with increasing education (from 40% for women with no education to 90% for women with more than a secondary education) and wealth (from 38% for women in the lowest wealth quintile to 87% for women in the highest wealth quintile).

9.4 DELIVERY SERVICES

9.4.1 Institutional Deliveries

Institutional deliveries

Deliveries that occur in a health facility.

Sample: All live births in the 5 years before the survey

In order to reduce maternal and newborn mortality, deliveries should occur in facilities where providers can manage obstetric and newborn complications that may arise during delivery. Only 39% of women in Nigeria delivered their last live birth in a health facility (**Table 9.5**). Of these women, 26% delivered in a public facility and 13% in a private facility. Fifty-nine percent of women delivered at home.

Trends: The percentage of deliveries taking place at health facilities has increased over time, from 35% in 2008 and 36% in 2013 to 39% in 2018 (**Figure 9.3**).

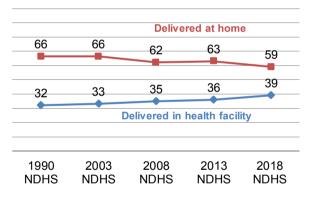
Patterns by background characteristics

- Seventy percent of births to mothers less than age 20 were delivered at home, as compared with 57% of births to mothers age 20-34 and 59% to mothers age 35-49.
- First-order births are more likely (53%) to occur in a health facility than sixth- and higher-order births (23%).

Figure 9.3 Trends in place of birth

Percentage of live births in the 5 years

before the survey



- Fifty-nine percent of most recent births to mothers with four or more ANC visits were delivered at a health facility, compared with only 6% of births to mothers with no ANC visits.
- Sixty-one percent of urban births were delivered in a health facility, as compared with only 26% of rural births.

 Births to mothers with more than a secondary education (88%) were much more likely to be delivered at a facility than births to mothers with no education (14%) (Figure 9.4).

Figure 9.4 Health facility births by mother's education

Percentage of live births in the 5 years before the survey that were delivered in a health facility

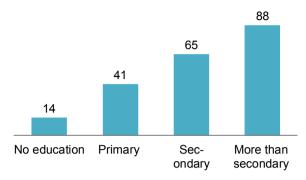
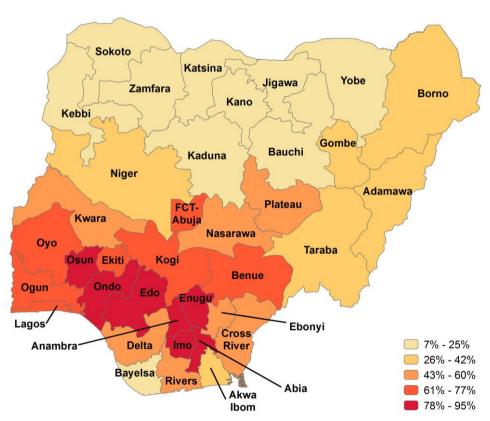


Figure 9.5 Health facility births by state

Percentage of live births in the 5 years before the survey that were delivered in a health facility



• Facility deliveries are lowest in the North West (16%) and highest in the South East (82%). By state, the percentage of facility deliveries ranges from 7% in Kebbi to 95% in Imo (**Figure 9.5**).

9.4.2 Skilled Assistance during Delivery

Skilled assistance during delivery

Births delivered with the assistance of doctors, nurses/midwives, and auxiliary nurses/midwives.

Sample: All live births in the 5 years before the survey

Assistance from a skilled birth attendant during delivery is considered a key factor in reducing maternal and neonatal mortality. In Nigeria, less than half (43%) of deliveries are assisted by a skilled provider (32% by nurses/midwives and 9% by doctors) (**Table 9.6**). Unskilled providers such as traditional birth attendants assist in 20% of deliveries, while 11% of births receive no assistance (**Table 9.6** and **Figure 9.6**). It is important to note that relatives of pregnant women assist in 22% of deliveries.

Trends: The proportion of births assisted by skilled birth attendants has increased over the past decade,

from 39% in 2008 to 43% in 2018. Meanwhile, the proportion of deliveries attended by traditional birth attendants has declined during the last 5 years, from 22% in 2013 to 20% in 2018.

Community

health extension

worker

Patterns by background characteristics

- First-order births (56%) are more likely than sixth- and higher-order births (25%) to be delivered by a skilled provider (**Table 9.6**).
- Sixty-eight percent of births in urban areas are assisted by a skilled provider, as compared with 28% in rural areas.
- Only 18% of births in the North West are attended by a skilled provider, compared with 85% each in the South East and South West. The proportion of deliveries with skilled assistance ranges from 3% in Kebbi to 98% in Imo.
- The proportion of births attended by skilled providers increases with increasing mother's education, from 14% among births to mothers with no education to 93% among births to mothers with more than a secondary education.
- Wealth quintile is another important factor associated with skilled delivery assistance, with a remarkable gap between births in the lowest quintile (12%) and those in the highest quintile (87%) (**Figure 9.7**).

Figure 9.7 Skilled assistance at delivery by household wealth

Figure 9.6 Assistance during delivery

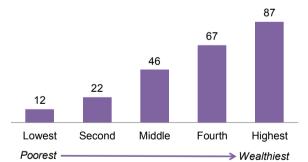
Percent distribution of births in the 5 years

before the survey

nurse/midwife;

nurse/midwife

Percentage of live births in the 5 years before the survey assisted by a skilled provider



9.4.3 Delivery by Caesarean

Access to caesarean sections can reduce maternal and neonatal mortality and complications of labour. WHO advises that caesarean sections be done only when medically necessary and does not recommend a target rate for countries to achieve at the population level. Research conducted by WHO has found that increases in countries' caesarean section rates up to 10% are associated with a decline in maternal and neonatal mortality. However, increases in caesarean section rates beyond 10% are not associated with reductions in maternal and newborn mortality rates (WHO 2015a). The caesarean section delivery rate in Nigeria is 3%. For 2% of total births, the decision to have a caesarean section was made after the onset of labour, while for 1% of births the decision was made before the onset of labour (**Table 9.7**). The major

reason for choosing to have a caesarean section is a medical condition experienced by the mother (57%) (**Table 9.8**).

Trends: There has been little change over the years in the proportion of births delivered by caesarean section (3% in 1990, 2% in 2008, and 3% in 2018).

Patterns by background characteristics

- Caesarean section deliveries are most common (5%) among first-order births and decrease as birth order increases.
- Caesarean section delivery rates are higher in urban areas (5%) than in rural areas (1%).
- The caesarean section rate is lowest in the North West and North East (1%) and highest in the South West (7%). By state, the rate ranges from a high of 13% in Lagos to a low of less than 1% each in Zamfara, Sokoto, Kebbi, and Yobe.
- The proportion of C-sections deliveries increases with increasing education and wealth (Table 9.7).

Duration of Stay in Health Facility after Birth

Table 9.9 shows that about one-third (34%) of women who had a vaginal delivery in a health facility were discharged within 6 hours of delivery. Among women who gave birth by C-section, 94% stayed at the health facility for 3 or more days, as compared with only 7% of women who had a vaginal birth.

9.4.4 Referral to Place of Delivery

Functioning referral systems are an important part of maternal and newborn health care provision. Patients receiving care and treatment in primary health care centres should be able to access secondary- and tertiary-level facilities for more advanced services as the situation requires. Referral is the process by which clients' needs for health services are assessed and prioritized and clients are provided with assistance to access services. The process requires facility- and community-level support services for clients and requires that care providers have a working knowledge of the availability and locations of these services. Referrals should also include proactive actions necessary to facilitate initial contacts with support service providers.

The maternity referral rate from one health facility to another for the most recent birth in the 5 years preceding the survey was 2%. Three in 1,000 live births were referred to a health facility from another non-facility location during the same period. The majority of live births (97%) were not referred but came directly from home to the health facility (**Table 9.10**).

Patterns by background characteristics

- Every 14 out of 1,000 births taking place at public health facilities were referred from another facility. Similarly, every 18 out of 1,000 births at private facilities were referred from another facility.
- Among live births that took place in a public facility, 2 of 1,000 were referred from another non-facility location; among births occurring in a private facility, 6 of 1,000 were referred from a non-facility location.
- Rates of referral from another health facility are 17 in 1,000 births in urban areas and 15 in 1,000 births in rural areas.

9.4.5 Reasons for Referral and Time Taken

Pregnant women of childbearing age should receive or be referred for reproductive health services including comprehensive emergency obstetric care (CEmOC) services, postpartum family planning, prevention of mother-to-child transmission of HIV (PMTCT), and adolescent pregnancy health care services. Referral to a high-level facility capable of managing obstetric and newborn complications can prevent maternal and neonatal mortality.

Table 9.11 shows that the most common reason for delivery referrals is a problem during labour/emergency (68%), followed by non-availability of a health professional (14%). In the majority of delivery referrals (58%) in the 5 years preceding the survey, the time taken to decide on the referral and reach the facility was more than 1 hour. A quarter of births (25%) were accompanied by a health provider when they were referred to the facility.

9.4.6 Means of Transportation to Health Facility

Prompt and reliable transportation is important for improved outcomes when complications during childbirth occur. Three common delays affect women's ability to access quality and life-saving care: (1) delays in recognizing illness and deciding to seek care, (2) delays in reaching an appropriate source of care, and (3) delays in receiving adequate care. In rural areas of Nigeria, major health facilities are far away from communities, roads are bad, and populations are sparse. These factors are significant contributors to delays in reaching an appropriate source of care.

The 2018 NDHS results show that motorcycles/scooters are the most common means of transportation, used for 31% of births that took place in a health facility. Ambulances were used for just 3 in 1,000 births (**Table 9.12**).

9.4.7 Thermal Care for Newborns

To prevent hypothermia, newborns should be kept warm. Skin-to-skin care, immediate drying, and delayed bathing are key interventions that can help newborns regulate their temperature. Among the most recent live births in the 2 years preceding the survey, 12% of newborns had skin-to-skin contact immediately after birth, 77% were wiped dry within minutes after birth, and 13% were bathed 24 or more hours after birth (**Table 9.13**).

Patterns by background characteristics

- Fourteen percent of newborns delivered in urban areas receive skin-to-skin thermal care, as compared with 11% of newborns delivered in rural areas.
- Eighteen percent of live births delivered at health facilities receive skin-to-skin thermal care, compared with 8% of births delivered elsewhere.
- Among live births delivered at a health facility, 22% were bathed 24 or more hours after birth as recommended by national guidelines. On the contrary, 78% of newborns not delivered in a health facility were bathed less than 6 hours after birth.
- Mother's education plays an important role in newborns receiving appropriate care. Newborns whose
 mothers had more than a secondary education were more likely to have skin-to-skin contact
 immediately after birth than newborns whose mothers had no education (20% versus 9%).

9.4.8 Cord Care

Cord care is an important process that, if not done, can lead to infection. Signs of infection of the umbilical cord stump include a red or swollen base, continued bleeding, yellowish oozing or white pus, and a foul-

smelling discharge. Omphalitis, a potentially life-threatening infection of the umbilical cord, can cause neonatal sepsis and eventually death. Omphalitis is considered a serious condition and needs to be treated immediately.

Eleven percent of most recent live births in the 2 years preceding the survey had chlorhexidine applied to the cord (**Table 9.14**). However, only 9% had chlorohexidine applied within 24 hours of birth (**Table 9.15**). Thirty-eight percent of newborns had nothing applied to the cord, while 32% had other antiseptic materials applied (**Table 9.14**). It is encouraging to note that 78% of newborns had nothing harmful applied to the cord after birth.

Patterns by background characteristics

- First-order births more often had chlorhexidine applied to the cord than sixth- or higher-order births (13% and 9%, respectively).
- Proper cord care practices (i.e., nothing harmful being applied to the cord) were more likely for deliveries taking place in a health facility than for deliveries occurring elsewhere (84% and 73%, respectively).
- Sixteen percent of births in urban areas had chlorhexidine applied to the cord, as compared with only 8% of births in rural areas

9.5 POSTNATAL CARE

9.5.1 Postnatal Health Check for Mothers

Globally, approximately half of maternal deaths occur within the first 24 hours after delivery. In line with WHO guidelines, Nigeria's safe motherhood programme recommends that women who deliver in a health facility receive a postnatal health care check within the first 24 hours after delivery, while those who give birth outside a health facility should be referred for postnatal checks in health facilities within 12 hours after delivery.

In Nigeria, 42% of mothers who gave birth in the 2 years preceding the survey reported seeing someone for a check within the first 2 days after birth, with 36% reporting that they were checked within 4 hours after giving birth (**Table 9.16**). Most women (35%) receiving postnatal care reported seeing a doctor, nurse, or midwife for their postnatal check (**Table 9.17**).

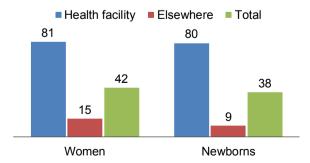
Trends: The proportion of women age 15-49 with a live birth in the 2 years preceding survey who received a postnatal check within 2 days after delivery has increased over the last decade, from 30% in 2008 to 42% in 2018.

Patterns by background characteristics

- The higher the birth order, the less likely a woman will have a postnatal check during the first 2 days after birth
- Women who deliver in a health facility (81%) are more likely to receive a postnatal health check within 2 days of delivery than women who deliver elsewhere (15%) (Figure 9.8).

Figure 9.8 Postnatal care by place of delivery

Percentage of last births in the 2 years before the survey for which women and newborns received a postnatal check during the first 2 days after birth



- Women in urban areas are more likely than those in rural areas to receive a postnatal check during the first 2 days after delivery (61% and 30%, respectively).
- The proportion of women with a postnatal check during the first 2 days after birth increases with increasing education and wealth.

9.5.2 Postnatal Health Check for Newborns

Proper care for newborns is essential to reduce neonatal problems and death. According to the World Health Organization, postnatal care services for newborns should start immediately after birth because many neonatal deaths occur within the first 48 hours of life (WHO 2015b).

Thirty-eight percent of infants born in the 2 years before the survey received a postnatal check during the first 2 days after birth; however, 60% did not receive a postnatal check (**Table 9.18**). The majority (33%) of babies who received a postnatal check were seen by a doctor, nurse, or midwife (**Table 9.19**). A quarter of newborns (25%) had at least two signal functions performed during the first 2 days after birth (**Table 9.20**).

Patterns by background characteristics

- Newborns delivered in a health facility were more likely to receive a postnatal health check within 2 days of birth than those delivered elsewhere (80% and 9%, respectively) (**Figure 9.8**).
- Only 17% of newborns in the North West received postnatal care during the first 2 days after birth, compared with 72% of newborns in the South West.
- By state, the proportion of newborns receiving postnatal care during the first 2 days after birth ranged from 6% in Kebbi to 82% in Osun.
- Socioeconomic disparities exist among women whose babies received a postnatal check. Seventy-seven percent of babies born to women with more than a secondary education received postnatal care within the first 2 days after birth, as compared with only 16% of babies born to women with no education. Babies born to women in the lowest wealth quintile were much less likely (15%) to receive postnatal care within 2 days of birth than babies born to women in the highest quintile (71%).
- The proportion of newborns with at least two signal functions performed increases with mother's age at birth, mother's education, and wealth quintile but decreases with birth order (**Table 9.20**).

9.6 PROBLEMS IN ACCESSING HEALTH CARE

Problems in accessing health care

Women were asked whether each of the following factors is a big problem in seeking medical advice or treatment for themselves when they are sick:

- Getting permission to go to the doctor
- Getting money for advice or treatment
- Distance to a health facility
- Not wanting to go alone

Sample: Women age 15-49

More than half of women (52%) in Nigeria report at least one problem associated with accessing health care for themselves. The least and most common problems women face in accessing health care are getting permission to go for treatment (11%) and getting money for treatment (46%), respectively (**Table 9.21**).

Patterns by background characteristics

- More women in rural areas (60%) than urban areas (42%) have problems in accessing health care.
- Women with five or more children more often reported getting money for treatment (51%) and distance to a health facility (29%) as problems than women with no children (42% and 22%, respectively).
- Overall, women from the North East more often reported having at least one problem in accessing health care than those from the South West (69% versus 37%) (**Table 9.21**). The proportion of women reporting at least one problem in accessing health care ranges from a low of 13% in Osun to a high of 91% in Adamawa.
- The proportion of women who reported at least one problem in accessing health care decreases with increasing education and wealth.

9.7 FISTULA

Obstetric fistula, a complication that arises from obstructed or prolonged labour, creates a hole or opening in the birth canal. Prolonged obstructed labour that does not receive prompt medical care stops the blood supply to the tissues of the vagina, bladder, and/or rectum. Unrelieved obstructed labour can compress a woman's bladder, urethra, rectum, and vaginal wall between the foetal head and maternal pubis. This compression and the resultant loss of blood supply produce necrosis of the compressed tissues. Necrosis then causes uncontrolled leakage of urine from the bladder through the vagina (vesico-vaginal fistula) and leakage of stool from the vagina (recto-vaginal fistula) (HERA and ICRH 2010).

The 2018 NDHS included a series of questions on fistula that measured awareness levels, estimated the prevalence of fistula among Nigerian women, and examined events that can precipitate fistula symptoms and access to treatment.

The findings indicate that 31% of women have heard of fistula symptoms, while less than 1% have experienced such symptoms (data not shown separately). The percentage of women with knowledge of fistula has remained stagnant at 31% over the last decade.

LIST OF TABLES

For more information on maternal health care, see the following tables:

_	T.1.1. 0.1	A . A A . T
	Table 9.1	Antenatal care
	Table 9.2	Number of antenatal care visits and timing of first visit
	Table 9.3	Components of antenatal care
•	Table 9.4	Tetanus toxoid injections
•	Table 9.5	Place of delivery
•	Table 9.6	Assistance during delivery
•	Table 9.7	Caesarean section
•	Table 9.8	Reasons for opting for caesarean section
•	Table 9.9	Duration of stay in health facility after birth
•	Table 9.10	Referral to place of delivery
•	Table 9.11	Reasons for referral and time taken
•	Table 9.12	Means of transportation to health facility
•	Table 9.13	Thermal care for newborns
•	Table 9.14	Cord care
	Table 9.15	Use of chlorhexidine
	Table 9.16	Timing of first postnatal check for the mother
•	Table 9.17	Type of provider of first postnatal check for the mother
	Table 9.18	Timing of first postnatal check for the newborn
	Table 9.19	Type of provider of first postnatal check for the newborn
	Table 9.20	Content of postnatal care for newborns
	Table 9.21	Problems in accessing health care

Table 9.1 Antenatal care

Percent distribution of women age 15-49 who had a live birth in the 5 years preceding the survey by antenatal care (ANC) provider during pregnancy for the most recent birth and percentage receiving antenatal care from a skilled provider for the most recent birth, according to background characteristics, Nigeria DHS 2018

			Antenatal ca	are provide	r				Percent- age receiving	
Background characteristic	Doctor	Nurse/ midwife	Auxiliary nurse/ midwife	Other health worker	Traditional birth attendant	Other	No ANC	Total	antenatal care from a skilled provider ¹	Number of women
Age at birth										
<20	8.9	45.8	2.7	8.4	1.4	8.0	32.0	100.0	57.4	2,672
20-34	18.9	48.2	2.2	6.5	1.2	0.8	22.3	100.0	69.3	15,151
35-49	16.7	46.2	1.9	5.9	1.1	0.9	27.2	100.0	64.9	4,088
Birth order										
1	23.4	47.9	2.7	5.6	1.6	8.0	18.1	100.0	73.9	3,796
2-3 4-5	21.4 16.5	48.4 48.1	2.0 2.3	5.6 6.7	1.4 1.2	0.8 0.9	20.4 24.3	100.0 100.0	71.8 67.0	7,312 5,161
6+	8.4	45.7	2.2	8.5	0.6	0.9	33.8	100.0	56.3	5,642
	.			0.0	0.0	0.0	00.0		00.0	0,0.2
Residence Urban	30.4	50.9	2.3	3.8	2.0	0.5	10.1	100.0	83.6	8,712
Rural	8.5	45.4	2.2	8.4	0.7	1.0	33.8	100.0	56.1	13,199
	0.0	70.7	2.2	0.4	0.7	1.0	00.0	100.0	30.1	10, 100
Zone	10.1	46.0	0.0	E 7	0.2	0.3	27.6	100.0	66.0	2.024
North Central North East	19.1 4.4	46.2 48.3	0.8 5.9	5.7 12.0	0.2 0.3	0.3 0.7	27.6 28.5	100.0 100.0	66.2 58.5	3,031 3,862
North West	4.4 6.1	46.3 47.1	0.7	8.6	0.3 0.1	1.1	26.5 36.3	100.0	56.5 53.9	3,662 7,644
South East	32.1	52.8	4.4	5.5	0.6	0.9	3.8	100.0	89.2	2,138
South South	29.5	46.4	1.2	0.6	3.8	0.5	18.0	100.0	77.1	2,019
South West	39.8	46.2	2.2	0.7	4.7	0.9	5.5	100.0	88.2	3,218
State North Central										
FCT-Abuja	31.9	55.9	0.0	0.4	0.0	0.0	11.8	100.0	87.7	148
Benue	25.7	47.3	1.0	0.4	0.1	0.0	25.4	100.0	74.1	637
Kogi Kwara	36.7 36.6	42.6 35.8	0.2 0.5	2.5 0.7	0.3 1.0	0.3 0.2	17.4 25.3	100.0 100.0	79.5 72.8	299 360
Nasarawa	15.2	61.6	0.4	0.7	0.0	0.2	22.4	100.0	77.1	329
Niger	3.3	36.6	1.6	17.3	0.1	0.4	40.7	100.0	41.5	844
Plateau	11.9	60.1	0.3	2.8	0.0	1.1	23.7	100.0	72.4	415
North East Adamawa	0.7	80.8	0.6	1.9	0.4	0.2	15.4	100.0	82.1	518
Bauchi	3.0	46.0	2.6	15.0	0.2	0.1	33.1	100.0	51.6	919
Borno	3.7	44.2	2.9	11.5	0.0	0.1	37.6	100.0	50.7	732
Gombe	1.9	16.9	27.6	26.2	1.6	0.4	25.4	100.0	46.4	444
Taraba Yobe	7.2 8.9	49.1 50.8	1.1 6.6	21.6 1.0	0.0 0.0	0.6 2.5	20.4 30.2	100.0 100.0	57.4 66.3	495 755
	0.5	00.0	0.0	1.0	0.0	2.0	00.2	100.0	00.0	700
North West	0.0	77.6	0.0	0.0	0.0	0.0	20.5	100.0	70.6	000
Jigawa Kaduna	0.2 7.9	77.6 59.9	0.8 1.2	0.9 0.1	0.0 0.1	0.0 0.8	20.5 30.0	100.0 100.0	78.6 69.0	898 1,453
Kano	13.8	51.0	0.5	17.9	0.1	0.3	16.4	100.0	65.3	1,682
Katsina	6.9	46.1	0.0	0.0	0.0	0.2	46.8	100.0	53.1	1,440
Kebbi	0.2	13.7	8.0	36.4	0.1	0.9	47.9	100.0	14.7	716
Sokoto	0.2	22.0	2.1	12.5	0.2	9.9	53.1	100.0	24.3	608
Zamfara	1.9	33.3	0.0	1.2	0.0	0.0	63.6	100.0	35.2	848
South East										
Abia	22.9	71.9	0.4	0.0	0.6	0.3	3.8	100.0	95.2	259
Anambra	36.6	52.9	3.7	0.6	0.9	2.0	3.3	100.0	93.3	664
Ebonyi	27.6	32.9	9.8	22.8	0.8	0.6	5.6	100.0	70.3	493
Enugu Imo	21.9 43.9	72.0 49.5	0.8 4.0	0.4 0.1	0.3 0.0	0.9 0.0	3.7 2.4	100.0 100.0	94.7 97.4	317 405
	40.0	10.0	1.0	J. I	0.0	0.0		100.0	υ1. 1	400
South South	20.0	42.2	0.4	0.0	E 7	0.0	10.0	100.0	74 5	260
Akwa Ibom Bayelsa	30.8 10.2	43.3 40.9	0.4 0.3	0.0 0.3	5.7 1.0	0.9 0.0	19.0 47.4	100.0 100.0	74.5 51.4	360 144
Cross River	20.5	59.0	0.0	1.1	3.3	0.0	16.0	100.0	79.5	231
Delta	21.9	51.1	0.0	1.1	1.6	1.3	22.8	100.0	73.2	408
Edo	29.7	59.3	0.2	1.6	0.7	0.0	8.5	100.0	89.2	270
Rivers	41.7	35.8	3.5	0.0	6.5	0.2	12.3	100.0	81.0	606
South West										
Ekiti	24.8	64.5	1.3	0.0	0.5	2.0	6.8	100.0	90.6	226
Lagos	47.6	37.3	1.5	0.0	9.2	0.4	4.0	100.0	86.4	1,142
Ogun	34.4	46.9	3.6	3.8	5.2	2.2	3.8	100.0	85.0	423
Ondo	34.4 42.4	55.9 54.0	1.7	0.1	2.8	0.7 0.2	4.4	100.0	92.0 96.9	312
Osun Oyo	42.4 36.0	54.0 45.5	0.5 3.9	1.0 0.3	0.6 1.4	1.2	1.2 11.7	100.0 100.0	96.9 85.4	409 706
	30.0	70.0	5.8	0.0	1.4	1.4	1.1.1	100.0	00.4	700

Tabl			

			Antenatal ca	are provide	r				Percent- age receiving		
Background characteristic	Doctor	Nurse/ midwife	Auxiliary nurse/ midwife	Other health worker	Traditional birth attendant	Other	No ANC	Total	antenatal care from a skilled provider ¹	Number of women	
Education											
No education	4.2	38.8	2.2	10.2	0.3	1.2	43.2	100.0	45.2	9,738	
Primary	14.4	57.3	2.8	6.1	2.4	0.7	16.2	100.0	74.6	3,293	
Secondary	27.2	56.1	2.5	3.4	2.1	0.6	8.2	100.0	85.7	6,962	
More than secondary	52.1	44.5	0.7	1.2	0.5	0.1	1.0	100.0	97.3	1,919	
Wealth quintile											
Lowest	3.4	34.8	2.3	9.7	0.3	1.7	47.8	100.0	40.5	4,716	
Second	6.3	43.8	2.8	10.7	0.5	0.9	35.1	100.0	52.8	4,850	
Middle	13.3	56.7	2.6	6.9	0.9	0.5	19.2	100.0	72.5	4,448	
Fourth	25.2	57.2	2.0	3.1	2.3	0.5	9.8	100.0	84.3	4,103	
Highest	44.6	47.2	1.3	0.9	2.3	0.4	3.2	100.0	93.1	3,794	
Total	17.2	47.6	2.2	6.6	1.2	0.8	24.4	100.0	67.0	21,911	

Note: If more than one source of ANC was mentioned, only the provider with the highest qualifications is considered in this tabulation.

Skilled provider includes doctor, nurse, midwife, and auxiliary nurse/midwife.

Table 9.2 Number of antenatal care visits and timing of first visit

Percent distribution of women age 15-49 who had a live birth in the 5 years preceding the survey by number of antenatal care (ANC) visits for the most recent live birth, and by the timing of the first visit, and among women with ANC, median months pregnant at first visit, according to residence, Nigeria DHS 2018

	Resi	_	
Number of ANC visits and timing	1114	D!	
of first visit	Urban	Rural	Total
Number of ANC visits			
None	10.1	33.8	24.4
1	1.8	3.2	2.6
2-3	11.3	16.7	14.5
4+	73.7	45.7	56.8
Don't know/missing	3.1	0.6	1.6
Total	100.0	100.0	100.0
Number of months pregnant at time of first ANC visit			
No antenatal care	10.1	33.8	24.4
<4	24.4	14.3	18.3
4-5	43.9	31.1	36.2
6-7	19.6	18.6	19.0
8+	1.8	2.2	2.0
Don't know/missing	0.2	0.1	0.1
Total	100.0	100.0	100.0
Number of women	8,712	13,199	21,911
Median months pregnant at first visit (for those with ANC) Number of women with ANC	4.8 7,834	5.2 8,741	5.0 16,575

Table 9.3 Components of antenatal care

Among women age 15-49 with a live birth in the 5 years preceding the survey, percentage who took iron tablets or syrup and drugs for intestinal parasites during the pregnancy of the most recent live birth, and among women receiving antenatal care (ANC) for the most recent live birth in the 5 years preceding the survey, percentage receiving specific antenatal services, according to background characteristics, Nigeria DHS 2018

Among women with a live birth in the past 5
years, percentage who during the pregnancy of
their most recent live birth:

Among women who received antenatal care for their most recent
birth in the past 5 years, percentage with selected services

		most recent live		birth in the past 5 years, percentage with selected services						
Background characteristic	Took iron tablets or syrup	Took intestinal parasite drugs	Number of women with a live birth in the past 5 years	Blood pressure measured	Urine sample taken	Blood sample taken	Number of women with ANC for their most recent birth			
Age at birth										
<20	62.9	14.7	2,672	90.9	82.9	82.6	1,818			
20-34	71.0	17.6	15,151	94.3	86.7	88.4	11,779			
35-49	67.2	14.8	4,088	94.4	87.1	87.7	2,978			
Birth order										
1	73.3	18.6	3,796	93.7	87.0	87.6	3,111			
2-3	71.8	17.2	7,312	94.4	88.1	88.5	5,819			
4-5	69.6	17.1	5,161	94.0	85.8	87.6	3,908			
6+	63.3	14.5	5,642	93.2	83.6	86.2	3,737			
Residence										
Urban	80.1	18.6	8,712	96.1	91.2	92.1	7,834			
Rural	62.2	15.5	13,199	92.0	82.0	83.6	8,741			
			.,				-,			
Zone	00.0	45.5	2.024	05.0	00.0	04.0	0.400			
North Central North East	66.8 69.1	15.5 21.6	3,031 3,862	95.3 94.4	93.0 79.8	91.3 80.3	2,193			
North East North West	69.1 61.5	11.8	3,862 7,644	94.4 92.9	79.8 86.7	80.3 87.3	2,761 4,869			
South East	93.3	19.5	2,138	95.5	86.6	91.2	2,057			
South South	66.9	19.4	2,019	89.3	81.3	84.6	1,655			
South West	76.1	20.3	3,218	95.5	89.6	91.3	3,040			
			.,				-,-			
State North Central										
FCT-Abuja	67.1	15.0	148	98.5	96.7	96.8	131			
Benue	65.8	31.0	637	99.0	98.7	96.2	475			
Kogi	63.3	18.6	299	95.2	95.3	90.1	247			
Kwara	73.7	10.7	360	97.9	94.2	94.2	269			
Nasarawa	76.6	22.0	329	95.8	97.8	97.7	255			
Niger	60.3	2.1	844	91.8	88.4	86.3	501			
Plateau	69.9	15.7	415	91.8	83.7	82.8	316			
North East										
Adamawa	82.8	41.4	518	98.8	90.2	76.6	438			
Bauchi	69.3	16.7	919	94.5	81.9	87.2	615			
Borno	58.5	9.5	732	96.8	93.0	85.7	456			
Gombe	72.6	12.5	444	94.0	84.5	87.8	332			
Taraba	56.7	14.1	495	93.0	64.3	70.9	394			
Yobe	75.6	35.7	755	90.1	66.0	73.1	527			
North West										
Jigawa	78.5	20.1	898	95.6	92.7	92.3	714			
Kaduna	67.8	10.5	1,453	90.4	79.1	74.8	1,017			
Kano	79.8	10.8	1,682	93.6	89.2	91.0	1,405			
Katsina	52.2	12.0	1,440	90.7	89.8	90.2	766			
Kebbi	52.9	18.3	716	95.8	79.9	91.7	373			
Sokoto	37.0	5.7	608	90.2	85.7	81.3	285			
Zamfara	37.4	6.3	848	95.3	87.2	93.1	309			
South East										
Abia	87.5	32.9	259	95.0	93.1	95.6	249			
Anambra	96.3	14.7	664	97.3	97.3	95.3	643			
Ebonyi	88.8 07.6	20.6	493 317	93.8 96.2	66.2	81.6 94.5	465 305			
Enugu Imo	97.6 94.0	20.2 16.9	317 405	96.2 94.4	92.5 84.7	94.5 90.6	305 395			
	34.0	10.9	403	34.4	04.7	90.0	393			
South South										
Akwa Ibom	76.2	32.4	360	89.6	79.4	88.6	291			
Bayelsa	54.9	21.5	144	93.8	96.2	95.6	76			
Cross River	57.9	32.6	231	88.4	79.3	85.7 85.0	194			
Delta Edo	69.5 50.2	9.0 12.8	408 270	92.9 95.0	84.3 87.6	85.9 88.2	315 247			
Rivers	73.4	16.0	606	95.0 84.2	76.1	00.2 77.9	532			
	70.4	10.0	300	O r.2	7 0. 1		302			
South West	00 5	11 7	one	00 4	04.2	04.0	240			
Ekiti Lagos	90.5 53.0	11.7 18.1	226	98.1 91.8	84.3 86.4	94.9 87.8	210			
Lagos Ogun	90.5	31.3	1,142 423	91.8 97.0	86.4 89.6	87.8 87.5	1,096 407			
Ondo	90.5 86.4	5.2	312	95.6	85.1	88.1	299			
Osun	95.2	27.1	409	98.3	91.7	95.5	404			
Oyo	84.8	22.5	706	98.3	97.5	97.4	623			
-,-	00						<u></u>			

	years, percenta	en with a live birth age who during th most recent live	e pregnancy of	Among women who received antenatal care for their most recent birth in the past 5 years, percentage with selected services					
Background characteristic	Took iron tablets or syrup	Took intestinal parasite drugs	Number of women with a live birth in the past 5 years	Blood pressure measured	Urine sample taken	Blood sample taken	Number of women with ANC for their most recent birth		
Education									
No education	54.6	11.2	9,738	91.9	81.2	82.4	5,528		
Primary	75.4	19.5	3,293	91.4	83.1	85.6	2,758		
Secondary	82.1	21.7	6,962	95.3	89.2	90.2	6,389		
More than secondary	87.1	21.7	1,919	98.6	96.5	96.8	1,900		
Wealth quintile									
Lowest	51.2	11.7	4,716	90.0	76.2	78.6	2,463		
Second	60.3	13.5	4,850	92.1	80.6	83.0	3,147		
Middle	75.8	18.8	4,448	93.6	86.2	86.7	3,593		
Fourth	82.2	20.5	4,103	95.2	90.4	91.5	3,699		
Highest	81.8	20.6	3,794	97.1	94.1	94.6	3,672		
Total	69.3	16.7	21,911	93.9	86.4	87.6	16,575		

Table 9.4 Tetanus toxoid injections

Among mothers age 15-49 with a live birth in the 5 years preceding the survey, percentage receiving two or more tetanus toxoid injections during the pregnancy for the most recent live birth and percentage whose last live birth was protected against neonatal tetanus, according to background characteristics, Nigeria DHS 2018

Background	 Percentage receiving two or more injections during the pregnancy for	Percentage whose most recent live birth was protected against neonatal	Number of
characteristic	the last live birth	tetanus1	mothers
Age at birth	44.7	40.7	0.070
<20 20-34	44.7 54.7	48.7 64.1	2,672 15,151
35-49	51.4	61.1	4,088
Birth order			
1	59.9	64.2	3,796
2-3 4-5	56.6 53.2	67.0 63.0	7,312 5,161
6+	43.0	51.9	5,642
Residence			
Urban	64.8	77.4	8,712
Rural	45.0	51.3	13,199
Zone North Central	51.3	57.9	3,031
North East	46.6	54.0	3,862
North West	38.3	45.7	7,644
South East	84.1	92.0 75.7	2,138
South South South West	67.8 66.4	75.7 83.2	2,019 3,218
State			, -
North Central			
FCT-Abuja	62.6	70.8	148
Benue Kogi	64.4 59.3	68.5 67.3	637 299
Kwara	56.2	65.6	360
Nasarawa	48.6	66.5	329
Niger Plateau	37.2 48.3	39.8 53.6	844 415
	40.3	33.0	413
North East Adamawa	71.0	74.4	518
Bauchi	45.7	47.6	919
Borno	24.8	42.0	732
Gombe Taraba	43.2 46.2	61.4 49.6	444 495
Yobe	54.5	58.1	755
North West			
Jigawa	51.2	57.8	898
Kaduna	44.3	50.9	1,453
Kano Katsina	48.7 37.4	65.3 42.5	1,682 1,440
Kebbi	22.4	23.5	716
Sokoto Zamfara	22.2 19.9	28.6 21.9	608 848
	19.9	21.9	040
South East Abia	88.8	93.6	259
Anambra	90.2	93.4	664
Ebonyi	71.5	87.3	493
Enugu Imo	80.8 89.4	89.0 96.9	317 405
South South	55.1	55.5	.00
Akwa Ibom	58.7	69.5	360
Bayelsa	23.1	52.2	144
Cross River Delta	66.2 70.0	71.3 76.3	231 408
Edo	70.0 73.3	76.3 82.1	408 270
Rivers	80.6	83.2	606
South West			
Ekiti	78.8	88.2	226
Lagos Ogun	76.7 67.0	84.1 83.2	1,142 423
Ondo	75.9	82.0	312
Osun	78.2	80.9	409
Oyo	34.6	82.3	706

Table 9.4—Continued			
Background characteristic	Percentage receiving two or more injections during the pregnancy for the last live birth	Percentage whose most recent live birth was protected against neonatal tetanus ¹	Number of mothers
Education			
No education	34.1	40.4	9,738
Primary	57.9	67.6	3,293
Secondary	70.2	80.9	6,962
More than secondary	76.5	89.7	1,919
Wealth quintile			
Lowest	33.4	38.2	4,716
Second	42.3	48.4	4,850
Middle	54.8	64.6	4,448
Fourth	65.4	77.3	4,103
Highest	74.9	87.3	3,794
Total	52.9	61.7	21,911

¹ Includes mothers with two injections during the pregnancy of their most recent live birth, or two or more injections (the last within 3 years of the most recent live birth), or three or more injections (the last within 5 years of the most recent live birth), or four or more injections (the last within 10 years of the most recent live birth), or five or more injections at any time prior to the most recent birth

Table 9.5 Place of delivery

Percent distribution of live births in the 5 years preceding the survey by place of delivery and percentage delivered in a health facility, according to background characteristics, Nigeria DHS 2018

	Health	facility				Percentage	
Background characteristic	Public sector	Private sector	Home	Other	Total	delivered in a health facility	Number of births
Mother's age at birth							
<20	22.9	5.7	70.2	1.2	100.0	28.6	4,677
20-34	27.4	14.1	56.8	1.7	100.0	41.5	24,392
35-49	24.5	14.5	59.4	1.6	100.0	39.0	5,124
Birth order							
1	34.2	18.3	45.7	1.7	100.0	52.6	6,694
2-3	29.2	15.7	53.1	2.0	100.0	44.9	11,545
4-5 6+	24.6 17.5	12.5 5.3	61.1 76.3	1.8 0.9	100.0 100.0	37.1 22.8	7,855
0+	17.5	5.3	76.3	0.9	100.0	22.0	8,098
Antenatal care visits ¹	0.0	4.0	00.0	4.4	400.0		5.000
None	3.9	1.8	93.2	1.1	100.0	5.7	5,336
1-3 4+	22.6	5.5	70.8	1.1	100.0	28.1	3,761
Don't know/missing	39.4 36.8	19.9 37.4	38.4 21.9	2.3 3.9	100.0 100.0	59.3 74.2	12,456 358
_	30.0	37.4	21.9	5.9	100.0	74.2	336
Residence	27.0	00.0	20.0	0.0	400.0	04.4	40.470
Urban Rural	37.2 19.6	23.9 6.2	36.3 73.2	2.6 1.0	100.0 100.0	61.1 25.8	13,170 21,023
	19.0	0.2	73.2	1.0	100.0	25.0	21,023
Zone North Control	24.4	15 1	E0 1	0.7	100.0	40.0	4.640
North Central North East	34.1 23.6	15.1 1.8	50.1 74.5	0.7 0.1	100.0	49.2 25.4	4,619 6.213
North East North West	23.6 14.0	1.8	74.5 84.4	0.1	100.0 100.0	25. 4 15.6	6,213 12,558
South East	37.3	44.5	0 4.4 17.2	1.0	100.0	81.8	3,428
South South	31.5	18.7	43.8	6.0	100.0	50.2	2,968
South West	45.5	30.8	16.8	6.9	100.0	76.3	4,407
State							
North Central							
FCT-Abuja	46.9	16.2	36.5	0.4	100.0	63.2	225
Benue	43.2	23.9	32.6	0.3	100.0	67.1	949
Kogi	33.2	39.1	26.1	1.6	100.0	72.4	451
Kwara	35.9	19.3	42.8	2.1	100.0	55.1	533
Nasarawa	44.8	5.0	50.2	0.0	100.0	49.8	521
Niger Plateau	24.0 27.1	1.8 16.8	74.2 54.7	0.0 1.4	100.0 100.0	25.8 43.9	1,312 628
	27.1	10.0	54.7	1.4	100.0	43.9	020
North East	27.7	4.4	00.7	0.4	400.0	20.0	700
Adamawa	37.7 19.9	1.1 1.9	60.7 78.1	0.4 0.1	100.0	38.9 21.8	786 1,469
Bauchi Borno	24.6	1.6	73.8	0.0	100.0 100.0	26.2	1,409
Gombe	26.6	1.1	72.2	0.0	100.0	27.7	728
Taraba	23.6	6.4	69.8	0.2	100.0	30.0	758
Yobe	16.2	0.0	83.8	0.0	100.0	16.2	1,253
North West							
Jigawa	19.6	0.5	79.9	0.0	100.0	20.1	1,497
Kaduna	13.8	3.8	82.3	0.1	100.0	17.6	2,402
Kano	16.4	2.8	8.08	0.0	100.0	19.2	2,738
Katsina	16.0	0.4	83.5	0.0	100.0	16.5	2,428
Kebbi	7.4	0.0	92.6	0.0	100.0	7.4	1,228
Sokoto Zamfara	7.6 9.8	0.2 1.0	92.2 89.2	0.0 0.0	100.0 100.0	7.8 10.8	978 1,287
	9.0	1.0	09.2	0.0	100.0	10.0	1,207
South East	50.7	20.2	6.0	4 7	100.0	00.0	400
Abia Anambra	53.7	38.3	6.3	1.7	100.0	92.0	426
Anambra Ebonyi	37.5 35.7	52.9 20.8	9.2 41.6	0.3 1.9	100.0 100.0	90.4 56.5	1,045 814
Enugu	43.5	36.1	19.2	1.2	100.0	79.5	486
Imo	23.6	70.9	5.1	0.4	100.0	94.5	657
South South		-				-	
Akwa Ibom	25.8	8.9	55.3	10.0	100.0	34.7	522
Bayelsa	22.4	0.4	76.5	0.7	100.0	22.9	217
Cross River	44.1	8.5	42.4	5.1	100.0	52.6	318
Delta	38.7	16.1	41.3	3.8	100.0	54.9	595
Edo	39.8	40.3	17.6	2.3	100.0	80.1	411
Rivers	24.0	24.1	43.5	8.3	100.0	48.2	906
South West							
Ekiti	57.7	14.1	22.6	5.6	100.0	71.8	329
Lagos	27.4	48.3	15.6	8.7	100.0	75.7	1,545
Ogun	47.6	25.7	21.3	5.3	100.0	73.4	586
Ondo	67.8	12.9	12.2	7.1	100.0	80.7	423
Osun	62.8	28.8	5.6	2.8	100.0	91.6	549
Oyo	49.4	20.7	22.3	7.7	100.0	70.1	976

	Health	facility				Percentage	
Background characteristic	Public sector	Private sector	Home	Other	Total	delivered in a health facility	Number of births
Mother's education							
No education	12.3	1.5	86.0	0.2	100.0	13.8	15,858
Primary	29.9	10.6	56.4	3.1	100.0	40.5	5,103
Secondary	40.0	24.6	32.2	3.1	100.0	64.6	10,413
More than secondary	48.7	39.0	10.8	1.5	100.0	87.7	2,818
Wealth quintile							
Lowest	9.9	1.7	88.0	0.4	100.0	11.6	7,572
Second	16.7	4.4	78.3	0.6	100.0	21.1	7,782
Middle	29.6	10.7	58.1	1.7	100.0	40.3	7,043
Fourth	39.9	19.2	37.8	3.0	100.0	59.2	6,254
Highest	43.0	36.5	17.4	3.1	100.0	79.5	5,541
Total	26.4	13.0	59.0	1.6	100.0	39.4	34,193

¹ Includes only the most recent birth in the 5 years preceding the survey

Table 9.6 Assistance during delivery

Percent distribution of live births in the 5 years preceding the survey by person providing assistance during delivery, percentage of births assisted by a skilled provider, and among births delivered by skilled providers, percentage whose mothers received an injection in the thigh or buttock immediately after delivery, according to background characteristics, Nigeria DHS 2018

			Person pr	oviding assi	stance durir	ng delivery			_			Among deliveries by a skilled provider	
Background characteristic	Doctor	Nurse/ midwife	Auxiliary nurse/ midwife	Commu- nity health extension worker	Tradi- tional birth attendant	Relative/ other	No one	Total	Percent- age delivered by a skilled provider ¹	Number of births	Percentage of mothers receiving an injection in thigh or buttock immediately after delivery	Number of births delivered by a skilled provider	
Mother's age at birth <20	4.0	24.1	3.5	2.6	25.7	32.1	8.1	100.0	30.7	4,677	78.5	1,435	
20-34	9.8	33.3	2.7	2.7	19.4	21.2	11.0	100.0	45.8	24,392	80.8	11,176	
35-49	10.4	29.8	2.8	2.4	20.8	18.7	15.1	100.0	42.6	5,124	83.3	2,183	
Birth order													
1	14.5	39.0	3.1	2.8	16.5	20.7	3.3	100.0	56.4	6,694	78.2	3,774	
2-3 4-5	11.0 7.7	35.6 31.0	2.7 2.5	3.1 2.6	18.1 20.2	21.8 23.2	7.7 12.8	100.0 100.0	49.7 41.2	11,545 7,855	81.1 82.8	5,737 3,238	
6+	3.4	19.9	2.9	2.0	27.2	23.5	21.1	100.0	25.3	8,098	82.7	2,045	
Antenatal care visits ²													
None	0.9	5.5	1.9	1.5	32.7	37.8	19.7	100.0	7.9	5,336	57.2	421	
1-3	3.6	24.8	3.6	2.4	22.4	30.2	13.1	100.0	30.7	3,761	80.2	1,156	
4+ Don't know/missing	14.6 34.7	46.7 46.3	3.0 2.0	3.7 2.8	13.1 10.4	12.4 3.4	6.4 0.4	100.0 100.0	65.0 83.9	12,456 358	81.5 76.7	8,096 300	
Place of delivery	•						• • •						
Health facility	22.5	70.7	4.3	2.0	0.3	0.1	0.1	100.0	95.1	13,462	83.9	12,808	
Public facility	15.9	76.2	5.8	1.4	0.3	0.2	0.1	100.0	93.6	9,012	84.4	8,434	
Private facility Elsewhere	35.8	59.4	1.2	3.1	0.4	0.1	0.1	100.0	98.3	4,450	82.9	4,374	
	0.4	6.1	1.8	3.1	33.5	36.7	18.4	100.0	9.6	20,730	61.7	1,986	
Residence Urban	17.5	46.4	2.4	3.8	12.4	12.3	5.3	100.0	67.6	13,170	81.8	8,905	
Rural	3.9	22.2	3.1	1.9	25.5	28.6	14.9	100.0	28.0	21,023	79.6	5,889	
Zone										,		,	
North Central North East North West South East South South South West	10.4 1.9 1.9 13.2 12.7 32.9	39.1 21.2 15.3 66.3 46.8 47.0	4.3 4.5 1.9 4.8 1.0 1.0	1.5 1.7 1.1 5.6 5.3 5.4	2.2 16.2 36.2 3.4 29.5 7.6	37.8 39.4 23.5 4.8 3.4 5.0	4.7 15.0 20.1 1.9 1.3 1.0	100.0 100.0 100.0 100.0 100.0 100.0	51.0 24.8 18.2 85.2 64.8 85.4	4,619 6,213 12,558 3,428 2,968 4,407	82.8 85.6 77.0 91.2 70.9 77.4	2,357 1,542 2,290 2,919 1,923 3,764	
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	17.8 5.2 41.2 13.3 9.6 1.5 10.4	53.2 60.6 31.4 44.3 47.5 21.9 31.8	0.7 5.3 5.0 0.4 0.4 7.2 4.2	0.6 1.8 0.8 4.5 0.2 1.3 0.8	2.3 1.9 4.4 4.7 1.5 0.8 2.1	22.6 24.3 16.7 27.8 25.2 62.5 46.4	2.8 1.0 0.6 4.9 15.7 4.8 4.4	100.0 100.0 100.0 100.0 100.0 100.0 100.0	71.6 67.6 73.4 62.1 57.3 24.7 42.9	225 949 451 533 521 1,312 628	72.8 91.0 92.4 87.7 86.0 61.3 73.7	161 641 331 331 298 324 270	
North East Adamawa	0.5	39.2	1.0	0.7	2.7	54.7	1.1	100.0	40.5	786	92.2	318	
Bauchi	2.5	18.1	6.3	0.9	25.9	24.2	22.1	100.0	21.6	1,469	79.1	317	
Borno Gombe	2.0 1.6	23.5 10.6	4.0 9.0	0.4 6.7	22.4 3.8	42.0 43.3	5.6 25.1	100.0 100.0	25.9 18.8	1,219 728	94.1 72.5	316 137	
Taraba	3.8	25.0	9.0 8.5	1.6	3.6 6.8	43.3 46.9	25.1 7.4	100.0	30.4	726 758	72.5 84.6	230	
Yobe	1.1	15.0	0.2	1.7	20.3	38.2	23.4	100.0	17.8	1,253	82.8	224	
North West													
Jigawa	0.7	20.3	0.4	0.0	23.3	19.7	35.6	100.0	20.9	1,497	84.7	313	
Kaduna Kano	3.2 1.9	18.8 18.9	1.4 2.7	4.5 0.6	30.2 44.3	28.0 11.5	13.9 20.1	100.0 100.0	26.5 21.5	2,402 2,738	73.9 90.3	636 588	
Katsina	3.4	15.2	0.5	0.8	54.3	5.8	20.1	100.0	18.9	2,736	71.0	460	
Kebbi	0.1	3.0	6.3	0.3	5.5	81.3	3.5	100.0	3.4	1,228	76.1	42	
Sokoto	0.3	8.7	3.9	0.1	49.6	12.8	24.6	100.0	9.2	978	65.1	90	
Zamfara	0.6	11.8	0.1	0.1	30.5	31.3	25.6	100.0	12.5	1,287	50.0	161	
South East	10.0	04.0	0.4	1.0	0.0	4.0	0.7	100.0	05.0	400	00.0	400	
Abia Anambra	10.2 13.1	84.6 76.6	0.1 1.6	1.0 4.9	2.2 2.3	1.2 0.9	0.7 0.6	100.0 100.0	95.8 94.7	426 1,045	96.0 92.9	408 989	
Ebonyi	11.4	29.0	17.9	11.7	9.3	15.4	5.3	100.0	52.1	814	91.5	424	
Enugu	8.9	80.8	0.2	3.2	0.9	4.2	1.8	100.0	93.0	486	90.4	453	
Imo	20.7	73.5	0.0	4.0	0.5	8.0	0.5	100.0	98.2	657	85.7	645	

	—Co	

			Person pr	oviding ass	istance durir	ng delivery						eliveries by I provider
Background characteristic	Doctor	Nurse/ midwife	Auxiliary nurse/ midwife	Commu- nity health extension worker	Tradi- tional birth attendant	Relative/	No one	Total	Percent- age delivered by a skilled provider ¹	Number of births	Percentage of mothers receiving an injection in thigh or buttock immediately after delivery	Number of births delivered by a skilled provider
Courth Courth												
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	10.7 2.6 11.6 13.1 19.2 13.3	28.4 22.5 43.5 47.6 69.0 53.7	0.0 0.0 1.1 2.7 1.5 0.3	2.3 1.9 0.6 6.4 0.0 11.3	54.8 71.8 28.2 26.1 6.2 18.1	1.2 1.2 12.7 2.1 3.2 2.9	2.6 0.0 2.2 1.9 0.9 0.5	100.0 100.0 100.0 100.0 100.0 100.0	41.4 27.0 55.7 67.1 88.2 78.3	522 217 318 595 411 906	75.1 89.8 72.3 45.4 84.8 75.1	216 58 177 400 363 709
South West			0.0				0.0		. 0.0	000		
Ekiti Lagos Ogun Ondo Osun Oyo	16.1 37.2 34.1 19.2 31.2 38.2	62.7 43.0 38.4 63.4 62.5 37.6	0.2 0.0 4.4 0.2 1.1 1.0	8.4 3.5 7.4 3.6 2.3 8.8	2.2 12.7 8.6 5.4 0.6 5.8	8.1 2.9 6.6 4.7 1.6 8.6	2.4 0.8 0.5 3.5 0.7 0.0	100.0 100.0 100.0 100.0 100.0 100.0	87.1 83.6 79.9 86.1 96.0 84.6	329 1,545 586 423 549 976	88.1 63.1 66.7 85.0 89.2 91.4	286 1,292 469 364 527 826
Mother's education												
No education Primary Secondary More than secondary	1.6 6.8 14.5 35.7	11.8 35.4 53.2 55.4	2.7 3.6 3.1 0.9	1.1 3.6 4.8 1.6	28.7 22.3 11.7 2.5	34.3 20.6 10.2 3.2	19.9 7.7 2.5 0.7	100.0 100.0 100.0 100.0	14.4 45.8 72.5 92.8	15,858 5,103 10,413 2,818	75.7 80.7 82.9 80.2	2,288 2,340 7,552 2,614
Wealth quintile												
Lowest Second Middle Fourth Highest	0.9 2.4 6.4 13.5 28.2	9.7 17.4 35.6 49.6 55.4	2.7 3.8 3.4 2.8 0.7	1.0 2.2 3.6 3.6 3.3	29.4 28.9 18.8 13.8 6.0	34.1 31.0 22.9 12.0 5.0	22.1 14.4 9.3 4.7 1.4	100.0 100.0 100.0 100.0 100.0	11.7 22.0 45.6 66.7 86.9	7,572 7,782 7,043 6,254 5,541	78.1 80.0 81.4 82.7 80.0	885 1,711 3,212 4,171 4,815
Total	9.1	31.5	2.8	2.6	20.4	22.3	11.2	100.0	43.3	34,193	80.9	14,794

Note: If the respondent mentioned more than one person attending during delivery, only the most qualified person is considered in this tabulation.

¹ Skilled provider includes doctor, nurse, midwife, and auxiliary nurse/midwife.

² Includes only the most recent birth in the 5 years preceding the survey

Table 9.7 Caesarean section

Percentage of live births in the 5 years preceding the survey delivered by caesarean section, percentage delivered by caesarean section planned before the onset of labour pains, and percentage delivered by caesarean section decided on after the onset of labour pains, according to background characteristics, Nigeria DHS 2018

	Percentage delivered by	Timing of decis caesarea		
Background characteristic	caesarean section	Before onset of labour pains	After onset of labour pains	Number of births
Mother's age at birth				
<20	1.0	0.3	0.7	4,677
20-34	2.8	1.2	1.6	24,392
35-49	3.7	1.9	1.8	5,124
Birth order				
1	4.7	1.5	3.2	6,694
2-3 4-5	3.4 1.8	1.8 0.9	1.5 1.0	11,545 7,855
4-3 6+	1.0	0.9	0.7	8,098
Antenatal care visits ¹		0.0	· · ·	3,333
None	0.3	0.1	0.3	5,336
1-3	1.3	0.7	0.6	3,761
4+	4.8	2.2	2.7	12,456
Don't know/missing	6.0	2.6	3.4	358
Place of delivery				
Health facility	6.9	3.0	3.9	13,462
Public facility	4.6	2.1	2.6	9,012
Private facility	11.5	4.9	6.6	4,450
Residence		0.0	2.2	40.470
Urban	5.2	2.3	2.9	13,170
Rural	1.2	0.5	0.7	21,023
Zone	^ -	4.5	4 -	4.040
North Central	2.7	1.2	1.5	4,619
North East	0.9	0.2	0.7	6,213
North West South East	0.7 5.8	0.3 2.9	0.4 2.9	12,558 3,428
South South	5.0 5.1	2.1	3.0	2,968
South West	7.0	3.0	4.0	4,407
State				, -
North Central				
FCT-Abuja	8.2	3.2	5.0	225
Benue	2.9	1.1	1.8	949
Kogi	3.6	2.0	1.5	451
Kwara	0.8	0.1	0.7	533
Nasarawa	4.2	2.2	2.0	521
Niger	0.7	0.2	0.5	1,312
Plateau	4.2	2.1	2.2	628
North East	0.0	0.4	0.4	700
Adamawa	0.8	0.4	0.4	786
Bauchi Borno	1.1 0.6	0.2 0.0	0.9 0.6	1,469 1,219
Gombe	1.3	0.6	0.7	728
Taraba	2.2	0.6	1.6	758
Yobe	0.1	0.0	0.1	1,253
North West				
Jigawa	0.8	0.2	0.6	1,497
Kaduna	1.4	0.7	0.8	2,402
Kano	0.9	0.6	0.4	2,738
Katsina	0.5	0.1	0.3	2,428
Kebbi	0.0	0.0	0.0	1,228
Sokoto	0.2 0.1	0.0 0.1	0.2	978
Zamfara	0.1	0.1	0.1	1,287
South East	2.2	4.0	4 -	400
Abia Anambra	3.0 6.6	1.6 3.9	1.5 2.8	426 1,045
Ebonyi	3.7	3.9 1.0	2.6 2.7	814
Enugu	5.8	2.8	3.0	486
Imo	9.1	4.6	4.5	657
South South				
Akwa Ibom	4.5	2.6	1.9	522
Bayelsa	0.9	0.4	0.5	217
Cross River	3.4	1.5	1.8	318
Delta	4.3	2.6	1.7	595
Edo	5.8	3.5	2.3	411
Rivers	7.4	1.5	5.8	906

	Percentage delivered by	Timing of decis	_	
Background characteristic	caesarean section	Before onset of labour pains	After onset of labour pains	Number of births
South West				
Ekiti	4.0	2.3	1.7	329
Lagos	12.5	5.7	6.8	1,545
Ogun	4.9	2.8	2.1	586
Ondo	5.2	1.1	4.1	423
Osun	3.9	0.9	3.0	549
Oyo	3.2	1.2	2.0	976
Mother's education				
No education	0.5	0.1	0.3	15,858
Primary	1.3	0.4	0.9	5,103
Secondary	3.8	1.6	2.2	10,413
More than secondary	13.9	7.0	6.9	2,818
Wealth quintile				
Lowest	0.3	0.1	0.3	7,572
Second	0.7	0.2	0.5	7,782
Middle	1.6	0.7	0.9	7,043
Fourth	3.1	1.4	1.7	6,254
Highest	9.8	4.5	5.3	5,541
- Total	2.7	1.2	1.5	34,193

Note: The question on caesarean section was asked only of women who delivered in a health facility. In this table, it is assumed that women who did not give birth in a health facility did not receive a caesarean section.

¹ Includes only the most recent birth in the 5 years preceding the survey

Table 9.8 Reasons for opting for caesarean section

Percentage of live births in the 5 years preceding the survey delivered by caesarean section, by reasons for opting for delivery by caesarean section, according to background characteristics, Nigeria DHS 2018

Background	Excess	Breech	Medical condition of				Number of births delivered by caesarean
characteristic	bleeding	position	mother	Cord problem	Voluntary	Other	section
Mother's age at birth							
<20	15.9	26.2	54.2	0.0	0.0	3.6	47
20-34	3.8	21.9	58.5	4.0	4.3	7.6	691
35-49	7.4	23.8	52.4	6.7	4.9	4.8	192
Birth order							
1	4.0	16.3	64.1	2.5	1.8	11.3	314
2-3	4.0	22.1	56.9	5.3	6.2	5.5	389
4-5	6.5	29.4	50.3	4.9	6.4	2.5	142
6+	12.9	35.5	42.3	5.7	0.0	3.5	85
Antenatal care visits ¹							
None	*	*	*	*	*	*	18
1-3	(5.0)	(25.5)	(46.8)	(10.8)	(7.6)	(4.3)	49
4+	5.9	21.5	56.1	5.1	4.0	7.3	602
Place of delivery							
Health facility	5.2	22.5	57.0	4.4	4.2	6.8	929
Public facility	7.1	21.5	54.4	5.0	5.5	6.5	419
Private facility	3.6	23.3	59.1	3.8	3.1	7.1	510
Time when decision made							
Before onset of labour pains	6.0	23.1	55.7	1.9	9.1	4.1	404
After onset of labour pains	4.6	22.0	57.9	6.2	0.4	8.9	525
Residence							
Urban	2.9	20.5	60.3	4.2	5.1	7.1	687
Rural	11.8	28.1	47.5	4.9	1.6	6.0	242
Zone							
North Central	5.7	27.2	60.0	1.0	1.1	5.0	124
North East	13.6	23.9	43.7	14.0	0.0	4.7	58
North West	18.5	29.3	39.0	7.0	4.3	1.7	87
South East	2.7	21.8	55.4	5.7	2.8	11.6	200
South South	3.7	26.9	52.5	6.4	5.5	5.1	151
South West	1.9	16.7	66.6	1.3	6.4	7.2	309
Mother's education							
No education	24.0	38.1	34.7	3.1	0.0	0.0	76
Primary	10.5	23.1	55.1	5.1	2.4	3.9	68
Secondary	3.6	23.9	57.3	4.5	2.5	8.2	393
More than secondary	2.2	17.9	61.4	4.3	7.0	7.2	392
Wealth quintile							
Lowest	(21.6)	(44.4)	(30.7)	(0.0)	(0.0)	(3.3)	25
Second	11.8	31.4	45.1	3.5	3.1	5.0	53
Middle	11.1	28.3	45.5	5.4	2.0	7.7	115
Fourth	5.7	27.7	53.2	5.5	0.0	7.8	194
Highest	2.3	17.5	63.1	4.0	6.4	6.6	543
Total	5.2	22.5	57.0	4.4	4.2	6.8	929

Note: Total includes 22 cases with missing information on status of antenatal care visits. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Includes only the most recent birth in the 5 years preceding the survey

Table 9.9 Duration of stay in health facility after birth

Among women with a birth in the 5 years preceding the survey who delivered their most recent live birth in a health facility, percent distribution by duration of stay in the health facility following their most recent live birth, according to type of delivery, Nigeria DHS 2018

Type of delivery	<6 hours	6-11 hours	12-23 hours	1-2 days	3+ days	Missing	Total	Number of women
Vaginal birth	34.0	14.7	6.0	37.8	7.4	0.1	100.0	8,236
Caesarean section	1.4	0.6	0.0	4.3	93.5	0.2	100.0	691

Table 9.10 Referral to place of delivery

Percent distribution of live births in the 5 years preceding the survey that were delivered in a health facility by referral status to the facility, according to background characteristics, Nigeria DHS 2018

			in a health facility			
Background characteristic	Came from home	Referred from another facility	ferrals Came from other non-facility location	Don't know/ missing	Total	Number of births
Mother's age at birth						
<20	97.3	1.7	0.1	0.9	100.0	1,634
20-34	97.0	1.6	0.4	0.9	100.0	10,162
35-49	96.6	1.5	0.2	1.7	100.0	1,667
Birth order						
1	96.4	2.1	0.5	1.1	100.0	3,519
2-3	97.2 07.5	1.5	0.2	1.0	100.0	5,181
4-5 6+	97.5 96.9	1.2 1.7	0.4 0.3	0.9 1.0	100.0 100.0	2,914 1,849
	30.3	1.7	0.0	1.0	100.0	1,040
Antenatal care visits ¹ None	96.2	1.7	1.2	0.8	100.0	303
1-3	97.3	1.7	0.3	0.7	100.0	1,058
4+	96.7	1.9	0.4	1.0	100.0	7,388
Don't know/missing	96.9	1.9	0.2	1.1	100.0	266
· ·						
Place of delivery Public facility	98.3	1.4	0.2	0.1	100.0	8,275
Private facility	94.7	1.8	0.6	3.0	100.0	4,336
Elsewhere	96.5	2.9	0.6	0.1	100.0	851
Residence						
Urban	97.0	1.7	0.3	0.9	100.0	8,042
Rural	97.0	1.5	0.4	1.2	100.0	5,420
Zone						,
North Central	98.6	1.0	0.3	0.1	100.0	2,273
North East	96.7	1.9	0.0	1.4	100.0	1,577
North West	97.5	2.2	0.2	0.1	100.0	1,955
South East	95.6	1.2	0.3	2.9	100.0	2,804
South South	96.2	2.2	0.9	0.7	100.0	1,490
South West	97.3	1.7	0.4	0.6	100.0	3,364
State						
North Central						
FCT-Abuja	96.4	3.2	0.4	0.0	100.0	142
Benue	98.5	1.1	0.0	0.3	100.0	637
Kogi	100.0	0.0	0.0	0.0	100.0	327
Kwara	98.3	1.0	0.7	0.0	100.0	294
Nasarawa	99.5	0.1	0.4	0.0	100.0	260
Niger	98.5	0.8	0.7	0.0	100.0	339
Plateau	98.1	1.7	0.2	0.0	100.0	275
North East				<u></u>		
Adamawa	99.5	0.0	0.0	0.5	100.0	306
Bauchi	86.5	6.9	0.0	6.7	100.0	320
Borno	100.0	0.0	0.0	0.0	100.0	319
Gombe Taraba	98.0 98.6	2.0	0.0 0.0	0.0 0.0	100.0 100.0	202 227
Yobe	100.0	1.4 0.0	0.0	0.0	100.0	203
	100.0	0.0	0.0	0.0	100.0	200
North West Jigawa	97.2	2.4	0.4	0.0	100.0	301
Jigawa Kaduna	97.2 97.1	2.4	0.4	0.0	100.0	422
Kano	98.5	1.5	0.2	0.0	100.0	525
Katsina	96.3 97.4	2.2	0.0	0.4	100.0	400
Kebbi	98.8	1.2	0.0	0.0	100.0	91
Sokoto	90.3	7.7	2.0	0.0	100.0	76
Zamfara	99.3	0.7	0.0	0.0	100.0	139
South East						
Abia	92.7	0.2	0.0	7.1	100.0	392
Anambra	98.2	1.1	0.0	0.7	100.0	945
Ebonyi	96.5	2.4	0.9	0.2	100.0	460
Enugu	98.8	0.7	0.5	0.0	100.0	387
lmo	91.0	1.1	0.5	7.4	100.0	620
South South						
Akwa Ibom	97.3	1.2	1.5	0.0	100.0	181
Bayelsa	97.9	2.1	0.0	0.0	100.0	50
Cross River	95.0	3.4	0.0	1.6	100.0	167
Delta	96.2	2.5	0.4	0.9	100.0	327
Edo	96.2	2.5	0.0	1.3	100.0	329
Rivers	96.0	1.7	2.3	0.0	100.0	436

Table 9.10—Continued						
		Births delivered	I in a health facility			
		Re	ferrals	_		
Background	-	Referred from	Came from other	Don't know/		
characteristic	Came from home	another facility	non-facility location	missing	Total	Number of births
South West						
Ekiti	97.0	3.0	0.0	0.0	100.0	236
Lagos	96.1	1.5	0.9	1.5	100.0	1,170
Ogun	99.5	0.5	0.0	0.0	100.0	430
Ondo	97.2	2.2	0.6	0.0	100.0	341
Osun	98.4	1.6	0.0	0.0	100.0	503
Oyo	97.4	2.4	0.0	0.3	100.0	684
Mother's education						
No education	97.2	2.0	0.2	0.6	100.0	2,193
Primary	97.4	1.4	0.3	0.8	100.0	2,067
Secondary	96.9	1.5	0.4	1.2	100.0	6,731
More than secondary	96.9	1.9	0.3	1.0	100.0	2,471
Wealth quintile						
Lowest	97.7	1.7	0.1	0.5	100.0	879
Second	97.2	1.8	0.3	0.7	100.0	1,641
Middle	97.2	1.6	0.4	0.8	100.0	2,836
Fourth	97.0	1.7	0.2	1.1	100.0	3,701
Highest	96.7	1.5	0.4	1.4	100.0	4,405

0.3

1.0

100.0

13,462

97.0

1.6

Total

¹ Includes only the most recent birth in the 5 years preceding the survey

Table 9.11 Reasons for referral and time taken

Percent distribution of births in the 5 years preceding the survey that were referred to the health facility of delivery by reasons for the referral, time taken to make a decision and reach the health facility, and percentage accompanied by a health provider during the referral, by type of health facility, Nigeria DHS 2018

	Type of	facility	
Background characteristic	Government	Private	Total
Reasons Problem during labour/emergency Health professional not available Facility too crowded/no bed available Facility not open Other	66.3 15.3 6.1 6.7 5.7	(76.7) (6.5) (0.0) (0.0) (16.9)	68.3 13.5 4.9 5.4 7.9
Total	100.0	100.0	100.0
Time taken to decide and reach health facility <30 minutes 30-60 minutes >60 minutes	16.9 20.4 56.8	(26.0) (8.9)	18.7 18.1
Don't know	5.9	(60.9) (4.3)	57.6 5.6
Total	100.0	100.0	100.0
Percentage accompanied by a health provider	21.5	(39.2)	25.0
Number of births	166	41	207

Note: Figures in parentheses are based on 25-49 unweighted cases.

Table 9.12 Means of transportation to health facility

Percentage of live births in the 5 years preceding the survey that were delivered in a health facility by means of transportation to the health facility where the delivery took place, according to background characteristics, Nigeria DHS 2018

Background characteristic	Private car/truck	Taxi/ paid driver/ tricycle	Motorcycle/ scooter	Public transport/ bus	Bicycle	Boat/ canoe	Walking	Ambulance and other means ¹	Number of births
Age at birth									
<20	13.1	23.6	39.5	3.2	1.4	1.3	16.6	0.4	1,337
20-34	21.1	20.6	30.3	4.1	0.8	0.5	22.0	0.3	10,127
35-49	22.7	20.8	27.3	3.2	0.5	0.3	23.5	0.3	1,999
Birth order									
1	21.0	23.0	31.1	3.9	0.9	0.7	18.9	0.3	3,519
2-3 4-5	20.3 20.0	21.8 17.6	29.4 30.9	4.5 3.2	0.8 1.0	0.4	22.3 26.5	0.3 0.2	5,181
4-5 6+	21.1	20.0	34.1	2.9	0.6	0.7 0.3	20.0	0.2	2,914 1,849
	21.1	20.0	04.1	2.0	0.0	0.0	20.0	0.0	1,043
Antenatal care visits ² None	11.4	17.0	48.4	1.6	1.2	0.1	18.5	0.2	303
1-3	19.2	21.4	37.4	1.6	1.1	0.1	18.3	0.0	1,058
4+	20.5	21.6	29.4	4.5	0.9	0.6	21.8	0.3	7,388
Don't know/missing	12.9	15.3	15.2	2.2	2.1	0.5	51.1	0.0	266
Residence									
Urban	24.8	22.9	24.1	4.7	0.6	0.4	22.2	0.2	8,042
Rural	14.1	18.0	40.6	2.7	1.2	8.0	21.0	0.4	5,420
Zone									
North Central	13.1	14.2	53.4	2.7	0.1	1.1	15.4	0.1	2,273
North East	23.6	25.2	32.6	1.8	0.0	1.1	14.1	0.8	1,577
North West	42.5	31.6	19.9	1.7	1.2	0.0	2.6	0.3	1,955
South East	13.5	12.6	32.1	2.6	0.2	0.2	36.3	0.4	2,804
South South South West	16.2 19.1	25.3 22.3	31.2 19.5	2.3 8.7	0.1 2.4	1.1 0.4	23.6 27.6	0.1 0.2	1,490 3,364
	19.1	22.3	19.5	0.1	2.4	0.4	21.0	0.2	3,304
State									
North Central	24.1	11.0	20.6	0.0	0.0	0.0	25.0	0.6	142
FCT-Abuja Benue	24.1 5.8	11.9 5.9	28.6 73.7	9.0 0.8	0.0 0.2	3.4	25.8 10.0	0.6 0.0	637
Kogi	8.7	15.8	50.7	0.8	0.2	0.0	24.9	0.0	327
Kwara	20.8	18.5	35.6	8.8	0.2	0.0	16.6	0.4	294
Nasarawa	11.7	11.1	51.8	3.8	0.2	0.0	21.8	0.0	260
Niger	15.7	20.1	53.7	1.2	0.0	0.7	8.5	0.0	339
Plateau	19.3	23.9	42.6	8.0	0.0	0.0	12.1	0.0	275
North East									
Adamawa	17.1	19.9	30.0	3.7	0.1	1.4	27.4	0.0	306
Bauchi	19.0	21.9	44.6	2.9	0.0	0.7	2.1	2.2	320
Borno	39.1	41.6	14.8	0.8	0.0	0.0	3.5	0.5	319
Gombe Taraba	20.1 14.4	32.1 9.3	36.1 56.1	0.5 0.0	0.0 0.0	0.0 0.0	11.0 20.5	0.2 0.0	202 227
Yobe	30.1	23.7	15.8	1.8	0.0	5.0	25.8	1.8	203
	00	20			0.0	0.0	20.0		
North West	45.1	30.4	21.4	0.2	0.0	0.0	2.5	0.4	301
Jigawa Kaduna	35.8	25.1	34.5	0.6	0.0	0.0	3.2	0.4	422
Kano	51.4	35.3	6.9	2.7	0.7	0.0	3.0	0.0	525
Katsina	36.9	25.6	30.0	3.5	0.0	0.0	2.8	1.3	400
Kebbi	29.0	30.3	17.2	0.0	21.0	0.0	2.5	0.0	91
Sokoto	49.5	40.2	7.4	2.1	0.0	0.0	0.7	0.0	76
Zamfara	45.3	53.3	1.4	0.0	0.0	0.0	0.0	0.0	139
South East									
Abia	10.3	29.5	20.8	0.7	0.2	0.0	32.0	0.1	392
Anambra	19.2	11.0	26.0	3.4	0.1	0.4	40.1	0.0	945
Ebonyi Enugu	5.1 17.6	5.3 14.6	42.6 34.3	3.9 0.3	0.5 0.5	0.0 0.0	41.8 30.0	1.4 0.0	460 387
Imo	10.4	8.3	39.3	3.1	0.0	0.0	33.2	0.6	620
		0.0	30.0	٠	0.0	V. <u>-</u>	JJ. <u>L</u>	0.0	0_0
South South Akwa Ibom	27.7	14.1	51.6	1.2	0.0	0.0	5.3	0.0	181
Bayelsa	6.3	28.6	18.5	5.1	0.0	7.4	34.2	0.0	50
Cross River	6.9	26.0	34.7	10.1	0.0	1.1	19.6	0.0	167
Delta	15.0	17.6	37.1	1.7	0.5	1.8	25.9	0.0	327
Edo	15.0	16.0	39.6	0.2	0.0	0.0	28.1	0.0	329
Rivers	17.8	42.2	12.2	1.4	0.0	1.0	26.3	0.2	436
South West			a- ·				
Ekiti	17.9	11.3	37.4	0.5	0.4	0.1	34.1	0.5	236
Lagos Ogun	24.8 9.4	20.7 38.6	10.8 17.4	10.0 12.9	0.2 2.5	0.3 0.0	33.7 17.9	0.1 0.0	1,170 430
Ondo	9. 4 13.9	9.6	24.3	0.4	2.5 11.8	2.0	38.2	0.0	430 341
JIIGO									
Osun	10.7	12.2	51.4	0.6	0.7	0.0	24.2	0.1	503

		Taxi/		Public				Ambulance	
Background characteristic	Private car/truck	paid driver/ tricycle	Motorcycle/ scooter	transport/ bus	Bicycle	Boat/ canoe	Walking	and other means ¹	Number of births
Education									
No education	18.2	25.0	38.2	3.5	1.3	0.5	12.6	0.4	2,193
Primary	12.1	19.1	34.9	5.8	1.1	0.5	25.5	0.3	2,067
Secondary	15.7	19.6	32.1	3.4	8.0	8.0	26.4	0.3	6,731
More than secondary	42.7	22.5	16.9	3.8	0.3	0.0	13.7	0.1	2,471
Wealth quintile									
Lowest	8.7	17.9	53.1	1.3	1.2	0.8	16.0	1.2	879
Second	8.9	16.7	46.3	3.0	1.5	0.7	21.6	0.4	1,641
Middle	12.5	18.0	39.5	3.1	0.9	0.9	24.2	0.2	2,836
Fourth	16.4	22.3	30.3	4.0	0.8	0.3	25.1	0.2	3,701
Highest	35.8	23.8	15.2	5.1	0.5	0.4	18.4	0.2	4,405
Total	20.5	20.9	30.7	3.9	0.8	0.6	21.7	0.3	13,462

¹ Other includes ambulance, animal-drawn cart, carried by people, and other.

Table 9.13 Thermal care for newborns

Among most recent live births in the 2 years preceding the survey, percentage with skin-to-skin contact immediately after birth, percentage who were wiped dry within a few minutes after birth, and percent distribution by timing of first bath, according to background characteristics, Nigeria DHS 2018

	Percentage	Obild 1001		Timing o	f first bath			
Background characteristic	with skin-to- skin contact immediately after birth	Child wiped dry within a few minutes after birth	Bathed less than 6 hours after birth	Bathed 6-23 hours after birth	Bathed 24 or more hours after birth	Don't know	Total	Number of births
Mother's age at birth	40.0				• •		400.0	
<20 20-34	10.3 12.7	69.7 78.7	72.7 62.6	9.5 14.8	9.0 14.5	8.8 8.2	100.0 100.0	2,604 8,906
35-49	10.3	76.7 76.1	65.3	13.2	11.7	9.7	100.0	1,426
Birth order								
1	12.8	81.1	57.8	15.4	16.9	9.9	100.0	2,470
2-3 4-5	13.6 9.9	80.0 76.3	61.6 67.1	15.1 14.2	15.0 11.0	8.3 7.7	100.0 100.0	4,396 2,977
6+	10.9	68.5	73.2	9.1	9.2	8.5	100.0	3,091
Place of delivery Health facility Elsewhere	18.2 7.7	91.9 66.2	46.3 77.6	24.4 6.1	21.7 7.1	7.6 9.1	100.0 100.0	5,260 7,675
Residence								.,
Urban	14.0	85.9	51.3	20.9	19.3	8.4	100.0	4,979
Rural	10.7	70.8	73.4	8.9	9.1	8.6	100.0	7,956
Zone								
North Central	9.4	85.8	65.5	16.5	8.3	9.6	100.0	1,787
North East North West	15.7 11.1	72.1 61.8	72.5 82.8	8.9 5.1	8.4 5.4	10.2 6.6	100.0 100.0	2,350 4,649
South East	6.6	90.9	25.9	38.6	31.0	4.5	100.0	1,304
South South	13.7	91.6	38.2	15.0	38.8	8.0	100.0	1,160
South West	14.8	92.8	52.7	19.5	14.0	13.8	100.0	1,685
State North Central								
FCT-Abuja	6.5	90.7	48.3	31.0	15.8	4.9	100.0	87
Benue	21.3	82.8	49.1	31.6	13.6	5.7	100.0	370
Kogi	9.3	92.1	72.3	15.1	8.3	4.3	100.0	167
Kwara	6.1	82.6	68.7	23.3	2.6	5.4	100.0	211
Nasarawa Niger	13.7 4.3	92.9 91.9	81.7 71.9	4.0 3.9	7.5 3.7	6.8 20.4	100.0 100.0	189 535
Plateau	2.5	66.4	62.3	21.5	13.9	2.3	100.0	228
North East								
Adamawa	37.8	78.7	71.7	11.6	15.2	1.5	100.0	326
Bauchi	15.8	50.1	78.4	12.0	3.8	5.7	100.0	590
Borno Gombe	9.7 19.9	77.6 61.0	69.6 63.8	4.7 7.1	3.2 27.1	22.5 2.1	100.0 100.0	418 277
Taraba	2.4	83.3	70.1	8.7	4.3	16.9	100.0	299
Yobe	11.1	90.6	74.8	7.9	5.7	11.5	100.0	441
North West								
Jigawa	37.2	73.5	79.2	11.5	6.9	2.5	100.0	552
Kaduna Kano	4.3 7.9	90.1 40.7	74.9 77.1	3.6 7.7	4.7 12.2	16.8 3.0	100.0 100.0	885 1,001
Katsina	17.0	58.7	83.5	5.7	2.8	7.9	100.0	876
Kebbi	5.1	41.0	94.6	0.8	2.0	2.6	100.0	451
Sokoto	0.4	68.4	86.9	2.3	3.3	7.5	100.0	362
Zamfara	4.0	60.5	96.8	0.9	0.9	1.4	100.0	521
South East Abia	6.9	97.4	41.0	28.2	5.8	25.0	100.0	156
Anambra	9.1	93.3	9.1	37.5	52.4	1.0	100.0	430
Ebonyi	9.0	76.9	36.7	44.6	17.2	1.5	100.0	298
Enugu	2.0	98.0	53.3	15.5	27.5	3.8	100.0	183
Imo	2.2	94.6	11.7	58.1	28.7	1.5	100.0	237
South South Akwa Ibom	14.2	88.7	42.8	9.8	41.9	5.4	100.0	216
Bayelsa	64.3	98.5	37.0	10.7	46.6	5.7	100.0	87
Cross River	12.7	98.5	44.2	3.2	30.5	22.1	100.0	117
Delta	6.1	89.1	43.6	16.7	28.0	11.7	100.0	239
Edo Rivers	7.6 8.9	88.4 92.5	57.6 21.7	15.6 21.9	21.2 52.6	5.6 3.9	100.0 100.0	150 350
South West						- -		
Ekiti	9.6	97.6	48.5	19.0	28.5	3.9	100.0	128
Lagos	6.3	94.1	37.1	30.6	22.5	9.8	100.0	599
Ogun Ondo	1.8 9.1	87.5 82.5	75.6 58.5	9.0 24.0	6.9 11.0	8.4 6.6	100.0 100.0	220 157
Osun	6.8	96.6	48.9	32.0	16.0	3.1	100.0	198
Oyo	43.8	94.4	65.0	0.0	0.3	34.8	100.0	383

	Percentage			Timing of	f first bath			
Background characteristic	with skin-to- skin contact immediately after birth	Child wiped dry within a few minutes after birth	Bathed less than 6 hours after birth	Bathed 6-23 hours after birth	Bathed 24 or more hours after birth	Don't know	Total	Number of births
Mother's education								
No education	8.9	63.5	81.1	5.1	4.8	9.0	100.0	5,786
Primary	11.2	80.0	63.9	16.2	12.5	7.4	100.0	1,877
Secondary	14.5	89.0	50.1	19.8	22.0	8.2	100.0	4,186
More than secondary	19.9	92.9	37.4	29.9	23.6	9.1	100.0	1,086
Wealth quintile								
Lowest	8.7	58.9	81.5	5.7	5.0	7.8	100.0	2,775
Second	9.8	67.4	75.1	9.1	7.8	8.1	100.0	2,955
Middle	11.8	81.7	64.9	13.7	12.4	8.9	100.0	2,666
Fourth	14.8	88.9	52.9	19.0	19.5	8.7	100.0	2,416
Highest	16.2	92.4	42.6	23.5	24.4	9.5	100.0	2,123
Total	12.0	76.6	64.9	13.5	13.1	8.5	100.0	12,935

Table 9.14 Cord care

Among most recent live births in the 2 years preceding the survey, percentage with different substances applied to the stump of the umbilical cord, and percentage with nothing harmful applied to the umbilical cord, according to background characteristics, Nigeria DHS 2018

		Sub	stances applied to the	ne cord:		
Background characteristic	Nothing	Chlorhexidine	Other antiseptic ¹	Other substance ²	Percentage with nothing harmful applied to the cord ³	Number of births
Mother's age at birth						
<20	48.5	7.5	17.9	13.3	72.2	2,604
20-34 35-49	35.4 37.3	11.9 11.0	35.3 35.3	11.3 11.6	78.7 79.8	8,906 1,426
Birth order	00		33.3	0	. 0.0	.,0
1	29.3	12.6	39.3	11.9	77.3	2,470
2-3	32.8	11.4	37.8	11.1	77.8	4,396
4-5	39.4	11.0	31.0	12.5	77.9	2,977
6+	52.2	8.7	17.9	11.8	77.0	3,091
Place of delivery	45.4	40.4	FC 0	40.0	04.0	F 000
Health facility Elsewhere	15.1 54.2	19.1 5.3	56.3 15.0	10.2 12.8	84.0 73.1	5,260 7,675
Residence	J	0.0		.2.0		.,0.0
Urban	23.4	15.5	51.0	9.2	84.0	4,979
Rural	47.6	8.0	19.7	13.3	73.5	7,956
Zone						
North Central	21.0	6.8	39.6	17.7	65.3	1,787
North East	53.4	14.2	6.1	11.8	72.8	2,350
North West	64.1	8.1	7.3	9.8	78.6	4,649
South East	9.9	11.3	60.7	20.2	77.5	1,304
South South South West	9.9 5.6	6.7 21.2	67.6 79.9	12.9 3.4	79.8 92.5	1,160 1,685
	3.0	21.2	13.5	0.4	92.5	1,005
State North Central						
FCT-Abuja	16.5	3.6	48.9	12.3	67.3	87
Benue	6.9	7.9	46.4	25.9	60.4	370
Kogi	14.3	15.5	59.7	5.7	74.5	167
Kwara	6.6	2.3	61.1	26.6	69.3	211
Nasarawa	17.0	6.5	50.4	8.9	73.3	189
Niger Plateau	42.7 16.6	7.1 3.9	15.0 38.7	12.2 27.0	64.0 58.6	535 228
	10.0	0.9	30.7	21.0	30.0	220
North East Adamawa	21.0	6.5	22.6	25.9	49.5	326
Bauchi	38.6	22.3	4.3	18.2	62.6	590
Borno	73.3	15.6	5.2	3.2	93.6	418
Gombe	68.6	18.3	2.4	4.3	89.2	277
Taraba	36.2	6.9	5.0	13.1	48.0	299
Yobe	80.5	9.9	0.0	4.7	90.4	441
North West	20.0	7.0	40.4	04.0	47.5	550
Jigawa Kaduna	30.9	7.0	10.1	24.0	47.5	552
Kaduna Kano	41.7 69.7	12.3 9.2	11.2 6.0	14.1 7.8	64.8 84.8	885 1,001
Katsina	84.5	10.1	2.3	1.6	95.0	876
Kebbi	84.3	6.2	0.7	4.6	91.2	451
Sokoto	52.2	3.4	23.1	19.1	75.8	362
Zamfara	82.9	1.0	3.1	3.5	86.4	521
South East						
Abia	12.0	16.1	59.1	14.4	86.8	156
Anambra	4.3	1.2	83.2	5.8	88.4	430
Ebonyi	5.3	26.6 3.7	28.7	43.0 8.1	47.6	298
Enugu Imo	29.3 9.5	12.8	55.6 64.9	30.7	87.6 81.2	183 237
South South		-	-			-
Akwa Ibom	11.6	9.0	51.7	16.7	69.6	216
Bayelsa	1.5	14.3	74.5	13.4	76.4	87
Cross River	24.7	12.2	44.9	18.0	77.1	117
Delta	4.6	2.8	79.5	7.4	85.5	239
Edo Rivers	8.1 10.5	2.4 6.0	71.4 73.4	19.0 9.7	80.0 84.0	150 350
	10.0	0.0	73.4	5.1	U 4 .U	330
South West Ekiti	2.9	28.6	73.9	3.0	93.8	128
Lagos	3.4	13.9	78.3	6.1	89.5	599
Ogun	2.5	38.7	86.0	0.6	95.5	220
Ondo	8.7	1.8	75.5	3.5	85.6	157
Osun	19.5	11.1	64.7	0.3	91.5	198
Oyo	3.5	33.1	90.5	2.5	98.6	383

Table	9.14—Continued
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	Substances applied to the cord:								
Background characteristic	Nothing	Chlorhexidine	Other antiseptic ¹	Other substance ²	Percentage with nothing harmful applied to the cord ³	Number of births			
Mother's education									
No education	61.2	6.0	8.4	11.8	74.5	5,786			
Primary	29.4	12.0	36.6	13.8	74.1	1,877			
Secondary	17.3	14.0	53.4	11.8	79.8	4,186			
More than secondary	12.5	23.1	64.6	7.4	90.8	1,086			
Wealth quintile									
Lowest	59.8	5.2	7.5	16.3	71.6	2,775			
Second	51.2	7.2	14.1	13.6	71.0	2,955			
Middle	36.1	11.2	31.4	11.8	75.5	2,666			
Fourth	22.5	14.0	51.4	8.7	83.3	2,416			
Highest	12.8	19.6	66.3	6.6	90.2	2,123			
Total	38.3	10.9	31.8	11.7	77.5	12,935			

Note: Mothers can report more than one substance applied to the stump of the umbilical cord.

¹ Includes alcohol, spirit, or gentian violet

² Includes olive oil, ash, animal dung, turmeric, toothpaste, or other substances

³ Either nothing applied to the cord or nothing other than chlorhexidine or another antiseptic applied

Table 9.15 Use of chlorhexidine

Among most recent live births in the 2 years preceding the survey, percentage with chlorhexidine applied to the stump of the umbilical cord, and percentage with chlorhexidine applied to the stump of the umbilical cord within 24 hours after birth, according to background characteristics, Nigeria DHS 2018

Background characteristic	Percentage with chlorhexidine applied to the cord	Percentage with chlorhexidine applied within 24 hours after birth	Number of births
Mother's age at hirth			
Mother's age at birth <20 20-34 35-49	7.5 11.9 11.0	5.9 9.6 9.6	2,604 8,906 1,426
Birth order			
1	12.6	9.8	2,470
2-3 4-5	11.4 11.0	9.1 9.0	4,396 2,977
6+	8.7	7.7	3,091
Place of delivery Health facility Elsewhere	19.1 5.3	15.4 4.4	5,260 7,675
Residence			
Urban Rural	15.5 8.0	12.4 6.7	4,979 7,956
	6.0	0.7	7,950
Zone North Central	6.8	5.3	1,787
North East	14.2	11.9	2,350
North West	8.1	6.9	4,649
South East South South	11.3 6.7	7.1 3.6	1,304 1,160
South West	21.2	19.1	1,685
State			,
North Central			
FCT-Abuja	3.6	2.7	87
Benue Kogi	7.9 15.5	4.0 15.1	370 167
Kwara	2.3	1.2	211
Nasarawa	6.5	6.1	189
Niger Plateau	7.1 3.9	5.6 3.1	535 228
	3.9	3.1	220
North East Adamawa	6.5	5.9	326
Bauchi	22.3	20.7	590
Borno	15.6	13.9	418
Gombe Taraba	18.3 6.9	8.6 5.0	277 299
Yobe	9.9	9.5	441
North West			
Jigawa	7.0	7.0	552
Kaduna	12.3	8.6	885
Kano Katsina	9.2 10.1	8.7 8.9	1,001 876
Kebbi	6.2	6.2	451
Sokoto	3.4	2.5	362
Zamfara	1.0	0.4	521
South East	16.4	44.5	150
Abia Anambra	16.1 1.2	11.5 0.9	156 430
Ebonyi	26.6	15.6	298
Enugu	3.7	3.1	183
Imo	12.8	7.8	237
South South	0.0	F 0	216
Akwa Ibom Bayelsa	9.0 14.3	5.8 5.6	216 87
Cross River	12.2	8.4	117
Delta Edo	2.8	1.5	239
Edo Rivers	2.4 6.0	0.9 2.9	150 350
South West	0.0		
Ekiti	28.6	27.2	128
Lagos	13.9	10.7	599
Ogun	38.7	34.7	220
Ondo Osun	1.8 11.1	1.6 11.1	157 198
Oyo	33.1	31.6	383

Table 9.15—Continued			
Background characteristic	Percentage with chlorhexidine applied to the cord	Percentage with chlorhexidine applied within 24 hours after birth	Number of births
Mother's education			
No education	6.0	5.2	5,786
Primary	12.0	9.9	1,877
Secondary	14.0	11.2	4,186
More than secondary	23.1	17.9	1,086
Wealth quintile			
Lowest	5.2	4.1	2,775
Second	7.2	6.4	2,955
Middle	11.2	9.2	2,666
Fourth	14.0	11.5	2,416
Highest	19.6	15.3	2,123
Total	10.9	8.9	12,935

Table 9.16 Timing of first postnatal check for the mother

Among women age 15-49 giving birth in the 2 years preceding the survey, percent distribution of the mother's first postnatal check for the most recent live birth by time after delivery, and percentage of women with a live birth during the 2 years preceding the survey who received a postnatal check in the first 2 days after giving birth, according to background characteristics, Nigeria DHS 2018

									Percent- age of women with a	
Background characteristic	Less than 4 hours	ime after deliv	rery of mo 1-2 days	other's first po 3-6 days	stnatal check 7-41 days	Don't know/ missing	No postnatal check ²	Total	postnatal check during the first 2 days after birth ¹	Number of women
Age at birth <20 20-34 35-49	27.3 37.4 37.2	2.9 3.9 3.7	2.2 2.0 1.8	1.0 0.6 0.4	1.6 0.7 0.5	0.7 0.7 0.7	64.3 54.6 55.7	100.0 100.0 100.0	32.4 43.4 42.6	1,662 9,207 2,066
Birth order	31.2	5.7	1.0	0.4	0.5	0.7	55.7	100.0	42.0	2,000
1 2-3 4-5 6+	45.1 40.2 34.4 24.6	4.6 3.9 4.0 2.7	2.7 1.9 2.1 1.5	0.8 0.9 0.5 0.4	1.1 0.5 0.9 0.7	1.0 1.1 0.4 0.2	44.8 51.5 57.8 69.8	100.0 100.0 100.0 100.0	52.4 46.0 40.5 28.8	2,470 4,396 2,977 3,091
Place of delivery Health facility Elsewhere	71.3 12.0	7.2 1.4	2.3 1.8	0.2 0.9	0.2 1.1	1.4 0.3	17.3 82.5	100.0 100.0	80.8 15.2	5,248 7,687
Residence Urban Rural	53.5 25.2	5.5 2.6	2.4 1.8	0.7 0.6	0.7 0.8	1.4 0.3	35.8 68.7	100.0 100.0	61.4 29.6	4,979 7,956
Zone North Central North East North West South East South South South West	38.1 29.0 17.7 57.1 41.7 74.3	4.3 2.6 1.7 11.7 7.7 1.5	2.0 2.1 1.6 2.8 3.2 1.6	0.6 0.7 0.7 0.4 0.4 0.7	0.2 0.7 1.4 0.1 0.6 0.2	0.2 0.1 0.0 1.4 2.3 2.4	54.5 64.8 76.8 26.4 44.1 19.3	100.0 100.0 100.0 100.0 100.0 100.0	44.5 33.7 21.1 71.6 52.6 77.3	1,787 2,350 4,649 1,304 1,160 1,685
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	46.4 42.5 63.6 53.4 39.4 20.1 36.3	10.1 7.7 8.6 2.5 2.3 1.9 2.4	4.4 1.2 1.4 2.4 1.3 1.6 4.2	1.7 0.7 0.4 1.4 0.4 0.4	1.0 0.0 0.4 1.1 0.0 0.0	3.8 0.0 0.0 0.0 0.0 0.0 0.0	32.7 47.9 25.7 39.2 56.6 76.0 56.8	100.0 100.0 100.0 100.0 100.0 100.0 100.0	60.9 51.4 73.5 58.3 43.0 23.6 42.9	87 370 167 211 189 535 228
North East Adamawa Bauchi Borno Gombe Taraba Yobe	50.2 33.7 25.4 29.0 20.5 16.1	0.6 4.2 4.1 0.8 4.6 0.5	0.5 4.0 1.7 3.3 0.0 1.7	0.0 0.4 0.5 1.8 0.0 1.9	0.0 1.1 0.8 1.9 0.0 0.5	0.0 0.0 0.0 0.1 0.3 0.0	48.6 56.6 67.6 63.1 74.6 79.3	100.0 100.0 100.0 100.0 100.0 100.0	51.4 42.0 31.2 33.0 25.1 18.3	326 590 418 277 299 441
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	17.9 21.7 20.5 12.3 16.7 25.4 10.1	3.1 0.7 0.9 3.5 0.4 4.5	2.4 1.4 1.8 0.7 0.6 1.6 3.3	2.2 0.5 0.4 0.2 0.2 0.2	4.2 2.2 1.3 0.4 0.7 0.5 0.2	0.0 0.0 0.0 0.2 0.0 0.0	70.2 73.5 75.1 82.7 81.5 67.8 84.9	100.0 100.0 100.0 100.0 100.0 100.0 100.0	23.4 23.8 23.2 16.5 17.6 31.5	552 885 1,001 876 451 362 521
South East Abia Anambra Ebonyi Enugu Imo	49.8 67.2 31.2 66.2 69.0	4.7 11.4 14.4 13.0 12.4	2.6 3.4 4.6 1.3 0.8	0.0 0.0 1.6 0.5 0.0	0.0 0.0 0.3 0.5 0.0	1.1 2.8 0.3 1.0 0.8	41.7 15.1 47.6 17.6 17.1	100.0 100.0 100.0 100.0 100.0	57.1 82.1 50.2 80.5 82.1	156 430 298 183 237
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	55.5 23.1 30.2 30.4 65.0 39.4	1.7 1.2 6.0 27.1 3.6 2.0	4.1 2.2 6.6 2.1 3.6 2.4	0.5 0.0 0.0 1.1 0.4 0.2	1.0 0.0 1.3 0.0 0.0 0.8	0.0 0.0 0.0 2.3 6.5 3.3	37.3 73.5 55.8 37.0 20.9 51.9	100.0 100.0 100.0 100.0 100.0 100.0	61.3 26.5 42.9 59.6 72.2 43.8	216 87 117 239 150 350

Table 9.16—Continued										
Background characteristic	1	Γime after deliv	ery of mo	ther's first po	ostnatal check				Percentage of women with a postnatal	
	Less than 4 hours	4-23 hours	1-2 days	3-6 days	7-41 days	Don't know/ missing	No postnatal check²	Total		Number of women
South West										
Ekiti	77.4	0.2	3.9	0.0	0.5	0.4	17.5	100.0	81.6	128
Lagos	68.3	2.8	1.6	1.1	0.3	6.4	19.5	100.0	72.8	599
Ogun	75.0	1.8	0.9	0.0	0.0	0.3	22.0	100.0	77.7	220
Ondo	74.0	0.0	1.0	1.2	0.6	0.9	22.4	100.0	75.0	157
Osun	78.2	1.8	2.4	0.0	0.0	0.0	17.6	100.0	82.4	198
Oyo	80.2	0.0	0.9	1.0	0.0	0.0	17.9	100.0	81.2	383
Education										
No education	16.4	1.7	1.4	0.5	0.9	0.1	79.0	100.0	19.4	5,786
Primary	38.5	3.6	2.3	0.8	1.2	0.5	53.1	100.0	44.3	1,877
Secondary	53.6	5.4	2.8	0.6	0.5	1.2	35.8	100.0	61.8	4,186
More than secondary	69.3	8.9	1.9	0.9	0.4	2.1	16.5	100.0	80.1	1,086
Wealth quintile										
Lowest	15.3	1.2	1.5	0.7	0.8	0.2	80.3	100.0	18.1	2,775
Second	20.8	2.4	1.4	0.3	0.9	0.3	74.0	100.0	24.6	2,955
Middle	35.8	3.9	2.2	0.7	1.2	0.3	55.8	100.0	41.9	2,666
Fourth	53.3	5.7	2.4	0.6	0.6	8.0	36.6	100.0	61.4	2,416
Highest	65.1	6.6	2.7	0.9	0.2	2.6	21.8	100.0	74.5	2,123

¹ Includes women who received a check from a doctor, midwife, nurse, community health extension worker, or traditional birth attendant ² Includes women who received a check after 41 days

0.6

8.0

0.7

56.0

100.0

41.8

2.0

Total

36.1

3.8

12,935

Table 9.17 Type of provider of first postnatal check for the mother

Among women age 15-49 giving birth in the 2 years preceding the survey, percent distribution by type of provider of the mother's first postnatal health check during the 2 days after the most recent live birth, according to background characteristics, Nigeria DHS 2018

	Type o	f health provid		s first postnata	l check	No postnatal		
Background characteristic	Doctor/ nurse/ midwife	Auxiliary nurse/ midwife	Community health extension worker	Other health worker	Traditional birth attendant	check during the first 2 days after birth	Total	Number of women
Age at birth								
<20	25.3	0.8	0.1	1.8	4.3	67.6	100.0	1,662
20-34 35-49	36.5 34.2	1.3 1.8	0.2 0.1	1.8 1.6	3.6 4.8	56.6 57.4	100.0 100.0	9,207 2,066
	·=		.			0		_,000
Birth order	45.7	1.5	0.1	1.8	3.3	47.6	100.0	2,470
2-3	39.5	1.3	0.1	1.6	3.5	54.0	100.0	4,396
4-5	32.9	1.4	0.2	2.0	4.1	59.5	100.0	2,977
6+	21.0	1.2	0.3	1.7	4.7	71.2	100.0	3,091
Place of delivery Health facility Elsewhere	77.4 5.6	1.1 1.5	0.0 0.3	2.2 1.5	0.1 6.4	19.2 84.8	100.0 100.0	5,248 7,687
Residence								
Urban	55.2	2.1	0.1	1.4	2.5	38.6	100.0	4,979
Rural	21.9	8.0	0.2	2.0	4.7	70.4	100.0	7,956
Zone								
North Central	40.9	0.4	0.3	1.8	1.1	55.5	100.0	1,787
North East North West	22.7 15.6	1.3 0.4	0.2 0.2	2.8 1.9	6.7 3.0	66.3 78.9	100.0 100.0	2,350 4.649
South East	64.9	3.3	0.1	2.4	0.9	28.4	100.0	1,304
South South	40.4	2.2	0.0	0.6	9.3	47.4	100.0	1,160
South West	70.3	2.8	0.0	0.5	3.7	22.7	100.0	1,685
State								
North Central	E0 E	0.2	0.0	0.2	1.0	20.1	100.0	0.7
FCT-Abuja Benue	59.5 49.3	0.2 0.0	0.0 0.0	0.2 0.6	1.0 1.6	39.1 48.6	100.0 100.0	87 370
Kogi	65.4	1.0	0.0	4.0	3.2	26.5	100.0	167
Kwara	55.2	1.6	0.0	0.6	1.0	41.7	100.0	211
Nasarawa	40.7	0.3	0.0	2.0	0.0	57.0	100.0	189
Niger Plateau	20.2 37.7	0.0 0.8	0.0 2.1	2.8 1.3	0.6 1.0	76.4 57.1	100.0 100.0	535 228
	01.1	0.0	2.1	1.0	1.0	07.1	100.0	220
North East Adamawa	47.4	0.7	0.5	0.7	2.0	48.6	100.0	326
Bauchi	20.8	0.1	0.6	2.7	17.7	58.0	100.0	590
Borno	25.0	0.1	0.0	2.6	3.4	68.8	100.0	418
Gombe	11.1 18.4	7.6	0.1	6.1	8.0	67.0	100.0	277 299
Taraba Yobe	14.9	0.5 0.9	0.0 0.0	6.2 0.0	0.0 2.5	74.9 81.7	100.0 100.0	441
North West								
Jigawa	23.2	0.0	0.0	0.0	0.2	76.6	100.0	552
Kaduna	18.3	1.7	0.4	0.8	2.4	76.2	100.0	885
Kano	18.9	0.2	0.1	2.1	2.0	76.8	100.0	1,001
Katsina Kebbi	16.2 3.5	0.0 0.0	0.0 0.6	0.2 6.7	0.0 6.8	83.5 82.4	100.0 100.0	876 451
Sokoto	9.1	0.0	0.7	3.7	18.0	68.5	100.0	362
Zamfara	10.5	0.0	0.0	2.5	0.5	86.6	100.0	521
South East								
Abia	57.1	0.0	0.0	0.0	0.0	42.9	100.0	156
Anambra Ebonyi	77.9 30.8	2.2 8.8	0.0 0.2	1.1 8.8	0.9 1.6	17.9 49.8	100.0 100.0	430 298
Enugu	30.8 78.5	8.8 1.1	0.2	0.0	0.8	49.8 19.5	100.0	298 183
Imo	79.0	2.5	0.0	0.0	0.5	17.9	100.0	237
South South								
Akwa Ibom	28.8	1.8	0.0	0.0	30.7	38.7	100.0	216
Bayelsa Crees Diver	16.6	0.5	0.0	0.0	9.4	73.5	100.0	87
Cross River Delta	37.4 51.8	0.6 0.7	0.0 0.0	0.6 1.8	4.3 5.2	57.1 40.4	100.0 100.0	117 239
Edo	64.9	1.2	0.0	1.2	4.9	27.8	100.0	150
Rivers	36.4	5.0	0.0	0.0	2.4	56.2	100.0	350
South West								
Ekiti	74.5	6.6	0.0	0.0	0.4	18.4	100.0	128
Lagos Ogun	64.9 65.7	0.5 4.3	0.0 0.2	0.0 2.3	7.4 5.1	27.2 22.3	100.0 100.0	599 220
Ondo	71.8	2.2	0.2	0.0	1.0	25.0	100.0	157
Osun	79.8	0.0	0.0	0.9	1.7	17.6	100.0	198
Oyo	74.6	5.8	0.0	0.2	0.5	18.8	100.0	383

	Type o	Type of health provider of mother's first postnatal check						
Background characteristic	Doctor/ nurse/ midwife	Auxiliary nurse/ midwife	Community health extension worker	Other health worker	Traditional birth attendant	No postnatal check during the first 2 days after birth	Total	Number of women
Education								
No education	12.2	0.5	0.2	1.9	4.6	80.6	100.0	5,786
Primary	35.3	1.8	0.4	1.8	5.0	55.7	100.0	1,877
Secondary	54.3	2.4	0.1	1.8	3.3	38.2	100.0	4,186
More than secondary	78.2	0.6	0.0	8.0	0.5	19.9	100.0	1,086
Wealth quintile								
Lowest	9.6	0.7	0.2	1.9	5.7	81.9	100.0	2,775
Second	16.9	0.8	0.2	2.5	4.2	75.4	100.0	2,955
Middle	34.7	1.7	0.3	1.7	3.5	58.1	100.0	2,666
Fourth	54.0	2.2	0.1	1.9	3.3	38.6	100.0	2,416
Highest	70.5	1.3	0.0	0.5	2.1	25.5	100.0	2,123
Total	34.7	1.3	0.2	1.8	3.9	58.2	100.0	12,935

Table 9.18 Timing of first postnatal check for the newborn

Percent distribution of most recent live births in the 2 years preceding the survey by time after birth of first postnatal check, and percentage of births with a postnatal check during the first 2 days after birth, according to background characteristics, Nigeria DHS 2018

									Percent- age of	
									births with a postnatal	
	Tir	ne after del	ivery of newb	orn's first p	ostnatal chec	:k¹	_ No		check during the	
Background characteristic	Less than 1 hour	1-3 hours	4-23 hours	1-2 days	3-6 days	Don't know	postnatal check ²	Total	first 2 days after birth ¹	Number of births
Mother's age at birth										
<20	9.0	14.5	2.4	2.6	1.0	0.5	69.9	100.0	28.6	1,662
20-34 35-49	14.2 13.4	19.1 18.0	3.6 3.4	2.8 2.3	1.0 0.6	0.8 1.1	58.5 61.3	100.0 100.0	39.7 37.1	9,207 2,066
Birth order										
1	16.3	24.3	4.1	2.6	1.1	0.9	50.7	100.0	47.3	2,470
2-3 4-5	15.4 13.4	20.5 16.5	3.6	3.0 3.1	1.4 0.7	1.2 0.4	54.8	100.0	42.6	4,396
4-5 6+	8.2	12.1	3.9 2.2	2.1	0.7	0.4	62.0 74.4	100.0 100.0	36.9 24.6	2,977 3,091
Place of delivery										
Health facility	29.4	40.4	7.4	2.6	0.3	1.4	18.6	100.0	79.7	5,248
Elsewhere	2.5	3.2	0.7	2.8	1.4	0.3	88.9	100.0	9.3	7,687
Residence	20.5	27.5	F. 6	2.9	4.4	1.5	40.0	100.0	FC F	4.070
Urban Rural	20.5 9.0	27.5 12.5	5.6 2.1	2.9	1.1 0.9	1.5 0.3	40.8 72.6	100.0 100.0	56.5 26.2	4,979 7,956
Zone										,
North Central	14.4	21.5	4.0	2.4	8.0	0.2	56.7	100.0	42.2	1,787
North East	14.1	11.6	2.5	3.0	0.8	0.1	68.0	100.0	31.1	2,350
North West South East	5.8 10.9	7.5 43.1	1.0 12.4	2.6 2.7	0.8 0.7	0.0 0.8	82.3 29.5	100.0 100.0	16.9 69.0	4,649 1,304
South South	9.9	25.7	5.9	3.1	1.7	2.0	51.8	100.0	44.6	1,160
South West	37.0	29.9	2.2	2.7	1.6	3.5	23.1	100.0	71.7	1,685
State										
North Central FCT-Abuja	21.4	24.5	11.6	3.4	0.0	2.7	36.5	100.0	60.8	87
Benue	9.1	31.3	7.3	2.7	0.2	0.0	49.3	100.0	50.4	370
Kogi	34.5	27.5	6.6	0.4	1.3	0.3	29.4	100.0	69.0	167
Kwara	30.9	18.8	2.4	2.5	1.4	0.0	44.0	100.0	54.6	211
Nasarawa Niger	5.5 5.7	28.8 13.8	1.4 1.8	2.7 1.8	1.5 0.7	0.0 0.0	60.2 76.2	100.0 100.0	38.3 23.1	189 535
Plateau	17.8	14.4	2.5	4.3	0.6	0.5	60.0	100.0	38.9	228
North East										
Adamawa	35.8	11.8	0.9	0.6	0.2	0.0	50.7	100.0	49.1	326
Bauchi Borno	11.3 11.8	14.9 14.4	3.6 3.8	8.3 2.1	2.1 0.2	0.2 0.0	59.7 67.7	100.0 100.0	38.1 32.1	590 418
Gombe	11.3	12.4	0.5	1.1	0.5	0.1	74.0	100.0	25.4	277
Taraba	12.5	7.4	5.0	8.0	0.0	0.3	74.0	100.0	25.6	299
Yobe	6.8	6.6	0.4	1.1	1.0	0.0	84.1	100.0	14.9	441
North West Jigawa	8.0	10.0	1.9	1.6	3.0	0.0	75.5	100.0	21.4	552
Kaduna	9.1	8.3	0.5	3.2	0.5	0.0	78.4	100.0	21.4	885
Kano	10.0	8.7	0.5	1.1	0.8	0.0	78.8	100.0	20.4	1,001
Katsina	1.7	7.9	2.2	0.7	0.2	0.1	87.1	100.0	12.6	876
Kebbi Sokoto	2.8 2.7	2.2 10.3	0.3 1.6	0.5 13.0	0.2 0.0	0.0 0.0	93.9 72.5	100.0 100.0	5.9 27.5	451 362
Zamfara	1.3	3.2	0.3	3.3	0.9	0.0	91.1	100.0	8.0	521
South East										
Abia	2.4	43.4	4.7	3.3	0.0	1.1	45.1	100.0	53.8	156
Anambra Ebonyi	1.5 5.4	63.4 23.7	11.9 14.1	3.8 2.8	0.6 2.0	1.0 0.3	17.8 51.7	100.0 100.0	80.5 45.9	430 298
Enugu	11.8	51.2	13.2	1.1	0.0	0.7	22.0	100.0	77.3	183
Imo	39.8	24.2	15.4	1.4	0.2	8.0	18.2	100.0	80.8	237
South South										
Akwa Ibom Bayelsa	10.6 0.6	30.5 22.6	3.6 0.6	3.4 3.7	2.1 0.2	0.8 0.9	48.9 71.5	100.0 100.0	48.2 27.4	216 87
Cross River	12.6	16.1	1.5	3.7 9.1	1.5	1.3	71.5 57.9	100.0	39.3	67 117
Delta	1.9	27.8	21.2	1.7	0.0	1.9	45.5	100.0	52.6	239
Edo	20.6	42.8	3.1	3.6	0.4	4.3	25.3	100.0	70.0	150
Rivers	11.6	18.0	0.9	1.4	3.5	2.3	62.2	100.0	32.0	350

Table 9.18—Continue	d
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Background	Less than		very of newb	<u>.</u>		Don't	– No postnatal			Number of
characteristic	1 hour	1-3 hours	4-23 hours	1-2 days	3-6 days	know	check ²	Total	after birth1	births
South West										
Ekiti	11.3	46.7	4.8	9.3	4.6	0.4	22.8	100.0	72.2	128
Lagos	50.8	11.3	2.2	2.6	0.9	9.3	22.9	100.0	66.8	599
Ogun	37.2	31.2	1.1	1.2	0.0	0.3	28.9	100.0	70.7	220
Ondo	51.4	18.4	0.0	2.1	1.4	0.6	26.2	100.0	71.9	157
Osun	34.9	36.8	7.8	2.5	2.7	0.9	14.5	100.0	82.0	198
Oyo	18.9	53.6	0.0	2.0	2.1	0.0	23.3	100.0	74.6	383
Mother's education										
No education	5.1	7.6	1.4	2.3	0.7	0.2	82.7	100.0	16.4	5,786
Primary	15.2	18.1	2.5	2.7	1.1	0.7	59.9	100.0	38.4	1,877
Secondary	19.7	28.8	5.1	3.4	1.3	1.3	40.3	100.0	57.1	4,186
More than secondary	30.4	35.3	9.5	2.1	1.0	2.2	19.5	100.0	77.3	1,086
Wealth quintile										
Lowest	4.5	6.8	1.2	2.9	0.9	0.2	83.5	100.0	15.4	2,775
Second	7.3	10.8	1.4	2.2	0.7	0.1	77.5	100.0	21.6	2,955
Middle	12.7	18.3	3.8	2.6	0.9	0.2	61.5	100.0	37.5	2,666
Fourth	19.8	27.5	5.1	3.1	1.0	1.0	42.7	100.0	55.4	2,416
Highest	27.4	33.5	6.8	2.9	1.5	2.9	25.1	100.0	70.5	2,123
Total	13.4	18.3	3.4	2.7	1.0	0.8	60.4	100.0	37.9	12,935

¹ Includes newborns who received a check from a doctor, midwife, nurse, community health worker, or traditional birth attendant ² Includes newborns who received a check after the first week of life

Table 9.19 Type of provider of first postnatal check for the newborn

Percent distribution of most recent live births in the 2 years preceding the survey by type of provider of the newborn's first postnatal health check during the 2 days after the most recent live birth, according to background characteristics, Nigeria DHS 2018

	Туре	of health provide	er of newborn'	s first postnatal o	check	_ No postnatal		
Background characteristic	Doctor/nurse/ midwife	Auxiliary nurse/midwife	Community health extension worker	Other health worker	Traditional birth attendant	check during the first 2 days after birth	Total	Number of births
Mother's age at birth								
<20	23.6	0.7	0.2	1.2	2.9	71.4	100.0	1,662
20-34 35-49	34.9 32.6	0.8 0.7	0.1 0.0	1.2 1.3	2.8 2.4	60.3 62.9	100.0 100.0	9,207 2,066
	02.0	0.7	0.0	1.0	2.4	02.5	100.0	2,000
Birth order	43.1	1.0	0.1	1.1	2.0	52.7	100.0	2,470
2-3	37.9	0.8	0.1	1.2	2.6	57.4	100.0	4,396
4-5	31.8	0.7	0.1	1.4	2.8	63.1	100.0	2,977
6+	19.3	0.6	0.1	1.2	3.4	75.4	100.0	3,091
Place of delivery Health facility	76.2	1.1	0.0	2.1	0.2	20.3	100.0	5,248
Elsewhere	3.7	0.5	0.1	0.6	4.4	90.7	100.0	7,687
Residence								
Urban	52.8	1.2	0.1	1.2	1.2	43.5	100.0	4,979
Rural	20.7	0.5	0.1	1.2	3.6	73.8	100.0	7,956
Zone								
North Central	39.6	0.3	0.0	1.4	0.9	57.8	100.0	1,787
North East North West	21.3 13.6	1.1 0.2	0.2 0.1	2.5 0.9	6.1 2.2	68.9 83.1	100.0 100.0	2,350 4,649
South East	64.1	2.5	0.1	2.0	0.4	31.0	100.0	1,304
South South	38.2	0.5	0.1	0.3	5.7	55.4	100.0	1,160
South West	68.9	1.3	0.0	0.2	1.3	28.3	100.0	1,685
State								
North Central								
FCT-Abuja	59.3	0.0	0.0	0.0	1.5	39.2	100.0	87
Benue Kogi	48.5 66.3	0.3 0.5	0.0 0.0	0.0 1.3	1.7 0.9	49.6 31.0	100.0 100.0	370 167
Kwara	52.8	1.0	0.0	0.3	0.5	45.4	100.0	211
Nasarawa	35.8	0.3	0.0	2.0	0.2	61.7	100.0	189
Niger	19.1	0.0	0.0	3.0	0.9	76.9	100.0	535
Plateau	37.1	0.3	0.4	1.0	0.2	61.1	100.0	228
North East								
Adamawa Bauchi	46.3 18.0	0.4 0.6	0.5 0.2	0.3 1.7	1.5 17.6	50.9 61.9	100.0 100.0	326 590
Borno	25.5	0.0	0.2	2.9	3.6	67.9	100.0	418
Gombe	9.4	7.3	0.1	5.7	2.8	74.6	100.0	277
Taraba	18.9	0.5	0.0	6.2	0.0	74.4	100.0	299
Yobe	12.4	0.0	0.0	0.0	2.5	85.1	100.0	441
North West								
Jigawa	21.3	0.0	0.0	0.0	0.2	78.6	100.0	552
Kaduna Kano	17.7 17.1	0.9 0.0	0.2 0.1	0.1 1.7	2.2 1.5	78.9 79.6	100.0 100.0	885 1,001
Katsina	12.3	0.0	0.0	0.2	0.0	87.4	100.0	876
Kebbi	2.5	0.0	0.0	3.1	0.4	94.1	100.0	451
Sokoto	8.9	0.0	0.7	1.8	16.2	72.5	100.0	362
Zamfara	6.9	0.0	0.0	0.3	8.0	92.0	100.0	521
South East						40.0	400.0	450
Abia Anambra	53.8 79.0	0.0 0.7	0.0 0.2	0.0 0.5	0.0 0.2	46.2 19.5	100.0 100.0	156 430
Anambra Ebonyi	79.0 29.4	0.7 7.5	0.2	0.5 8.1	0.2	19.5 54.1	100.0	430 298
Enugu	75.5	1.3	0.0	0.0	0.5	22.7	100.0	183
Imo	78.6	1.9	0.0	0.0	0.3	19.2	100.0	237
South South								
Akwa Ibom	26.1	1.3	0.0	0.0	20.8	51.8	100.0	216
Bayelsa Crees Biver	17.5	0.5	0.0	0.0	9.5	72.6	100.0	87
Cross River Delta	35.0 51.7	0.0 0.9	0.5 0.0	0.0 0.0	3.8 0.0	60.7 47.4	100.0 100.0	117 239
Edo	66.3	0.0	0.0	1.2	2.5	30.0	100.0	150
Rivers	30.5	0.0	0.0	0.3	1.2	68.0	100.0	350
South West								
Ekiti	68.1	4.1	0.0	0.0	0.0	27.8	100.0	128
Lagos	63.7	0.7	0.0	0.0	2.5	33.2	100.0	599
Ogun	67.0	1.6	0.0	0.7	1.4	29.3	100.0	220
Ondo Osun	69.3 80.7	1.6 0.0	0.0 0.0	0.0 0.9	1.0 0.4	28.1 18.0	100.0 100.0	157 198
Oyo	72.1	1.7	0.0	0.9	0.4	25.4	100.0	383

	Туре	of health provide	_ No postnatal					
Background characteristic	Doctor/nurse/ midwife	Auxiliary nurse/midwife	Community health extension worker	Other health worker	Traditional birth attendant	check during the first 2 days after birth	Total	Number of births
Mother's education								
No education	11.1	0.4	0.1	1.2	3.8	83.6	100.0	5,786
Primary	33.5	1.1	0.2	1.4	2.1	61.6	100.0	1,877
Secondary	52.2	1.3	0.1	1.3	2.2	42.9	100.0	4,186
More than secondary	76.1	0.2	0.0	0.7	0.2	22.7	100.0	1,086
Wealth quintile								
Lowest	9.0	0.5	0.1	1.1	4.8	84.6	100.0	2,775
Second	15.8	0.6	0.1	1.8	3.3	78.4	100.0	2,955
Middle	33.1	0.9	0.2	1.2	2.1	62.5	100.0	2,666
Fourth	50.9	1.2	0.1	1.3	2.0	44.6	100.0	2,416
Highest	68.5	0.6	0.0	0.5	0.9	29.5	100.0	2,123
Total	33.1	0.8	0.1	1.2	2.7	62.1	100.0	12,935

Table 9.20 Content of postnatal care for newborns

Among most recent live births in the 2 years preceding the survey, percentage for whom selected functions were performed during the first 2 days after birth and percentage with at least two signal functions performed during the first 2 days after birth, according to background characteristics, Nigeria DHS 2018

		recent live births					Percentage with at least two signal functions		
Background characteristic	Cord examined	Temperature measured	Counselling on danger signs	Counselling on breast- feeding	Observation of breast-feeding	Weighed ¹	performed during the first 2 days after birth	Number of births	
Mother's age at birth									
<20 20-34	13.2 22.1	12.0 21.4	11.8 19.8	14.2 21.9	11.5 18.5	12.3 27.4	16.0 25.6	1,662 9,207	
35-49	22.7	22.5	20.6	21.9	18.0	26.5	26.2	2,066	
Birth order									
1	28.4	26.9	26.8	30.8	26.1	33.7	34.2	2,470	
2-3	25.4	25.0	22.9	25.4	21.3	31.3	29.3	4,396	
4-5 6+	19.3 10.7	19.0 9.8	17.2 8.4	17.7 9.2	15.2 7.3	23.3 12.1	22.0 12.2	2,977 3,091	
Place of delivery								2,021	
Health facility	39.5	41.0	37.1	40.5	34.6	55.9	47.9	5,248	
Elsewhere	8.5	6.3	6.5	7.3	5.8	4.4	8.5	7,687	
Residence									
Urban	34.7	35.2	32.5	35.3	30.6	44.7	41.7	4,979	
Rural	12.5	11.1	10.4	11.7	9.3	13.2	13.7	7,956	
Zone North Central	15.3	14.5	13.2	15.0	12.2	28.2	17.5	1,787	
North East	10.2	9.6	8.2	10.2	6.3	10.0	12.2	2,350	
North West	5.1	4.9	4.1	4.2	2.6	7.0	5.4	4,649	
South East	51.8	53.8	39.9	42.4	40.9	58.5	58.2	1,304	
South South	37.7	31.3	32.3	39.4	33.2	41.5	44.5	1,160	
South West	51.3	51.0	55.0	57.8	50.7	57.4	61.8	1,685	
State									
North Central	25.5	24.2	24.4	21.9	19.7	41.6	28.3	87	
FCT-Abuja Benue	25.5 12.5	24.2 10.7	24.4 11.6	13.0	13.3	42.3	26.3 13.5	370	
Kogi	13.3	14.4	6.5	7.6	4.8	46.1	16.4	167	
Kwara	39.2	42.6	41.4	46.3	29.2	39.2	47.5	211	
Nasarawa	15.4	16.5	14.0	16.3	16.6	26.6	18.9	189	
Niger Plateau	8.1 11.5	6.0 9.1	5.3 8.6	7.4 9.1	6.7 6.0	13.6 12.2	9.1 11.7	535 228	
	11.5	9.1	0.0	9.1	6.0	12.2	11.7	220	
North East Adamawa	20.2	18.9	21.8	21.2	2.3	27.6	23.3	326	
Bauchi	20.2 12.4	11.3	21.6 8.4	10.9	2.3 8.1	6.3	23.3 14.3	590	
Borno	2.0	2.0	0.8	5.1	6.5	14.3	5.1	418	
Gombe	15.7	15.6	13.6	13.0	9.7	5.1	16.5	277	
Taraba	4.0	4.8	3.2	5.0	2.7	7.9	6.9	299	
Yobe	8.6	7.0	4.7	7.6	7.1	2.5	8.8	441	
North West	0.4	0.0	7.4	0.0	5 4	0.0	0.0	550	
Jigawa Kaduna	9.1 8.8	8.9 8.1	7.4 6.6	6.0 7.6	5.4 3.4	3.9 11.4	9.6 9.2	552 885	
Kano	6.6 4.1	3.8	3.7	3.1	2.2	9.7	9.2 4.6	1,001	
Katsina	3.5	3.7	2.9	3.6	3.2	6.4	4.0	876	
Kebbi	1.0	0.5	1.0	3.9	0.5	3.1	1.4	451	
Sokoto	6.4	7.3	4.3	2.5	2.3	4.9	6.0	362	
Zamfara	1.4	1.4	2.0	1.2	0.4	3.3	1.4	521	
South East	42.0	44.7	44.6	4E G	45.0	62.0	40.4	156	
Abia Anambra	43.8 73.7	80.2	44.6 50.5	45.6 50.4	45.8 51.3	62.9 78.4	48.1 79.7	156 430	
Ebonyi	25.3	24.1	29.2	35.7	22.5	24.3	35.0	298	
Enugu	38.9	42.8	40.5	39.6	39.6	57.2	41.5	183	
Imo	60.4	57.7	30.6	36.4	43.1	63.5	68.0	237	
South South									
Akwa Ibom	44.6	20.0	35.6	45.2	33.6	35.5	47.6	216	
Bayelsa Cross River	22.7 25.7	27.3 17.2	28.1 17.0	30.0 22.0	29.5 19.1	23.9 47.8	30.4 28.6	87 117	
Delta	36.0	43.5	41.8	42.7	41.3	47.6	26.6 44.0	239	
Edo	48.8	52.5	42.0	51.4	32.0	60.4	61.5	150	
Rivers	37.5	26.8	25.9	36.5	33.6	38.5	44.5	350	

	20—C	

		tage for whom birth:	Percentage with at least two signal functions					
Background characteristic	Cord examined	Temperature measured	Counselling on danger signs	Counselling on breast- feeding	Observation of breast-feeding	Weighed ¹	performed during the first 2 days after birth	Number of births
South West								
Ekiti	52.3	52.2	53.5	64.7	57.3	43.7	64.5	128
Lagos	71.2	70.3	67.4	67.4	60.3	64.6	76.8	599
Ogun	47.3	46.9	49.1	49.1	49.8	66.5	52.1	220
Ondo	41.1	42.7	48.0	47.1	27.9	37.1	48.6	157
Osun	17.3	15.3	42.4	56.8	38.1	42.1	56.8	198
Oyo	43.9	44.6	49.1	50.2	49.6	61.5	51.0	383
Mother's education								
No education	5.4	5.1	4.6	4.9	3.7	4.7	5.8	5,786
Primary	21.6	20.5	18.4	20.1	16.6	21.5	24.3	1,877
Secondary	34.6	33.6	31.4	34.8	29.5	42.0	41.3	4,186
More than secondary	51.5	50.6	47.6	52.2	46.3	77.3	59.4	1,086
Wealth quintile								
Lowest	4.9	4.6	4.2	4.7	3.3	3.6	5.4	2,775
Second	8.9	8.1	7.4	8.5	6.1	8.5	10.2	2,955
Middle	18.2	16.8	16.0	17.8	13.8	19.7	21.0	2,666
Fourth	32.4	31.6	29.5	32.2	28.5	37.9	38.1	2,416
Highest	49.8	49.7	45.6	49.6	44.0	69.9	58.1	2,123
Total	21.1	20.4	18.9	20.8	17.5	25.3	24.5	12,935

¹ Captures newborns who were weighed "at birth." May exclude some newborns who were weighed during the 2 days after birth.

Table 9.21 Problems in accessing health care

Percentage of women age 15-49 who reported that they have serious problems in accessing health care for themselves when they are sick, by type of problem, according to background characteristics, Nigeria DHS 2018

			Problems in acco	essing health care		
	Getting				At least one problem	
Background characteristic	permission to go for treatment	Getting money for treatment	Distance to health facility	Not wanting to go alone	accessing health care	Number of women
Age						
15-19	13.8	44.1	25.5	22.2	52.4	8,448
20-34	10.7	45.5 47.5	25.3	14.9	50.6	20,268
35-49	10.9	47.5	26.5	14.0	52.4	13,105
Number of living children	44.5	44.5	04.0	40.5	40.0	40.074
0 1-2	11.5 11.3	41.5 45.4	21.8 26.2	18.5 15.6	48.6 50.4	12,271 10,731
1-2 3-4	10.8	46.6	26.9	14.5	51.6	9,363
5+	12.0	51.1	29.1	15.1	56.5	9,457
Marital status						
Never married	11.6	41.6	21.0	18.3	48.7	10,550
Married or living together	11.5	46.4	27.3	15.4	51.8	29,090
Divorced/separated/widowed	8.7	58.5	26.8	14.7	61.4	2,181
Employed last 12 months						
Not employed	12.9	44.9	25.1	18.4	51.1	13,214
Employed for cash	10.1	43.8	23.1	13.4	48.7	23,139
Employed not for cash	13.4	56.6	38.4	21.8	64.6	5,468
Residence						
Urban	8.3	37.2	16.8	10.9	42.1	19,163
Rural	14.0	53.1	33.2	20.5	59.5	22,658
Zone						
North Central North East	13.0	52.7	36.3	18.7	58.7	5,891
North East North West	11.8 9.2	60.1 39.9	34.0 19.6	24.7 11.6	68.6 44.6	6,636 12,225
South East	6.1	51.3	25.7	14.1	55.9	4,963
South South	14.8	48.7	24.5	16.6	54.1	4,840
South West	14.7	31.5	20.7	14.6	37.0	7,266
State						
North Central						
FCT-Abuja	7.7	47.6	20.2	9.4	52.6	319
Benue	9.0	77.5	49.4	17.8	80.2	1,354
Kogi Kwara	9.8 6.1	64.7 32.1	40.4 21.3	14.0 9.2	72.6 38.1	654 684
Nasarawa	4.9	10.3	6.5	7.3	13.8	648
Niger	32.3	62.5	48.3	34.9	69.2	1,357
Plateau	5.2	39.2	34.0	18.0	50.1	875
North East						
Adamawa	16.9	90.0	40.2	30.7	90.8	903
Bauchi	17.4	52.0	40.0	35.7	65.3	1,343
Borno Gombe	7.0 9.6	58.9 61.8	24.9 41.2	23.0 12.7	68.1 69.0	1,469 717
Taraba	7.5	51.2	30.6	15.4	65.4	877
Yobe	12.1	54.2	32.0	23.9	59.4	1,327
North West						
Jigawa	3.0	67.6	25.4	14.8	74.4	1,382
Kaduna	7.1	52.3	13.0	4.3	54.7	2,493
Kano	4.8	34.2	17.7	10.5	37.1	2,692
Katsina Kebbi	5.1 17.6	15.3 35.9	13.5 30.3	12.1 13.3	18.6 52.5	2,283 1,136
Sokoto	41.8	35.9 43.6	30.3 35.8	33.8	52.5 51.2	910
Zamfara	6.0	42.8	19.9	6.8	43.5	1,328
South East						
Abia	11.1	65.4	34.4	31.6	68.1	630
Anambra	2.6	37.6	11.9	5.8	41.6	1,477
Ebonyi	2.8	65.0	35.5	7.2	70.5	1,027
Enugu	5.6	51.6	25.7	21.5	52.3	880
Imo	12.2	48.2	30.6	15.8	57.6	948
South South						
Akwa Ibom	8.9	47.1	19.0	12.1	54.8	948
Bayelsa Cross River	35.5 17.9	44.5 36.1	35.8 13.5	30.0 8.3	46.2 42.3	298 574
Delta	29.4	73.0	53.3	39.2	77.3	931
Edo	10.9	39.8	22.2	11.1	49.6	555
Rivers	5.9	43.6	13.3	8.1	47.1	1,534

	Problems in accessing health care								
Background characteristic	Getting permission to go for treatment	Getting money for treatment	Distance to health facility	Not wanting to go alone	At least one problem accessing health care	Number of women			
South West									
Ekiti	8.6	22.9	20.0	13.2	30.4	475			
Lagos	6.2	25.0	12.7	6.9	33.6	2,891			
Ogun	13.7	33.0	10.2	6.7	36.5	927			
Ondo	1.1	14.5	2.0	1.5	15.3	683			
Osun	1.7	8.6	6.8	2.5	12.8	938			
Oyo	51.7	71.9	64.6	52.1	74.8	1,352			
Education									
No education	16.0	56.0	35.8	21.5	62.6	14,603			
Primary	9.7	49.9	27.1	14.2	54.9	6,039			
Secondary	9.7	41.1	19.8	14.1	46.5	16,583			
More than secondary	5.1	25.0	13.4	8.4	30.1	4,596			
Wealth quintile									
Lowest	16.8	61.5	45.8	26.5	69.8	7,222			
Second	13.0	55.6	32.2	18.9	61.6	8,045			
Middle	11.3	49.2	24.6	14.9	53.8	8,207			
Fourth	9.6	39.8	18.3	12.8	44.8	8,990			
Highest	7.6	28.1	12.7	9.8	33.1	9,357			
Total	11.4	45.8	25.7	16.1	51.5	41,821			

Key Findings

- Vaccinations: 31% of children age 12-23 months had received all basic vaccinations at the time of the survey, while 21% had received all age-appropriate vaccinations.
- Symptoms of ARI: Advice or treatment was sought for 75% of children under age 5 who had symptoms of ARI in the 2 weeks before the survey. For 29% of these children, advice or treatment was sought on the same or next day.
- **Fever:** Advice or treatment was sought for 73% of children under age 5 who had a fever in the 2 weeks before the survey. For 38% of these children, advice or treatment was sought the same or next day.
- Diarrhoea: Advice or treatment was sought for 65% of children under age 5 who had diarrhoea in the 2 weeks before the survey; 50% of children with diarrhoea received ORT, while 17% received no treatment.

nformation on child health and survival can help policymakers and programme managers assess the efficacy of current strategies, formulate appropriate interventions to prevent deaths from childhood illnesses, and improve the health of children in Nigeria.

This chapter presents information on birth weight and vaccination status for young children. It also looks at the prevalence of, and treatment practices for, three common childhood illnesses: symptoms of acute respiratory infection (ARI), fever, and diarrhoea. Because appropriate sanitary practices can help prevent and reduce the severity of diarrhoeal disease, information is also provided on the disposal of children's faecal matter.

10.1 BIRTH WEIGHT

Low birth weight

Percentage of births with a reported birth weight below 2.5 kilogrammes regardless of gestational age

Sample: Live births in the 5 years before the survey that have a reported birth weight, from either a written record or the mother's report

Low birth weight is closely associated with foetal and neonatal morbidity, inhibited growth and cognitive development, and chronic diseases later in life (Negrato et al. 2013). Birth weight is a good summary measure of multifaceted public health problems including long-term maternal malnutrition, ill health, and poor health care during pregnancy. In this survey, information on birth weight was collected through either a written record or the mother's report. The mother's assessment of her child's weight was necessary because information on birth weight was rarely available for home deliveries. Children are considered to have a low birth weight if they weigh less than 2.5 kilogrammes (kg) at birth. Although mothers' estimates

of their child's birth weight are subjective and findings must be interpreted with caution, these estimates are a useful proxy for a child's birth weight.

Information on birth weight was obtained for only 24% of births (**Table 10.1**). Of the children with known birth weights, 7% weighed less than 2.5 kg at birth (**Table 10.1**). Mothers also provided estimates of their baby's size at birth. Although the mother's estimate of size is subjective, it can be a useful proxy for the child's weight. According to mothers' reports, 3% of births were very small, 11% were smaller than average, and 85% were average or larger.

Trends: The percentage of mothers reporting information on birth weight has fluctuated over the years, decreasing from 18% in 2008 to 16% in 2013 before rising to 24% in 2018. The percentage of infants weighing less than 2.5 kg at birth was 8% in 2008 and 2013 while it is 7% in 2018.

Background characteristics:

- Babies born to mothers under age 20 are more likely to be of low birth weight (12%) than babies born to mothers age 20-34 or 35-49 (7% each).
- The percentage of births with a reported birth weight is highest in the South East (56%) and lowest in the North West (7%).
- Infants born to mothers with no education are more likely to be of low birth weight (16%) than infants born to mothers with a secondary education or more than a secondary education (6% each).
- Children born to mothers in the lowest wealth quintile are more likely to have a low birth weight (12%) than children born to mothers in the highest wealth quintile (6%).

10.2 VACCINATION OF CHILDREN

All basic vaccinations coverage

Percentage of children age 12-23 months who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report). To have received all basic vaccinations, a child must receive at least:

- One dose of BCG vaccine, which protects against tuberculosis
- Three doses of DPT-containing vaccine, which protects against diphtheria, pertussis (whooping cough), and tetanus
- Three doses of oral polio vaccine (excluding polio vaccine given at birth)
- One dose of measles vaccine

Sample: Living children age 12-23 months

Immunisation coverage is one of the indicators used to monitor progress toward reductions in child morbidity and mortality, as it is one of the most cost-effective public health interventions. In the 5 years preceding the survey, Nigeria continued to intensify its focus on polio eradication and strengthening routine immunisation. Several supplemental vaccination campaigns were conducted to rapidly increase coverage of specific vaccines and pre-empt or respond to potential disease outbreaks. Campaigns such as the Cerebrospinal Meningitis, Measles, Yellow Fever and Maternal Neonatal Tetanus Elimination (MNTE) initiative, which targeted maternal and newborn survival, were implemented at different intervals in the years prior to the survey. Nigeria's DPT-containing vaccine also protects against hepatitis B (HepB) and *Haemophilus influenzae* type b (Hib); it is known as DPT-HepB-Hib, or the pentavalent vaccine. The inactivated polio vaccine (IPV), which serves as a booster for oral polio vaccine, was introduced in February 2015. The aim was to boost children's immunity against type 1 and type 3 wild poliovirus (WPV) and tackle the risk of circulating vaccine-derived poliovirus (cVDPV) (National Primary Health Care Development Agency 2016).

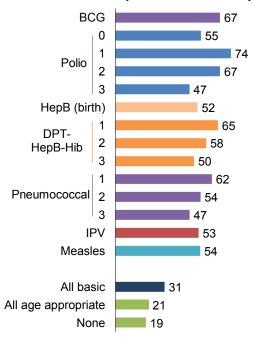
The 2018 NDHS collected information on vaccination coverage in two ways: from vaccination cards shown to the interviewer and from mothers' verbal reports. If the cards were available, the interviewer copied the vaccination dates directly into the questionnaire. When there was no vaccination card for the child or if a vaccine had not been recorded on the vaccination card as being given, the respondent was asked to recall the vaccines given to her child.

Table 10.2 shows that one-third (31%) of children age 12-23 months received all basic vaccinations at any time before the survey, while 28% received the basic vaccinations by the appropriate age of 12 months; 19% received no vaccinations at all.

With respect to coverage of specific vaccines among children age 12-23 months (based on the vaccination card or the mother's report), 67% received the BCG vaccine and 65% received the first dose of DPT-HepB-Hib prior to the survey. Only 50% of children received the third dose of DPT-HepB-Hib, reflecting

Figure 10.1 Childhood vaccinations

Percentage of children age 12-23 months vaccinated at any time before the survey

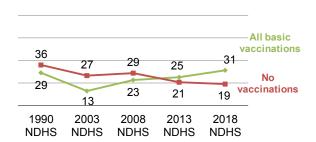


a dropout rate of 30%. Meanwhile, 54% received the measles vaccine, 55% received the recommended polio 0 dose at birth, 74% received the first dose of polio, and 67% received the second dose of polio. Just under half of children (47% each) received the third dose of the pneumococcal conjugate vaccine and the third dose of the polio vaccine (**Figure 10.1**).

Trends: Vaccination coverage in Nigeria has improved over the past 10 years. The percentage of children age 12-23 months who received all basic vaccinations increased from 23% in 2008 to 31% in 2018 (Figure 10.2). The percentage of children who received none of the basic vaccinations declined from 29% to 19% during the same period. While these trends show improvement, they still fall short of Sustainable Development Goal 3, for which the target is achieving more than 90% coverage of all basic vaccinations among children age 12-23 months.

Figure 10.2 Trends in childhood vaccinations

Percentage of children age 12-23 months who received all basic vaccinations at any time before the survey



Patterns by background characteristics

• Urban children age 12-23 months are almost twice as likely to receive all basic vaccinations as rural children (44% versus 23%) (**Table 10.3**).

- Children whose mothers have more than a secondary education are more likely than those whose mothers have no education to receive all basic vaccinations (62% and 15%, respectively) (Figure 10.3).
- Children from households in the highest wealth quintile are more likely to receive all basic vaccinations than those from households in the lowest wealth quintile (59% and 15%, respectively).

Figure 10.3 Vaccination coverage by mother's education

Percentage of children age 12-23 months who received all basic vaccines at any time before the survey

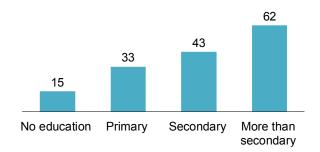
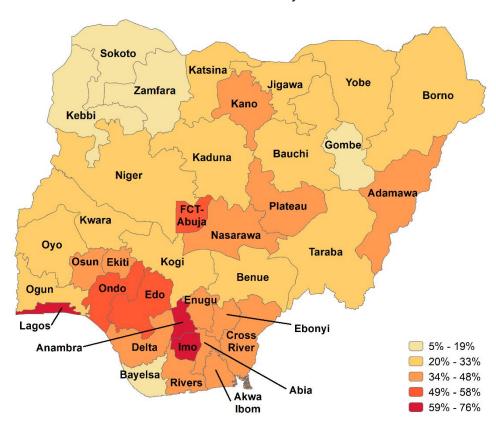


Figure 10.4 Vaccination coverage by state

Percentage of children age 12-23 months who received all basic vaccines at any time before the survey



• Vaccination coverage among children age 12-23 months is highest in Anambra (76%) and lowest in Sokoto (5%) (**Figure 10.4**).

Vaccination Card Ownership and Availability

Vaccination cards are critical tools in ensuring that children receive all recommended vaccinations according to schedule. **Table 10.4** shows that 68% of children age 12-23 months and 65% of children age 24-35 months were reported to have ever had vaccination cards. However, interviewers were able to see a vaccination card for only 40% of children age 12-23 months and 29% of children age 24-35 months.

Among children age 24-35 months, more vaccination cards were seen for those whose mothers have a secondary education or more than a secondary education (44% each) than for those whose mothers have no education (14%). In the same age group, more vaccination cards were seen for children from households in the highest wealth quintile (46%) than children from households in the lowest quintile (14%).

Among children age 12-23 months and 24-35 months, vaccination cards were most often seen in the South East (58% and 48%, respectively).

10.3 SYMPTOMS OF ACUTE RESPIRATORY INFECTION

Treatment of symptoms of acute respiratory infection (ARI)

Children with symptoms of ARI for whom advice or treatment was sought. ARI symptoms consist of short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

Sample: Children under age 5 with symptoms of ARI in the 2 weeks before the survey

Acute respiratory infection (ARI) is among the leading causes of childhood morbidity and mortality in Nigeria and throughout the world. Pneumonia is the most serious outcome of ARI in young children.

Early diagnosis and treatment with antibiotics can prevent a large proportion of deaths caused by pneumonia. Nigeria is engaging in substantial efforts to reduce pneumonia morbidity and mortality. Integrated management of childhood illness (IMCI) and integrated community case management of childhood illness (ICCMCI) in hard-to-reach areas are among the initiatives that have been scaled up by the Nigerian government (since 1998 and 2013, respectively) to address common childhood illnesses.

The prevalence of ARI symptoms was estimated by asking mothers whether their children under age 5 had been ill with a cough accompanied by short or rapid breathing in the 2 weeks preceding the survey. The data gathered were based on perceptions of illness by mothers.

Table 10.5 shows that 3% of children under age 5 had ARI symptoms in the 2 weeks preceding the survey. Advice or treatment was sought for three quarters (75%) of children with ARI symptoms; however, advice or treatment was sought the same or next day for only 29% of children. Twenty-three percent of children with ARI symptoms were taken to a government health centre for advice or treatment, while 37% were taken to a private sector chemist/patent medicine store (PMS) (**Table 10.6**).

Patterns by background characteristics

- Children in the North East (8%) were more likely than children in the other zones (1%-2%) to have had ARI symptoms in the 2 weeks preceding the survey.
- Children whose mothers have a secondary education were more likely to be taken for advice or treatment the same day or the next day than those whose mothers have no education (42% versus 21%).
- One percent of children living in households in the highest wealth quintile had ARI symptoms in the 2 weeks preceding the survey, as compared with 4% of those living in households in the lowest wealth quintile. Only 20% of children from households in the lowest wealth quintile received advice or treatment on the same or next day, compared with 58% of those from households in the highest quintile.

10.4 FEVER

Treatment of fever

Children with fever for whom advice or treatment was sought.

Sample: Children under age 5 with a fever in the 2 weeks before the survey

Fever is a major manifestation of malaria and other acute infections in children. Malaria contributes to high levels of malnutrition and mortality in young children. While fever can occur year round, malaria is more prevalent after the end of the rainy season. Nigeria has changed its policy from presumptive treatment of fever as malaria to confirming malaria with a rapid diagnostic test before treatment with artemisinin-based combination therapy (ACT).

Table 10.7 shows the percentage of children under age 5 with a fever during the 2 weeks preceding the survey and the percentage receiving various treatments, by selected background characteristics. Among children under age 5, 24% had a fever in the 2 weeks preceding the survey. Advice or treatment was sought the same or next day for 38% of these children, while 14% took antibiotic drugs.¹

Patterns by background characteristics

- The prevalence of fever varied by age, from 15% among children less than age 6 months to 30% among children age 12-23 months. There was little variation in fever prevalence by sex of the child.
- Advice or treatment was more likely to be sought for children in urban areas (79%) than for children in rural areas (70%). Similarly, urban children were more likely than rural children to be taken for advice or treatment the same day or the next day (49% versus 34%).
- The prevalence of fever varied from 9% in the South West to 35% in the North East. The percentage of children for whom advice or treatment was sought was highest in the South South (82%) and lowest in the North Central (59%).
- Care-seeking for children with fever increases with increasing mother's education, from 69% among children of mothers with no education to 85% among children of mothers with more than a secondary education. Similarly, the likelihood of a child receiving an antibiotic increases with increasing mother's education and household wealth.

10.5 DIARRHOEAL DISEASE

10.5.1 Prevalence of Diarrhoea and Treatment-seeking Behaviour

Diarrhoea remains a leading cause of childhood morbidity and mortality in developing countries, including Nigeria. Dehydration caused by diarrhoea is a major cause of illness and death among young children, even though the condition can be easily treated with oral rehydration therapy (ORT). Exposure to diarrhoea-causing pathogens is frequently related to consumption of contaminated water and to unhygienic practices in food preparation and disposal of excreta. The combination of high cause-specific mortality and the existence of an effective remedy makes diarrhoea and its treatment a priority concern for health services.

Table 10.8 shows that 13% of children under age 5 were reported to have had diarrhoea in the 2-week period before the survey. This represents an increase from 2008 and 2013 (10% in both years). Advice or treatment was sought for 65% of children who had diarrhoea in the 2 weeks before the survey.

228 • Child Health

¹ For details on rapid diagnostic testing for malaria, please see Chapter 12.

Patterns by background characteristics

- Children age 6-11 months and 12-23 months (20% each) were more likely than children age 48-59 months (7%) to have had diarrhoea in the 2 weeks preceding the survey.
- The prevalence of diarrhoea is also slightly higher among children in households with an unimproved source of drinking water (16%) than among those in households with an improved source of drinking water (12%).
- The prevalence of diarrhoea is slightly higher among children in households with unimproved sanitation (16%) than among those in households with improved sanitation (11%).
- The prevalence of diarrhoea is highest in Gombe (35%) and lowest in Ogun and Bayelsa (1% each).
- Children of mothers with no education were almost three times as likely as children of mothers with more than a secondary education to have had diarrhoea in the 2 weeks before the survey (16% versus 6%).

10.5.2 Feeding Practices

Appropriate feeding practices

Children with diarrhoea are given more liquids than usual and as much food or more than usual.

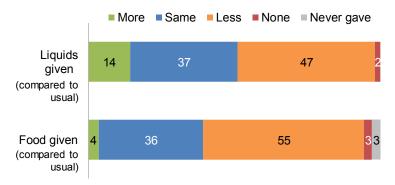
Sample: Children under age 5 with diarrhoea in the 2 weeks before the survey

To reduce dehydration and minimize the effects of diarrhoea on nutritional status, mothers are encouraged to continue normal feeding of children with diarrhoea and to increase the amount of fluids given.

Table 10.9 shows the percentage distribution of children under age 5 who had diarrhoea in the 2 weeks preceding the survey by feeding practices. As recommended, 14% of children were given more fluid than usual, 4% were given more food than usual, and 36% were given the same amount of food. However, 47% of children were given less fluid than usual, and 55% were given less food than usual (**Figure 10.5**).

Figure 10.5 Feeding practices during diarrhoea

Percentage of children under age 5 with diarrhea in the 2 weeks before the survey



10.5.3 Oral Rehydration Therapy and Other Treatments

Deaths from diarrhoea can easily be averted with early and proper treatment. Oral rehydration therapy (ORT) is the most common and simplest treatment for diarrhoea. Depending on illness severity, treatment may involve administration of antibiotics, oral rehydration therapy, and intravenous solutions. Zinc supplementation, which helps reduce the severity, frequency, and duration of diarrhoea episodes, was introduced in Nigeria in 2010 (Federal Ministry of Health 2010).

Oral rehydration therapy

Children with diarrhoea are given increased fluids, a fluid made from a special packet of oral rehydration salts (ORS), or government-recommended homemade fluids (RHF).

Sample: Children under age 5 with diarrhoea in the 2 weeks before the survey

Table 10.10 shows that 50% of children under age 5 with diarrhoea in the 2 weeks before the survey received some form of ORT (ORS packets, recommended home fluids, or increased fluids). One in three children (31%) with diarrhoea were given zinc, and 23% received a combination of ORS and zinc. Antibiotics were given to 30% of children with diarrhoea. Seventeen percent of children with diarrhoea did not receive any treatment (Figure 10.6).

Figure 10.6 Treatment of diarrhoea Percentage of children under age 5 with diarrhoea in the 2 weeks before the survey Sought advice or treatment 65 Fluid from ORS packet 40 Recommended home fluids 28 ORS or RHF 42 7inc 31 ORS and zinc Increased fluids ORT Antibiotics Home remedy/other 20 No treatment

One in three children under age 5 with diarrhoea who received ORS were taken to a private chemist/PMS or a private mobile clinic for advice or treatment (33% each). Eighteen percent were taken to a government health centre (**Table 10.11**).

Trends: The percentage of children under age 5 with diarrhoea for whom advice or treatment was sought increased from 42% in 2008 to 65% in 2018. The percentage of children who received no treatment decreased from 29% to 17% over the same period.

Patterns by background characteristics

- Children in urban areas are more likely to be treated with ORT than those in rural areas (57% versus 47%).
- Children whose mothers have more than a secondary education are more likely to receive continued feeding and ORT (50%) than those whose mothers have no education (33%).

10.5.4 Knowledge of ORS Packets

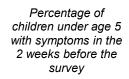
ORS is a simple and effective way to reduce dehydration caused by diarrhoea. **Table 10.12** presents information on the percentage of women who know about ORS packets. In Nigeria, 87% of women know about ORS packets for treatment of diarrhoea, an increase of 7 percentage points from the figure reported in 2013 (80%).

Knowledge of ORS packets is higher among urban women (91%) than among women in rural areas (84%). The percentage of women with knowledge of ORS packets is highest in the South East (91%) and lowest in the South South (73%).

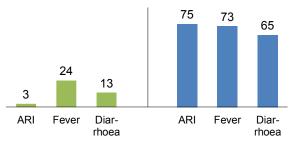
10.6 TREATMENT OF CHILDHOOD ILLNESS

During the 2 weeks before the survey, 3% of children under age 5 had symptoms of ARI, while 24% had a fever and 13% had diarrhoea. Advice or treatment was sought for 75% of children with ARI, 73% of children with a fever, and 65% of children with diarrhoea (**Figure 10.7**).

Figure 10.7 Prevalence and treatment of childhood illness



Among those with illness, percentage for whom advice or treatment was sought



10.7 DISPOSAL OF CHILDREN'S STOOLS

Appropriate disposal of children's stools

The child's last stools were put or rinsed into a toilet or latrine or buried, or the child used a toilet or latrine.

Sample: Youngest children under age 2 living with their mother

Globally, nearly 90% of the diarrhoeal disease burden is estimated to be linked to poor water, sanitation, and hygiene provision. Proper disposal of children's faeces is important in preventing the spread of diseases. If faeces are left uncontained, diseases may spread by direct contact or animal contact (WHO/UNICEF 2013).

Table 10.13 presents the percent distribution of youngest children under age 2 living with their mother by the manner of disposal of the child's last faecal matter.

Fifty-seven percent of children's stools were disposed of safely; 2% of children used a toilet or latrine, 53% of children's stools were put or rinsed into the toilet or latrine, and 2% were buried. About a third of children's stools were thrown into the garbage, while 5% were left in the open and 8% were put or rinsed into a drain or ditch.

Patterns by background characteristics

- Sixty-four percent of children in households with improved toilet facilities have their stools disposed of appropriately, as compared with only 22% of children in households practicing open defecation.
- The percentage of children whose stools are disposed of safely is highest in the North West (76%) and lowest in the South West (33%).
- Children whose mothers have no education are more likely to have their stools disposed of safely than children whose mothers have a secondary education or more than a secondary education (64% versus 49%).
- Children from households in the middle and second wealth quintiles (62% and 61%, respectively) are
 more likely than those from households in the lowest and highest quintiles (52% and 50%,
 respectively) to have their stools disposed of safely.

LIST OF TABLES

For more information on low birth weight, vaccinations, childhood illness, and disposal of children's stools, see the following tables:

Table 10.1	Child's size and weight at birth
Table 10.2	Vaccinations by source of information
Table 10.3	Vaccinations by background characteristics
Table 10.4	Possession and observation of vaccination cards, according to background
	characteristics
Table 10.5	Prevalence and treatment of symptoms of ARI
Table 10.6	Source of advice or treatment for children with symptoms of ARI
Table 10.7	Prevalence and treatment of fever
Table 10.8	Prevalence and treatment of diarrhoea
Table 10.9	Feeding practices during diarrhoea
Table 10.10	Oral rehydration therapy, zinc, and other treatments for diarrhoea
Table 10.11	Source of advice or treatment for children with diarrhoea
Table 10.12	Knowledge of ORS packets
Table 10.13	Disposal of children's stools

Table 10.1 Child's size and weight at birth

Percent distribution of live births in the 5 years preceding the survey by mother's estimate of baby's size at birth, percentage of live births in the 5 years preceding the survey that have a reported birth weight, and among live births in the 5 years preceding the survey with a reported birth weight, percentage less than 2.5 kg, according to background characteristics, Nigeria DHS 2018

	Pe	rcent distribution	n of births by s	ize of baby at bir	th	Percentage of births that			rths with a irth weight¹
Background characteristic	Very small	Smaller than average	Average or larger	Don't know/ missing	Total	have a reported birth weight ¹	Number of births	Percentage less than 2.5 kg	Number of births
Mother's age at birth									
<20	3.2	12.2	83.3	1.3	100.0	11.0	4,677	11.8	514
20-34	2.7	10.6	85.2	1.5	100.0	26.1	24,392	7.0	6,356
35-49	3.1	11.1	83.9	2.0	100.0	23.9	5,124	7.0	1,223
Birth order									
1	3.2	10.5	84.6	1.6	100.0	32.0	6,694	8.2	2,145
2-3 4-5	2.6 2.5	10.4 10.4	85.2 85.4	1.7 1.7	100.0 100.0	29.2 22.1	11,545 7,855	6.5 6.3	3,368 1,735
6+	3.1	12.3	83.4	1.7	100.0	10.4	8,098	10.1	845
							2,000		
Mother's smoking status Smokes cigarettes/tobacco	1.6	25.8	72.6	0.0	100.0	32.9	76	*	25
Does not smoke	2.8	10.9	84.7	1.6	100.0	23.6	34,117	7.3	8,068
Residence							- ,		,,,,,,,
Urban	2.5	9.7	85.9	1.8	100.0	42.6	13,170	7.5	5,604
Rural	3.0	11.6	84.0	1.4	100.0	11.8	21,023	6.9	2,489
Zone							•		•
North Central	3.9	7.1	86.8	2.3	100.0	26.1	4,619	7.0	1,204
North East	3.3	13.0	83.7	0.0	100.0	8.7	6,213	11.1	540
North West	2.5	13.6	83.4	0.4	100.0	6.6	12,558	16.9	828
South East	2.6	8.0	86.1	3.2	100.0	56.3	3,428	4.0	1,930
South South South West	3.6 1.6	7.8 8.5	86.5 85.3	2.1 4.5	100.0 100.0	40.3 54.3	2,968 4,407	5.0 7.0	1,197 2,393
	1.0	0.5	05.5	4.5	100.0	34.3	4,407	7.0	2,393
State									
North Central	17.9	8.6	71.6	1.9	100.0	42.2	225	8.3	95
FCT-Abuja Benue	6.1	2.2	88.7	3.0	100.0	37.9	949	5.4	360
Kogi	1.3	5.9	92.2	0.6	100.0	46.0	451	7.9	208
Kwara	1.4	9.8	87.8	0.9	100.0	35.6	533	6.2	189
Nasarawa	0.9	2.2	97.0	0.0	100.0	23.2	521	9.6	121
Niger Plateau	2.0 6.2	10.2 9.9	87.8 73.9	0.1 10.1	100.0 100.0	12.3 11.2	1,312 628	6.3 10.3	161 70
	0.2	9.9	73.9	10.1	100.0	11.2	020	10.3	70
North East	0.4	47.5	00.0	0.0	400.0	04.0	700	0.4	470
Adamawa Bauchi	2.1 1.5	17.5 9.8	80.2 88.7	0.2 0.1	100.0 100.0	21.6 6.2	786 1,469	3.4 12.1	170 92
Borno	2.9	19.7	77.4	0.0	100.0	13.0	1,219	23.4	159
Gombe	7.8	10.5	81.7	0.0	100.0	4.1	728	4.4	30
Taraba	2.2	14.4	83.4	0.0	100.0	8.6	758	3.5	65
Yobe	4.4	7.9	87.6	0.0	100.0	2.0	1,253	*	25
North West									
Jigawa	2.9	30.2	66.9	0.0	100.0	3.1	1,497	(8.5)	47
Kaduna	4.4	32.9	62.4	0.2	100.0	11.3	2,402	17.2	272
Kano Katsina	1.6 0.8	8.3 4.4	90.2 94.8	0.0 0.0	100.0 100.0	8.4 6.9	2,738 2,428	5.2 37.5	230 167
Kebbi	0.0	4.7	95.3	0.0	100.0	3.2	1,228	(5.7)	39
Sokoto	10.4	3.3	82.3	4.1	100.0	3.7	978	34.1	37
Zamfara	0.1	3.5	95.9	0.5	100.0	2.8	1,287	*	36
South East									
Abia	3.2	10.7	77.7	8.3	100.0	58.8	426	1.5	251
Anambra	0.3	6.3	88.3	5.1	100.0	78.7	1,045	2.9	822
Ebonyi	4.7 1.9	6.6 10.4	87.0 86.1	1.7 1.6	100.0 100.0	22.3 49.7	814 486	10.8	181 242
Enugu Imo	3.9	9.0	86.1 87.0	0.1	100.0	49.7 66.2	486 657	7.6 2.9	435
							20.	2.0	.00
South South Akwa Ibom	1.1	5.7	89.6	3.6	100.0	34.2	522	5.9	178
Bayelsa	0.3	11.6	88.2	0.0	100.0	19.1	217	4.2	41
Cross River	8.2	8.6	80.0	3.3	100.0	45.1	318	5.4	143
Delta	1.2	6.5	87.8	4.6	100.0	40.9	595	7.7	243
Edo Rivers	4.9 5.3	9.4	85.2 86.3	0.5	100.0	57.2 30.3	411 906	6.6	235
	5.3	7.8	86.3	0.5	100.0	39.3	900	1.8	356
South West	0.0	- 4	00.0	2.5	400.0	20.0	000	o =	100
Ekiti Lagos	3.8 1.2	5.1 12.6	90.6 81.3	0.5 4.9	100.0 100.0	39.2 64.5	329 1,545	9.7 6.4	129 996
Ogun	0.0	12.6	92.1	4.9 5.9	100.0	57.9	1,545 586	8.9	340
Ondo	5.6	7.0	85.4	2.0	100.0	29.1	423	6.4	123
Osun	1.5	11.9	85.9	0.6	100.0	41.2	549	6.0	226
Oyo	0.9	6.0	85.6	7.5	100.0	59.3	976	6.7	579

	Pe	rcent distribution	n of births by s	ize of baby at bir	th	Percentage of births that		Among bi	
Background characteristic	Very small	Smaller than average	Average or larger	Don't know/ missing	Total	have a reported birth weight ¹	Number of births	Percentage less than 2.5 kg	Number of births
Mother's education									
No education	3.0	12.9	83.3	0.8	100.0	4.1	15,858	15.5	653
Primary	3.1	10.4	83.9	2.6	100.0	18.6	5,103	9.1	951
Secondary	2.6	9.1	86.1	2.2	100.0	41.8	10,413	6.4	4,353
More than secondary	2.3	7.0	89.4	1.2	100.0	75.8	2,818	5.9	2,136
Wealth quintile									
Lowest	3.4	11.7	83.7	1.3	100.0	3.2	7,572	11.8	239
Second	2.8	13.0	82.8	1.4	100.0	7.3	7,782	8.4	564
Middle	3.0	11.7	83.9	1.3	100.0	18.5	7,043	8.6	1,306
Fourth	2.4	8.9	86.7	1.9	100.0	36.8	6,254	7.9	2,300
Highest	2.5	8.0	87.6	2.0	100.0	66.5	5,541	5.9	3,684
Total	2.8	10.9	84.7	1.6	100.0	23.7	34,193	7.3	8,093

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Based on either a written record or the mother's recall

Table 10.2 Vaccinations by source of information

Percentage of children age 12-23 months and children age 24-35 months who received specific vaccines at any time before the survey, by source of information (vaccination card or mother's report), and percentage who received specific vaccines by the appropriate age, Nigeria DHS 2018

		Children age	12-23 months			Children age 2	24-35 months	
Vaccine	Vaccination card ¹	Mother's report	Either source	Vaccinated by appropriate age ^{2,3,4}	Vaccination card ¹	Mother's report	Either source	Vaccinated by appropriate age ^{2,3,4}
BCG	37.7	28.9	66.7	66.0	27.9	36.5	64.4	63.2
HepB (birth dose)⁵ Within 1 day of birth After 1 day of birth	29.8 4.0 22.9	22.6 na na	52.4 na na	52.2 na na	21.5 3.0 15.9	28.5 na na	49.9 na na	48.8 na na
DPT-HepB-Hib 1 2 3	37.9 35.5 32.2	27.4 22.4 17.8	65.3 57.8 50.1	64.5 56.6 48.3	27.5 26.3 24.4	34.3 28.0 23.2	61.8 54.2 47.5	60.4 52.3 45.4
Polio 0 (birth dose) 1 2 3 IPV	32.8 38.4 35.7 32.2 29.1	21.7 35.2 31.0 15.0 23.7	54.5 73.6 66.7 47.2 52.9	54.3 72.7 65.4 45.6 51.0	24.7 27.9 26.3 23.7 21.7	26.6 43.3 38.9 19.9 30.7	51.3 71.2 65.3 43.6 52.3	50.3 69.5 62.9 41.6 49.1
Pneumococcal 1 2 3	36.3 33.7 30.7	25.1 20.5 16.7	61.5 54.2 47.3	60.4 52.9 45.5	25.8 24.0 21.7	32.0 26.3 21.8	57.8 50.3 43.5	56.3 48.3 41.1
Measles 1 2	28.7 na	25.3 na	54.0 na	48.5 na	22.6 5.9	35.1 9.7	57.7 15.6	49.2 14.8
All basic vaccinations ⁶ All age-appropriate vaccinations ⁷ No vaccinations Number of children	25.6 18.5 0.0 2,459	5.7 2.5 19.1 3,684	31.3 21.0 19.2 6,143	28.3 19.1 na 6,143	19.8 3.8 0.1 1,715	7.9 0.9 20.3 4,120	27.7 4.7 20.5 5,835	24.3 4.0 na 5,835

na = Not applicable

BCG = Bacille Calmette-Guerin

DPT = Diphtheria-pertussis-tetanus

HepB = Hepatitis B

Hib = Haemophilus influenzae type b

² Received by age 12 months

⁴ Received by age 12 months for all vaccines except measles 2, which should be received by age 24 months

IPV = Inactivated polio vaccine

1 Vaccination card, booklet, or other home-based record

³ For children whose vaccination information is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination.

⁵ For children whose vaccination information is based on the mother's report, children reported to have received hepatitis B (birth dose) received the vaccine within 24 hours after birth. For children whose vaccination information is based on the written record of vaccination, children are considered to have received hepatitis B (birth dose) if this vaccine is recorded on their card, regardless of when the dose was administered.

⁶ BCG, three doses of DPT-HepB-Hib, three doses of oral polio vaccine (excluding polio vaccine given at birth), and one dose of measles

⁷ For children age 12-23 months: BCG, hepatitis B (birth dose), three doses of DPT-HepB-Hib, four doses of oral polio vaccine, one dose of inactivated polio vaccine, three doses of pneumococcal vaccine, and one dose of measles. For children age 24-35 months, all of the just-mentioned vaccinations plus a second dose of measles.

Table 10.3 Vaccinations by background characteristics

Percentage of children age 12-23 months and children age 24-35 months who received specific vaccines at any time before the survey (according to a vaccination card or the mother's report), percentage with all basic vaccinations, and packground characteristics, Nigeria DHS 2018

Se-Hib Polio ² 50.0 (birth 3 dose) 1 2 3 IPV 50.0 54.1 73.3 66.3 47.0 53.0 50.2 55.0 74.0 67.1 47.5 52.8 55.1 60.2 76.8 68.6 48.6 58.1 55.1 60.2 76.8 68.6 44.5 52.9 37.1 37.6 67.3 60.6 44.5 38.6 67.9 74.4 81.1 75.9 56.8 70.4 41.4 41.5 68.7 60.7 41.7 25.0 39.6 67.9 74.4 81.1 75.9 56.8 70.4 41.4 41.5 68.7 60.7 41.7 41.4 41.5 68.7 60.7 41.7 41.4 41.5 68.7 60.7 41.7 41.4 41.5 68.1 84.0 89.8 86.0 68.8 83.4 64.5 83.7 72.1 40.0 32.2 83.1 84.0 89.8 86.0 68.8 83.4 65.5 83.7 72.1 40.0 32.2 83.1 84.0 89.8 86.0 68.8 83.4 45.8 80.3 57.0 75.4 65.5 58.7 72.1 40.0 63.3 55.5 58.7 64.1 80.7 72.1 40.0 63.3 55.5 58.7 64.1 80.7 72.1 40.0 63.3 55.5 58.7 81.3 81.9 82.2 66.1 48.5 37.3 71.8 83.9 82.2 66.1 48.5 37.3 71.8 58.1 88.9 86.2 66.1 48.5 71.1 45.7 67.0 32.1 38.1 65.9 65.8 33.2 65.4 41.4 45.7 52.9 36.0 46.5 74.1 45.7 65.3 36.0 38.1 65.9 75.4 41.4 45.7 65.3 36.0 38.1 65.9 75.4 41.4 45.7 65.3 36.0 38.1 65.9 75.4 76.7 71.1 45.7 65.1 72.8 33.1 65.4 41.4 45.7 65.3 36.0 36.0 68.8 80.3 80.3 67.4 41.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 45.7 65.3 36.0 65.8 80.3 67.4 47.1 45.7 66.3 36.0 65.8 80.3 67.4 47.1 45.7 66.3 36.0 65.8 80.3 67.4 47.1 45.7 66.3 36.0 65.8 80.3 67.4 47.1 45.7 66.3 36.0 67.4 66.4 41.1 45.7 66.3 36.0 67.4 66.4 41.1 45.7 66.3 36.0 67.4 66.4 41.1 45.7 66.3 36.0 67.1 67.0 67.0 67.0 67.0 67.0 67.2 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0	O (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 2 3 IPV 1 1 2 0 (birth 3 dose) 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		HepB Background (birth characteristic BCG dose) ¹ 1	ex 66.1 52.6 65.2 EFemale 67.3 52.2 65.5 EF	Birth order 74.4 59.6 73.1 6 2-3 72.1 58.1 71.0 6 4-5 66.5 53.7 64.2 5 6+ 52.2 36.7 51.3 4	Vaccination card* 94.3 74.5 94.6 8 Seen Not seen/no card 48.2 37.7 45.8 3	Residence 83.3 72.4 81.2 7 Urban 55.8 39.4 55.0 4	Zone 74.4 59.6 70.4 6 North Central 77.0 37.3 55.2 4 North East 45.0 32.6 44.5 3 South East 93.4 76.4 92.2 8 South South 83.9 66.1 85.0 7 South West 90.6 84.3 88.7 8	State North Central 87.7 83.0 85.5 8 FCT-Abuja 82.0 67.7 76.8 7 Benue 82.0 67.7 76.8 7 Kogi 80.0 63.1 80.1 6 Kwara 63.5 54.5 60.8 5 Nasarawa 87.6 84.7 79.4 6 Niger 62.0 41.7 54.7 4 Plateau 81.9 61.2 86.3 8	North East 78.8 58.7 80.2 7 Adamawa 78.2 34.7 47.0 4 Bauchi 62.5 49.1 56.2 5 Gombe 42.5 22.3 37.3 3
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Children age 12-23 month oblio² 2 3 IPV 66.3 47.0 53.0 67.1 47.5 62.8 66.0 44.5 52.9 60.6 44.5 52.9 60.7 71.3 47.0 54.5 60.7 41.4 41.1 45.7 67.0 66.1 48.5 37.3 86.0 68.8 83.4 72.8 80.3 57.0 75.4 49.7 76.3 72.8 80.3 57.0 75.4 74.8 49.7 76.3 86.2 66.1 48.5 37.3 86.2 66.1 48.5 37.3 86.2 63.3 67.4 45.7 67.0 66.1 48.5 37.3 86.2 63.3 77.1 45.7 67.0 60.8 63.3 77.1 45.7 67.0 60.8 63.3 77.1 45.7 67.0 66.4 41.1 45.7 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67	Children age 12-23 months 2 3 IPV 1 66.3 47.0 53.0 61.0 67.1 47.5 52.8 61.9 68.6 48.6 58.1 66.8 68.0 44.5 38.6 46.8 60.7 41.7 41.4 50.9 60.7 41.7 41.4 50.9 60.7 41.7 41.4 50.9 60.7 41.7 41.4 50.9 60.7 41.8 83.4 48.8 60.7 68.8 83.4 48.8 60.7 68.8 83.4 45.8 60.4 60.3 57.0 63.3 68.0 72.8 60.4 60.3 60.4 60.3 60.4 60.3 60.4 60.3 60.4 60.3 60.4 60.3 60.4 60.3 60.4 60.3 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.4 60.8 60.8 60.8 60.4 60.8 60.8 60.8 60.8 60.8 60.8 60.8 60.8		0 (birth dose)							
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Continued...

Background							•							All age-					All age-
	¥ 3	HepB (birth	DPT-HepB-Hib	B-Hib	O (hirth	Polio ²	, oi			Pneum	Pneumococcal	Meadaga	All basic	appro-	No cipoex	Number	Model		appro- priate
v	BCG dos	dose) ¹ 1	2	3	dose)	-	2	က	IPV	_	2	3 1			ations	en			ations ⁵
North West Jigawa 5	53.2 40.7				45.1	70.7	62.6	48.5						16.2	20.3	246	7.4.7		2.5
					45.2	44.7	40.2	32.3						13.8	40.2	362	13.1		5.4
					47.2	85.5	9.82	8.99		-	-			19.4	8.8	431	13.0		3.6
Katsina 4					34.6	57.7	55.3	45.9						10.8	32.9	392	0.0	ע) כ	რ ი
. S	35.6 23.7	24.6	12.4	7.2	19.6	27.7 30.6	20.0 20.0	12.2	20.8	19.3 10	10.6 6.2 12.8	19.0	5.94	- 4 5	52.4 52.4	178	0.5	000	
+-					2	9	<u>.</u>	7.0) ř	99	077	9	>	
					87.3	89.3	79.6	49.1						28.9	4.3	69	40.8	0	7.
ία					87.3 74.7	91.3 96.0	90.8 91.1	84.4 66.4					-	60.4 26.3	7.2 1.7	221 148	11.9 27.2	ი =	ဖ ဆ
	92.5 86.9 92.7 82.7	.9 93.2 .7 90.8	2 83.8 8 84.4	80.9 79.5	86.6 85.5	75.4 90.0	75.4 82.4	46.3 70.9	7 87.8 7 80.0 89	71.3 63 89.2 83	63.5 60.2 83.3 76.3	.2 79.2 .3 71.3	36.4	19.9 51.3	6.8 5.0	87 117	27.0 20.2	3.6 13.4	04
South South																			
					62.9	81.7	74.0	58.5			_	4 (-	28.3	9.6	118	23.2	0.4	
Bayelsa Cross River 8					59.2 54.8	70.9 88.7	56.7 80.4	25./ 55.6				o		12.4 21.8	20.1 4.4	23 20	28.7 15.9	. c.	N
	82.5 67.9	9.1.1	78.2	71.7	66.9	84.0	82.5	56.4	76.0 8.	81.5 78	78.6 70.	.8 73.3	44.4	30.0	12.5	127	11.6	4.7	
હ					69.9 69.9	85.8	83.0	47.8				0 00		46.2 28.5	11.0	172	19.3	. 4	_
South West					92.1	95.0	93.5	494						8 90	2.4	œ	4 1 4	ς. Γ.	
Ø					95.1	95.0	91.7	67.3						56.2	1.7	329	22.8	10.6	
Ogun Ondo					67.6 76.8	71.8 85.5	54.9 83.4	32.5 53.5						20.9 39.7	17.8 12.4	121 75	13.0 18.6	2. 1.1	
Osun 9 Oyo 8	94.3 84.0 88.6 82.7	.0 88.9 .7 83.2	9 88.1 2 67.3	83.5 44.3	70.4 83.4	82.2 67.2	77.8 44.7	38.4 33.9	82.8 84 63.2 70	85.0 83 70.7 55	83.0 77.9 55.3 39.2	.9 76.6 .2 61.6	33.8	17.2 16.6	5.7 9.3	102 179	28.1 31.7	0.0 14.1	
ation					1	C C	1	1						1	C	0	c	4	
No education 4 Primary 7	41.0 26.5 74.7 56.7	7 72.7	32.0	24.7 55.4	59.6	59.3 76.6	51.7 69.4	35.7 49.1	57.1	35.7 28 68.7 60	28.3 22.2 60.5 51.6	32.8 6 57.2	32.7	20.1	33.6 15.1	2,645	15.6	– 4 ວິ6	
	87.8 73				75.9	85.1	78.6	55.6						31.4	7.2	2,052	20.6	7.1	
secondary 9	97.6 89.	9 95.	9 92.1	86.5	93.4	94.1	9.68	8.79	87.1 93	93.7 88	88.9 84.	.6 89.5	62.4	50.2	<u>+</u>	920	32.8	11.8	~
uintile					0 90	0	2.0	0 96			cc	c		7	7 00	240	0	+	_
Second				35.7	37.5	65.5	59.3	40.2			3 28	7 10	.,	t: 6:6	27.8	1,327	6.9 9.3	2.0	
					56.5	74.7	65.7	46.3			47	9 0		17.6	17.2	1,226	16.1	4.1	
Fourth 8 Highest 9	84.1 71.5 94.0 86.5	.5 80.9 .5 93.4	9 73.1 4 87.9		72.4 88.6	80.0 90.4	73.7 85.2	51.4 66.7	68.7 78 84.3 90	78.4 70 90.5 84	70.6 63. 84.5 79.	.3 66.9 .6 84.7	58.9	28.7 48.3	10.6 3.3	1,1 <i>7</i> 2 1,070	20.5 25.4	7.1 9.6	
Total 6	66.7 52.	4 65.	3 57.8	50.1	54.5	73.6	2.99	47.2	52.9 6.	61.5 54.	.2 47.3	.3 54.0	31.3	21.0	19.2		15.6	4.7	

Note: Children are considered to have received the vaccine if it was either written on the child's vaccination card or reported by the mother. For children whose vaccination is based on the mother's report, date of vaccination is not collected. The proportions of vaccinations given during the first and second years of life are assumed to be the same as for children with a written record of vaccination.

BCG = Bacille Calmette-Guerin DPT = Diphtheria-pertussis-tetanus

HepB = Hepatitis B Hib = *Haemophilus influenzae* type b

IPV = Inactivated polio vaccine

¹ For children whose vaccination information is based on the mother's report, children reported to have received HepB (birth dose) received the vaccine within 24 hours after birth. For children whose vaccination information is based on the written record of vaccination, children are considered to have received hepatitis B (birth dose) if this vaccine is recorded on their card, regardless of when the dose was administered.

² Polio 0 is the polio vaccination given at birth.

³ BCG, three doses of DPT-HepB-Hib, three doses of oral polio vaccine (excluding polio vaccine given at birth), and one dose of measles

⁴ BCG, three doses of DPT-HepB-Hib, four doses of oral polio vaccine, one dose of inactivated polio vaccine, three doses of pneumococcal vaccine, and one dose of measles

⁵ BCG, hepatitis B (birth dose), three doses of DPT-HepB-Hib, four doses of oral polio vaccine, one dose of inactivated polio vaccine, three doses of pneumococcal vaccine, and two doses of measles

⁶ Vaccination card, booklet, or other home-based record

Table 10.4 Possession and observation of vaccination cards, according to background characteristics

Percentage of children age 12-23 months and children age 24-35 months who ever had a vaccination card, and percentage with a vaccination card seen, according to background characteristics, Nigeria DHS 2018

	Childi	ren age 12-23 m	onths	Child	ren age 24-35 m	onths
Background	Percentage who ever had a vaccination	Percentage with a vaccination	Number of	Percentage who ever had a vaccination	Percentage with a vaccination	Number of
characteristic	card ¹	card seen ¹	children	card ¹	card seen ¹	children
Sex Male Female	67.7 68.7	39.7 40.4	3,215 2,928	64.3 65.0	29.9 28.8	2,974 2,861
Birth order	55. .		2,020	00.0	20.0	2,001
1	75.9	44.5	1,201	73.7	33.9	1,109
2-3	72.6	43.8	2,137	66.6	31.9	2,000
4-5 6+	68.4 54.8	39.7	1,385	65.1	29.3	1,410
	34.0	30.9	1,421	53.6	21.8	1,316
Residence Urban	83.2	49.0	2,428	79.0	38.8	2,398
Rural	58.4	34.2	3,715	54.7	22.8	3,437
Zone						
North Central	74.1	44.2	864	71.4	35.2	788
North East	58.0	33.9	1,133	57.1	24.1	1,071
North West	50.7	28.5	2,036	46.1	15.7	2,013
South East South South	92.9 83.0	58.3 52.1	641 596	91.8 82.5	47.8 44.1	637 514
South West	87.9	49.1	874	81.5	40.7	811
State						
North Central						
FCT-Abuja	81.1	54.5	41	88.3	46.6	40
Benue	77.7 80.7	42.1	194	82.2	37.7	180
Kogi Kwara	80.7 61.8	37.2 37.8	80 105	80.6 67.4	39.8 31.4	72 85
Nasarawa	88.0	56.1	85	73.8	31.1	98
Niger	64.4	37.1	256	56.3	25.7	193
Plateau	84.6	63.3	104	69.3	46.6	119
North East						
Adamawa	81.3	47.9	151	71.6	23.0	141
Bauchi Borno	55.0 57.3	37.5 25.7	278 221	52.9 52.4	29.1 19.8	250 236
Gombe	52.4	29.2	128	57.9	28.6	119
Taraba	69.1	44.3	134	74.3	35.1	116
Yobe	43.2	24.3	221	47.6	15.2	210
North West						
Jigawa	58.3	42.0	246	48.4	20.2	233
Kaduna Kano	55.9 63.6	33.4 41.4	362 431	56.0 60.3	20.5 21.3	376 459
Katsina	46.2	26.3	392	36.2	15.3	434
Kebbi	60.5	20.0	207	55.3	9.2	160
Sokoto	39.3	11.1	178	32.0	5.1	145
Zamfara	16.7	6.2	220	17.8	3.2	206
South East	00.0	40.5	00	07.4	24.4	70
Abia Anambra	93.3 92.8	48.5 59.7	69 221	97.4 95.4	31.4 56.3	78 182
Ebonyi	96.4	61.8	148	94.4	55.0	154
Enugu	89.0	45.8	87	83.0	31.5	106
Imo	91.3	66.1	117	87.1	50.8	118
South South						
Akwa Ibom	84.8	61.0	118	82.4	36.3	77
Bayelsa Cross River	61.8 90.3	29.2 53.0	50 53	53.1 91.3	8.6 39.6	38 67
Delta	83.7	45.0	127	88.4	45.8	95
Edo	86.3	64.1	75	78.4	52.8	72
Rivers	83.7	52.4	172	84.2	53.0	164
South West						
Ekiti	94.1 98.3	45.8 64.6	68	91.3 87.6	32.1 52.7	52 283
Lagos Ogun	98.3 70.3	46.6	329 121	87.6 64.5	52.7 40.0	283 109
Ondo	85.4	40.5	75	86.8	43.3	77
Osun	85.3	25.3	102	82.7	18.9	116
Оуо	80.7	40.7	179	76.0	37.6	173

Table 10.4—Continued Children age 12-23 months Children age 24-35 months Percentage Percentage Percentage Percentage who ever had with a who ever had with a Background a vaccination vaccination Number of a vaccination vaccination Number of children characteristic card1 card seen1 children card1 card seen1 Mother's education No education 44.7 75.1 2,645 877 2,561 24.4 44.8 42.2 68.3 14.4 34.0 Primary 894 Secondary 87.7 52.6 2,052 86.0 43.8 1,812 More than secondary 96.3 59.9 570 92.0 43.6 567 Wealth quintile Lowest 42.9 23.9 1,349 39.2 14.0 1,222 52.2 67.4 Second 57.0 29.0 1,327 20.0 1,267

1,226

1,172

1,070

6,143

82.0

88.2

64.7

30.1

40.2

46.4

29.4

1,198

1,114

1,033

5,835

71.7

82.8

93.9

68.2

45.1

46.8

60.8

40.0

Middle

Fourth

Highest

Total

¹ Vaccination card, booklet, or other home-based record

Table 10.5 Prevalence and treatment of symptoms of ARI

Among children under age 5, percentage who had symptoms of acute respiratory infection (ARI) in the 2 weeks preceding the survey, and among children with symptoms of ARI in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Nigeria DHS 2018

	Among chil			children under ac symptoms of ARI	
Background characteristic	Percentage with symptoms of ARI ¹	Number of children	Percentage for whom advice or treatment was sought ²	Percentage for whom treatment was sought same or next day	Number of children
Age in months					
<6	2.7	3,270	73.3	31.6	87
6-11	3.7	3,153	81.2	39.9	116
12-23	3.4	6,143	74.1	28.1	210
24-35 36-47	2.4 2.0	5,835	77.3 67.2	24.4 20.1	141 122
48-59	2.0	6,186 6,294	74.1	31.8	139
Sex					
Male	2.7	15,674	74.8	29.6	417
Female	2.6	15,208	74.2	28.2	397
Mother's smoking status					
Smokes cigarettes/tobacco	0.0	69	*	*	0
Does not smoke	2.6	30,813	74.5	29.0	814
Cooking fuel	4.0	0.007	(04.2)	(00.0)	20
Electricity or gas Kerosene	1.3 1.2	2,997 2,954	(91.3)	(66.2)	38 35
Coal/lignite	0.0	194	(96.0)	(46.3)	0
Charcoal	2.7	1,914	(90.8)	(52.6)	51
Wood/straw ³	3.0	22,813	71.3	24.3	690
Animal dung	*	1	*	*	0
No food cooked in household	*	8	*	*	0
Residence					
Urban	2.0	12,215	82.3	42.1	239
Rural	3.1	18,666	71.3	23.5	575
Zone	4.0	4.055	50.7	00.4	
North Central	1.3	4,255	59.7	32.1	55 464
North East North West	8.2 1.3	5,598 10,883	73.0 84.6	27.5 27.8	461 146
South East	1.6	3,205	57.0	27.6	52
South South	2.4	2,787	90.6	34.7	66
South West	0.8	4,153	(72.4)	(39.8)	34
Mother's education					
No education	3.1	13,867	71.2	21.0	436
Primary	3.3	4,618	70.9	26.2	152
Secondary	2.0	9,733	82.1	42.4	199
More than secondary	1.0	2,664	(93.6)	(73.3)	27
Wealth quintile Lowest	4.2	6,625	71.5	19.5	277
Second	3.0	6,816	69.4	24.8	208
Middle	2.3	6,364	74.0	33.2	206 145
Fourth	1.9	5,816	79.9	35.9	112
Highest	1.4	5,260	93.8	57.9	72
Total	2.6	30,881	74.5	29.0	814

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

² Includes advice or treatment from the following sources: public sector, private medical sector, shop, market, itinerant drug seller, or community-oriented resource person. Excludes advice or treatment from a traditional practitioner.

³ Includes grass, shrubs, and crop residues

Table 10.6 Source of advice or treatment for children with symptoms of ARI

Percentage of children under age 5 with symptoms of ARI in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with symptoms of ARI in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources, Nigeria DHS 2018

		advice or treatment was each source:
Source	Among children with symptoms of ARI ¹	Among children with symptoms of ARI for whom advice or treatment was sought ¹
Public sector Government hospital Government health centre Government health post Mobile clinic Fieldworker/CHW Other	37.2 10.5 17.4 6.6 0.7 1.7 0.2	49.0 13.9 22.9 8.7 0.9 2.2 0.3
Private sector Private hospital/clinic Pharmacy Chemist/PMS Private doctor Mobile clinic Fieldworker/CHW	33.8 2.8 2.5 27.9 0.2 27.9 0.5	44.5 3.7 3.3 36.8 0.3 36.8 0.7
Other private sector Shop Traditional practitioner Market Itinerant drug seller Community-oriented resource person	4.6 2.3 1.6 0.3 0.1	6.0 3.0 2.1 0.4 0.2
Other	1.4	1.9
Number of children	814	618

CHW = Community health worker
PMS = Patent medicine store

1 Symptoms of ARI include short, rapid breathing that is chest-related and/or difficult breathing that is chest-related.

Table 10.7 Prevalence and treatment of fever

Among children under age 5, percentage who had a fever in the 2 weeks preceding the survey, and among children with a fever in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought and percentage who received antibiotics as treatment, according to background characteristics, Nigeria DHS 2018

	Among chil age	dren under e 5:	Amo	ong children und	er age 5 with f	ever:
Background characteristic	Percentage with fever	Number of children	Percentage for whom advice or treatment was sought ¹	Percentage for whom treatment was	Percentage who took antibiotic drugs	Number of children with fever
Age in months						
<6	15.2	3,270	70.7	38.6	15.1	497
6-11	29.0	3,153	70.7	35.3	16.9	914
12-23	29.7	6,143	73.5	39.1	15.0	1,826
24-35	26.4	5,835	75.5	37.7	15.3	1,541
36-47	22.9	6,186	72.2	39.5	11.4	1,418
48-59	20.2	6,294	71.8	37.8	12.5	1,270
Sex						
Male	23.6	15,674	73.4	38.6	14.6	3,702
Female	24.7	15,208	72.2	37.7	13.8	3,764
Residence						
Urban	18.6	12,215	78.8	48.9	18.4	2,269
Rural	27.8	18,666	70.2	33.5	12.4	5,197
Zone		•				•
North Central	17.7	4,255	58.7	30.0	17.0	754
North East	35.0	5,598	72.6	31.0	14.7	1,959
North West	27.9	10,883	74.9	40.5	10.4	3,039
South East	20.1	3,205	70.8	46.3	13.3	643
South South	25.5	2,787	81.5	46.4	23.5	710
South West	8.7	4,153	72.6	43.6	21.2	360
State						
North Central						
FCT-Abuja	23.3	212	79.2	46.1	23.7	49
Benue	12.2	908	92.3	21.1	8.3	111
Kogi	11.5	396	51.9	36.2	10.8	46
Kwara	11.4	497	53.5	27.1	6.8	57
Nasarawa	10.3	471	48.4	20.2	13.3	48
Niger	28.0	1,207	50.6	32.3	19.4	338
Plateau	18.6	565	49.8	27.9	25.2	105
North East						
Adamawa	27.9	714	49.3	12.3	11.2	199
Bauchi	49.5	1,317	71.2	34.0	17.1	652
Borno	16.0	1,140	77.5	45.4	24.1	182
Gombe	37.0	629	84.4	45.3	10.3	232
Taraba	28.8	682	52.5	26.1	11.8	196
Yobe	44.5	1,118	84.3	24.7	12.5	497
North West						
Jigawa	33.8	1,277	83.2	40.5	17.7	432
Kaduna	25.8	2,039	64.4	37.5	10.6	527
Kano	26.4	2,416	84.0	59.0	4.5	638
Katsina	28.6	2,141	79.1	42.2	16.5	612
Kebbi	38.9	1,005	73.1	32.3	3.9	391
Sokoto	32.7	852	73.5	27.0	8.6	278
Zamfara	13.9	1,154	42.3	13.2	9.9	160
South East						
Abia	7.7	395	86.6	66.5	29.4	30
Anambra	13.7	999	97.4	69.7	14.2	137
Ebonyi	32.4	759	64.3	36.6	7.2	246
Enugu	14.0	455	81.6	60.1	1.7	64
Imo	27.9	598	51.3	32.4	23.1	167
South South						
Akwa Ibom	37.6	480	69.5	44.7	9.4	180
Bayelsa	10.0	210	71.8	50.0	0.0	21
Cross River	16.8	300	83.5	50.0	25.3	50
Delta	5.2	567	*	*	*	30
Edo	18.9	382	78.3	59.0	46.3	72
Rivers	42.0	848	89.9	45.7	28.5	356

Table 10.7—Continued						
	Among chil	dren under e 5:	Amo	ong children und	er age 5 with f	ever:
Background characteristic	Percentage with fever	Number of children	Percentage for whom advice or treatment was sought ¹	Percentage for whom treatment was sought same or next day	Percentage who took antibiotic drugs	Number of children with fever
South West						
Ekiti Lagos Ogun Ondo Osun Oyo Mother's education No education Primary Secondary More than secondary	17.9 6.7 4.9 12.7 13.9 6.5 28.7 24.6 20.4 13.7	296 1,449 574 395 515 925 13,867 4,618 9,733 2,664	61.8 78.4 * 61.0 65.8 (80.8) 68.8 74.8 77.7 84.5	27.9 61.5 * 24.2 29.7 (46.2) 31.2 40.1 47.5 56.9	13.4 32.6 * 19.7 19.1 (20.7) 10.6 14.2 19.4 25.4	53 97 28 50 72 60 3,982 1,137 1,982 364
Wealth quintile Lowest Second Middle Fourth Highest	32.5 28.3 23.7 19.4 14.2	6,625 6,816 6,364 5,816 5,260	67.8 70.4 72.4 79.1 85.2	25.5 35.8 41.5 47.3 60.2	11.3 10.3 15.0 18.7 24.3	2,153 1,930 1,510 1,128 745
Total	24.2	30,881	72.8	38.2	14.2	7,466

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Includes advice or treatment from the following sources: public sector, private medical sector, shop, market, itinerant drug seller, or community-oriented resource person. Excludes advice or treatment from a traditional practitioner.

Table 10.8 Prevalence and treatment of diarrhoea

Percentage of children under age 5 who had diarrhoea in the 2 weeks preceding the survey, and among children with diarrhoea in the 2 weeks preceding the survey, percentage for whom advice or treatment was sought, according to background characteristics, Nigeria DHS 2018

				Iren under age diarrhoea:
Background characteristic	Percentage with diarrhoea	Number of children	Percentage for whom advice or treatment was sought ¹	Number of children with diarrhoea
Age in months				
<6	9.6	3,270	51.6	315
6-11	20.1	3,153	64.5	632
12-23	20.2	6,143	66.4	1,242
24-35	13.8	5,835	67.7	807
36-47 48-59	8.7 6.6	6,186 6,294	64.6 65.7	537 416
Sex				
Male	12.7	15,674	64.9	1,995
Female	12.9	15,208	64.8	1,955
Source of drinking water ²				
Improved	12.1	19,665	68.1	2,375
Unimproved	15.8	9,235	58.8	1,461
Other/missing	5.8	1,981	75.4	115
Type of toilet facility ³	44.5	45.000	00.0	4 70 .
Improved facility	11.3	15,868	69.3	1,794
Unimproved facility Open defecation	16.0	7,889	65.5	1,266
•	12.5	7,124	55.1	891
Residence	0.6	12 215	60.7	1 171
Urban Rural	9.6 14.9	12,215 18,666	68.7 63.2	1,171 2,779
Zone		,		,
North Central	11.4	4,255	53.1	486
North East	24.6	5,598	65.6	1,378
North West	13.8	10,883	69.1	1,505
South East	6.1	3,205	60.7	196
South South	6.1	2,787	68.3	170
South West	5.2	4,153	58.4	216
State				
North Central	8.2	212	04.0	17
FCT-Abuja	6.2 11.2	908	84.9 82.9	101
Benue Kogi	6.7	396	(38.9)	26
Kwara	8.3	497	(61.7)	41
Nasarawa	5.7	471	(86.3)	27
Niger	16.3	1,207	31.7	197
Plateau	13.3	565	49.6	75
North East				
Adamawa	10.7	714	51.3	76
Bauchi	34.1	1,317	67.2 77.7	449 101
Borno Gombe	8.9 35.0	1,140 629	77.7 71.8	101 220
Taraba	23.1	682	71.6 32.8	158
Yobe	33.4	1,118	73.5	373
North West				
Jigawa	19.1	1,277	80.8	243
Kaduna	11.8	2,039	47.9	241
Kano	17.7	2,416	79.3	428
Katsina	13.7	2,141	64.8	294
Kebbi Sokoto	9.6 18.5	1,005	62.0 74.6	97 158
Sokoto Zamfara	18.5 3.9	852 1,154	74.6 (47.4)	158 45
South East		, -	` '	
Abia	3.0	395	*	12
Anambra	3.1	999	(91.8)	31
Ebonyi	10.5	759	`54.6 [′]	80
Enugu	4.1	455	*	18
lmo	9.1	598	44.9	54

Tab	1 ما	ın	2	\sim	ntini	hai

				lren under age diarrhoea:
Background characteristic	Percentage with diarrhoea	Number of children	Percentage for whom advice or treatment was sought ¹	Number of children with diarrhoea
South South				
Akwa Ibom	8.1	480	(55.9)	39
Bayelsa	1.2	210	*	3
Cross River	4.5	300	*	13
Delta	3.8	567	*	22
Edo	4.4	382	*	17
Rivers	9.0	848	70.8	77
South West				
Ekiti	9.3	296	(39.5)	28
Lagos	4.0	1,449	(66.4)	57
Ogun	0.9	574	*	5
Ondo	6.9	395	(42.3)	27
Osun	9.0	515	(35.9)	46
Oyo	5.7	925	(83.6)	53
Mother's education				
No education	16.3	13,867	62.5	2,256
Primary	13.0	4,618	69.6	601
Secondary	9.5	9,733	66.8	925
More than secondary	6.3	2,664	68.6	168
Wealth quintile				
Lowest	18.6	6,625	61.0	1,234
Second	15.4	6,816	62.8	1,051
Middle	12.2	6,364	66.7	776
Fourth	9.7	5,816	65.2	564
Highest	6.2	5,260	81.3	325
Total	12.8	30,881	64.9	3,950

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Includes advice or treatment from the following sources: public sector, private medical sector, shop, market, itinerant drug seller, or community-oriented resource person. Excludes advice or treatment from a traditional practitioner.

See Table 2.3.1 for definition of categories.

Table 10.9 Feeding practices during diarrhoea

Percent distribution of children under age 5 who had diarrhoea in the 2 weeks preceding the survey by amount of liquids and food offered compared with normal practice, according to background characteristics, Nigeria DHS 2018

			Amo	Amount of liquids given	iven						Amount of food aiven	od aiven				Alimbor of
- Background characteristic	More	Same as usual	Somewhat less	Much less	None	Don't know/ missing	Total	More	Same as usual	Somewhat less	Much less	None	Never gave food	Don't know/ missing	Total	children with diarrhoea
Age in months																
9	8.6	49.3	22.7	13.8	4.4	0.0	100.0	4.2	36.6	21.7	12.4	1.3	23.7	0.0	100.0	315
6-11	12.7	34.5	32.3	18.4	2.0	0.2	100.0	3.9	32.6	36.6	16.6	2.0	2.0	0.2	100.0	632
12-23	15.8	32.6	33.0	16.7	1.6	0.3	100.0	3.3	31.0	41.8	20.2	3.3	0.3	0.1	100.0	1,242
24-35	9.4.6	38.0	30.7	15.1	. .	0.5	100.0	4 c	40.1	38.3	15.2	د د ض د	0.0	0.5	100.0	807
20-47 48-59	13.7	38.7	34.9 34.9	1.5 7.1	1.0	0.0	100.0	2.0 2.0	39.4 39.4	30.2 42.2	0. 4 0. 8.	1.5 1.5	0.0	0.0	100.0	537 416
Sex Maja	4 4	37.0	8 00	ر د د	4	7	000	0	с ч	2 2 2	α 4	2.2	c «	0	000	1 005
Female	14.0	35.7	33.6	14.2	2.1	4.0	100.0	3.2	35.0	40.7	15.1	3.3	2.5	0.3	100.0	1,955
Breasffeeding status Breasffeeding Not breasffeeding	11.6 16.4	35.4 38.0	32.7 30.9	17.8 13.1	2.3 1.3	0.2 0.3	100.0	2.8 1.1	31.7 39.1	38.4 38.1	17.7 16.1	3.4 2.2	6.0	0.1	100.0	1,785 2,166
Residence Urban Rural	11.9 15.2	41.2 35.0	30.2 32.3	14.6 15.5	7.7	0.7	100.0	2.6 3.9	41.7	35.5 39.4	16.1 17.1	1.9 1.9	3.2 3.2	0.3	100.0	1,171 2,779
Zone North Central North East	20.0	44.1 4.16	21.3 30.4	13.9 16.8	0.7	0.0	100.0	13.0 2.5	44.3 30.4	24.4 38.4	13.4	- 4 - 7	3.7 3.3	0.0	100.0	486 1,378
North West South East	22.3	34.1 51.6	43.2 16.4	7.8 7.8 7.4 7.5	1.7 0.7	0.0	100.0	3.6	32.3 52.1	48.9 25.4	14.0	1.5 0.0 0.0	2.0 0.3 1	0.0	100.0	1,505 196 170
South West	24.9 14.6	54 8. 8.	12.6	0. 1 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	3.0	4.7 4.8	100.0	2.0	54.1	18.4	16.6	3.0	v. 6.	0.0	100.0	216
Mother's education No education Primary Secondary More than	12.0 17.7 16.7	35.2 37.1 39.8	35.2 28.7 26.7	15.7 14.5 7.41	4. 1. 8. 1. 8. 1. 8. 1. 8. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0.0 1.0 1.0	100.0 100.0 100.0	2.7 4.0 5.1	34.2 34.1 38.7	40.5 38.1 34.5	17.4 16.0 15.8	2.6 3.9 2.6	2.6 3.4. 5.4.	0.0 0.5 0.2	100.0 100.0 100.0	2,256 601 925
secondary	17.6	41.6	22.1	15.0	2.1	1.5	100.0	2.0	45.9	28.1	17.2	. 8	t.	0.7	100.0	168
Wealth quintile Lowest	15.0	35.8	32.2	14.6	2.5	0.0	100.0	2.8	34.9	38.8	17.4	3.2	2.7	0.0	100.0	1,234
Second	13.4	33.8	35.7	15.7	- .	0.5	100.0	დ. .	30.2	43.3	16.9	2.6	3.2	0.0	100.0	1,051
Fourth Highest	14.1 17.8	39.5 39.5 39.5	27.5 21.2	5.74 5.74 5.04	. 6. 6. 5. 6. 6.	0.0	100.0	2 .5 .5 5 .5 .5	36.9 46.4	33.4 29.6	18.6 - 6.6 - 6.0	3.2.5 3.5.2	2 3 5 5 5	0.0 0.3 0.5	100.0	564 325
Total	14.2	36.8	31.7	15.2	8.	0.2	100.0	3.5	35.8	38.2	16.8	2.8	2.8	0.1	100.0	3,950
Note: It is recommended that children be given more liquids to drink during di	led that chil	Idren be give	n more liqui	ds to drink duri	ing diarrhoe	arrhoea and that food not be reduced	od not be red	luced.								

Table 10.10 Oral rehydration therapy, zinc, and other treatments for diarrhoea

Among children under age 5 who had diarrhoea in the 2 weeks preceding the survey, percentage given fluid from an ORS packet, recommended homemade fluids (RHF), ORS or RHF, zinc, ORS and zinc, ORS or increased fluids, oral rehydration therapy (ORT), continued feeding and ORT, and other treatments, and percentage given no treatment, according to background characteristics, Nigeria DHS 2018

					Percentage of	Percentage of children with diarrhoea who were given:	diarrhoea wh	o were given:						
Background	Fluid from ORS	, , sp	Either ORS		ORS and	ORS or increased	ORT (ORS, RHF, or increased	Continued feeding and	Antibiotic	Anti-motility Intravenous	Intravenous	Home remedy/	No.	Number of children with
cnaracteristic	packets	(KHF)	OF KHF	ZINC	ZINC	Inids	TINIds)	. ואַס	arugs	arugs	solution	otner	treatment	diarrnoea
Age in months	31.4	21.1	33.0	20.3	15.4	38.4	39.4	25.8	16.5	0.9	0.0	19.2	32.3	315
6-11	37.8	26.1	40.3	32.0	22.1	45.4	47.4	31.5	33.7	7.6	0.0	. 6 . 6 . 6	18 19	632
12-23	45.6	29.4	46.8	33.7	25.4	54.0	54.9	39.1	32.3	5.3	0.3	20.1	13.6	1.242
24-35	40.6	31.0	42.7	32.1	23.9	48.3	50.0	38.7	28.8	9.5	9.0	20.8	13.7	807
36-47	37.1	27.1	39.4	29.4	20.8	45.5	47.8	35.9	29.3	10.6	4.0	19.8	16.2	537
48-59	36.2	24.3	38.2	30.6	21.8	45.7	47.5	39.8	27.6	10.0	0.0	18.9	17.4	416
Sex Male	40.0	26.5	41.5	30.3	21.0	48.2	49.3	35.3	29.1	8.7	0.4	20.3	16.3	1,995
Female	40.1	28.8	42.3	32.0	24.6	48.2	50.1	37.5	30.3	7.3	0.2	19.3	16.9	1,955
Residence	C C	2.0	4	04.0	0	0	57.0	7 07	c	7	c C	0	6	7
Orban Rural	35.8	24.0 24.8 8.9	37.8	37.8 28.3	79.8 19.8	9.5.9 9.4.9	57.7 46.5	33.8 33.8	29.9 29.6	8.1	0.3	20.5	18.0	2,779
Zone	,	;		;		;		;	;	;	;	;		;
North Central	38.3	28.4	40.8	22.9	17.8	50.7	51.7	41.9	31.0	2.6	0.0	27.2	14.0	486
North East	36.8 8.08	28.2	38.2	22.0	17.5	48.6	49.9	33.7	27.1	13.6	4.0	17.5	19.1	1,378
South Fast	4.14	7. t.	43.4 44.9	4-1.9 77.5	22.0	45.0 45.4	7. 5. 7. 5. 5.	33.2 44.0	2. S.	0.00	† C	23.1	77.9	196
South South	43.3	31.2	9. 4.	32.7	21.9	55.1	55.7	37.8	27.2	; -	0.0	- 53 · - 28 · 8	11.9	170
South West	50.8	36.7	52.9	35.1	26.4	8.75	0.09	41.3	10.7	3.0	0.0	33.8	14.5	216
Mother's education														
No education	37.0	25.9	38.9	28.7	21.3	44.2	46.0	33.2	29.9	& &	0.3	18.0	18.6	2,256
Primary	43.0	29.1	6.44 6.0	28.9	21.7	53.8	55.1	40.3	28.8	8.0	0.2	23.6	14. 1. 0	601
Secondary More than secondary	42.4 8.77	29.5 36.5	44.3 5.86	35.8 8.7.8	24.3	51.4 54.7	52.6 64.8	39.1 40.8	78.3 36.0	.o. r. 4. 4	0.3	23.3 24.3	13.9	925 168
Moderate Secondary	5	9		2	5	1	9	2		t S	9	<u>.</u>	5	2
Wealth quintile	33.4	23.3	35.2	25.9	191	42.8	44.5	31.9	26.6	0	40	202	22.3	1 234
Second	36.0	25.2	38.0	25.2	18.3	44.7	46.3	84. 6.45	30.6	. c.	0.2	19.9	18.1	1.051
Middle	40.9	27.8	43.1	36.1	24.8	47.7	49.4	37.8	31.0	7.9	0.3	20.8	12.1	776
Fourth	47.6	32.7	48.7	38.7	28.0	55.3	55.9	39.2	30.2	7.4	0.3	18.0	13.4	564
Highest	63.1	43.6	65.3	45.2	37.5	68.7	70.4	51.8	34.2	3.8	0.3	18.8	6.2	325
Total	40.0	27.7	41.9	31.1	22.8	48.2	49.7	36.4	29.7	8.0	0.3	19.8	16.6	3,950

ORS = Oral rehydration salts 1 Continued feeding includes children who were given more, the same as usual, or somewhat less food during the diarrhoea episode.

Table 10.11 Source of advice or treatment for children with diarrhoea

Percentage of children under age 5 with diarrhoea in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources; among children under age 5 with diarrhoea in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources; and among children with diarrhoea who received ORS, percentage for whom advice or treatment was sought from specific sources, Nigeria DHS 2018

	Percentage for whom a	dvice or treatment was	sought from each source:
Source	Among children with diarrhoea	Among children with diarrhoea for whom advice or treatment was sought	Among children with diarrhoea who received ORS ¹
Public sector	24.1	35.7	40.1
Government hospital	6.4	9.5	12.5
Government health centre	10.9	16.2	18.0
Government health post	5.6	8.3	7.9
Mobile clinic	0.5	8.0	0.7
Fieldworker/CHW	0.6	0.9	1.1
Other	0.1	0.1	0.0
Private sector	36.6	54.1	42.7
Private hospital/clinic	2.0	3.0	3.4
Pharmacy	4.9	7.2	5.2
Chemist/PMS	29.1	43.1	33.0
Private doctor	0.1	0.2	0.3
Mobile clinic	29.1	43.1	33.0
Fieldworker/CHW	0.2	0.3	0.4
Other private sector	6.3	9.4	4.1
Shop	3.0	4.5	2.9
Traditional practitioner	2.8	4.1	0.7
Itinerant drug seller	0.2	0.3	0.1
Community-oriented resource person	0.3	0.4	0.3
Other	0.9	1.4	0.8
Number of children	3,950	2,669	1,582

CHW = Community health worker

PMS = Patent medicine store ORS = Oral rehydration salts ¹ Fluids from ORS packet

Table 10.12 Knowledge of ORS packets

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who know about ORS packets for treatment of diarrhoea, by background characteristics, Nigeria DHS 2018

Post and all	Percentage of	
Background characteristic	women who know about ORS packets	Number of women
Age		
15-19	80.3	1,210
20-24 25-34	85.8	4,211
25-34 35-49	87.7 87.3	10,458 6,033
Residence	07.0	0,000
Urban	90.9	8,712
Rural	84.2	13,199
Zone		
North Central	83.2	3,031
North East	89.1	3,862
North West South East	89.3 91.3	7,644 2,138
South South	72.9	2,019
South West	87.5	3,218
State		
North Central		
FCT-Abuja	77.4	148
Benue	82.9 76.6	637
Kogi Kwara	76.6 87.9	299 360
Nasarawa	90.4	329
Niger	81.0	844
Plateau	85.1	415
North East		
Adamawa	98.2	518
Bauchi	93.2	919
Borno Gombe	90.2 92.1	732 444
Taraba	64.2	495
Yobe	91.5	755
North West		
Jigawa	99.6	898
Kaduna	97.2	1,453
Kano Katsina	95.6 75.2	1,682 1,440
Kebbi	86.9	716
Sokoto	61.1	608
Zamfara	98.4	848
South East		
Abia	73.0	259
Anambra	96.6	664
Ebonyi Enugu	90.9 91.3	493 317
Imo	94.8	405
South South	-	
Akwa Ibom	36.8	360
Bayelsa	65.0	144
Cross River	92.2	231
Delta	68.7	408
Edo Rivers	71.7 92.3	270 606
South West	-2.0	-00
Ekiti	89.4	226
Lagos	83.9	1,142
Ogun	94.1	423
Ondo	77.5	312
Osun Oyo	89.7 91.8	409 706
Education		. 00
No education	85.5	9,738
Primary	84.7	3,293
Secondary	87.6	6,962
More than secondary	94.7	1,919

Continued...

Background characteristic	Percentage of women who know about ORS packets	Number of women
Wealth quintile		
Lowest	83.6	4,716
Second	84.1	4,850
Middle	87.2	4,448
Fourth	88.6	4,103
Highest	92.0	3,794
Total	86.8	21,911

Table 10.13 Disposal of children's stools

Percent distribution of youngest children under age 2 living with their mother by the manner of disposal of the child's last faecal matter, and percentage of children whose stools are disposed of appropriately, according to background characteristics, Nigeria DHS 2018

			Manner of	disposal of child	dren's stools			_	Percentage of children	
Background characteristic	Child used toilet or latrine	Put/rinsed into toilet or latrine	Buried	Put/rinsed into drain or ditch	Thrown into garbage	Left in the open	Other	Total	whose stools are disposed of appro- priately ¹	Number of children
Age of child in months										
0-1	8.0	39.4	1.7	17.5	35.8	4.2	0.6	100.0	41.8	1,122
2-3	1.1	43.6	1.6	13.4	37.1	2.8	0.4	100.0	46.3	993
4-5	0.7	49.3	2.2	9.2	33.5	4.7	0.4	100.0	52.2	1,104
6-8	1.7	55.4	1.4	7.6	29.4	4.2	0.3	100.0	58.5	1,650
9-11 12-17	1.7 2.1	56.3 55.7	1.1 1.7	6.4 5.7	30.4 29.3	3.7 5.0	0.4 0.4	100.0 100.0	59.1 59.5	1,457 3,434
18-23	2.6	58.1	1.7	5.4	26.5	5.1	0.6	100.0	62.4	2,426
6-23	2.1	56.4	1.5	6.1	28.7	4.7	0.4	100.0	60.1	8,967
Type of toilet	2.1	00.4	1.0	0.1	20.7	ч.1	0.4	100.0	00.1	0,007
facility ²										
Improved facility	2.4	60.2	1.1	7.3	27.1	1.7	0.3	100.0	63.7	6,261
Unimproved facility Open defecation	1.4 0.8	71.1 17.0	0.7 3.9	8.1 9.6	16.6 53.8	1.6 14.1	0.5 0.7	100.0 100.0	73.2 21.7	3,137 2,788
Residence										
Urban	3.4	50.1	1.0	6.6	35.0	3.2	0.7	100.0	54.5	4,709
Rural	0.8	55.1	2.0	8.9	27.7	5.3	0.3	100.0	57.8	7,477
Zone North Central	1.7	32.6	4.6	9.9	43.1	7.9	0.1	100.0	38.9	1,695
North East	0.9	67.3	0.6	3.6	19.4	8.1	0.0	100.0	68.9	2,200
North West	1.2	74.6	0.4	8.8	14.2	0.8	0.0	100.0	76.2	4,346
South East	4.0	27.9	3.0	7.7	45.7	9.1	2.6	100.0	34.9	1,241
South South	3.4	33.2	3.6	13.8	39.4	5.6	0.9	100.0	40.3	1,107
South West	1.6	30.6	0.7	6.0	59.1	1.4	0.6	100.0	32.9	1,597
State North Central										
FCT-Abuja	0.2	38.6	2.5	7.0	51.7	0.0	0.0	100.0	41.3	83
Benue	0.4	37.9	15.8	5.2	39.7	1.0	0.0	100.0	54.1	356
Kogi	0.7	6.1	0.6	7.1	84.2	0.8	0.5	100.0	7.4	154
Kwara	0.0	27.3	6.1	17.2	33.1	16.4	0.0	100.0	33.4	201
Nasarawa	12.5	63.5	0.0	7.8	15.3	0.9	0.0	100.0	76.0	177
Niger	8.0	30.7	0.5	11.3	47.3	9.2	0.1	100.0	32.0	510
Plateau	0.0	24.1	2.2	12.6	38.6	22.6	0.0	100.0	26.2	214
North East Adamawa	2.0	64.3	0.0	1.0	31.4	1.3	0.0	100.0	66.3	302
Bauchi	1.4	77.0	0.0	1.2	20.3	0.0	0.0	100.0	78.5	551
Borno	0.0	93.7	0.0	0.0	2.8	3.5	0.0	100.0	93.7	395
Gombe	1.5	68.2	0.2	4.8	15.0	10.3	0.0	100.0	69.9	256
Taraba	0.0	64.7	1.9	2.1	13.1	18.0	0.2	100.0	66.6	280
Yobe	0.6	32.8	1.9	12.4	32.0	20.4	0.0	100.0	35.3	415
North West Jigawa	0.0	73.0	1.0	4.0	20.7	1.3	0.0	100.0	74.0	510
Jigawa Kaduna	0.0	73.0 62.6	0.2	4.0 27.5	20.7 8.9	0.4	0.0	100.0	63.2	819
Kano	4.1	90.7	0.2	3.1	2.1	0.0	0.0	100.0	94.8	934
Katsina	0.0	86.1	0.7	3.5	6.8	2.9	0.0	100.0	86.8	835
Kebbi	0.7	48.9	0.0	9.2	41.2	0.0	0.0	100.0	49.6	413
Sokoto	0.6	52.4	1.5	4.1	40.7	0.7	0.0	100.0	54.5	344
Zamfara	1.3	83.2	0.0	5.5	10.1	0.0	0.0	100.0	84.5	491
South East Abia	0.6	51.2	0.9	8.1	38.0	1.3	0.0	100.0	52.7	146
Anambra	2.3	25.6	3.5	6.7	54.0	6.7	1.1	100.0	31.4	416
Ebonyi	3.8	21.2	0.2	10.2	38.3	16.7	9.6	100.0	25.3	292
Enugu	15.9	22.0	3.1	5.9	47.8	5.4	0.0	100.0	41.0	171
Imo	0.4	30.2	7.1	7.5	43.0	11.8	0.0	100.0	37.7	216

Continued...

Table 10.13—Continued

			Manner of	disposal of child	dren's stools				Percentage of children whose stools	
Background characteristic	Child used toilet or latrine	Put/rinsed into toilet or latrine	Buried	Put/rinsed into drain or ditch	Thrown into garbage	Left in the open	Other	Total	are disposed of appro- priately ¹	Number of children
South South										
Akwa Ibom	2.0	73.6	0.7	8.4	12.1	0.9	2.4	100.0	76.2	200
Bayelsa	1.9	45.1	0.4	19.6	33.1	0.0	0.0	100.0	47.3	86
Cross River	0.4	30.8	10.6	14.8	42.4	1.0	0.0	100.0	41.8	113
Delta	11.8	17.6	0.4	16.4	31.7	20.7	1.4	100.0	29.8	228
Edo	1.3	22.0	6.3	3.4	65.0	2.0	0.0	100.0	29.6	143
Rivers	1.0	22.3	4.9	17.9	50.4	2.6	8.0	100.0	28.2	337
South West										
Ekiti	0.0	28.5	3.0	9.2	43.6	15.7	0.0	100.0	31.5	124
Lagos	0.7	33.8	0.0	1.0	63.7	0.4	0.4	100.0	34.4	558
Ogun	0.0	52.0	0.0	12.0	36.1	0.0	0.0	100.0	52.0	216
Ondo	0.0	26.8	0.5	20.6	47.0	0.0	5.1	100.0	27.3	148
Osun	5.2	34.8	0.0	10.0	50.0	0.0	0.0	100.0	40.0	184
Oyo	3.5	13.2	1.6	1.2	80.2	0.3	0.0	100.0	18.3	367
Mother's education										
No education	0.6	61.8	1.2	8.3	23.3	4.8	0.1	100.0	63.6	5,427
Primary	1.4	53.4	1.7	8.7	27.9	5.9	0.9	100.0	56.6	1,752
Secondary More than	2.7	44.1	2.3	8.1	37.8	4.4	0.7	100.0	49.0	3,975
secondary	5.1	42.3	1.1	4.8	44.9	1.0	0.7	100.0	48.5	1,032
Wealth quintile										
Lowest	0.4	49.5	2.2	6.7	31.7	9.0	0.4	100.0	52.1	2,619
Second	0.4	58.5	1.7	8.3	25.1	5.3	0.6	100.0	60.7	2,744
Middle	1.6	58.2	2.1	11.8	22.5	3.4	0.4	100.0	61.9	2,508
Fourth	2.6	53.3	1.0	8.1	32.0	2.7	0.2	100.0	56.9	2,282
Highest	4.6	44.2	8.0	4.4	44.3	0.9	0.6	100.0	49.7	2,032
Total	1.8	53.1	1.6	8.0	30.5	4.5	0.5	100.0	56.5	12,186

¹ Children's stools are considered to be disposed of safely if the child used a toilet or latrine, if the faecal matter was put/rinsed into a toilet or latrine, or if it was buried. ² See Table 2.3.1 for definition of categories.

Key Findings

- Nutritional status of children: 37% of Nigerian children age 6-59 months are stunted (short for their age), 7% are wasted (thin for their height), 22% are underweight (thin for their age), and 2% are overweight (heavy for their height).
- Breastfeeding: Almost all (97%) children born in the 2 years before the survey were breastfed at some point; 29% of children under age 6 months are exclusively breastfed.
- Minimum acceptable diet: Only 11% of children age 6-23 months were fed a minimum acceptable diet in the 24 hours before the survey.
- Anaemia: 68% of children age 6-59 months and 58% of women age 15-49 are anaemic.
- Sickle cell: 20% of children age 6-59 months have sickle cell trait and 1% have sickle cell disease.
- Salt iodisation: Almost all (97%) households with tested salt have iodised salt.
- Nutritional status of women: 12% of women age 15-49 are thin (a body mass index [BMI] below 18.5), while 28% are overweight or obese.
- Minimum dietary diversity for women: 56% of women age 15-49 consumed food from five or more of 10 specified food groups in the day or night preceding the interview.

his chapter focuses on nutritional status and anaemia among children and adults. It also reports on infant and young child feeding practices, including breastfeeding and complementary feeding, as well as micronutrient supplementation and deworming for children and pregnant women and the presence of iodine in household cooking salt.

11.1 NUTRITIONAL STATUS OF CHILDREN

The distribution of height and weight among children under age 5 was compared against the WHO Child Growth Standards reference population (WHO 2006). A well-nourished population will be similar to the reference population, while a poorly nourished population will differ from the reference population. Three indices—height-for-age, weight-for-height, and weight-for-age—can be expressed in standard deviation units (Z-scores) from the median of the reference population, with values greater than two standard deviations from the median of the WHO Child Growth Standards used to define malnutrition.

Stunting, or low height-for-age, is a sign of chronic undernutrition that reflects failure to receive adequate nutrition over a long period of time. The most direct causes of stunting are inadequate nutrition (not eating enough or eating foods that lack growth-promoting nutrients) and recurrent infections or chronic diseases that cause poor nutrient intake and absorption.

Wasting, or low weight-for-height, is a measure of acute undernutrition and represents the failure to receive adequate nutrition in the period immediately before the survey. Wasting may result from inadequate food intake or from a recent episode of illness or infection causing weight loss.

Overweight, or high weight-for-height, is a measure of overnutrition and results from an imbalance between energy consumed (too much) and energy expended (too little).

Underweight, or low weight-for-age, is a composite index of weight-for-height and height-for-age reflecting both acute (wasting) and chronic (stunting) undernutrition.

Stunting (assessed via height-for-age)

Height-for-age is a measure of linear growth retardation and cumulative growth deficits. Children whose height-for-age Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are considered short for their age (stunted), or chronically undernourished. Children whose Z-score is below minus three standard deviations (-3 SD) from the median are considered severely stunted.

Sample: Children under age 5

Wasting (assessed via weight-for-height)

The weight-for-height index measures body mass in relation to body height or length and describes acute nutritional status. Children whose weight-for-height Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are considered thin (wasted), or acutely undernourished. Children whose Z-score is below minus three standard deviations (-3 SD) from the median are considered severely wasted.

Sample: Children under age 5

Underweight (assessed via weight-for-age)

Weight-for-age is a composite index of height-for-age and weight-for-height. It takes into account both acute and chronic undernutrition. Children whose weight-for-age Z-score is below minus two standard deviations (-2 SD) from the median of the reference population are classified as underweight. Children whose Z-score is below minus three standard deviations (-3 SD) from the median are considered severely underweight.

Sample: Children under age 5

Overweight (assessed via weight-for-height)

Children whose weight-for-height Z-score is more than two standard deviations (+2 SD) above the median of the reference population are considered overweight.

Sample: Children under age 5

The means of the Z-scores for height-for-age, weight-for-height, and weight-for-age are also calculated as summary statistics representing the nutritional status of children in a population. These mean scores describe the nutritional status of the entire population of children without the use of a cut-off point. A mean Z-score of less than 0 (i.e., a negative mean value for stunting, wasting, or underweight) suggests a downward shift in the entire sample population's nutritional status relative to the reference population. The farther away mean Z-scores are from 0, the higher the prevalence of malnutrition.

11.1.1 Anthropometry Training and Data Collection

Laboratory scientists and nurses were trained to measure the height and weight of children and adults. Training on child height measurement included standardisation exercises (and re-standardisation exercises for those who did not pass the standardisation exercises); results of these exercises are provided in Appendix Table C.7.

Children younger than age 24 months were measured lying down (recumbent length); older children and adults were measured standing up (height). Weight measurements were taken using SECA scales with a digital display (model number SECA 878U). Height and length were measured with a Shorr Board® measuring board.

The survey identified a total of 12,806 children under age 5 who were eligible for height and weight measurements. Valid height-for-age measurements were obtained for 97% of eligible children (0.9% of the invalid data was the result of implausible values). Similarly, valid weight-for-height measurements were obtained for 97% of eligible children (0.6% of the invalid data was the result of implausible values), and valid weight-for-age measurements were obtained for 97% of eligible children (0.2% of the invalid data was the result of implausible values). Appendix Table C.3 and Appendix Table C.8 provide additional information on the completeness and quality of anthropometry data for children.

To assess precision of measurements, one child per cluster was randomly selected to be measured a second time. A difference of 1 centimetre or less between the two height measurements was defined as an acceptable level of precision. Children with a Z-score of less than -3 or more than 3 for height-for-age, weight-for-height, or weight-for-age were flagged and measured a second time. Re-measurement of flagged cases was performed to ensure accurate reporting of height and weight measurements.

Calculation of Z-scores was based on the first measurement among children randomly selected for remeasurement and on the second measurement among children flagged for subsequent re-measurement. The re-measurement completion rate was 99% for both randomly selected for re-measurement and those flagged for re-measurement. Appendix Table C.9 provides additional information on re-measurement data.

11.1.2 Levels of Child Malnutrition

Table 11.1 shows that 37% of children under age 5 are stunted (too short for their age) and 17% are severely stunted. Seven percent are wasted (too thin for their height), with 2% being severely wasted. Twenty-two percent of children are underweight (too thin for their age), and 7% are severely underweight. Only 2% of children are overweight.

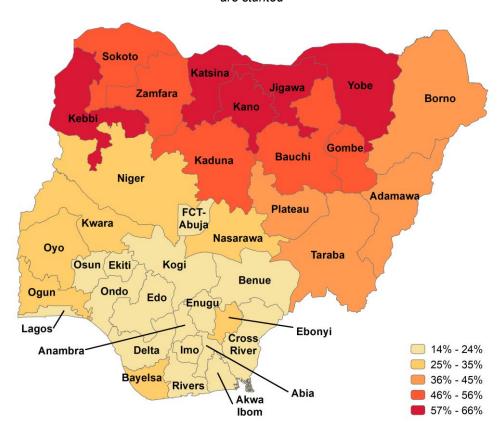
The development and implementation of the National Strategic Plan of Action for Nutrition (2014-2019) has been an important step forward. There has been effective coordination of stakeholders and increased government commitment to funding, as exemplified by the annual releases of 1.2 billion Naira in the last 2 years for the procurement of ready-to-use therapeutic food, the establishment of community-based management of acute malnutrition sites across the country, and other interventions.

Patterns by background characteristics

• The prevalence of stunting increases from 19% among children less than 6 months to a peak of 47% among children age 24-35 months. This represents the impact of undernutrition in the first 1,000 days of life. Wasting, on the other hand, is more prevalent (15%) among children age 9-11 months.

Figure 11.1 Stunting in children by state

Percentage of children under age 5 who are stunted



- There are wide variations by zone in the prevalence of stunting. The proportion of children who are stunted is highest in the North West (57%) and lowest in the South East (18%). By state, stunting is most prevalent in Kebbi (66%) and least prevalent in Anambra (14%) (**Figure 11.1**).
- The proportion of children who are wasted is approximately twice as high in the North East (10%) and North West (9%) as in the other zones (4%-6%).
- Children reported to be small or very small at birth are more likely to be stunted, wasted, or underweight than children reported to be average or larger at birth. For example, children reported to be very small at birth are nearly three times as likely to be wasted as children reported to be average or larger at birth (17% versus 6%).
- Children whose mothers are thin (a body mass index [BMI] below 18.5) are more likely to be stunted, wasted, or underweight than children whose mothers have a normal BMI and children whose mothers are overweight or obese. The prevalence of stunting in children whose mothers are thin is twice that (49%) of children whose mothers are overweight or obese (23%).
- The prevalence of stunting, wasting, and underweight is almost twice as high among children in rural areas (45%, 8%, and 27%, respectively) as among those in urban areas (27%, 5%, and 15%, respectively).

The proportions of children who are stunted, wasted, and underweight decline substantially with increasing mother's education and household wealth. For example, the prevalence of stunting is 54%, among children whose mothers have no education, as compared with 14% among those whose mothers have more than a secondary education (Figure 11.2).

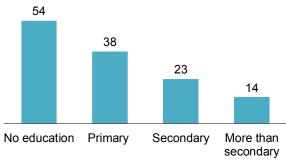
11.2 INFANT AND YOUNG CHILD FEEDING PRACTICES

Appropriate infant and young child feeding (IYCF) practices include early initiation of breastfeeding (within the first hour of life), exclusive breastfeeding

in the first 6 months of life, continued breastfeeding for 2 years or more, and introduction of safe, appropriate, and adequate complementary foods at age 6 months (WHO 2008).

Figure 11.2 Stunting in children by mother's education

Percentage of children under age 5 who are stunted



11.2.1 Early Initiation of Breastfeeding

Initiation of breastfeeding within the first hour of life is important for both the mother and the child. The first breast milk contains colostrum, which is highly nutritious and has antibodies that protect the newborn from diseases. Early initiation of breastfeeding also encourages bonding between the mother and her newborn, facilitating the production of regular breast milk.

Early initiation of breastfeeding

Initiation of breastfeeding within 1 hour of birth.

Sample: Last-born children who were born in the 2 years before the survey

In May 2014, the Federal Ministry of Health introduced the health sector component of the National Food and Nutrition Policy and the National Strategic Plan of Action for Nutrition (2014-2019). The goal of these initiatives is to improve the nutritional status of Nigerian people throughout their life cycle, with a particular focus on vulnerable groups such as women of reproductive age and children under age 5 (Federal Ministry of Health 2014a).

Table 11.2 shows that 97% of last-born children born in the 2 years before the survey were breastfed at some point. Two-fifths (42%) of children were breastfed within 1 hour of birth, and 82% were breastfed within 1 day of birth. Nearly half of children (49%) received a prelacteal feed.

Trends: The percentage of children who had ever been breastfed was 97% in both 2008 and 2018. The percentage of children who started breastfeeding within 1 hour of birth has increased by 9 percentage points since 2013, from 33% to 42%, while the percentage who started breastfeeding within 1 day has increased from 65% to 82% since 2008. The percentage of children receiving a prelacteal feed has decreased from 56% to 49% since 2008.

Patterns by background characteristics

- Early initiation of breastfeeding is more common among children whose deliveries were assisted by health personnel (50%) than among those whose deliveries were assisted by traditional birth attendants (33%), no one (36%), or others (37%).
- Infants in urban areas were more likely to start breastfeeding within 1 hour of birth (49%) and less likely to receive a prelacteal feed (43%) than those in rural areas (38% and 53%, respectively).

- Children born to mothers with more than a secondary education were more likely to start breastfeeding within an hour of birth (52%) than children born to mothers with no education (34%). Conversely, children born to mothers with no education (60%) were more likely than those born to mothers with a secondary education or higher (38%) to receive a prelacteal feed.
- Early initiation of breastfeeding increases with increasing wealth (from 31% among children in the lowest quintile to 54% among those in the highest quintile), while prelacteal feeding decreases with increasing wealth (from 56% among children in the lowest quintile to 38% among children in the highest quintile).

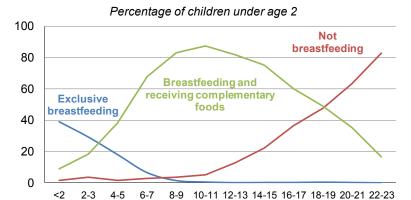
11.2.2 Exclusive Breastfeeding and Continued Breastfeeding

Breast milk contains all of the nutrients needed by children during their first 6 months of life. It is recommended that children be exclusively breastfed in the first 6 months of their life; that is, they should be given nothing but breast milk. Exclusive breastfeeding for 6 months prevents infections such as diarrhoea and respiratory illnesses and provides all of the nutrients an infant requires for optimal growth and development. Feeding complementary foods within the first 6 months will have the adverse effect of reducing breast milk output because the production and release of breast milk are modulated by the frequency and intensity of suckling. Breastfeeding should continue for the first 2 years of life.

Exclusive breastfeeding

Proportion of children age 0-5 months who are fed exclusively with breast milk. **Sample:** Last-born children who were born in the 2 years before the survey

Breastfeeding status was ascertained for last-born children under age 2 who are currently living with their mother. Twentynine percent of children under age 6 months are exclusively breastfed. Exclusive breastfeeding declines with age, from 39% among children age 0-1 months to 29% among those age 2-3 months and 18% among those age 4-5 months. Thirty-nine percent of children age 0-5 months are breastfeeding and consuming plain water only; this



Age in months

Figure 11.3 Breastfeeding practices by age

practice tends to decrease the exclusive breastfeeding rate. The proportion of children who are breastfeeding and consuming complementary foods first increases with age (peaking at 86% among children age 9-11 months) and then falls among children age 12-23 months (as older children stop breastfeeding). Eighty-three percent of children are breastfeeding at 1 year, and 28% are breastfeeding at 2 years. The proportion of children who are not breastfeeding increases with age, from 2% among those age 0-1 months to 62% among those age 18-23 months (**Table 11.3**, **Table 11.4**, and **Figure 11.3**).

Trends: Exclusive breastfeeding among children age 0-5 months has increased since 2013, from 17% to 29%.

11.2.3 Median Duration of Breastfeeding

The median duration of any breastfeeding among children born in the 3 years before the survey is 18.5 months, while the median duration of predominant breastfeeding (either exclusively breastfed or breastfed

and receiving plain water and/or non-milk liquids) is 4.9 months (**Table 11.5**). The average duration of exclusive breastfeeding is 2.8 months.

Trends: The median duration of any breastfeeding increased slightly from 18.3 months in 2013 to 18.5 months in 2018, while the median duration of predominant breastfeeding increased from 4.4 months to 4.9 months. The mean duration of exclusive breastfeeding increased from 1.8 months to 2.8 months.

Patterns by background characteristics

- The median duration of any breastfeeding is 20.0 months among children in rural areas, as compared with 16.3 months among children in urban areas.
- The median duration of predominant breastfeeding is longest among children in the North East (6.2 months) and South West (5.5 months) and shortest in the South South (3.1 months).
- Breastfeeding patterns are similar according to mother's education and household wealth. The median duration of any breastfeeding is 21.4 months each among mothers with no education and those in the lowest wealth quintile, while the median durations are 14.6 and 14.5 months, respectively, among those with more than a secondary education and those in the highest wealth quintile.

11.2.4 Bottle Feeding

The nipple on a feeding bottle is susceptible to contamination and increases disease risk among children. Thus, bottle feeding is not recommended for children under age 2 (WHO 2005).

Bottle feeding

Proportion of children age 0-23 months who are fed from a bottle with a nipple. **Sample:** Last-born children who were born in the 2 years before the survey

Twelve percent of children age 0-1 months are fed using a bottle with a nipple. The proportion of children using a bottle with a nipple peaks at age 4-5 months (19%). Overall, 12% of children age 0-23 months are fed from a bottle with a nipple (**Table 11.3** and **Table 11.4**).

11.2.5 Introduction of Complementary Foods

After the first 6 months, breast milk alone is no longer sufficient to meet the nutritional needs of an infant. After 6 months, appropriate complementary foods should be introduced while breastfeeding is continued until age 2 or older. The transition from exclusive breastfeeding to complementing breastfeeding with family foods is when children are most vulnerable to becoming undernourished, and during this time it is important that they receive solid, semisolid, or soft foods.

Appropriate complementary feeding should include feeding children a variety of foods to ensure that nutrient requirements are met. Fruits and vegetables rich in vitamin A should be consumed daily. Eating a range of fruits and vegetables, in addition to those rich in vitamin A, is also important. Studies have shown that plant-based complementary foods by themselves are insufficient to meet the needs for certain micronutrients. Therefore, it has been recommended that meat, poultry, fish, or eggs be part of the daily diet or eaten as often as possible (WHO 2003).

Table 11.6 indicates the types of foods and liquids consumed by children under age 2 during the day and night before the interview by their age and breastfeeding status. Generally, in each age group, consumption of all types of foods is higher among nonbreastfeeding children than among breastfeeding children.

The most common foods given to children age 6 to 23 months are foods made from grains (78% among breastfeeding children and 90% among nonbreastfeeding children). Children less often consume meat, fish,

and poultry (27% among breastfeeding children and 59% among nonbreastfeeding children). Thirty-seven percent of breastfeeding children are given fruits and vegetables rich in vitamin A, as compared with 57% of nonbreastfeeding children. Moreover, only 13% of breastfeeding children and 28% of nonbreastfeeding children are fed eggs. Consumption of infant formula is low among both breastfeeding (6%) and nonbreastfeeding (7%) children age 6-23 months.

11.2.6 Minimum Dietary Diversity, Minimum Meal Frequency, and Minimum Acceptable Diet

Infants and young children should be fed a minimum acceptable diet to ensure appropriate growth and development. Without adequate diversity and meal frequency, infants and young children are vulnerable to undernutrition, especially stunting and micronutrient deficiencies, and to increased morbidity and mortality. The WHO minimum acceptable diet recommendation is a combination of minimum dietary diversity and minimum meal frequency. The indicators are defined in the box below.

Minimum dietary diversity is a proxy for adequate micronutrient density of foods. Consumption of food from at least five groups means that the child has a high likelihood of consuming at least one animal source of food and at least one fruit or vegetable in addition to a staple food such as grains, roots, or tubers (WHO 2008). The five groups should come from a list of eight food groups: breast milk; grains, roots, and tubers; legumes and nuts; dairy products (milk, yogurt, and cheese); flesh foods (meat, fish, poultry, and liver/organ meat); eggs; vitamin A-rich fruits and vegetables; and other fruits and vegetables.

Minimum meal frequency is a proxy for meeting energy requirements. Breastfed children age 6-8 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least twice a day. Breastfed children age 6-23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods at least three times a day. Nonbreastfed children age 6-23 months are considered to be fed with a minimum meal frequency if they receive solid, semisolid, or soft foods or milk feeds at least four times a day and if at least one of the feeds is a solid, semisolid, or soft food.

Minimum dietary diversity

Proportion of children age 6-23 months who received a minimum of five out of eight food groups during the previous day.

Minimum meal frequency

Proportion of children age 6-23 months who received solid, semisolid, or soft food (including milk feeds for nonbreastfed children) the minimum number of times or more during the previous day.

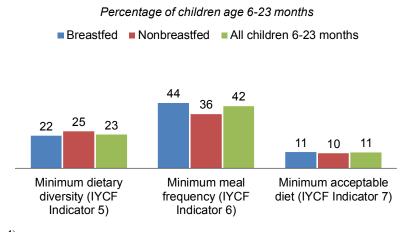
Minimum acceptable diet

Proportion of children age 6-23 months who receive a minimum acceptable diet. This indicator is a composite of children fed with a minimum dietary diversity and a minimum meal frequency.

Sample: Youngest children age 6-23 months living with their mother

Minimum dietary diversity, minimum meal frequency, and appropriate milk feeds together constitute a child's minimum acceptable diet. Eleven percent of children age 6-23 months living with their mother were fed a minimum acceptable diet in the 24 hours preceding the interview. Twenty-three percent of children had an adequately diverse diet in which they had been given foods from at least five food groups, and 42% had been fed the minimum number of times appropriate for their age (Table 11.7 and Figure 11.4).

Figure 11.4 IYCF indicators on minimum acceptable diet



Patterns by background characteristics

- Similar proportions of nonbreastfed (10%) and breastfed (11%) children are fed a minimum acceptable diet.
- Children in urban areas (14%) are more likely to be fed according to the minimum acceptable dietary standards than those in rural areas (9%).
- The proportion of children receiving a minimum acceptable diet ranges from 5% in the North Central zone to 16% in the South East.
- The proportion of children receiving a minimum acceptable diet rises with increasing mother's education, from 7% among children whose mothers have no education to 23% among children whose mothers have more than a secondary education. Similarly, the proportion of children receiving a minimum acceptable diet increases with increasing household wealth, from 8% to 19%.

11.3 ANAEMIA PREVALENCE IN CHILDREN

Anaemia status	Haemoglobin level in grams/decilitre*
naemic	<11.0
Mildly anaemic	10.0-10.9
Moderately anaemic	7.0-9.9
Severely anaemic	<7.0
Not anaemic	11.0 or higher
Haemoglobin levels a	are adjusted for altitude in
numeration areas that	at are above 1,000 metres.

Anaemia is a condition that is marked by low levels of haemoglobin in the blood. Iron deficiency is a common cause of anaemia and is estimated to be responsible for half of all anaemia cases in women and children globally. Other causes of anaemia include malaria, hookworm and other helminths, other nutritional deficiencies, chronic infections, and genetic conditions such as thalassemia. Anaemia is a serious concern for children because it can impair cognitive development and is associated with long-term

health and economic consequences (Balarajan et al. 2011). Severe anaemia leads to increased mortality. The HemoCue® Hb 201+ device was used to measure haemoglobin levels from a finger-stick blood sample, which was then used to determine anaemia levels in the population.

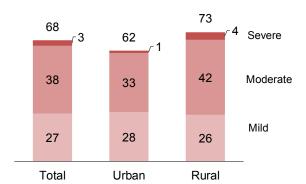
In the 2018 NDHS, haemoglobin testing was performed for children age 6-59 months using the methodology described in Chapter 1. The testing was successfully completed for 97% of eligible children. Sixty-eight percent of children had anaemia, with 27% having mild anaemia, 38% having moderate anaemia, and 3% having severe anaemia (**Table 11.8**).

Patterns by background characteristics

The prevalence of anaemia is higher among younger (age 6-23 months) than older (age 24-59 months) children, with a peak prevalence of 81% among children age 12-17 months.

Figure 11.5 Childhood anaemia by residence

Percentage of children age 6-59 months



• Children in rural areas (73%) are more likely to be anaemic than those in urban areas (62%) (**Figure 11.5**).

Sokoto Katsina Yobe Jigawa Zamfara **Borno** Kano Kebbi Gombe Bauchi Kaduna Niger Plateau FCT Kwara Abuja Nasarawa Oyo **Taraba** Osun Ekiti Kogi Benue Ondo Ogun Edo Enugu Lagos Ebonyi Cross 48% - 55% Anambra Delta Imo 56% - 62% Bayelsa 63% - 70% Rivers Abia 71% - 77% Akwa 78% - 84% Ibom

Figure 11.6 Anaemia in children by state

Percentage of children age 6-59 months with any anaemia

• The prevalence of severe anaemia is highest in the North West and North East (4% each) and lowest in the South West (1%). By state, Zamfara has the highest prevalence (10%), while Lagos has the lowest (less than 1%). There are wide disparities in the prevalence of severe anaemia among states in the

North West. For example, the prevalence is 1% in Kaduna, 5% in Sokoto, and, as noted, 10% in Zamfara (**Figure 11.6**).

• The prevalence of anaemia generally decreases with increasing mother's education and household wealth.

11.4 PREVALENCE OF SICKLE CELL TRAIT AND DISEASE IN CHILDREN

The 2018 NDHS, for the first time in a DHS survey, collected information on sickle cell disease (SCD) and sickle cell trait (SCT). Various sources have pointed to sickle cell disease being a major public health issue in Nigeria. The prevalence of sickle cell trait ranges between 10% and 45% in various parts of sub-Saharan Africa (WHO AFRO 2013). The National Strategic Plan of Action on Prevention and Control of Non-Communicable Diseases under Nigeria's Federal Ministry of Health has estimated that approximately 24% of Nigerians have SCT (Federal Ministry of Health 2015a). Also, it is estimated that when the prevalence of SCT is above 20%, SCD can be as high as 2% (Federal Ministry of Health 2015a). According to this estimation, over 3.4 million Nigerians currently have SCD (Federal Ministry of Health 2015a). This disorder manifests early in life and has diverse clinical complications, including cardiovascular and renal diseases, thus fuelling major noncommunicable diseases (NCDs). In addition, SCD patients experience different degrees of stigmatisation and discrimination in society. Although a policy on universal newborn screening was introduced in 2011 in Nigeria, the policy needs to be updated to accommodate recent knowledge and trends in detection and treatment of the disease.

Blood collection for genotype testing was carried out in a subsample of 14,000 households selected for the men's survey. In total, 11,536 (unweighted) children were eligible for the test, of whom 97% were successfully tested. In the 25% of households where genotype testing was done, a confirmatory test was conducted. The test was done in the standard laboratory for high-performance liquid chromatography (HPLC) confirmatory testing at the International Foundation Against Infectious Disease in Nigeria (IFAIN) in Abuja. Test results obtained from SickleSCAN were compared with the HPLC diagnostics. The results of the comparison showed a diagnostic sensitivity of 85%, a specificity of 98%, a positive predictive value of 91%, and a negative predictive value of 96%. These diagnostic results indicate that the estimates obtained from the SickleSCAN are valid.

Table 11.9 shows that 20% of children age 6-59 months have SCT (HbAS) and 2% have the haemoglobin C trait (HbAC). The prevalence of SCD among children is 1% (HbSS and HbSC).

Patterns by background characteristics

- There are no substantial differences in the prevalence of SCD in relation to age, gender, or place of residence.
- The prevalence of SCD is highest in the South West (2%) and lowest in the South South (0.3%).
- Overall, the prevalence of SCT is similar across background characteristics. The prevalence is highest in the South West (21% for HbAS and 5% for HbAC).

11.5 Presence of lodised Salt in Households

Iodine is a micronutrient that plays an important role in thyroid function. In line with food and drug regulations, household salt should be fortified with iodine. Sufficient iodine prevents goitre, brain damage, and other thyroid-related health problems.

The 2018 NDHS tested for the presence of iodine in household salt in the form of potassium iodate. Salt was tested for the presence or absence of iodine only; the iodine content of the salt was not measured. All households were asked if they had salt and, if so, if that salt could be tested. In total, 4% of households had no salt and 3% had salt that was not tested. Salt was tested in 94% of households, and among households

in which salt was tested 97% had iodised salt (**Table 11.10**). The proportion of households without salt was highest in the North Central zone (7%), and 9% of the households in that zone where salt was tested did not have iodised salt. Among households with tested salt, Zamfara had the lowest percentage with iodised salt (63%), followed by Niger (67%).

11.6 MICRONUTRIENT INTAKE AND SUPPLEMENTATION AMONG CHILDREN

Micronutrient deficiency is a major contributor to childhood morbidity and mortality. Micronutrients are available in foods and can also be provided through direct supplementation.

The information collected on food consumption among children age 6-23 months is useful in assessing the extent to which children are consuming food groups rich in two key micronutrients in their daily diet: iron and vitamin A. Iron plays an important role in numerous biological systems and iron deficiency is one of the primary causes of anaemia, which has serious health consequences for children. Vitamin A supports the immune system and plays an important role in maintaining the epithelial tissue in the body. Severe vitamin A deficiency (VAD) can cause eye damage and is the leading cause of childhood blindness. VAD also increases the severity of infections such as measles and diarrhoeal disease and slows recovery from illness.

Table 11.11 presents information on consumption of foods rich in vitamin A and iron in the 24 hours preceding the survey among children age 6-23 months who are living with their mother. It also provides information on micronutrient supplementation and deworming among children age 6-59 months. Overall, 59% of children age 6-23 months consumed food rich in vitamin A in the 24 hours preceding the survey, and 41% consumed foods rich in iron. Seventeen percent of children age 6-59 months were given iron supplements in the past 7 days, 45% were given vitamin A supplements in the past 6 months, and 25% were given deworming medication in the past 6 months.

Trends: The percentage of children age 6-23 months who consumed foods rich in vitamin A increased from 52% in 2013 to 59% in 2018. Similarly, the percentage of children consuming foods rich in iron increased from 35% to 41% in the same period. Also, there were increases in the percentage of children age 6-59 months who received vitamin A supplements (from 41% to 45%) and deworming medication (from 20% to 25%).

Patterns by background characteristics

- Children in urban areas (56%) are more likely to receive a vitamin A supplement than those in rural areas (39%).
- The proportion of children given deworming medication is almost twice as high in urban areas (35%) as in rural areas (19%).
- Children in the northern zones (North Central, North East, and North West) consume fewer foods rich in vitamin A and iron than those in the southern zones (South East, South South, and South West).
- In general, the proportion of children consuming foods rich in vitamin A and iron and the proportion receiving vitamin A supplements, iron supplements, and deworming medication increase with increasing mother's education and household wealth.

11.7 WOMEN'S NUTRITIONAL STATUS

Chronic energy deficiency is caused by eating too little or having an unbalanced diet that lacks adequate nutrients. Women of reproductive age are especially vulnerable to chronic energy deficiency and malnutrition due to low dietary intakes, inequitable distribution of food within the household, improper food storage and preparation, dietary taboos, infectious diseases, and inadequate care practices. It is well known that chronic energy deficiency leads to low productivity among adults and is related to heightened

morbidity and mortality. In addition, chronic undernutrition among women is a major risk factor for adverse birth outcomes. Overnutrition has adverse health outcomes as well. Overweight and obesity are major risk factors for a number of chronic diseases, including diabetes, cardiovascular diseases, and cancer.

Body mass index (BMI)

BMI is calculated by dividing weight in kilograms by height in metres squared (kg/m²).

Status	ВМІ
Too thin for height	Less than 18.5
Normal	Between 18.5 and 24.9
Overweight	Between 25.0 and 29.9
Obese	Greater than or equal to 30.0

Sample: Women age 15-49 who are not pregnant and who have not had a birth in the 2 months before the survey

Short stature

Proportion of women with height under 145 cm.

Sample: Women age 15-49

The 2018 NDHS collected anthropometric data on height and weight among women age 15-49. These data were used to calculate measures of nutritional status such as maternal height and body mass index (BMI). The results showed that 60% of women have a normal BMI, while 12% are thin and 28% are overweight or obese; the mean BMI among women is 23.3. One percent of women are of short stature (**Table 11.12**).

Trends: The proportion of women age 15-49 who are thin has remained stable over the past 10 years at 12%. On the other hand, the proportion of women who are overweight or obese has increased during that period, from 22% in 2008 to 28% in 2018.

Patterns by background characteristics

- In general, the prevalence of short stature decreases with increasing education and wealth, while the prevalence of overweight or obesity rises with increasing education and wealth. For example, 49% of women with a secondary education or higher are overweight or obese, as compared with 16% of those with no education. Similarly, 46% of women in the highest wealth quintile are overweight or obese, compared with only 9% of women in the lowest quintile.
- The proportion of women who are of normal weight declines with age, from 67% among those age 15-19 to 52% among those age 40-49. More younger women (age 15-19) (25%) than older women (age 40-49) (6%) are thin.
- The percentage of women who are overweight or obese is higher in urban than rural areas (36% versus 21%), whereas the percentage of women who are thin is higher in rural areas (14% versus 10%).
- Women in the southern zones (South East, South South, and South West) are more likely to be overweight or obese than women in the northern zones (North Central, North East, and North West). Forty percent, 43%, and 38% of women in the South East, South South, and South West zones, respectively, are overweight or obese, as compared with 26%, 15%, and 16% of women in the North Central, North East, and North West zones.

11.8 ANAEMIA PREVALENCE IN WOMEN

Haemoglobin levels below which women are considered anaemic

Respondents	Haemoglobin level in grams/decilitre*
Non-pregnant women age 15-49	Less than 12.0
Pregnant women age 15-49	Less than 11.0
*Haemoglobin levels are adjusted to	or cigarette smoking and

*Haemoglobin levels are adjusted for cigarette smoking and for altitude in enumeration areas that are above 1,000 meters.

The procedure used to measure anaemia among women age 15-49 was similar to that used for children age 6-59 months except that capillary blood was collected exclusively from a finger prick. The methodology employed for haemoglobin testing is described in detail in Chapter 1.

Anaemia is a major concern among women, leading to increased maternal mortality and poor birth outcomes as well as reductions in work productivity. Over half (58%) of women age 15-49 have some degree of anaemia. Twenty-eight percent each are mildly anaemic and moderately anaemic, and 2% are severely anaemic (**Table 11.13**).

Patterns by background characteristics

- Anaemia prevalence is higher in rural areas (62%) than in urban areas (54%).
- The prevalence of anaemia decreases with increasing education (from 64% among women with no education to 47% among women with more than a secondary education) and increasing wealth (from 66% among women in the lowest wealth quintile to 50% among women in the highest quintile).

11.9 MICRONUTRIENT SUPPLEMENTATION AND DEWORMING DURING PREGNANCY

During pregnancy, women are at a higher risk of anaemia due to an increase in blood volume. Severe anaemia can place both the mother and the baby in danger through increased risk of blood loss during labour and can raise the risk of preterm delivery, low birth weight, and perinatal mortality. To prevent anaemia, pregnant women are advised to take iron folate supplements, eat iron-rich foods, and prevent intestinal worms.

The 2018 NDHS asked women age 15-49 who gave birth in the 5 years before the survey whether they took iron supplements and/or deworming medication during their most recent pregnancy. Thirty-one percent of women with a child born in the last 5 years did not take any iron tablets during their most recent pregnancy. Also, only 31% percent of women took iron tablets for 90 days or more during their most recent pregnancy, and only 17% of women took deworming medication (**Table 11.14**).

Trends: Both micronutrient supplementation and deworming during pregnancy have improved substantially over the past decade. The percentage of women taking iron supplementation for 90 days or more increased from 15% in 2008 to 21% in 2013 and 31% in 2018. The percentage of women who did not take any iron supplementation decreased from 44% in 2008 to 36% in 2013 and 31% in 2018. Finally, the percentage of women taking deworming medication during pregnancy increased from 10% in 2008 to 14% in 2013 and 17% in 2018.

Patterns by background characteristics

• Women in urban areas were more likely than those in rural areas to have taken iron supplements for at least 90 days (39% versus 25%) and to have taken deworming tablets (19% versus 16%).

- The proportion of women taking iron tablets for 90 days or more increases with increasing education, from 19% among those with no education to 50% among those with more than a secondary education.
- The proportion of women taking both iron tablets for 90 days or more and deworming medication during pregnancy increases with increasing household wealth. Seventeen percent of women in the lowest wealth quintile and 43% in the highest quintile took iron supplements for at least 90 days, while 12% of women in the lowest quintile and 21% in the highest quintile took deworming medication.

11.10 MINIMUM DIETARY DIVERSITY FOR WOMEN

Minimum dietary diversity for women (MDD-W) is an indicator of diet diversity validated for women age 15-49. The indicator is based on 10 food groups. Women who consumed at least five of the 10 possible food groups in the 24 hours preceding the survey were classified as having minimally adequate dietary diversity. Deficiencies in micronutrients such as iron, iodine, vitamin A, folate, and zinc can have devastating consequences for the human body. Women, particularly those of childbearing age, are especially vulnerable due to their greater needs for essential vitamins and minerals.

The 2018 NDHS collected information on women's food consumption. **Table 11.15** indicates that 56% of women age 15-49 consumed food from five or more of the 10 total food groups in the day or night preceding the interview. On average, the 41,821 women interviewed consumed 4.9 food groups. Nineteen percent of women consumed savoury and fried snacks, 16% consumed sugary foods, and 22% consumed sugar-sweetened beverages.

Patterns by background characteristics

- There are minimal variations in women's food consumption patterns by age with the exception of sugary foods. Consumption of sugary foods decreases with age, from 23% among women age 15-19 to 12% among women age 40-49.
- Sixty-one percent of women in urban areas and 51% of women in rural areas consumed five or more food groups in the day or night preceding the interview. Women in urban areas are substantially more likely than those in rural areas to consume meat, fish, and poultry (84% versus 59%); eggs (22% versus 11%); sugary foods (19% versus 13%); and sugar-sweetened (32% versus 13%).
- The proportion of women who consumed five or more food groups is lower in the northern zones (North Central, North East, and North West) than in the southern zones (South East, South South, and South West). The lowest proportion is in the North Central zone (47%) and the highest is in the South West (65%).
- The proportion of women who consumed five or more food groups generally increases with increasing education and wealth. For example, 48% of women with no education consumed five or more food groups, as compared with 70% of women with more than a secondary education.

LIST OF TABLES

For more information on nutrition of children and women, see the following tables:

	Table 11.1	Nutritional status of children
	Table 11.2	Initial breastfeeding
	Table 11.3	Breastfeeding status by age
	Table 11.4	Infant and young child feeding (IYCF) indicators on breastfeeding status
	Table 11.5	Median duration of breastfeeding
	Table 11.6	Foods and liquids consumed by children in the day or night preceding the
		interview
	Table 11.7	Minimum acceptable diet
	Table 11.8	Prevalence of anaemia in children
	Table 11.9	Prevalence of sickle cell anaemia in children
	Table 11.10	Presence of iodised salt in household
	Table 11.11	Micronutrient intake among children
	Table 11.12	Nutritional status of women
	Table 11.13	Prevalence of anaemia in women
	Table 11.14	Micronutrient intake among mothers
•	Table 11.15	Foods and liquids consumed by women in the day or night preceding the

Continued...

Table 11.1 Nutritional status of children

Percentage of children under age 5 classified as malnourished according to three anthropometric indices of nutritional status: height-for-age, weight-for-height, and weight-for-age, according to background characteristics, Nigeria DHS 2018

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Background characteristic	Percentage below -3 SD	Percentage below -2 SD^2	Mean Z- score (SD)	Number of children	Percentage below -3 SD	Percentage I below -2 SD²	Percentage above +2 SD	Mean Z- score (SD)	Number of children	Percentage below -3 SD	Percentage below -2 SD²	Percentage above +2 SD	Mean Z- score (SD)	Number of children
Age in months														
0 ♥	6.4	18.7	-0.8	1,224	2.4	7.0	5.3	-0.1	1,224	7.0	16.8	2.8	-0.7	1,239
8-9	7.4	21.2	6.0-	694	2.5	12.4	2.2	9.0-	969	8.1	18.3	0.8	1.1	702
9-11	8.3	25.7	1.1	009	4.0	14.7	3.0	-0.7	605	9.5	20.8	1.6	<u>-</u> 1.1	902
12-17	4.4	35.9	-1.5	1,454	6.4	13.7	2.0	9.0-	1,460	1.1	26.5	0.6	- 1 ن	1,471
18-23	18.1	42.1	4.	1,149	2.0	1.8	1.2	-0.4	1,153	7.9	23.6	0.3	-1.2	1,156
24-35	24.9	47.2	-1.9	2,429	1.6	5.3	1.7	-0.2	2,441	8.1	25.1	0.1	-1.2	2,444
36-47	22.0	42.7	-1.7	2,507	9.0	3.1	1.8	-0.1	2,534	7.4	21.6	0.2	-1.1	2,533
48-59	15.9	35.0	-1.5	2,532	0.5	3.9	1.3	-0.2	2,536	3.7	18.9	0.2	1.1	2,544
Sex			(0	Ċ	c c	Ċ	ć	0	2		Ċ	•	0.00
iviale Female	15.8	34.2 34.2	6. 1. 6. 4 .	6,420 6,169	7.7 7.4.	5.6	2. 4. 5. 8.	ე ბ ა დ.	6,46 <u>2</u> 6,186	9.9 9.9	20.4 20.4	0.5		6,212 6,212
Birth interval in months ³														
First birth ⁴	13.6	30.1	-1.3	2,232	1.5	6.4	2.4	-0.3	2,243	5.5	17.1	0.7	-1.9	2,247
<24	20.8	42.6	-1.7	2,098	1.6	6.4	2.0	-0.3	2,112	0.6	24.5	0.3	-1.2	2,116
24-47	18.2	38.6	-1.6	5,535	2.2	7.9	1 .8	-0.3	5,555	8.3	23.8	0.7	-1.2	5,583
48+	12.0	30.9	1 .3	1,732	1 .	5.1	2.3	-0.3	1,740	4.0	17.7	0.7	-1.0	1,746
Size at birth ³														
Very small	22.9	47.4	<u>.</u> . & .	285	4.5 6.5	16.7	6. 6.	7.0-	287	16.5	34.5 5.0	0.5	6. r	288
Small Average or larger	Z1.Z	43.7	<u>-</u> 2 80 14	1,142	3. 4 5. 3	10.8 6.3	0.0	9.0	1,143	12.0	31.2	- 6	<u>.</u> .	1,151
Missing	14.0	39.5	 . 6.	152	4.7	8.9 8.9	1.4 1.3	5. d.	151	7.1	26.4 26.4	0.0	<u>.</u> <u>.</u> 5 ω	152
Mother's interview status		,			:	;	,	,	!	i	1	,		
Interviewed	16.9	36.5	<u>.</u> . r	11,598 176	6. 8. 6	0.0 1	2.0	۰. د. د	11,649	7.3	21.7	9.0	<u>-</u> -	11,693
Not interviewed and not in the	73.1	1	0.	0/-	0.0	7.7	0.0	۲. ا	00	0.0	6.62	S.	7: -	001
household ⁵	19.6	39.4	-1.5	816	1.2	5.9	1.9	-0.3	820	8.8	22.4	0.5	1.1	822
Mother's nutritional status ⁶	0.50	7 07	Ċ	980	2	7	<u>-</u> تر	o C	780	7 7	200	c	7	0.47
Normal (BMI 18 5-24 9)	17.5	38.1	- - 5.0	5,688	t 0	4.7	. .	٥ ج م	5 7 16	1.5.7	23.4	. 4	-	5 732
Overweight/obese (BMI ≥25)	9.5	23.3	-1.0	2,762	- - -	4.3	2.8	-0.1	2,770	3.0	11.6	1.9	-0.7	2,778
Residence														
Urban Rural	10.0 22.8	26.8 44.8	<u>-</u> 2	5,567 7,023	2.1 2.1	5.3 8.0	2.0 2.1	6.0 6.0	5,579 7,069	3.9 10.1	15.1 27.0	0.7 0.5	o - 8. 6. 6.	5,589 7,106

Continued.

Table 11.1—Continued														
		Height-	Height-for-age¹			M	Weight-for-height	ıt.			<i>></i>	Weight-for-age	0	
	Percentage	Percentage			Percentage	Percentage	Percentage			Percentage	Percentage	Percentage		
Background characteristic	below -3 SD	below $-2 SD^2$	Mean Z- score (SD)	Number of children	below -3 SD	below -2 SD^2	above +2 SD	Mean Z- score (SD)	Number of children	below -3 SD	below $-2 SD^2$	above +2 SD	Mean Z- score (SD)	Number of children
South West														
Ekiti	8.9	22.1	<u>-</u> 1.	166	4.1	3.3	4.3	-0.1	166	4.	1.1	0.3	-0.7	166
Lagos	2.8	17.2	9.0	684	2.1	6.4	1.2	-0.3	682	3.8	13.3	4.0	-0.7	684
Ogun	7.5	26.6	-1.3	357	1.3	5.7	0.0	-0.5	357	2.9	16.3	0.0	-1.1	357
Opudo	6.7	20.4	-1.0	177	0.0	3.3	0.5	-0.3	176	2.1	11.9	0.2	-0.8	177
Osan	7.5	23.7	-1.2	314	0.8	4.5	6.0	4.0-	315	4.8	14.4	9.0	6.0-	315
Oyo	14.2	34.5	-1.6	296	6.0	3.9	1.5	-0.2	262	4.4	18.0	0.7	-1.0	265
Mother's education ⁷														
No education	29.1	54.0	-2.1	4,564	2.9	9.5	1.9	4.0-	4,610	13.1	34.1	9.0	-1.5	4,637
Primary	16.5	37.9	-1.6	1,895	1.3	5.5	2.0	-0.2	1,905	5.3	18.9	0.5	<u>-</u> -	1,908
Secondary	9.7	23.4	-1.	4,155	7.	5.2	2.2	-0.2	4,155	3.0	12.7	9.0	-0.8	4,168
More than secondary	3.8	13.8	-0.7	1,160	8.0	4.8	2.3	-0.2	1,159	2.3	9.4	6.0	-0.5	1,160
Wealth quintile														
Lowest	30.1	55.4	-2.1	2,308	2.8	10.5	1.9	4.0-	2,328	14.7	36.9	0.5	-1.6	2,351
Second	26.6	49.4	-2.0	2,474	2.3	7.7	2.4	-0.3	2,494	10.5	29.3	0.4	4.1-	2,502
Middle	15.5	37.8	-1.6	2,645	1.5	6.7	1.7	-0.3	2,662	6.3	20.2	0.7	<u>-</u> -	2,667
Fourth	10.3	26.9	-1.2	2,662	4.	5.3	2.2	-0.2	2,663	3.8	14.3	0.3	6.0-	2,670
Highest	8.4	16.8	8.0-	2,502	0.5	4.2	2.1	-0.2	2,502	2.2	9.7	1.1	9.0-	2,505
Total	17.1	36.8	-1.5	12,590	1.8	8.9	2.1	-0.3	12,649	7.4	21.8	9.0	1.7	12,695

Note: Each of the indices is expressed in standard deviation units (SD) from the median of the WHO Child Growth Standards.

Recumbent length is measured for children under age 2; standing height is measured for all other children.

Includes children who are below -3 standard deviations (SD) from the WHO Child Growth Standards population median

Includes children whose mothers were not interviewed

Excludes children whose mothers are deceased

Includes children whose mothers are deceased

Includes children whose mothers are deceased

Excludes children whose mothers were not weighed and measured, children whose mothers were not weighed and measured, children whose mothers are not weighed and measured, children whose mothers are not weighed and measured. The Household Questionnaire. Excludes children whose mothers are not interviewed, information is taken from the Household Questionnaire.

Table 11.2 Initial breastfeeding

Among last-born children who were born in the 2 years preceding the survey, percentage who were ever breastfed and percentages who started breastfeeding within 1 hour and within 1 day of birth, and among last-born children born in the 2 years preceding the survey who were ever breastfed, percentage who received a prelacteal feed, according to background characteristics, Nigeria DHS 2018

	Amon	g last-born childrer	born in the past 2	vears:	past 2 years	children born in the who were ever stfed:
Background characteristic	Percentage ever breastfed	Percentage who started breastfeeding within 1 hour of birth	Percentage who started breastfeeding within 1 day of birth ¹	Number of last- born children	Percentage who received a prelacteal feed ²	Number of last- born children ever breastfed
Sex Male Female	97.1 97.2	42.3 42.0	82.1 82.5	6,654 6,281	49.1 48.4	6,457 6,105
Assistance at delivery Health personnel ³ Traditional birth attendant Other No one	96.9 97.1 97.1 98.1	49.5 32.9 37.4 35.5	84.4 77.2 85.5 75.5	6,196 2,522 2,861 1,355	40.2 53.0 62.9 50.2	6,005 2,450 2,778 1,329
Place of delivery Health facility At home Other	96.9 97.3 96.6	50.1 36.1 58.0	84.2 80.8 87.5	5,248 7,465 222	39.1 56.1 30.0	5,085 7,263 215
Residence Urban Rural	97.2 97.1	49.4 37.6	83.7 81.4	4,979 7,956	42.6 52.7	4,838 7,724
Zone North Central North East North West South East South South South West	96.8 97.7 97.0 97.1 96.8 97.1	60.3 27.4 32.4 39.4 55.4 63.3	90.5 80.1 79.2 78.8 81.0 88.6	1,787 2,350 4,649 1,304 1,160 1,685	47.2 55.5 57.1 49.2 43.5 21.3	1,731 2,296 4,511 1,266 1,123 1,636
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	98.1 96.8 97.9 97.7 97.4 95.0 98.8	58.6 61.5 78.3 60.5 23.8 71.1 50.4	84.4 95.1 93.6 96.4 87.7 86.0 90.4	87 370 167 211 189 535 228	32.6 23.3 60.7 22.3 24.7 73.0 64.2	86 358 164 206 184 508 225
North East Adamawa Bauchi Borno Gombe Taraba Yobe	97.3 98.1 98.8 97.2 97.2 96.9	19.5 14.7 50.1 18.0 10.4 46.1	95.8 61.1 88.2 77.9 87.6 82.6	326 590 418 277 299 441	55.9 74.6 70.7 67.2 44.6 15.0	317 579 413 269 291 427
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	97.7 96.5 96.9 97.6 97.5 94.6 98.1	10.1 35.9 38.9 36.8 25.1 11.9 51.0	76.2 73.0 72.3 86.0 91.5 70.3 90.4	552 885 1,001 876 451 362 521	71.8 74.3 63.0 23.0 81.0 64.3 33.0	539 854 969 855 439 343 511
South East Abia Anambra Ebonyi Enugu Imo	96.3 98.3 98.3 97.3 93.9	49.9 37.5 37.3 41.3 37.0	89.6 75.8 87.8 78.2 66.4	156 430 298 183 237	68.4 48.8 25.1 55.7 63.4	150 422 293 178 222
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	96.7 97.9 97.9 94.9 97.1 97.4	55.3 94.9 64.0 44.5 60.0 48.0	82.6 96.9 86.9 84.7 69.6 76.6	216 87 117 239 150 350	25.8 50.2 30.8 36.3 52.1 58.1	209 86 115 227 146 340

Continued...

Table 11.2—Continued						
	Amon	g last-born childrer	born in the past 2	years:	past 2 years	children born in the who were ever stfed:
Background characteristic	Percentage ever breastfed	Percentage who started breastfeeding within 1 hour of birth	Percentage who started breastfeeding within 1 day of birth ¹	Number of last- born children	Percentage who received a prelacteal feed ²	Number of last- born children ever breastfed
South West						
Ekiti	98.7	55.8	85.3	128	23.1	127
Lagos	96.6	58.6	83.2	599	23.9	579
Ogun	97.6	83.9	95.7	220	8.9	215
Ondo	93.9	45.1	87.3	157	18.2	147
Osun	97.2	60.3	86.3	198	18.4	192
Oyo	98.2	70.6	95.9	383	26.7	376
Mother's education						
No education	96.9	34.2	79.3	5,786	59.7	5,609
Primary	97.7	44.4	85.3	1,877	43.4	1,834
Secondary	97.2	49.6	85.4	4,186	39.0	4,071
More than secondary	96.5	51.5	80.6	1,086	37.7	1,048
Wealth quintile						
Lowest	97.5	30.5	77.1	2,775	55.6	2,704
Second	96.8	36.6	82.1	2,955	55.5	2,861
Middle	96.9	43.7	83.8	2,666	50.2	2,584
Fourth	97.7	50.4	86.3	2,416	41.0	2,359
Highest	96.8	53.7	82.8	2,123	37.6	2,054
Total	97.1	42.1	82.3	12,935	48.8	12,562

Note: Table is based on last-born children born in the 2 years preceding the survey regardless of whether the children are living or dead at the time of the interview.

¹ Includes children who started breastfeeding within 1 hour of birth

² Children given something other than breast milk during the first 3 days of life

³ Doctor, nurse/midwife, or auxiliary midwife

Table 11.3 Breastfeeding status by age

Percent distribution of youngest children under age 2 who are living with their mother by breastfeeding status and percentage currently breastfeeding, and percentage of all children under age 2 using a bottle with a nipple, according to age in months, Nigeria DHS 2018

			Bre	eastfeeding sta	atus						
Age in months	Not breast- feeding	Exclusively breastfed	Breast- feeding and consuming plain water only	Breast- feeding and consuming non-milk liquids ¹	Breast- feeding and consuming other milk	Breast- feeding and consuming comple- mentary foods	Total	Percentage currently breast- feeding	Number of youngest children under age 2 living with their mother	Percentage using a bottle with a nipple	Number of all children under age 2
0-1	1.5	38.9	44.3	3.5	3.0	8.9	100.0	98.5	1,122	11.6	1,141
2-3	3.5	29.1	41.1	4.7	3.3	18.3	100.0	96.5	993	14.7	1,006
4-5	1.4	17.9	32.6	5.1	4.9	38.1	100.0	98.6	1,104	18.6	1,123
6-8	3.0	4.8	13.8	4.8	1.7	72.0	100.0	97.0	1,650	16.9	1,672
9-11	4.4	0.9	4.8	2.2	1.1	86.4	100.0	95.6	1,457	17.8	1,482
12-17	23.3	0.2	2.6	0.8	0.3	72.8	100.0	76.7	3,434	10.4	3,525
18-23	61.9	0.2	1.2	0.5	0.1	36.1	100.0	38.1	2,426	5.6	2,618
0-3	2.4	34.3	42.8	4.0	3.1	13.3	100.0	97.6	2,115	13.1	2,147
0-5	2.1	28.7	39.3	4.4	3.8	21.8	100.0	97.9	3,219	15.0	3,270
6-9	3.1	4.1	12.1	4.2	1.5	75.0	100.0	96.9	2,167	17.3	2,197
12-15	17.1	0.1	2.9	8.0	0.4	78.8	100.0	82.9	2,319	10.7	2,381
12-23	39.3	0.2	2.0	0.7	0.2	57.6	100.0	60.7	5,860	8.3	6,143
20-23	72.2	0.1	0.6	0.2	0.1	26.9	100.0	27.8	1,411	4.5	1,568

Note: Breastfeeding status refers to a "24-hour" period (yesterday and last night). Children who are classified as breastfeeding and consuming plain water only consumed no liquid or solid supplements. The categories of not breastfeeding, exclusively breastfeed, breastfeeding and consuming plain water, non-milk liquids, other milk, and complementary foods (solids and semisolids) are hierarchical and mutually exclusive, and their percentages add to 100%. Thus, children who receive breast milk and non-milk liquids and who do not receive other milk and who do not receive complementary foods are classified in the non-milk liquid category even though they may also get plain water. Any children who get complementary food are classified in that category as long as they are breastfeeding as well.

1 Non-milk liquids include juice, juice drinks, clear broth, or other liquids.

Table 11.4 Infant and young child feeding (IYCF) indicators on breastfeeding status

Percentage of children fed according to various IYCF practices, Nigeria DHS 2018

Indicator	Percentage	Number
Exclusive breastfeeding under 6 months	28.7	3,219
Exclusive breastfeeding at 4-5 months	17.9	1,104
Continued breastfeeding at 1 year	82.9	2,319
Introduction of solid, semisolid, or soft foods (6-8 months)	74.4	1,650
Continued breastfeeding at 2 years	27.8	1,411
Age-appropriate breastfeeding (0-23 months) ¹	55.4	12,186
Predominant breastfeeding (0-5 months) ²	72.4	3,219
Mixed breast milk and non-breast milk feeding (0-5 months) ³	7.7	3,219
Bottle feeding (0-23 months)	12.3	12,566

¹ For children age 0-5 months: exclusively breastfed; for children age 6-23 months: receive breastmilk and complementary foods

complementary foods
² Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only

³ Received breast milk and fresh, tinned, or powdered animal milk or commercial infant formula

Table 11.5 Median duration of breastfeeding

Median duration of any breastfeeding, exclusive breastfeeding, and predominant breastfeeding among children born in the 3 years preceding the survey, according to background characteristics, Nigeria DHS 2018

		months) of breastfeedi oorn in the past 3 years	
Background characteristic	Any breastfeeding	Exclusive breast- feeding	Predominant breastfeeding ²
Sex			
Male Female	18.3 18.8	a a	4.8 5.0
Residence			
Urban	16.3	а	4.7
Rural	20.0	а	5.0
Zone	40 =		
North Central North East	18.7 20.8	а	5.1 6.2
North West	20.8	a a	6.2 4.9
South East	14.0	a	3.8
South South	14.6	a	3.1
South West	16.1	3.5	5.5
Mother's education			
No education	21.4	а	5.2
Primary	18.5	а	5.0
Secondary	15.9	1.1	4.5
More than secondary	14.6	1.9	4.6
Wealth quintile			
Lowest	21.4	а	5.3
Second	20.6	а	5.4
Middle	18.1	a	4.6
Fourth Highest	16.7 14.5	a 1.9	4.6 4.6
Total	18.5	a	4.9
Mean for all children	18.5	2.8	6.3

Note: Median and mean durations are based on breastfeeding status of the child at the time of the survey (current status). Includes living and deceased children.

a = Omitted because less than 50% of the children in this group were exclusively or predominantly

breastfeeding ¹ For last-born children under age 24 months who live with their mother and are breastfeeding, information to determine exclusive and predominant breastfeeding comes from a 24-hour dietary recall. Tabulations assume that last-born children age 24 months or older who live with their mother and are breastfeeding are neither exclusively nor predominantly breastfed. It is assumed that lastborn children not currently living with their mother and all non-last-born children are not currently breastfeeding.

² Either exclusively breastfed or received breast milk and plain water and/or non-milk liquids only

Table 11.6 Foods and liquids consumed by children in the day or night preceding the interview

Percentage of youngest children under age 2 who are living with their mother by type of foods consumed in the day or night preceding the interview, according to breastfeeding status and age, Nigeria DHS 2018

Liquids	Liquids	Ī						Solid or semisolid foods	spood pilosi					
\ Fortified baby Food made ric Age in months Infant formula Other milk¹ Other liquids² foods from grains³	Fortified baby Food made Other milk¹ Other liquids² foods from grains³	Fortified baby Food made Other liquids ² foods from grains ³	Fortified baby Food made foods from grains ³		, E	Fruits and vegetables rich in vitamin A ⁴	Other fruits and vege-tables	Food made from roots and tubers	Food made from legumes and nuts	Meat, fish, poultry	Edds	Cheese, yogurt, other milk products	Any solid or semisolid food	Number of children under age 2
				•		BREAST	BREASTFEEDING CHILDREN	IILDREN			}			
1.0 6.7 0.3	6.7 0.3	0.3		3.3		1.3	0.3	9.0	6.0	0.4	0.1	4.5	0.6	1,105
3.4 11.7 1.3	11.7 1.3	1.3		8.6		1.9	9.0	0.8	2.3	1.2	4.	5.7	19.0	959
8.8 5.2 25.2 2.9 23.4	25.2 2.9	2.9		23.4		5.2	1.8	3.1	4.9	4.9	3.4	6.4	38.6	1,088
12.0 45.6 5.3	45.6 5.3	5.3		29.0		18.6	7.5	10.6	20.5	16.0	9.7	11.7	74.2	1,600
14.2 50.7 4.8	50.7 4.8	4.8		79.5		35.3	14.9	23.7	33.2	29.0	16.2	15.8	90.5	1,392
11.9 55.1 3.0	55.1 3.0	3.0		86.8		45.4	16.0	22.8	40.7	32.4	13.7	18.2	94.9	2,633
8.6 56.7 2.4	56.7 2.4	2.4		85.6		46.5	14.5	21.6	38.4	29.3	6.6	17.4	94.8	925
6.4 11.9 52.1 3.9 78.3	52.1 3.9	3.9		78.3		36.9	13.5	19.8	33.8	27.2	12.7	16.0	88.9	6,550
6.2 9.1 39.9 3.1 56.8	39.9 3.1	3.1		56.8		25.8	9.4	13.9	23.7	19.1	9.1	12.6	67.2	9,702
						NONBREA	NONBREASTFEEDING CHILDREN	CHILDREN						
* *	*	*	*	*		*	*	*	*	*	*	*	*	16
(5.4) (6.6) (11.4) (4.1) (13.4)	(11.4) (4.1)	(4.1)		(13.4)		(8.0)	(2.2)	(3.2)	(3.6)	(5.3)	(2.2)	(6.1)	(18.0)	35 15
11.2 56.6 5.2	56.6 5.2	5.2		58.6		31.9	11.4	21.5	23.5	28.1	23.8	14.9	81.8	20
23.5 43.2 8.0	43.2 8.0	8.0		82.9		41.7	14.4	22.1	27.4	51.8	19.9	12.8	8.76	92
9.8 25.5 57.9 9.0 89.5	57.9 9.0	0.6		89.5		55.6	25.1	51.3	36.7	61.2	30.4	15.1	98.6	801
21.9 59.1 4.7	59.1 4.7	4.7		92.2		59.2	26.1	49.3	43.5	59.1	26.7	17.3	99.3	1,502
6.9 22.9 58.2 6.2 90.4	58.2 6.2	6.2		90.4		57.0	25.2	48.7	40.4	29.0	27.7	16.4	7.86	2,417
7.0 22.5 57.2 6.2 88.5	57.2 6.2	6.2		88.5		55.8	24.6	47.5	39.6	97.9	27.1	16.1	2.96	2,483

Note: Breastfeeding status and food consumed refer to a "24-hour" period (yesterday and last night). Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted

cases and has been suppressed.

1 Other milk includes fresh, tinned, and powdered cow or other animal milk

2 Does not include plain water. Includes juice, juice drinks, clear broth, or other non-milk liquids.

3 Includes fortified baby food

4 Includes fortified baby food

4 Includes pumpkin, red or yellow yams or squash, carrots, red sweet potatoes, dark green leafy vegetables, mangoes, papayas, and other locally grown fruits and vegetables that are rich in vitamin A

Table 11.7 Minimum acceptable diet

Percentage of youngest children age 6-23 months living with their mother who are fed a minimum acceptable diet based on breastfeeding status, number of food groups, and times they are fed during the day or night preceding the survey, according to background characteristics, Nigeria DHS 2018

)													
	Among breas	Among breastfed children age 6-23 months, percentage fed:	ge 6-23 month 1:	s, percentage	Among nor	breastfed chil	dren age 6-23	Among nonbreastfed children age 6-23 months, percentage fed:	ıntage fed:	Amon	g all children a	Among all children age 6-23 months, percentage fed:	hs, percentage	fed:
Background characteristic	Minimum dietary diversity ¹	Minimum meal frequency ²	Minimum acceptable diet³	Number of breastfed children age 6-23 months	Minimum milk feeding frequency ⁴	Minimum dietary diversity¹	Minimum meal frequency ⁵	Minimum acceptable diet ⁶	Number of non- breastfed children age 6-23 months	Breast milk, milk, or milk products ⁷	Minimum dietary diversity ¹	Minimum meal frequency ⁸	Minimum acceptable diet ⁹	Number of all children age 6-23 months
Age in months 6-1 6-8 9-11 12-17	17.1 11.8 23.2 27.0 22.3	46.5 54.3 37.5 40.1	0 8 0 1 1 1 4 4 6 0 0 8 6	2,992 1,600 1,392 2,633	25.2 15.8 32.3 22.7	18.8 20.1 24.9 25.3	37.5 28.0 44.9 37.6 35.6	10.5 9.3 9.6 6.5	114 50 65 801 1,502	97.2 97.5 97.0 82.0 49.1	17.2 12.0 23.1 24.2	46.2 53.5 37.9 39.5 39.6	9.5 8.4 7.01 1.3	3,107 1,650 1,457 3,434 2,426
Sex Male Female	22.5 21.1	42.6 45.1	10.6 10.9	3,315 3,234	18.1 21.6	22.9 27.2	35.3 37.6	7.4	1,313	76.8 80.0	22.6 22.7	40.5 43.2	9.7	4,628 4,339
Residence Urban Rural	28.3 18.6	42.2 44.7	14.3 9.0	2,194 4,356	25.0 13.6	30.2 18.8	40.3 31.9	13.5 6.5	1,293 1,125	72.2 82.3	29.0 18.6	41.5 42.1	4.0 6.8	3,487 5,480
Zone North Central North East North West South East South South	13.3 15.2 31.5 31.3 34.2	43.4 46.6 43.8 52.6 53.9 27.4	5.2 9.7 10.7 17.5 11.3	927 1,359 2,661 452 453 697	10.8 12.8 10.5 28.4 25.5	13.7 16.2 17.8 28.8 29.3 37.0	25.6 41.8 29.6 51.0 37.2 34.0	4 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	351 270 465 430 399 502	75.5 85.5 86.7 65.1 65.6	13.4 15.4 15.4 30.3 35.3 35.4	38.5 45.8 41.7 51.8 46.1	7.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1,278 1,629 3,126 882 852 1,199
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	7.20 7.20 7.20 8.8.20 6.7.1 7.0	36.0 35.7 30.5 30.5 40.3 54.9	4 8 8 8 8 4 8 4 8 8 8 8 8 7 7 7	4 3 8 1 2 2 2 2 2 8 1 8 1 8 1 8 1 8 1 1 1 1 8 1	20.7 13.2 (2.3) (10.5) 23.3 6.4	10.1 21.5 (7.2) (14.2) 35.6 2.1 0.0	22.6 27.2 (11.1) (6.1) 30.0 35.6 29.2	5.0 (2.3) (0.0) 14.0 0.0	201 102 102 103 103 103 103 103 103 103 103 103 103	74.8 67.3 72.9 79.0 75.3 73.3	2019 1440 1420 3720 833 31	31.8 32.5 25.1 25.0 37.0 51.2 45.6	4.8.7.4.4.8.1. 7.8.7.0.8.4.1.	64 271 112 159 133 378
North East Adamawa Bauchi Borno Gombe Taraba Yobe	14.7 21.3 5.8 11.9 16.2 18.2	68.2 68.4 28.0 34.5 19.5 29.5	9.2 17.2 4.2 6.8 9.1	184 341 259 147 159 269	(15.2) 13.6 (10.2) 9.4 9.4 (21.0)	(24.8) 22.8 (1.7) 4.4 20.0 (23.5)	(61.6) 81.4 (25.1) 20.8 21.2 (9.4)	(8.3) (0.6) (0.6) (0.0)	44 42 33 11	84.4 85.8 84.1 83.5 81.3	16.6 21.5 5.1 10.6 17.0	67.0 70.5 27.5 32.0 40.2 27.4	9.0 7.3.0 9.0 9.0 9.0 9.0	225 409 315 180 201
														Continued

Table 11.7—Continued														
	Among breas	Among breastfed children age 6-23 months, percentage fed:	je 6-23 month: 1:	s, percentage		breastfed child	dren age 6-23	Among nonbreastfed children age 6-23 months, percentage fed:	ntage fed:	Amon	g all children	Among all children age 6-23 months, percentage fed	ns, percentage	fed:
Background characteristic	Minimum dietary diversity ¹	Minimum meal frequency ²	Minimum acceptable diet ³	Number of breastfed children age 6-23 months	Minimum milk feeding frequency ⁴	Minimum dietary diversity ¹	Minimum meal frequency ⁵	Minimum acceptable diet [®]	Number of non- breastfed children age 6-23 months	Breast milk, milk, or milk products ⁷	Minimum dietary diversity ¹	Minimum meal frequency ⁸	Minimum acceptable diet ⁹	Number of all children age 6-23 months
	6	(-			(k	6	(b			! !	((
North West	!				(6	;	;	(!	,	1	
Jigawa	17.5	43.2	2.7	344 444	(10.6)	(19.3) 5-1	(26.4)	(4.0) 0.6	38	91.2	17.7	41.5 6.1.5	13.0	381
Kaulia	- 6	38.6		4 t 5 t t	7 0 0	25.7	03.0	5.0	120	0 4. 0 4. 0	0.00	00 00 00	6.0 0.0	946
Kalio	. r	30.0 43.5	- c	- 00	0.01	10.7	3.0.5 3.0.6	- 6	91	86.4.0	14.9	23.3 41.9	10.9	591
Kebbi	38.2	26.3	6. 4	269	24.2	39.3	4. 8.	4.6	47	88.7	38.3	24.6	6.4	316
Sokoto	30.8	25.2	6.5	212	(17.4)	(28.5)	(16.9)	(11.4)	333	88.8 91.5	30.5	24.0	7.2	246 352
() ()	<u>,</u>	į	<u> </u>	-	(1:0)	(5:5)	(0:00)	(0:0)	1) -	9		i į	1
South East	C	0 0	ņ	Ç	0	97	7	200	Q U	7	0	2	, c	, 10
Abla Anamhta	30.7 18.5	8,00 8,00 8,00 8,00	0.61 7.9	4 6 86 86	5 - C 2 - C	10.5	37.2	5.0 5.0	50 152	73.4 53.9	38.8 7 4 1	37.3	23.0 6.4	2002
Ebonyi	53.5	64.4	34.7	14 44	13.3	41.2	43.8	10.1	69	72.0	49.5	57.7	26.8	213
Enugú	30.3	42.3	8.6	60	49.4	56.9	69.2	36.6	09	74.7	43.6	55.8	22.7	120
2	0.0	3.	5.5	5	20.7	Z. Z	5.70	0.0	S	03.0	7.01	6.00	7.	<u>†</u>
South South	969	7. 7.	α	ά	16.7	36.2	76.3	σ	α	61.9	366	8 7 7	α /	149
Bayelsa	40.7	5. 4. 5. 4.	20.8		33.8	35.0	40.7	21.5	37	63.7	37.6	41.0	21.2	<u>2</u> 89
Cross River	35.3	40.7	6.5	52	(23.0)	(24.4)	(30.9)	(17.6)	33	70.0	31.1	36.9	10.8	85
Delta Edo	35.1	65.2 53.8	23.4	92	25.0	22.6 14.2	34.7	6.7	94 72	62.1 67.5	28.8	49.8 30.6	14.7	187
Rivers	32.2	78.1	29.7	136	34.2	35.2	57.3	18.7	125	68.5	33.7	68.1	24.4	260
South West	ć	9	, 0	į	1	2	c c	1	7	C C	C L	0	, ,	5
Lagos	33.1 41.0	36.1 - 48.2	23.8	212	45.1	39.4 46.9	54.5 54.5	27.5	220	38.6 72.0	55.9 9.4.0	5 5 4. 4.	13.3 25.7	432 432
Ogun	17.9	19.7	7.1	106	5.9	8.6	26.0	0.0	29	63.7	14.3	22.1	4.4	173
Ondo	15.7 36.4	34.9 9.6	5.0 5.4	9 20	(4.4) (7.7)	(31.4) (36.8)	(25.6) (4.3)	(2.7) (2.6)	37 46	66.5 69.0	21.2 36.5	31.6 7.9	4 4 2 4	107 137
Oyo	42.8	8.6	1.8	168	17.4	35.2	14.4	13.3	91	71.0	40.1	11.4	5.8	259
Mother's education	7	7 07	α	3 404	7.7	10.7	27.8	۰, ب	550	7 7	<u>τ</u> α	907	7.3	3 053
Primary	22.3	46.1	11.7	928	8.3	13.0	25.6	. 4 - 1	349	74.9	19.7	40.5	9.6	1,277
Secondary More than secondary	28.5 37.4	44.0 48.0	13.7	1,837	21.5	27.3	38.5	10.0	1,146 369	69.8	28.0	41.9	12.3	2,983 753
	- : :)	2)	-))	9)) i	i i)	o i	i i)
Wealth quintile Lowest	16.9	44.5	8.1	1,689	10.8	12.3	30.7	3.7	263	88.0	16.3	42.6	7.5	1,951
Second	17.0	45.0	0.6	1,618	6.4	12.7	25.8	3.3	345	83.5	16.3	41.6	8.0	1,963
Middle	19.7	42.3	8. ç	1,346	10.6	19.6	32.2	6.2	512	75.4	19.7	39.5	∞ <u>č</u> ← ď	1,858
Highest	34.7	45.0 45.0	18.5	804	33.8	40.3	33.0 47.2	19.2	300 709	69.0	37.3	46.0	18.8	1,513
Total	21.8	43.9	10.8	6,550	19.7	24.9	36.4	10.2	2,417	78.4	22.6	41.8	10.6	8,967

Note: Figures in parentheses are based on 25-49 unweighted cases.

Children received foods from five or more of the following food groups: a. breast milk; b. infant formula, milk other than breast milk, cheese or yogurt or other milk products; c. foods made from grains, roots, and tubers, including portified baby food from grains; d. vitamin A-rich fruits and vegetables and red palm oil; e. other fruits and vegetables, f. eggs; g. meat, poultry, fish, and shellfish (and organ meats); h. legumes and nuts.

Profit food at least twice and fortified baby food from grains; d. vitamin A-rich fruits and vegetables and red food at least twice a day for infants age 6-8 months and at least three times a day for children age 9-23 months.

Breastfed children age 6-23 months are considered to be fed a minimum acceptable diet if they are fed the minimum dietary diversity as described in footnote 1 and the minimum meal frequency as defined in footnote 2.

- ⁴ Includes two or more feedings of commercial infant formula; fresh, tinned, and powdered animal milk; and yogurt
 ⁵ For nonbreastfed children age 6-23 months, minimum meal frequency is receiving solid, semisolid, or soft food or milk feeds at least four times a day. At least one of the feeds must be a solid, semisolid, or soft feed.
 ⁶ Nonbreastfed children age 6-23 months are considered to be fed a minimum acceptable diet if they receive other milk or milk products at least twice a day, receive the minimum meal frequency as defined in footnote 5, and receive

- solid, semisolid, or soft foods from at least four food groups not including the milk or milk products food group.

 ⁷ Breastfeeding, or not breastfeeding and receiving two or more feedings of commercial infant formula; fresh, tinned, and powdered animal milk; and yogurt

 ⁸ Children are fed the minimum recommended number of times per day according to their age and breastfeeding status as described in footnotes 2 and 5.

 ⁹ Children age 6-23 months are considered to be fed a minimum acceptable diet if they receive breast milk, receive other milk or milk products as described in footnote 2 and 5.

 1, and are fed the minimum meal frequency as described in footnotes 2 and 5.

Table 11.8 Prevalence of anaemia in children

Percentage of children age 6-59 months classified as having anaemia, according to background characteristics, Nigeria DHS 2018 $\,$

		Anaemia st	atus by haemog	lobin level	
Background characteristic	Any anaemia (<11.0 g/dl)	Mild anaemia (10.0-10.9 g/dl)	Moderate anaemia (7.0-9.9 g/dl)	Severe anaemia (<7.0 g/dl)	Number of children age 6-59 months
Age in months					_
6-8	77.2	28.2	45.2	3.8	687
9-11	79.3	27.4	48.9	3.0	599
12-17	81.4 74.1	27.7	49.3	4.4 4.0	1,460
18-23 24-35	67.4	30.4 27.0	39.7 37.4	3.0	1,150 2,439
36-47	62.5	25.6	34.3	2.6	2,528
48-59	57.9	24.9	30.9	2.1	2,528
Sex					
Male	69.5	26.3	39.9	3.2	5,820
Female	66.2	27.2	36.2	2.9	5,572
Mother's interview status Interviewed	68.1	27.0	38.1	3.0	10,395
Not interviewed but in	00.1	27.0	36.1	3.0	10,393
household	70.6	22.2	44.9	3.6	174
Not interviewed and not in the household ¹	64.2	24.3	36.6	3.3	823
	04.2	24.3	30.0	5.5	023
Residence Urban	62.0	27.5	33.1	1.4	5,014
Rural	72.5	26.1	42.0	4.3	6,377
Zone					
North Central	65.9	28.3	35.3	2.3	1,620
North East	70.4	27.4	39.2	3.8	1,807
North West	69.9	23.9	41.6	4.4	3,216
South East South South	69.9 73.2	27.2 31.5	40.3 39.0	2.5	1,496
South West	59.6	26.3	31.8	2.7 1.4	1,192 2,060
State					
North Central					
FCT-Abuja	58.8	23.9	32.7	2.3	80
Benue	62.0	34.3	26.7	1.0	377
Kogi	63.6	25.8	35.8	1.9	143
Kwara Nasarawa	69.4 67.9	33.1 28.1	34.7 36.6	1.6 3.2	189 172
Niger	75.0	26.1	46.7	2.2	421
Plateau	55.3	22.3	28.6	4.3	238
North East					
Adamawa	56.0	19.9	33.0	3.1	252
Bauchi	75.7	29.1	40.6	6.0	400
Borno Gombe	71.2 77.3	29.4 26.5	38.8 45.5	3.0 5.4	385 205
Taraba	70.9	29.4	38.4	3.1	219
Yobe	69.1	27.7	39.3	2.2	346
North West					
Jigawa	81.9	26.6	53.4	1.9	382
Kaduna	48.4	20.7	26.6	1.1	614
Kano Katsina	72.9 64.8	22.8 27.3	45.1 32.6	5.0 4.9	682 687
Kebbi	80.8	24.9	50.8	5.1	285
Sokoto	79.6	21.0	53.4	5.2	227
Zamfara	83.6	22.9	50.8	9.9	339
South East					
Abia	67.1	34.9	30.0	2.2	173
Anambra	75.2 79.3	26.3 23.4	46.2 53.1	2.7	473 356
Ebonyi Enugu	79.3 58.9	26.4 26.4	29.8	2.8 2.7	356 205
Imo	59.2	29.2	28.3	1.7	289
South South					
Akwa Ibom	74.7	29.4	39.5	5.8	216
Bayelsa	67.4	30.0	33.8	3.7	98
Cross River Delta	69.8 69.8	30.2 28.7	38.0 38.0	1.6 3.1	105 222
Edo	65.9	28.0	36.6	1.3	139
Rivers	78.9	35.9	41.5	1.5	412
	70.0	55.5	71.0	1.0	714

Continued...

Table 11.8—Continued					
		Anaemia st	atus by haemog	lobin level	
		Mild	Moderate	Severe	Number of
Background	Any anaemia	anaemia	anaemia	anaemia	children age
characteristic	(<11.0 g/dl)	(10.0-10.9 g/dl)	(7.0-9.9 g/dl)	(<7.0 g/dl)	6-59 months
South West					
Ekiti	71.9	28.7	42.1	1.2	145
Lagos	51.8	29.2	22.2	0.4	613
Ogun	59.5	22.8	34.4	2.2	330
Ondo	64.2	22.9	38.9	2.4	159
Osun	57.6	25.1	31.0	1.5	286
Oyo	65.0	26.3	36.8	1.9	528
Mother's education ²					
No education	75.1	25.6	44.6	4.8	4,134
Primary	71.1	27.2	41.5	2.3	1,704
Secondary	64.1	27.9	34.1	2.1	3,726
More than secondary	50.0	28.4	21.3	0.3	1,004
Wealth quintile					
Lowest	80.1	25.5	48.6	6.0	2,120
Second	75.0	25.6	45.2	4.2	2,235
Middle	66.5	25.8	38.4	2.3	2,412
Fourth	65.3	27.0	35.9	2.3	2,388
Highest	53.3	29.8	23.0	0.6	2,235
Total	67.9	26.7	38.1	3.0	11,391

Note: Table is based on children who stayed in the household on the night before the interview and who were tested for anaemia. Prevalence of anaemia, based on haemoglobin levels, is adjusted for altitude using formulas in CDC 1998. Haemoglobin is in grams per decilitre (g/dl).

1 Includes children whose mothers are deceased
2 For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children

whose mothers are not listed in the Household Questionnaire.

Table 11.9 Prevalence of sickle cell anaemia in children

Percentage of children age 6-59 months classified as having sickle cell anaemia, according to background characteristics, Nigeria DHS 2018

-			Haemoglobin	Genotype Haemoglobin	Sickle cell		Sickle cell	Number of
Background characteristic	Normal (HbAA)	Sickle cell trait (HbAS)	C trait (HbAC)	C disease (HbSC)	anaemia (HbSS)	Other	disease (SCD) ¹	children age 6-59 months
Age in months								
6-8	76.9	20.2	1.5	0.2	1.0	0.0	1.2	687
9-11	76.3	19.4	2.2	0.5	1.3	0.0	1.8	599
12-17	76.9	19.8	1.9	0.3	0.6	0.3	0.8	1,460
18-23	75.2	20.9	2.4	0.2	1.1	0.0	1.4	1,150
24-35	77.8	19.1	1.6	0.4	0.9	0.0	1.3	2,439
36-47	77.7	19.0	1.3	0.8	1.0	0.1	1.8	2,528
48-59	76.9	20.2	1.5	0.4	0.7	0.3	1.1	2,528
Sex								
Male	77.1	19.6	2.0	0.3	0.8	0.1	1.1	5,820
Female	77.0	19.8	1.3	0.6	0.9	0.1	1.6	5,572
Nother's interview status								-,-
Interviewed	76.9	19.8	1.7	0.4	0.9	0.1	1.2	10,395
Not interviewed but in	74.0	04.5	0.0	4.0	4.0	0.0	0.0	474
household Not interviewed and not in the	71.3	24.5	0.6	1.9	1.0	0.0	2.9	174
household ²	80.0	16.7	0.9	0.8	1.1	0.2	1.9	823
Residence Urban	75.7	20.2	2.3	0.7	0.8	0.2	1.5	5,014
Rural	78.1	19.3	1.1	0.2	1.0	0.1	1.2	6,377
Cone								-
North Central	78.9	17.8	1.8	0.4	0.9	0.0	1.3	1,620
North East	76.9 77.9	20.4	0.3	0.4	0.9	0.0	1.2	1,820
North West				0.3				
	77.5	19.9	1.2		1.0	0.1	1.2	3,216
South East	79.5	19.1	0.0	0.1	1.0	0.0	1.1	1,496
South South South West	80.2 70.8	19.0 20.9	0.2 5.2	0.0 1.6	0.3 0.8	0.0 0.6	0.3 2.4	1,192 2,060
	70.0	20.9	5.2	1.0	0.0	0.0	2.7	2,000
tate								
North Central	70.0	40.4	0.0	0.0	0.0	0.0	0.0	00
FCT-Abuja	79.8	19.4	0.0	0.0	0.0	0.0	0.0	80
Benue	80.9	17.9	0.0	0.0	1.1	0.0	1.1	377
Kogi	77.0	20.3	0.0	0.6	1.8	0.0	2.4	143
Kwara	72.8	17.5	6.7	1.3	0.7	0.4	2.0	189
Nasarawa	79.0	18.4	0.4	0.4	1.4	0.0	1.8	172
Niger	77.8	17.7	3.2	0.5	0.6	0.0	1.0	421
Plateau	83.1	15.3	0.7	0.0	1.0	0.0	1.0	238
North East								
Adamawa	83.3	15.9	0.0	0.0	0.8	0.0	8.0	252
Bauchi	85.2	13.0	0.3	0.0	0.8	0.0	8.0	400
Borno	75.3	23.1	0.6	0.0	1.0	0.0	1.0	385
Gombe	81.1	17.9	0.3	0.0	0.7	0.0	0.7	205
Taraba	74.8	22.2	0.4	0.5	1.7	0.0	2.2	219
Yobe	68.4	29.8	0.2	1.1	0.6	0.0	1.6	346
North West								
Jigawa	72.4	25.1	0.6	0.0	1.6	0.0	1.6	382
Kaduna	78.0	21.4	0.5	0.0	0.0	0.0	0.0	614
Kano	72.5	24.8	0.0	0.0	2.4	0.0	2.4	682
Katsina	82.7	15.2	1.0	0.5	0.6	0.0	1.1	687
Kebbi	75.7	17.2	5.3	0.7	0.6	0.0	1.2	285
Sokoto	80.6	14.2	3.4	0.0	1.0	0.8	1.0	227
Zamfara	80.6	17.4	1.4	0.0	0.5	0.0	0.5	339
South East								
Abia	84.5	13.4	0.0	0.0	2.0	0.0	2.0	173
Anambra	78.4	20.0	0.0	0.0	0.9	0.0	0.9	473
Ebonyi	78.8	20.1	0.0	0.1	0.7	0.0	0.9	356
Enugu	76.8	22.0	0.0	0.7	0.5	0.0	1.2	205
Imo	81.0	17.5	0.0	0.0	1.4	0.0	1.4	289
South South								
Akwa Ibom	79.5	19.2	0.0	0.0	1.3	0.0	1.3	216
Bayelsa	80.8	17.5	0.0	0.0	1.1	0.0	1.1	98
Cross River	83.4	16.6	0.0	0.0	0.0	0.0	0.0	105
Delta	77.8	19.9	1.3	0.0	0.0	0.0	0.0	222
Edo Rivers	78.4	21.6	0.0	0.0	0.0	0.0	0.0	139
	81.4	18.6	0.0	0.0	0.0	0.0	0.0	412

Continued...

				Genotype	e status			
Background characteristic	Normal (HbAA)	Sickle cell trait (HbAS)	Haemoglobin C trait (HbAC)	Haemoglobin C disease (HbSC)	Sickle cell anaemia (HbSS)	Other	Sickle cell disease (SCD) ¹	Number of children age 6-59 months
South West								
Ekiti	73.4	23.3	1.1	0.8	1.0	0.0	1.8	145
Lagos	69.1	23.1	4.0	2.6	0.1	1.1	2.7	613
Ogun	72.4	20.7	4.2	1.0	0.7	1.0	1.7	330
Ondo	83.7	13.8	0.6	0.4	1.4	0.0	1.8	159
Osun	68.0	20.4	9.0	1.3	1.3	0.0	2.6	286
Oyo	68.7	20.3	7.8	1.6	1.2	0.4	2.8	528
Mother's education ³								
No education	77.2	20.3	1.3	0.1	0.8	0.0	1.0	4,134
Primary	77.6	19.8	1.6	0.5	0.5	0.0	1.0	1,704
Secondary	76.1	19.4	2.2	0.7	1.0	0.3	1.8	3,726
More than secondary	77.0	20.5	1.3	0.3	8.0	0.0	1.1	1,004
Wealth quintile								
Lowest	76.6	20.8	1.4	0.1	0.8	0.1	0.9	2,120
Second	77.8	19.5	0.7	0.6	1.1	0.0	1.7	2,235
Middle	78.4	18.8	1.5	0.2	8.0	0.0	1.0	2,412
Fourth	76.1	19.9	2.1	0.9	0.9	0.0	1.8	2,388
Highest	76.4	19.4	2.4	0.3	8.0	0.5	1.1	2,235
Total	77.1	19.7	1.6	0.4	0.9	0.1	1.3	11,391

Note: Table is based on children who stayed in the household on the night before the interview and who underwent genotype testing.

¹ Includes HbSS and HbSC

² Includes children whose mothers are deceased

³ For women who are not interviewed, information is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Table 11.10 Presence of iodised salt in household

Among all households, percentage with salt tested for iodine content, percentage with salt in the household but the salt was not tested, and percentage with no salt in the household, and among households with salt tested, percentage with iodised salt, according to background characteristics, Nigeria DHS 2018

		Among all house	holds, percentag	e	Among hous	seholds with d salt:
Background characteristic	With salt tested		With no salt in the household	Number of households	Percentage with iodised salt	Number of households
Residence						
Urban Rural	94.1 92.9	2.8 2.7	3.1 4.4	18,940 21,487	98.4 95.9	17,823 19,957
Zone						
North Central	91.4	1.9	6.6	5,669	91.5	5,184
North East North West	93.6 91.6	2.1 4.1	4.3 4.3	5,655 9,809	99.1 96.2	5,295 8,989
South East	98.8	0.6	0.6	4,703	99.8	4,645
South South	93.0	2.8	4.3	5,667	98.8	5,268
South West	94.2	3.4	2.3	8,587	97.5	8,093
State North Central						
FCT-Abuja	82.8	7.5	9.7	287	99.8	238
Benue	90.8	0.0	9.2	1,230	98.4	1,116
Kogi Kwara	94.2 93.3	0.1 0.2	5.7 6.4	707 771	100.0 98.8	666 719
Nasarawa	83.4	9.1	7.5	591	99.1	493
Niger	93.6	2.5	3.9	1,229	67.3	1,150
Plateau	93.7	0.0	6.3	883	96.2	827
North East	04.0	2.2	5 0	000	00.0	050
Adamawa Bauchi	94.2 86.4	0.0 10.3	5.8 3.3	908 1,146	99.9 98.9	856 991
Borno	97.2	0.0	2.8	1,140	96.9 97.7	1,235
Gombe	98.7	0.0	1.3	550	99.7	542
Taraba	91.6	0.0	8.4	720	99.3	659
Yobe	94.7	0.0	5.3	1,100	99.9	1,042
North West	95.3	0.0	4.7	1 124	99.9	1 001
Jigawa Kaduna	95.3 94.4	0.0	4.7 5.6	1,134 1,950	99.9	1,081 1,840
Kano	83.0	10.6	6.3	2,153	99.5	1,788
Katsina	94.8	0.1	5.1	1,820	99.7	1,726
Kebbi	98.6	0.0	1.4	910	99.1	898
Sokoto Zamfara	98.4 83.2	0.7 15.9	0.9 0.9	843 1,030	100.0 63.2	829 857
South East						
Abia	99.9	0.0	0.1	664	99.7	663
Anambra	99.8	0.0	0.2	1,391	100.0	1,388
Ebonyi Enugu	97.5 98.5	1.9 0.2	0.6 1.3	852 870	99.4 99.8	831 858
lmo	97.6	1.2	1.2	974	99.9	951
South South						
Akwa Ibom	78.7	13.1	8.2	1,048	99.5	825
Bayelsa Cross River	98.0 86.4	0.1 0.2	1.9 13.4	404 739	98.3 99.3	396 639
Delta	99.2	0.2	0.8	1,271	99.3 96.7	1,262
Edo	95.9	1.7	2.4	710	98.9	681
Rivers	98.0	0.4	1.6	1,556	100.0	1,525
South West	22.2		0.0	000	00 =	00.
Ekiti Lagos	99.2 88.1	0.0 9.2	0.8 2.7	629 2,971	99.5 96.5	624 2,616
Ogun	94.7	9.2 1.7	3.6	1,251	99.0	2,616 1,185
Ondo	93.9	0.0	6.1	844	99.5	793
Osun	98.3 99.5	0.0 0.2	1.7 0.3	1,219	92.2 100.0	1,198 1,792
Oyo	99.0	0.2	0.3	1,801	100.0	1,192
Wealth quintile Lowest	93.6	1.6	4.8	6,912	93.9	6,470
Second	93.0	2.2	4.8	7,499	95.2	6,973
Middle	92.6	2.6	4.8	8,273	97.9	7,661
Fourth	94.0	2.8	3.2	8,676	98.6	8,156
Highest	94.0	4.2	1.9	9,068	98.8	8,521
Total	93.5	2.8	3.8	40,427	97.1	37,780

¹ Includes households in which salt could not be tested for technical or logistical reasons, including availability of test kits

Table 11.11 Micronutrient intake among children

Among youngest children age 6-23 months who are living with their mother, percentages who consumed vitamin A-rich and iron-rich foods in the 24 hours preceding the survey; among all children age 6-59 months, percentages who were given vitamin A supplements in the 6 months preceding the survey, iron supplements in the 7 days preceding the survey, and deworming medication in the 6 months preceding the survey; and among all children age 6-59 months who live in households in which salt was tested for iodine, percentage who live in households with iodised salt, according to background characteristics, Nigeria DHS 2018

		gest children age		An	nong all children	age 6-59 montl	hs:	Among children age 6-59 months living in households tested for iodised salt:	
Background characteristic	Percentage who consumed foods rich in vitamin A in last 24 hours ¹	Percentage who consumed foods rich in iron in last 24 hours ²	Number of children	Percentage given iron supplements in past 7 days ³	Percentage given vitamin A supple- ments in past 6 months ⁴	Percentage given dewor- ming medica- tion in past 6 months ^{3,5}	Number of children	Percentage living in households with iodised salt ⁶	Number of children
Age in months									
6-8	30.9	21.2	1,650	12.9	34.0	9.4	1,672	96.7	1,584
9-11	51.9	36.0	1,457	15.7	50.8	19.0	1,482	97.7	1,409
12-17	65.3	44.7	3,434	16.9	48.2	22.0	3,525	96.0	3,355
18-23	73.0	53.3	2,426	20.8	50.6	28.8	2,618	96.8	2,521
24-35	na	na	na	18.3	45.6	28.6	5,835	96.6	5,577
36-47	na	na	na	16.3	44.5	26.3	6,186	96.7	5,890
48-59	na	na	na	16.7	43.9	27.4	6,294	96.6	5,999
Sex									
Male	60.2	41.9	4,628	17.2	45.4	25.6	14,022	96.5	13,390
Female	57.5	40.7	4,339	17.0	45.2	25.0	13,589	96.8	12,947
Breastfeeding status									
Breastfeeding	51.3	32.3	6,550	13.9	41.1	14.3	6,975	96.1	6,656
Not breastfeeding	79.5	65.8	2,417	18.1	46.7	29.0	20,636	96.8	19,681
Mother's age									
15-19	47.6	26.3	591	9.5	30.4	13.6	989	94.5	940
20-29	58.6	40.3	4,515	16.5	43.3	22.9	13,015	96.3	12,402
30-39	61.1	45.6	3,245	18.3	48.9	29.3	10,950	97.1	10,463
40-49	60.1	40.7	615	17.5	46.5	25.0	2,658	97.2	2,531
Residence									
Urban	66.5	57.4	3,487	22.6	55.5	34.9	10,971	98.2	10,486
Rural	54.1	31.0	5,480	13.4	38.6	19.0	16,641	95.6	15,851
Zone									
North Central	52.4	40.5	1,278	20.0	52.9	25.8	3,827	89.2	3,617
North East	50.5	24.3	1,629	8.7	30.5	10.1	5,019	98.9	4,807
North West	49.8	23.7	3,126	9.3	29.8	8.7	9,647	96.6	9,105
South East	76.1	68.2	882	35.2	76.4	56.3	2,841	99.8	2,816
South South South West	73.7 77.7	67.1 72.8	852 1,199	19.3 30.0	63.4 61.6	63.9 38.3	2,526 3,750	99.2 97.0	2,413 3,578
South West	11.1	12.0	1,199	30.0	01.0	30.3	3,750	97.0	3,376
State									
North Central FCT-Abuja	41.2	36.6	64	20.0	53.0	31.1	192	99.8	165
Benue	68.8	51.6	271	36.4	61.9	40.1	822	98.0	770
Kogi	60.0	51.0	112	19.1	63.2	19.4	352	100.0	347
Kwara	49.9	43.3	159	23.2	59.3	23.0	454	98.4	439
Nasarawa	73.5	64.7	133	50.6	58.0	40.5	425	99.0	365
Niger	39.9	33.5	378	3.2	36.3	12.9	1,071	67.1	1,051
Plateau	38.3	10.3	163	1.6	56.4	22.8	511	96.0	480
North East									
Adamawa	71.6	35.8	225	10.2	51.6	11.8	636	100.0	636
Bauchi	57.6	25.2	409	5.5	20.5	10.2	1,172	98.5	997
Borno	23.0	8.1	315	7.1	12.4	1.2	1,058	97.2	1,056
Gombe Taraba	36.4 69.3	19.2 46.3	180 201	4.6 2.7	10.0 20.8	4.6	553 601	99.6 99.3	552 573
Yobe	49.6	20.0	300	19.2	65.2	11.0 21.0	1,000	99.9	993
	10.0	20.0	000	10.2	00.2	21.0	1,000	00.0	000
North West	54.6	12.0	201	25.9	71.8	27.4	1 1 1 0	00.0	1 125
Jigawa Kaduna	34.6 31.7	13.8 15.6	381 548	25.9 8.4	71.6 27.5	9.4	1,148 1,766	99.8 100.0	1,135 1,712
Kano	56.3	21.6	691	3.6	13.0	3.6	2,167	99.8	1,712
Katsina	34.2	17.5	591	3.1	9.5	8.3	1,893	99.6	1,885
Kebbi	67.2	50.5	316	6.3	45.2	3.4	906	99.3	901
Sokoto	72.3	46.9	246	21.4	44.8	7.2	753	99.9	751
Zamfara	54.9	21.5	352	9.4	35.1	3.3	1,014	65.2	827
South East									
Abia	70.8	58.3	105	73.5	84.4	84.8	352	99.7	352
Anambra	76.3	71.7	290	32.6	92.5	58.5	873	100.0	871
Ebonyi	89.8	81.4	213	25.7	43.7	38.6	679	99.7	664
Enugu	65.5	61.6	120	49.2	73.4	27.1	403	99.6	402
Imo	68.9	55.4	154	15.5	88.6	78.6	535	99.8	528

Table	11	11_	Cor	tinu	he

		gest children age		An	nong all childrer	hs:	Among children age 6-59 months living in households tested for iodised salt:		
Background characteristic	Percentage who consumed foods rich in vitamin A in last 24 hours ¹	Percentage who consumed foods rich in iron in last 24 hours ²	Number of children	Percentage given iron supplements in past 7 days ³	Percentage given vitamin A supple- ments in past 6 months ⁴	Percentage given dewor- ming medica- tion in past 6 months ^{3,5}	Number of children	Percentage living in households with iodised salt ⁶	Number of children
South South Akwa Ibom Bayelsa Cross River	79.0 74.1 77.6 76.4	62.7 65.5 68.1 76.0	149 68 85 187	18.5 31.8 25.5 26.6	47.4 42.7 85.1 61.2	40.1 61.6 63.4 58.1	428 192 270 524	100.0 98.3 99.9 97.5	353 191 255 524
Delta Edo Rivers	58.7 73.2	56.7 67.4	103 260	11.6 12.7	69.0 69.0	56.9 85.0	341 771	97.5 99.3 100.0	332 758
South West Ekiti Lagos Ogun Ondo Osun Oyo	68.9 87.5 55.8 65.7 79.0 83.2	61.6 84.5 41.1 63.1 75.6 81.1	91 432 173 107 137 259	39.1 24.4 11.4 34.7 56.8 30.9	69.3 78.9 44.5 62.2 66.5 39.1	30.8 60.6 25.5 44.9 39.1 9.4	264 1,321 530 354 465 815	98.8 95.4 100.0 99.6 89.5 100.0	263 1,176 522 344 465 807
Mother's education No education Primary Secondary More than secondary	47.8 61.3 68.2 76.1	21.4 45.8 58.0 71.7	3,953 1,277 2,983 753	9.3 16.3 24.2 32.6	29.4 45.8 60.8 70.8	8.9 26.7 41.1 50.1	12,371 4,138 8,718 2,384	94.5 98.2 98.5 98.4	11,851 3,909 8,325 2,251
Wealth quintile Lowest Second Middle Fourth Highest	51.3 51.1 55.5 65.9 75.1	19.5 28.3 40.8 56.6 69.9	1,951 1,963 1,858 1,680 1,513	10.7 10.0 15.6 23.8 28.4	33.5 31.5 42.3 57.5 68.0	10.3 12.8 23.7 36.6 49.4	5,951 6,027 5,694 5,208 4,732	93.4 95.3 98.3 98.5 98.5	5,727 5,777 5,414 4,940 4,478
Total	58.9	41.3	8,967	17.1	45.3	25.3	27,612	96.6	26,336

na = Not applicable

1 Includes meat (and organ meat), fish, poultry, eggs, pumpkin, red or yellow yams or squash, carrots, red sweet potatoes, dark green leafy vegetables, mangoes, papayas, and other locally grown fruits and vegetables that are rich in vitamin A

2 Includes meat (and organ meat), fish, poultry, and eggs

³ Based on mother's recall

⁴ Based on both mother's recall and the vaccination card (where available)

Deworming for intestinal parasites is commonly done for helminths and for schistosomiasis.

6 Excludes children in households in which salt was not tested

Table 11.12 Nutritional status of women

Among women age 15-49, percentage with height under 145 cm, mean body mass index (BMI), and percentage with specific BMI levels, according to background characteristics, Nigeria DHS 2018

	He	ight				Во	dy mass inc	lex ¹			
Background characteristic	Percent- age below 145 cm	Number of women	Mean body mass index (BMI)	18.5-24.9 (total normal)	<18.5 (total thin)	17.0-18.4 (mildly thin)	<17 (moder- ately and severely thin)	≥25.0 (total over- weight or obese)	25.0-29.9 (over- weight)	≥30.0 (obese)	Number of women
Age											
15-19	3.1 1.2	2,719	20.6	67.0	24.8	15.8	9.0	8.2	7.1	1.1	2,513
20-29 30-39	0.9	4,996 4,433	22.7 24.5	66.4 53.2	11.3 8.3	8.2 6.2	3.1 2.1	22.3 38.5	16.5 24.3	5.9 14.2	3,973 3,773
40-49	1.1	4,433 2,578	25.2	51.7	6.3	4.4	1.9	42.0	23.1	18.9	2,468
		2,070	20.2	01.7	0.0	7.7	1.0	72.0	20.1	10.5	2,400
Residence	0.0	0.044	04.0	F4.4	0.0	0.0	2.2	20.4	04.0	44.5	0.054
Urban Rural	0.8 2.0	6,844 7,882	24.3 22.4	54.1 64.9	9.6 14.4	6.3 10.2	3.3 4.2	36.4 20.7	21.9 14.9	14.5 5.8	6,051 6,677
	2.0	7,002	22.4	04.9	14.4	10.2	4.2	20.7	14.5	5.0	0,077
Zone											
North Central	2.3	2,104	23.3	65.0	9.2	6.8	2.4	25.8	17.1	8.7	1,823
North East	1.5	2,232	21.4	61.6	23.3	15.3	8.1	15.1	10.3	4.7	1,878
North West	2.0 0.7	3,954	21.8	66.7	16.9	11.2	5.7	16.4 39.5	12.0	4.3	3,238
South East South South	1.0	1,841 1,821	24.9 24.9	55.5 51.4	5.0 5.7	3.5 4.2	1.5 1.6	42.9	23.4 27.9	16.1 15.0	1,630 1,655
South West	0.6	2,774	24.6	53.7	8.5	6.5	2.0	37.8	23.1	14.7	2,503
	0.0	_,,,,	21.0	00.1	0.0	0.0	2.0	01.0	20.1		2,000
State North Control											
North Central FCT-Abuja	0.6	116	25.0	53.2	9.4	6.8	2.6	37.5	20.3	17.1	105
Benue	5.4	494	23.0	71.4	6.3	5.5	0.9	22.3	16.0	6.3	431
Kogi	0.0	224	23.2	63.1	10.2	7.1	3.0	26.7	18.2	8.5	189
Kwara	2.4	256	23.1	62.9	11.1	8.2	2.9	26.0	18.6	7.4	226
Nasarawa	1.2	236	23.5	59.3	11.9	9.2	2.7	28.8	17.2	11.6	209
Niger	1.1	474	22.9	66.2	11.1	6.7	4.4	22.7	14.3	8.4	412
Plateau	2.3	303	23.6	65.4	6.0	5.5	0.4	28.7	19.6	9.0	252
North East											
Adamawa	0.6	292	22.2	60.8	18.8	11.0	7.8	20.4	14.6	5.8	247
Bauchi	1.8	442	21.1	61.9	23.9	16.8	7.1	14.2	9.7	4.5	350
Borno	1.8	516	21.3	64.0	23.1	17.9	5.2	12.8	8.0	4.8	445
Gombe	2.3	242	21.7	61.7	21.4	13.4	8.0	16.9	11.3	5.6	208
Taraba	0.3	294	23.2	67.1	9.2	6.6	2.6	23.7	16.1	7.6	254
Yobe	1.9	445	20.1	55.1	36.8	20.5	16.4	8.1	6.4	1.7	374
North West											
Jigawa	3.5	450	20.4	61.9	30.4	18.4	12.0	7.7	4.9	2.8	366
Kaduna	1.5	849	23.0	64.0	10.9	8.1	2.8	25.1	17.0	8.1	694
Kano	2.6	798	21.7	65.7	17.7	10.3	7.4	16.6	12.3	4.3	637
Katsina	2.9	789	22.1	69.5	12.7	8.2	4.5	17.8	15.0	2.8	660
Kebbi	0.4	391	21.6	70.5	15.8	11.3	4.5	13.7	10.1	3.6	324
Sokoto	2.0	249	20.7	71.7	21.1	15.2	6.0	7.2	5.5	1.7	202
Zamfara	0.2	427	21.4	67.6	19.8	15.1	4.7	12.7	9.2	3.4	355
South East											
Abia	1.4	237	24.6	60.5	4.7	3.0	1.7	34.9	25.4	9.5	217
Anambra	0.2	527	26.3	42.8	4.2	2.1	2.1	53.1	28.2	24.8	451
Ebonyi	1.6	352	22.5	70.1	9.2	7.3	1.8	20.7	16.5	4.2	304
Enugu	0.8	326	24.6	59.8	3.8	2.6	1.2	36.5	22.5	14.0	302
imo	0.1	399	25.8	52.5	3.6	2.9	0.7	43.9	23.0	20.9	355
South South											
Akwa Ibom	1.9	346	24.8	52.0	6.0	4.8	1.2	42.0	27.2	14.8	314
Bayelsa	0.9	116	24.2	57.2	6.5	4.6	1.9	36.2	24.4	11.8	102
Cross River	1.1	227	24.0	59.9	5.3	3.4	1.8	34.8	25.7	9.2	212
Delta	1.0	312	25.2	47.4	8.0	4.3	3.7	44.6	26.4	18.2	277
Edo	1.1	182	24.8	55.1	6.3	5.6	0.7	38.6	24.2	14.5	159
Rivers	0.5	639	25.4	47.9	4.4	3.6	8.0	47.7	31.4	16.3	592
South West	c =	400	00.0	04.4	- -	0.1	0.0	04 =	00.4	0.0	,
Ekiti	0.7	198	23.8	61.1	7.2	6.4	0.8	31.7	22.1	9.6	176
Lagos	0.1 0.9	1,006	25.9	44.1 55.6	6.5 8.6	5.8 6.0	0.8	49.4 35.7	28.5	20.8	903 333
Ogun Ondo	0.9 1.9	367 252	24.3 23.9	55.6 64.2	8.6 7.7	6.9 5.8	1.7 1.9	35.7 28.0	22.1 15.4	13.6 12.6	333 225
Ondo	0.0	252 359	23.9	62.5	7.7 9.5	5.6 8.1	1.9	28.0	18.4	9.6	335
Oyo	1.0	592	23.8	56.2	11.8	7.0	4.9	32.0	21.2	10.8	531
-	•				•						50.
Education No education	1.9	4 972	21.7	66.7	17 2	12.1	5.3	15.9	11.6	1.1	3,997
Primary	1.9	4,873 2,237	23.7	59.0	17.3 9.6	6.5	5.3 3.1	31.5	11.6 20.6	4.4 10.8	3,997 1,965
Secondary	1.3	6,078	23.6	58.5	11.0	7.4	3.6	30.6	19.9	10.5	5,382
More than secondary	0.2	1,537	26.0	45.5	5.1	3.9	1.1	49.4	27.5	21.9	1,383
oro triair occorridary	J.2	1,501	20.0	.0.0	J. 1	5.5		10.7	27.0	21.0	1,500

	Height				Body mass index ¹							
							<17					
			Mean				(moder-	≥25.0				
	Percent-		body mass	18.5-24.9		17.0-18.4	ately and	(total over-	25.0-29.9			
Background	age below	Number of	index	(total	<18.5	(mildly	severely	weight or	(over-	≥30.0	Number of	
characteristic	145 cm	women	(BMI)	normal)	(total thin)	thin)	thin)	obese)	weight)	(obese)	women	

Wealth quintile Lowest 2.4 2,371 20.8 69.9 21.5 14.8 6.7 8.6 7.1 1.5 1,975 2,316 2,553 2,847 3,037 22.0 22.8 24.2 25.6 2.5 1.5 0.9 2,777 2,994 3,233 69.2 64.5 54.7 13.9 12.3 9.4 9.5 8.5 4.5 3.7 2.8 16.9 23.3 35.9 12.7 16.5 4.2 6.8 12.5 Second Middle 6.6 23.3 Fourth Highest 0.2 3,351 46.6 7.0 4.8 2.2 46.4 26.3 20.0 Total 1.4 14,726 23.3 59.7 12.1 8.4 3.8 28.2 18.2 9.9 12,728

Note: The body mass index (BMI) is expressed as the ratio of weight in kilograms to the square of height in metres (kg/m²).

¹ Excludes pregnant women and women with a birth in the preceding 2 months

Table 11.13 Prevalence of anaemia in women

Percentage of women age 15-49 with anaemia, according to background characteristics, Nigeria DHS 2018

	_	Λ		status by haemoglo		
	_	Any	Mild	Moderate	Severe	
Background	Non-pregnant	<12.0 g/dl	11.0-11.9 g/dl	8.0-10.9 g/dl	<8.0 g/dl	Number
characteristic	Pregnant	<11.0 g/dl	10.0-10.9 g/dl	7.0-9.9 g/dl	<7.0 g/dl	of women
.ge						
15-19		60.5	30.5	28.6	1.3	2,711
20-29		56.0	26.2	28.5	1.3	4,941
30-39		58.4	27.5	28.8	2.1	4,402
40-49		57.5	28.4	27.4	1.6	2,563
umber of children ever born						
0		56.8	29.1	26.6	1.2	3,636
1 2-3		57.7 55.8	27.6 26.2	28.4 28.2	1.6 1.4	1,749 3,417
4-5		57.3	26.9	28.6	1.9	2,725
4- 5 6+		61.8	29.1	30.7	2.0	3,090
aternity status						•
Pregnant		61.1	25.8	33.0	2.3	1,542
Breastfeeding		59.7	27.6	30.0	2.1	3,749
Neither		56.5	28.2	27.0	1.3	9,327
sing IUD						
Yes		60.4	39.5	19.1	1.8	85
No		57.8	27.7	28.5	1.6	14,533
igarette use¹						
Smokes cigarettes		(51.2)	(35.6)	(12.5)	(3.1)	25
Does not smoke cigarettes		57.8	27.8	28.4	1.6	14,592
•		07.0	20	20.7	1.0	17,002
l esidence Urban		53.6	27.6	24.8	1.2	6,786
Rural		61.5	28.0	31.5	1.9	7,831
one						,
North Central		55.2	26.5	27.5	1.2	2,093
North East		58.3	27.1	29.5	1.6	2,222
North West		58.8	27.1	29.4	2.3	3,906
South East		66.0	29.9	34.3	1.8	1,823
South South		60.1	25.7	32.4	2.0	1,813
South West		51.1	30.3	20.3	0.5	2,759
tate						
North Central		E0 2	27.4	22.7	0.5	440
FCT-Abuja		50.3 48.8	27.1	22.7	0.5	112 496
Benue Kogi		48.8 58.2	25.8 30.6	22.7 27.0	0.3 0.6	496 224
Kogi Kwara		56.2 54.9	26.6	27.0 26.5	1.8	256
Nasarawa		65.1	24.6	36.9	3.6	236
Niger		64.2	26.5	37.4	0.2	468
Plateau		43.7	25.8	15.6	2.3	301
North East						
Adamawa		35.9	18.6	16.4	0.9	291
Bauchi		68.6	30.7	35.0	2.9	443
Borno		53.9	27.2	24.8	1.9	516
Gombe		63.6	32.1	29.9	1.6	240
Taraba Yobe		54.0 67.8	26.0 27.3	27.1 39.7	0.9 0.8	294 438
		07.0	Z1.J	59.1	0.0	400
North West Jigawa		65.4	27.3	34.0	4.2	447
Jigawa Kaduna		44.0	27.3 22.7	19.9	4.2 1.4	850
Kano		46.6	23.8	19.3	3.5	775
Katsina		71.2	36.8	33.4	0.9	780
Kebbi		60.4	29.0	30.2	1.2	380
Sokoto		73.7	24.0	48.8	1.0	247
Zamfara		71.3	24.5	42.9	3.9	428
South East						
Abia		58.5	26.2	29.7	2.5	235
Anambra		70.2 71.7	34.3	35.0 45.3	0.9	517 350
Ebonyi Enugu		71.7 60.2	23.1 31.7	45.3 27.4	3.2 1.1	350 324
Imo		64.6	30.9	32.0	1.7	396

			Anaemia	status by haemoglo	bin level	
	_	Any	Mild	Moderate	Severe	
Background	Non-pregnant	<12.0 g/dl	11.0-11.9 g/dl	8.0-10.9 g/dl	<8.0 g/dl	Number
characteristic	Pregnant	<11.0 g/dl	10.0-10.9 g/dl	7.0-9.9 g/dl	<7.0 g/dl	of womer
South South						
Akwa Ibom		57.7	27.8	27.2	2.8	339
Bayelsa		58.4	22.7	34.3	1.4	117
Cross River		46.1	25.0	20.6	0.5	227
Delta		64.1	28.3	32.8	3.0	312
Edo		55.2	26.1	28.5	0.6	181
Rivers		66.1	24.0	40.0	2.1	638
South West						
Ekiti		50.5	26.3	23.2	1.1	198
Lagos		49.5	32.6	16.8	0.2	1,002
Ogun		49.0	28.1	19.6	1.3	363
Ondo		55.2	32.3	22.3	0.5	253
Osun		57.2	30.3	26.1	0.7	358
Oyo		49.7	28.0	21.2	0.4	585
ducation						
No education		63.9	28.1	33.5	2.4	4,823
Primary		58.6	28.3	28.6	1.7	2,228
Secondary		55.3	27.7	26.5	1.2	6,053
More than secondary		47.2	26.8	19.8	0.7	1,513
ealth quintile						
Lowest		65.5	27.8	35.5	2.2	2,354
Second		61.8	27.9	32.1	1.8	2,752
Middle		59.1	29.1	28.4	1.6	2,979
Fourth		55.4	26.7	27.3	1.4	3,223
Highest		50.1	27.7	21.3	1.1	3,310
otal		57.8	27.8	28.4	1.6	14.617

Note: Prevalence is adjusted for altitude and for smoking status if known using formulas in CDC 1998. Figures in parentheses are based on 25-49 unweighted cases.

¹ Includes manufactured cigarettes and hand-rolled cigarettes

Table 11.14 Micronutrient intake among mothers

Among women age 15-49 with a child born in the 5 years preceding the survey, percent distribution by number of days they took iron tablets or syrup during the pregnancy of the last child and percentage who took deworming medication during the pregnancy of the last child, and among women age 15-49 with a child born in the 5 years preceding the survey who live in households that were tested for iodised salt, percentage who live in households with iodised salt, according to background characteristics, Nigeria DHS 2018

			days women during pregnar				Percentage of women who took		Among wo child born ir years wh households was to	n the past 5 no live in in which salt
Background characteristic	None	<60	60-89	90+	Don't know/ missing	Total	deworming medication during preg- nancy of last birth	Number of women	Percentage living in households with iodised salt ¹	Number of women
Age										
15-19	37.6	23.6	7.9	25.5	5.5	100.0	12.7	1,210	95.3	1,160
20-29 30-39	30.2 30.1	25.7 23.7	8.4 8.3	30.1 32.2	5.6 5.6	100.0 100.0	17.3 17.2	9,892 8,391	96.1 96.9	9,418 8,006
40-49	33.7	22.3	8.6	28.9	6.5	100.0	14.6	2,419	97.3	2,312
Residence										
Urban	20.2	23.8	8.0	38.9	9.1	100.0	18.6	8,712	98.1	8,326
Rural	38.0	24.9	8.6	25.0	3.5	100.0	15.5	13,199	95.5	12,571
Zone										
North Central	33.2	27.3	7.2	26.3	6.0	100.0	15.5	3,031	88.9	2,874
North East	31.2	25.2	11.5	31.4	0.6	100.0	21.6	3,862	99.1	3,699
North West South East	38.6 7.2	24.8 26.6	8.8 7.2	24.6 46.1	3.2 13.0	100.0 100.0	11.8 19.5	7,644 2,138	96.3 99.7	7,209 2,120
South South	33.2	26.6 16.7	6.2	33.2	10.6	100.0	19.5 19.4	2,136	99.7 99.2	1,931
South West	24.5	23.5	6.8	35.5	9.6	100.0	20.3	3,218	97.2	3,063
State										
North Central										
FCT-Abuja	31.1	29.8	8.0	1.5	36.7	100.0	15.0	148	99.8	128
Benue	34.3	29.9	9.4	26.0	0.4	100.0	31.0	637	98.2	597
Kogi	37.0	21.8	1.9	26.3	13.0	100.0	18.6	299	100.0	294
Kwara Nasarawa	26.3 22.9	6.6 36.3	2.3 8.6	51.6 31.8	13.1 0.5	100.0 100.0	10.7 22.0	360 329	98.3 99.0	348 285
Niger	39.7	39.4	8.1	8.9	3.9	100.0	2.1	844	66.3	828
Plateau	30.3	12.8	11.1	44.8	1.0	100.0	15.7	415	95.0	394
North East										
Adamawa	17.2	19.8	11.9	50.8	0.4	100.0	41.4	518	100.0	518
Bauchi	31.4	35.7	9.9	22.8	0.2	100.0	16.7	919	98.7	789
Borno Gombe	41.5 27.8	16.1 36.9	8.2 13.8	33.9 21.2	0.3 0.3	100.0 100.0	9.5 12.5	732 444	97.6 99.5	728 443
Taraba	43.9	24.0	15.0	17.0	0.3	100.0	14.1	495	99.4	474
Yobe	24.5	19.0	13.0	41.7	1.9	100.0	35.7	755	99.8	746
North West										
Jigawa	21.7	41.0	12.2	25.0	0.1	100.0	20.1	898	99.9	889
Kaduna	32.7	11.8	8.5	46.7	0.3	100.0	10.5	1,453	100.0	1,401
Kano	20.4	38.7	17.7	22.5	0.6	100.0	10.8	1,682	99.8	1,481
Katsina Kebbi	47.9 47.2	8.6 30.4	6.8 3.0	21.4 19.3	15.4 0.1	100.0 100.0	12.0 18.3	1,440 716	99.6 99.2	1,434 710
Sokoto	63.0	33.9	1.4	1.1	0.5	100.0	5.7	608	100.0	605
Zamfara	62.6	18.3	1.6	17.3	0.1	100.0	6.3	848	63.5	689
South East										
Abia	12.5	67.1	2.9	7.1	10.4	100.0	32.9	259	99.8	259
Anambra	4.4	3.7	3.6	52.2	36.1	100.0	14.7	664	100.0	662
Ebonyi	10.7 2.4	46.3 37.1	7.3	34.0 40.6	1.8	100.0 100.0	20.6 20.2	493	99.3 99.8	482 314
Enugu Imo	7.6	6.0	19.9 6.0	79.9	0.0 0.5	100.0	16.9	317 405	99.7	402
South South										
Akwa Ibom	23.4	42.2	9.6	21.6	3.1	100.0	32.4	360	100.0	298
Bayelsa	45.5	14.3	0.8	4.0	35.4	100.0	21.5	144	98.2	144
Cross River	41.8	26.8	4.9	25.9	0.6	100.0	32.6	231	99.9	219
Delta	28.1	11.8	10.9	27.5	21.8	100.0	9.0	408	97.3	408
Edo Rivers	52.3 27.9	7.2 5.9	5.1 3.4	19.5 59.7	15.9 3.2	100.0 100.0	12.8 16.0	270 606	99.4 100.0	265 598
South West	21.0	0.0	J. r	00.7	U. <u>L</u>	.00.0	10.0	550	. 30.0	550
Ekiti	9.5	27.1	9.6	53.8	0.0	100.0	11.7	226	99.3	224
Lagos	46.5	5.7	2.3	25.8	19.7	100.0	18.1	1,142	95.6	1,011
Ogun	10.7	5.5	17.5	64.4	1.8	100.0	31.3	423	100.0	416
Ondo	13.4	9.5	4.1	55.3	17.7	100.0	5.2	312	99.6	303
Osun	4.8	23.2	7.2	64.6	0.3	100.0	27.1	409	90.4	409

Table	11.	14—Contini	ıed

			f days women during pregnar				Among wome child born in the percentage years who I households in v who took was tester				
Background characteristic	None	<60	60-89	90+	Don't know/ missing	Total	deworming medication during preg- nancy of last birth	Number of women	Percentage living in households with iodised salt ¹	Number of women	
Education											
No education	45.5	24.6	8.6	19.0	2.3	100.0	11.2	9,738	94.2	9,318	
Primary	24.9	26.4	9.4	31.5	7.8	100.0	19.5	3,293	98.2	3,114	
Secondary	18.4	24.2	8.2	40.9	8.4	100.0	21.7	6,962	98.4	6,652	
More than secondary	12.9	21.3	6.4	50.2	9.2	100.0	21.7	1,919	98.1	1,813	
Wealth quintile											
Lowest	49.1	23.5	9.0	16.9	1.6	100.0	11.7	4,716	93.3	4,546	
Second	40.0	25.9	8.8	21.8	3.6	100.0	13.5	4,850	95.1	4,626	
Middle	24.4	26.0	9.2	34.7	5.6	100.0	18.8	4,448	98.0	4,244	
Fourth	18.1	25.7	8.5	40.7	7.0	100.0	20.5	4,103	98.3	3,886	
Highest	18.4	20.6	6.1	42.8	12.1	100.0	20.6	3,794	98.6	3,595	
Total	30.9	24.5	8.4	30.5	5.7	100.0	16.7	21,911	96.5	20,897	

 $^{^{\}mbox{\scriptsize 1}}$ Excludes women in households where salt was not tested

Table 11.15 Foods and liquids consumed by women in the day or night preceding the interview

Percentage of women age 15-49 by type of foods consumed in the day or night preceding the interview, according to background characteristics, Nigeria DHS 2018

Number of women	8,448 14,090 11,641 7,642	19,163 22,658	5,891 6,636 12,225 4,963 7,266	319 1,354 654 684 648 1,357 875	903 1,343 1,469 717 877	1,382 2,493 2,692 2,283 1,136 910 1,328 Continued
Mean number of food groups	4. 4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	5.1	4 4 4 4 6 6 6 7 7 6 6 7 6 7 6 7 6 7 6 7	4 ữ 4 4 ữ & & & - ữ 4 ٢ ሺ ሺ ሂ 4	4 4 4 ữ 4 ữ ừ ở Ơ Ơ ぴ ぴ	7. 4. 4. 7. 7. 4. 4. 7. 7. 4. 7. 7. 4. 7. 7. 4. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
Consum ed ≥5 food groups⁴	54.8 54.4 55.8 58.4	61.0 51.1	46.7 52.4 52.7 59.6 60.3 64.9	35.2 74.5 40.3 52.4 72.4 19.7	41.9 57.3 38.4 64.7 47.5 66.7	45.9 39.0 64.9 52.5 72.7 59.2 39.1
Any other bever- ages and foods ³	47.5 47.0 45.6 46.5	45.2 47.8	46.4 63.6 52.7 36.2 31.7 37.9	404 424 427 427 433 433 433 433 433 433 433 433 433 43	50.8 57.0 83.9 66.2	78.8 44.7 50.0 83.3 12.2 42.7 35.3
Any condi- ments and season- ings	96.2 96.8 96.5 96.7	97.3 96.0	93.3 97.2 96.0 98.5 97.4	98.7 99.8 99.4 97.2 58.8 97.4	97.8 97.3 95.0 99.3 97.2	98.6 98.9 93.5 97.7 99.7 94.8
Sugar- sweet- ened bever- ages	22.0 21.8 22.1 20.9	31.8 13.2	15.7 12.4 13.1 27.7 35.9	23.5 23.5 29.7 29.7 20.7	18.0 9.3 8.7 10.3 17.9	10.1 24.8 6.3 13.2 10.9
Sugary foods ²	22.5 15.5 12.8 1.5	18.9 12.5	11.8 9.7 13.3 21.5 19.0 20.9	1. 8. 1. 1. 2. 2. 4. 8. 0. 6. 6. 4. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	3.0 6.57 7.7 4.1.1 1.8	12.9 9.6 11.7 12.3 14.2
Savoury and fried snacks	22.8 19.0 17.8	19.2 19.3	15.6 25.9 18.2 15.1 19.2	5.9 1.2.7 1.0.8 1.0.8 1.0.8 1.0.0 1.	19.1 17.6 6.9 8.9 21.9 13.0	27.6 11.5 34.3 36.5 6.7 47.9
Oil and fat	52.7 51.0 50.7 48.4	57.0 45.5	32.6 55.8 62.0 53.2 34.1	37.4 33.0 25.3 57.5 50.0 19.7	54.3 48.6 59.5 47.9 72.7	87.5 36.6 71.0 62.8 53.2 63.1 70.6
Red palm oil	75.3 76.2 78.2 78.6	82.1 72.7	84.6 58.2 67.5 90.3 86.2	89.7 98.3 89.7 91.8 78.9 72.5	64.5 77.5 21.7 77.2 73.5 54.5	35.0 82.3 73.2 75.0 66.8 34.6
Insects and other small protein foods	6.8 6.7 8.3 1.8	7.6	4.0 2.9 10.8 32.1 4.5	0.7.7.7.7.0.0 7.0.0.0.0.0.0.0.0.0.0.0.0.	1.0 0.2 2.0 2.0 2.0 2.0	0.8 1.7 2.0 2.6 3.7 4.7
Other fruits	35.9 35.6 35.2 36.7	40.0 32.1	26.1 27.1 36.0 47.9 43.5 37.4	25.6 44.1 32.2 24.8 36.5 11.1	35.5 29.5 14.3 29.3 33.7 27.7	40.8 31.9 30.4 36.7 46.1 60.0 24.0
Other vege- tables	64.1 63.2 63.3 63.3	63.8 63.1	65.2 67.5 59.5 63.9 62.2 65.4	71.1 94.0 47.9 59.3 60.7 63.6	52.0 77.4 47.9 76.4 67.3 85.2	58.6 57.5 67.1 68.0 46.3 52.1 50.7
Fruits and vege- tables rich in vitamin	32.6 32.6 31.5 34.0	33.9 31.4	27.8 34.5 34.4 29.1 24.9 38.9	17.8 26.0 20.7 38.7 63.3 14.7 25.2	17.2 36.6 36.6 32.1 17.7	12.8 23.6 55.1 36.7 29.0 37.7 33.8
Dark green leafy vege- tables	69.0 71.2 74.5 76.9	73.9 71.7	61.0 70.7 70.1 84.1 80.9 75.3	64.16 68.17.77 69.55 69.15	94.3 72.1 67.4 83.0 69.8 50.9	88.4 56.2 77.7 77.7 48.2 89.0 76.0
E998	17.4 16.6 15.0	22.4 10.9	13.6 8.9 11.3 17.3 22.7 28.0	9.3 1.4.1 1.4.1 1.8 1.8 8.5 8.5	6.2 6.5 6.3 9.7 1.6	4.4.6 6.01 7.4.4.7 13.0 12.3
Meat, fish, poultry	68.2 69.3 71.7 73.5	84.2 58.9	70.3 53.8 94.4 96.5	83.3 89.5 79.4 83.8 83.8 1.1	67.7 36.9 54.1 42.9 75.5	44.2 48.3 39.3 39.4 81.0 38.8
Milk, cheese, yogurt, other milk products	22.6 20.5 19.1	22.0 18.8	13.6 17.7 29.5 18.2 14.3	17.3 7.8 7.0 22.5 39.7 10.3	14.2 17.8 14.5 30.8 13.6 19.3	28.5 20.7 26.5 26.9 36.0 33.4
Food made from nuts and seeds	31.2 29.6 30.9 33.3	29.8 31.9	32.4 32.6 27.5 38.9 35.2 25.8	21.4 65.7 7.5.9 3.5.9 2.4.5 4.55	24.3 40.5 15.9 50.2 36.2 37.0	14.6 28.5 39.2 37.7 5.5 20.3
Food made from legumes	48.1 48.8 47.5 49.6	45.1 51.3	37.0 59.6 65.0 37.1 28.5 40.8	24.0 39.3 38.3 38.3 54.3 24.0 23.4	27.6 73.6 61.3 70.9 25.6 81.8	74.2 44.5 77.6 75.7 77.9 45.2 52.7
Foods made of grains, white tubers and roots, or other starchy foods	98.7 98.3 98.3	98.0 98.4	98.6 97.7 99.3 97.4 96.8	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	89.7 99.6 99.6 99.0 98.0	99.7 99.5 99.5 99.5 99.3
Background characteristic	Age 15-19 20-29 30-39 40-49	Residence Urban Rural	Zone North Central North East North West South East South South South West	State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	North East Adamawa Bauchi Borno Gombe Taraba Yobe	Notif West Notif West Kaduna Kano Katsina Kebbi Sokoto Zamfara

Table 11.15—Continued	ntinued																				Ì
Background characteristic	Foods made of grains, white tubers and roots, or other starchy foods	Food made from legumes	Food made from nuts and seeds	Milk, cheese, yogurt, other milk products	Meat, fish, poultry	Eggs	Dark green leafy vege- tables	Fruits and vege- tables rich in vitamin	Other vege-tables	Other fruits	Insects and other small protein foods	Red palm oil	Oil and fat	Savoury and fried snacks	Sugary foods ²	Sugar- sweet- ened bever- ages	Any condi- ments and season- é ings	Any other bever- ages and foods ³	Consum ed ≥5 food groups⁴	Mean number of food groups	Number of women
South East Abia Anambra Ebonyi Enugu	99.4 97.6 98.5 94.9 96.9	61.2 22.7 36.1 53.3 29.5	36.8 13.2 69.8 62.0 25.3	19.2 4.7 7.5 41.6 28.5	92.1 94.4 94.5 95.5	24.0 3.4 18.4 41.4 10.8	94.8 73.2 91.1 89.3 81.6	54.6 9.4 37.9 43.6 19.9	79.6 52.4 64.9 77.5 57.5	73.3 39.3 41.6 61.4 38.6	9.2 0.4 7.1 39.7 5.2	82.1 90.2 95.7 94.3 86.3	63.7 57.4 36.5 54.2 56.5	28.7 2.7 13.7 46.1	39.2 3.9 18.4 20.3	54.4 34.1 21.0 49.9 31.0	99 99 99 99 99 99 99 99 99 99 99 99 99	20.8 2.1 57.4 72.5 43.0	87.6 31.9 72.5 70.1 60.4	6.6 6.6 8.4 8.4 8.4	630 1,477 1,027 880 948
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	94.3 97.6 97.4 99.0 94.0	29.2 42.9 33.0 30.7 21.3	30.7 30.4 34.9 42.5 29.7 36.5	0.6 0.6 0.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1	94.8 98.3 96.4 97.1 97.8	20.8 32.8 32.8 24.4 9.6	86.5 93.9 83.9 67.2 65.7 87.7	28.5 43.5 37.2 25.7 16.3	53.8 36.5 38.9 70.8 55.2 78.4	46.7 46.9 51.1 32.3 34.7 47.9	49.7 26.4 13.1 7.1 0.4 56.0	92.2 83.1 77.2 96.0 87.8	17.1 43.9 41.7 49.7 38.3	22.1 29.3 4.2 9.1 17.9	23.6 20.0 33.5 8.9 17.4	22.7 24.8 27.4 21.2 27.8 35.3	97.9 98.6 95.0 99.5 97.7	36.1 41.8 33.1 16.4 26.1 37.9	53.0 67.2 58.2 62.4 48.5 67.2	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	948 298 574 931 555 1,534
South West Ekiti Lagos Ogun Ondo Osun Oyo	98.4 98.7 96.2 98.9 97.7	63.0 31.9 27.9 39.9 51.3	56.0 26.7 16.3 32.3 13.9	16.4 24.8 17.5 5.4 7.5 7.5	90.5 94.6 80.7 94.6 95.9	26.4 37.7 15.0 11.6 21.4 29.8	80.1 74.2 72.4 60.8 84.4 78.8	46.1 40.2 11.0 61.9 52.0 32.0	62.8 70.7 87.2 88.5 12.4	56.8 33.5 24.0 49.0 63.5 24.2	8 6 7 7 7 7 8 8 7 7 7 7 7 9 9 9 9 9 9 9 9 9	96.5 89.5 78.9 98.2 82.6 76.7	39.1 67.9 25.3 23.3 67.2	32.3 18.8 11.5 9.7 10.2	30.3 20.5 30.7 9.7 36.4	33.2 55.7 21.9 19.2 40.8	98.0 97.4 99.4 96.1 95.0	57.5 59.2 16.2 33.6 4.4	71.1 71.6 75.5 82.6 44.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	475 2,891 927 683 938 1,352
Education No education Primary Secondary More than secondary	98.9 97.8 97.9 98.1	58.8 45.5 42.1 42.6	28.7 34.3 31.8 30.7	22.0 15.3 18.8 26.8	47.1 73.4 84.5 90.6	8.7 12.1 19.7 32.5	70.8 72.3 73.9 75.4	33.2 30.1 31.6 37.2	60.0 62.2 65.3 69.5	27.1 33.7 40.2 49.3	3.0 8.0 6.9 9.9	65.0 82.8 84.0 82.5	52.1 42.0 50.1 60.9	19.2 17.4 19.6 20.6	8.0 12.9 20.6 23.9	8.8 17.3 29.2 42.1	95.7 96.9 97.1	49.8 43.8 46.2	48.3 52.1 59.3 70.3	4.4.0 8.4.0 7.00	14,603 6,039 16,583 4,596
Wealth quintile Lowest Second Middle Fourth Highest Total	99.0 98.4 97.9 98.0 98.2	59.9 51.8 47.3 40.4 48.5	32.7 32.1 33.4 29.4 27.9 31.0	23.2 16.7 16.9 20.0 24.3	41.1 54.4 72.8 84.3 91.7	7. 8.9 12.6 18.9 29.7	74.6 70.6 70.4 71.9 76.0	33.2 30.9 33.2 33.7 32.6	62.3 60.2 62.7 62.3 68.9	27.0 29.9 35.7 38.4 44.9	3.6 5.2 7.7 9.5 10.1	61.8 73.3 80.1 83.2 83.5 77.0	52.6 44.3 45.0 51.4 59.5	20 18 18 19 19 19 19 19 19	9.44.0 9.44.0 1.32.0 1.32.0 1.32.0	7.2 9.7 16.7 27.8 42.0	95.7 96.0 96.8 96.9 97.3	54.2 45.3 42.4 42.4 46.6	48.9 53.4 56.8 56.8 55.6	444400 4 60804 6	7,222 8,045 8,207 8,990 9,357

¹ Includes squash that is orange inside, pumpkin, carrot, red sweet pepper (tatase), sweet potato that is orange inside (orange flesh sweet potatoes), ripe pawpaw (gwanda/ibeppe/okwuru oru/bobo), ripe mangoes, ripe passion fruit, dorowa (locust bean fruit), red palm fruit, hog plum (tsadan gida, iyeye, ngulungu), ripe cantaloupe, musk melon, monkey cola (ndiya), and bush mango fruit

² Includes chocolates, cakes, sweet biscuits, sweet pastries, and ice cream

³ Includes coffee or tea if unsweetened, alcohol, clear broth, soup broth, olives, pickled cucumbers, herbal beverages/infusions (zobo), kunun aya, kunun dawa, water, kolanut, and bitter kola

⁴ Women who consume foods from 5 or more of the following 10 food groups are considered to have a diet adequate in micronutrients: a) grains, white tubers and roots, or other starchy foods; b) legumes; c) nuts and seeds; d) milk, cheese, yogurt, other milk products; e) meat, fish, poultry; f) eggs; g) dark green leafy vegetables; h) fruits and vegetables rich in vitamin A; i) other vegetables; j) other fruits.

Key Findings

- Ownership of insecticide-treated nets: 61% of households own at least one insecticide-treated net (ITN).
- Use of ITNs: 65% of the de facto population in households with at least one ITN slept under an ITN the night before the survey.
- Intermittent preventive treatment (IPTp) during pregnancy: 17% of women age 15-49 with a live birth in the 2 years preceding the survey reported taking three or more doses of SP/Fansidar during their last pregnancy.
- Prevalence of severe anaemia: 8% of children age 6-59 months have with a haemoglobin level below 8 g/dl.
- Malaria prevalence in children: There has been a decrease in the prevalence of malaria among children since 2010, from 42% to 23%.
- Perceptions regarding malaria products: A high percentage (about 82% to 96%) of men and women believe in the effectiveness of malaria medicine.

alaria, a preventable, treatable, and curable disease, is endemic in Nigeria and remains the foremost public health problem in the country, taking its greatest toll on children under age 5 and pregnant women. Africa still bears over 80% of the global malaria burden, of which Nigeria accounts for about 25% globally. It is estimated that approximately 57 million cases of malaria and nearly 100,000 malaria-related deaths occur each year (WHO 2018). The disease overburdens the already weakened health system and exerts a severe social and economic burden on the nation, retarding the gross domestic product (GDP) by 40% annually and costing approximately 480 billion naira in out-of-pocket treatments, prevention expenditures, and loss of man hours (Federal Ministry of Health 2014b). Nigeria's climatic conditions make it suitable for a perennial malaria transmission.

The National Malaria Policy, launched in February 2015, expresses the desire and commitment of the Government of Nigeria at all levels to ensure the elimination of malaria. The policy was conceived within the context of a malaria-free Nigeria and addresses core issues related to malaria prevention, diagnosis, and treatment; communication and social mobilisation; and regulations regarding antimalarial commodities. Its goal is to provide equitable, comprehensive, cost-effective, efficient, and quality malaria elimination services while ensuring transparency, accountability, client satisfaction, and community ownership and partnership (Federal Ministry of Health 2015b).

This chapter presents data that are useful in assessing how well malaria control strategies are being implemented, including the availability and use of mosquito nets, the prophylactic and therapeutic use of antimalarial drugs, diagnostic testing of children with fever, prevalence of anaemia and malaria among children under age 5, and beliefs among women and men regarding the effectiveness of malaria products and the consequences of the disease.

12.1 OWNERSHIP OF INSECTICIDE-TREATED NETS

Ownership of insecticide-treated nets

Households that have at least one insecticide-treated net (ITN). An ITN is defined as a factory-treated net that does not require any further treatment.

Sample: Households

Full household ITN coverage

Percentage of households with at least one ITN for every two people.

Sample: Households

Overall, 62% of households have at least one mosquito net, while 61% have at least one ITN. This implies that almost all mosquito nets owned by households in Nigeria are ITNs. The average number of ITNs per household is 1.3 (**Table 12.1**).

Thirty percent of households have at least one ITN for every two persons who stayed in the household the night preceding the survey. In other words, 30% of households own enough ITNs to cover all household members (**Table 12.1** and **Figure 12.1**). To offer maximum protection, ITN distribution needs to expand to reach the 39% of households that do not currently own any ITNs and to provide enough ITNs for the 31% of households that own at least one ITN but have an insufficient supply for the number of household members (**Figure 12.1**).

Trends: After increasing from 8% in the 2008 NDHS to 69% in the 2015 NMIS, ownership of ITNs dropped to 61% in 2018 (**Figure 12.2**).

Figure 12.1 Household ownership of ITNs

Percent distribution of households

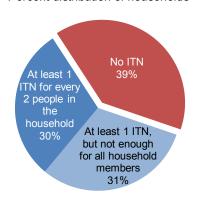
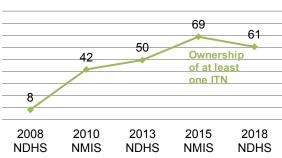


Figure 12.2 Trends in household ownership of ITNs

Percentage of households owning at least one insecticide-treated net (ITN)



Note: The definition of an ITN in surveys conducted prior to 2015 included nets that had been soaked with insecticides within the past 12 months.

Patterns by background characteristics

- Household ownership of ITNs in Nigeria is higher in rural (68%) than urban (53%) areas (Table 12.1).
- Household ownership of ITNs decreases with increasing wealth, from 73% in the lowest wealth quintile to 48% in the highest quintile (Figure 12.3).
- Household ownership of ITNs is highest in the North West (87%) and lowest in the South West (44%).
- Household ownership of an ITN is lowest in Lagos (29%) and highest in Jigawa and Kebbi (98% each). Almost all states in the North West have achieved the national target of 80% household ownership of ITNs (Figure 12.4).

Figure 12.3 ITN ownership by household wealth

Percentage of households with at least one insecticide-treated net (ITN)

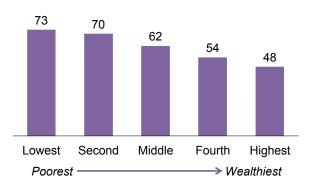
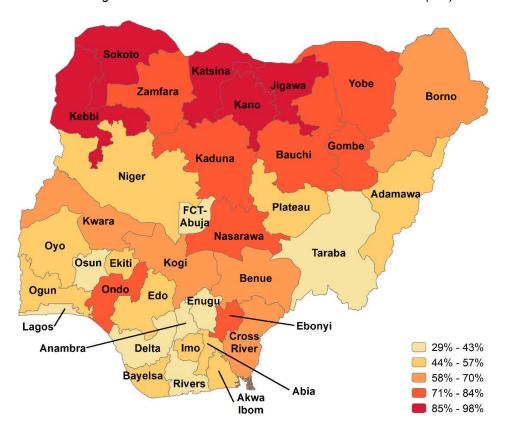


Figure 12.4 ITN ownership by state

Percentage of households with at least one insecticide-treated net (ITN)



The percentage of households owning at least one ITN for every two persons who stayed in the household the night preceding the survey is highest in Jigawa (68%) and lowest in Lagos (9%) (**Table 12.1**).

Source of Nets

About three quarters (74%) of ITNs in Nigerian households were obtained through mass distribution campaigns, while 7% were obtained during immunisation visits, 5% were obtained from government health facilities, and 4% were obtained during antenatal care visits (**Table 12.2** and **Figure 12.5**).

Patterns by background characteristics

- Seventy-four percent of nets in rural areas and 69% in urban areas were obtained through mass distribution campaigns (**Table 12.2**).
- The percentage of households obtaining nets through mass campaigns was highest in Kebbi and Imo (97% each) and lowest in Enugu (22%).
- Eighty-five percent of mosquito nets obtained from a shop/market were classified as other nets (any nets that are not ITNs). The percentage of households obtaining nets in a shop/market was highest in Yobe (60%) and lowest in Ekiti and Osun (less than 1% each) (**Table 12.2**).

12.2 HOUSEHOLD ACCESS TO AND USE OF ITNS

Access to an ITN

Percentage of the population that could sleep under an ITN if each ITN in the household were used by up to two people.

Sample: De facto household population

Use of ITNs

Percentage of the population that slept under an ITN the night before the survey.

Sample: De facto household population

Access to an ITN is measured by the proportion of the population that could sleep under an ITN if each ITN in the household were used by up to two people. Comparing ITN access and ITN use indicators can help programs identify if there is a behavioural gap in which available ITNs are not being used. If the difference between these indicators is substantial, the ITN program may need to focus on behaviour change and identify the main barriers to ITN use. This analysis helps ITN programs determine whether they need to achieve higher ITN coverage, promote ITN use, or both.

Nationally, 48% of de facto household members in Nigeria who stayed in the household the night before the survey could sleep inside an ITN if each ITN were used by up to two people (**Table 12.3**). The results showed that 43% of the population slept

Figure 12.5 Source of ITNs

Percent distribution of insecticide-treated nets (ITNs) in interviewed households

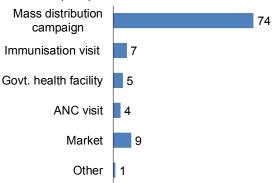
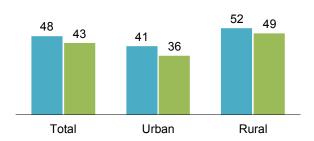


Figure 12.6 Access to and use of ITNs by residence

Percentage of the household population with access to an insecticide-treated net (ITN) and percentage that slept under an ITN the night before the survey

Access to an ITN
Slept under an ITN



under an ITN the night before the survey (Table 12.5 and Figure 12.6). Comparing these two indicators, it is evident that there is only a small difference between ITN access and ITN use at the population level. Overall, 81% of ITNs were used the night before the survey (**Table 12.6**).

Patterns by background characteristics

- Access to ITNs is higher in rural areas (52%) than in urban areas (41%) (**Table 12.4**).
- The percentage of household residents with access to an ITN ranges from 38% among those in the highest wealth quintile to 55% among those in the lowest quintile.
- ITN access among the de facto population ranges from a high of 65% in the North West to a low of 35% in the South West.
- Rural residents (49%) are more likely than urban residents (36%) to have slept under an ITN the night before the survey (Table 12.5).
- The difference between ITN access and ITN use is slightly higher among urban residents (5 percentage points) than rural residents (3 percentage points) (Figure 12.6).
- The percentage of the household population that slept under an ITN the night before the survey is highest in Jigawa (87%) and lowest in Lagos (13%) (**Table 12.5**).
- Use of ITNs decreases with increasing household wealth (Table 12.5). Use of existing ITNs is more common in households in the lowest wealth quintile (90%) than in households in the highest quintile (68%) (Table 12.6).

12.3 USE OF ITNS BY CHILDREN AND PREGNANT WOMEN

Use of ITNs by Children

Over half (52%) of children less than age 5 slept under an ITN the night before the survey. The percentage of children who slept under an ITN decreases with increasing age, from 57% among those less than age 12 months to 48% among those age 48-59 months (Table 12.7). Fifty-eight percent of pregnant women slept under an ITN the night before the survey (Table 12.8).

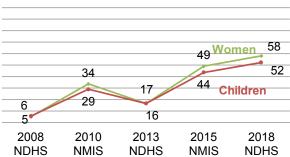
Trends: Use of ITNs among children under age 5 has increased over the past 10 years, from 5% in 2008 to 52% in 2018. Similarly, use of ITNs by pregnant women has increased from 6% to 58% (Figure 12.7).

Patterns by background characteristics

- A higher percentage of children in rural (57%) than urban (45%) areas slept under an ITN the night before the survey (Table 12.7). A similar pattern was observed among pregnant women (65% and 45%, respectively) (**Table 12.8**).
- The proportions of children under age 5 and pregnant women who slept under an ITN the night before the survey are highest in the North West (73% and 79%, respectively) and lowest in the South South (34% and 29%, respectively).

Figure 12.7 Trends in use of ITNs by pregnant women and children

Percentage who slept under an insecticide-treated net (ITN)



Note: The definition of an ITN in surveys conducted prior to 2015 included nets that had been soaked with insecticides within the past 12 months

• Children under age 5 and pregnant women from households in the lowest wealth quintile (60% and 68%, respectively) were more likely to sleep under an ITN the night before the survey than those from the highest wealth quintile (40% and 38%, respectively) (**Table 12.8**).

12.4 Reasons for Not Using the Net the Night Preceding the Interview

Table 12.9 presents reasons given by respondents for not sleeping under a mosquito net the night before the survey. This information is important to the National Malaria Elimination Programme (NMEP) for identifying barriers to net usage. Overall, 19% of mosquito nets were not used the night before the survey.

The main reasons given for not using a mosquito net the night before the survey were that the net was not needed (29%), there were no mosquitos (15%), and it was too hot (14%).

Seven percent of respondents reported not using a net because they thought that the chemicals used in ITNs are unsafe. By zone, this reason was most often reported by respondents in the North West (27%) (**Table 12.9**).

The percentage of respondents reporting that mosquito nets were not used because they were not needed ranged from 3% each in Adamawa and Plateau to 70% in Sokoto (**Table 12.9**).

12.5 MALARIA IN PREGNANCY

Intermittent preventive treatment (IPTp) during pregnancy

Percentage of women who took at least three doses of SP/Fansidar during their last pregnancy.

Sample: Women age 15-49 with a live birth in the 2 years before the survey

Malaria infection during pregnancy is a major public health problem in Nigeria, with substantial risks for the mother, her foetus, and the neonate. Intermittent preventive treatment of malaria in pregnancy (IPTp) is a full therapeutic course of antimalarial medicine given to pregnant women at routine antenatal care visits to prevent malaria. IPTp helps prevent maternal malaria episodes, maternal and foetal anaemia, placental parasitaemia, low birth weight, and neonatal mortality.

The World Health Organization (WHO) recommends a three-pronged approach for reducing the negative health effects associated with malaria in pregnancy: prompt diagnosis and treatment of confirmed infections, use of long-lasting insecticidal nets (LLINs), and IPTp (WHO 2004).

Sulfadoxine-pyrimethamine (SP), sold under the brand name Fansidar, is the recommended medicine for IPTp in Nigeria. For more than 10 years, the Federal Ministry of Health has been implementing IPTp, defined as provision of at least two doses of SP/Fansidar to protect the mother and her child from malaria during routine antenatal care visits in the second and third trimesters of pregnancy (IPTp2+). In 2014, the National Malaria Elimination Programme adopted the 2012 WHO recommendation to administer one dose of SP/Fansidar at each antenatal care (ANC) visit after the first trimester, with at least 1 month between doses (Federal Ministry of Health 2014c). The household survey indicator used to measure coverage of this intervention is the percentage of women with a live birth in the 2 years preceding the survey who received three or more doses of SP/Fansidar to prevent malaria during their most recent pregnancy (IPTp3+).

Sixty-four percent (64%) of women with a live birth in the 2 years preceding the survey reported having taken one or more doses of SP/Fansidar; 40% reported taking two or more doses, and 17% reported taking three or more doses (**Table 12.10**).

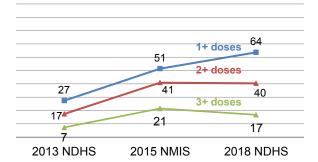
Trends: The percentage of pregnant women who reported taking one or more doses of SP/Fansidar has increased since 2013, from 27% to 64%. There have also been increases in the percentage of women taking two or more doses (from 17% to 40%) and three or more doses (from 7% to 17%) (**Figure 12.8**).

Patterns by background characteristics

The proportion of women with a live birth in the 2 years preceding the survey who received three or more doses of SP/Fansidar is higher in urban areas (21%) than in rural areas (14%) (**Table 12.10**).

Figure 12.8 Trends in IPTp use by pregnant women

Percentage of women with a live birth in the 2 years before the survey who received at least 1, 2, or 3 doses of SP/Fansidar



- Thirty-eight percent of women in the South East received three or more doses of SP/Fansidar, as compared with 11% of women in the North West.
- The percentage of women receiving SP/Fansidar (one or more, two or more, or three or more doses) generally increases with increasing education and wealth (**Table 12.10**).

12.6 CASE MANAGEMENT OF MALARIA IN CHILDREN

Care seeking for children under age 5 with a fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey for whom advice or treatment was sought from a health provider, a health facility, or a pharmacy.

Sample: Children under 5 with a fever in the 2 weeks before the survey

Diagnosis of malaria in children under age 5 with a fever

Percentage of children under age 5 with a fever in the 2 weeks before the survey who had blood taken from a finger or heel for testing. Fever or history of fever is an entry point for parasitological testing for malaria.

Sample: Children under age 5 with a fever in the 2 weeks before the survey

Artemisinin-based combination therapy (ACT) for children under age 5 with a fever

Among children under age 5 with a fever in the 2 weeks before the survey who took any antimalarial drugs, the percentage who received artemisinin-based combination therapy (ACT).

Sample: Children under age 5 with a fever in the 2 weeks before the survey

Almost a quarter (24%) of children under age 5 had a fever in the 2 weeks preceding the survey (**Table 12.11**). Advice or treatment was sought for 73% of these children, and 14% had blood taken from a finger or heel for testing.

Patterns by background characteristics

- The prevalence of fever among children under age 5 is higher (28%) in rural areas than in urban areas (19%) (**Table 12.11**).
- The percentage of children with a fever in the 2 weeks preceding the survey ranges from a high of 35% in the North East to a low of 9% in the South West.

- The proportion of children with a fever in the past 2 weeks is highest among those whose mothers have no education (29%) and lowest among those whose mothers have more than a secondary education (14%) (**Table 12.11**).
- Children of mothers with more than a secondary education (24%) are more likely than children of mothers with no education (11%) to have had blood taken from their finger or heel for testing.

Source of Advice or Treatment for Children with Fever

Among children with a fever for whom advice or treatment was sought, 58% received advice or treatment from a private sector source, while 37% received advice or treatment from a public sector source (**Table 12.12**). Chemists/patent medicine stores (47%) and pharmacies (7%) were the most prominent private sector sources of care, while government health centres (18%) and government hospitals (10%) were the primary sources in the public sector.

Type of Antimalarial Drugs Used

Among children who were given antimalarial medicines, more than one in two (52%) were given artemisinin-based combination therapy (ACT) (**Table 12.13**); 17% received chloroquine, 8% received artesunate injections, 7% were given SP/Fansidar, and 6% received quinine injections. The percentage of children receiving ACT for fever has increased since 2013 (from 18% to 52%).

Patterns by background characteristics

- Use of ACT for treatment of fever was most common in the South East (77%) and least common in the North East (42%).
- The percentage of children receiving ACT is highest among those whose mothers have more than a secondary education (61%) and lowest among those whose mothers have no education (49%).
- Similarly, the percentage of children receiving ACT is highest among those from households in the highest wealth quintile (61%) and lowest among those from households in the lowest quintile (47%).

12.7 PREVALENCE OF LOW HAEMOGLOBIN IN CHILDREN

Prevalence of low haemoglobin in children

Percentage of children age 6-59 months who had a haemoglobin measurement of less than 8 grams per decilitre (g/dl) of blood. The cut-off of 8 g/dl is often used to classify malaria-related anaemia.

Sample: Children age 6-59 months

Anaemia, defined as a reduced level of haemoglobin in the blood, decreases the amount of oxygen reaching the tissues and organs of the body and reduces their capacity to function. Anaemia is associated with impaired motor and cognitive development in children. The main causes of anaemia in children are malaria and inadequate intake of iron, folate, vitamin B12, and other nutrients. Other causes of anaemia include intestinal worms, haemoglobinopathy, and sickle cell disease. Although anaemia is not specific to malaria, trends in anaemia prevalence can reflect malaria morbidity, and they respond to changes in the coverage of malaria interventions (Korenromp et al. 2004).

Children age 6-59 months in one-third of the households selected for the man's survey were tested for anaemia using the battery-operated portable HemoCue analyser to measure the prevalence of low haemoglobin. Of the total children eligible, 97% were successfully tested for anaemia (**Table 12.14**). Results of the tests were given to the mothers or caregivers of the children. Mothers of children whose

results indicated anaemia were counselled and referred to nearby health centres. The percentage of severe anaemia (<8.0 g/dl) among children age 6-59 months was 8% (**Table 12.15**).

Patterns by background characteristics

- The prevalence of severe anaemia (haemoglobin <8.0 g/dl) is highest among children age 6-8 months (10%) and lowest among children age 48-59 months (5%) (**Table 12.15**).
- The percentage of children with severe anaemia is highest among those whose mothers have no education (11%) and lowest among those whose mothers have more than a secondary education (1%).
- By wealth quintile, severe anaemia ranges from a high of 14% among children in the lowest quintile to a low of 2% among children in the highest quintile.

12.8 PREVALENCE OF MALARIA IN CHILDREN

Malaria prevalence in children

Percentage of children age 6-59 months classified as infected with malaria according to microscopy results.

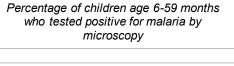
Sample: Children age 6-59 months

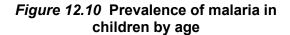
Children age 6-59 months in one-third of the households selected for the man's survey were tested for malaria via rapid diagnostic tests (RDTs) (see **Figure 1.1** in Chapter 1). Three-fourths (75%) of the samples from these households were tested through microscopy. Of the total eligible children, 97% were successfully tested for malaria via RDTs and 96% were tested through microscopy (**Table 12.14**).

In the field, laboratory scientists used the SD Bioline Ag P.f. (HRP-II)TM RDT to determine whether children had malaria; blood was obtained from finger- or heel-prick samples. Children with positive RDT results were offered antimalarial treatment according to the Nigeria malaria treatment protocol. In addition, thick smears from each child's blood were made in the field, dried in a dust-free environment, stored in slide boxes, and transported within 7 days to one of 19 (two states per cluster) laboratories for staining; they were then transported to the ANDI Centre of Excellence for Malaria Diagnosis (Department of Medical Microbiology and Parasitology, Lagos University Teaching Hospital, Idi-Araba, Lagos State) for confirmatory microscopy diagnosis. Twenty percent of primarily read slides were taken to the University of Calabar Teaching Hospital for quality control assessment. There was 98% agreement on the results between the primary laboratory and external quality control.

Table 12.16 presents the results of malaria testing among children age 6-59 months according to RDT and microscopy. About a quarter (23%) of children were reported to have tested positive for malaria by microscopy, while 36% tested positive by RDT (**Table 12.16**). The 2018 NDHS was conducted between mid-August and December 2018, at the peak of malaria season. Normally, a spike in malaria cases in Nigeria occurs after the end of the rainy season during these months. The 2010 NMIS (October to December 2010) and the 2015 NMIS (October to November 2015) were conducted during a similar period when malaria transmission was at its peak (National Population Commission, National Malaria Elimination Programme, and ICF 2016).

Figure 12.9 Trends in malaria prevalence among children



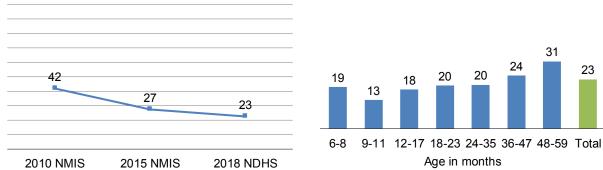


Percentage of children age 6-59 months who tested positive for malaria by microscopy

31

23

24

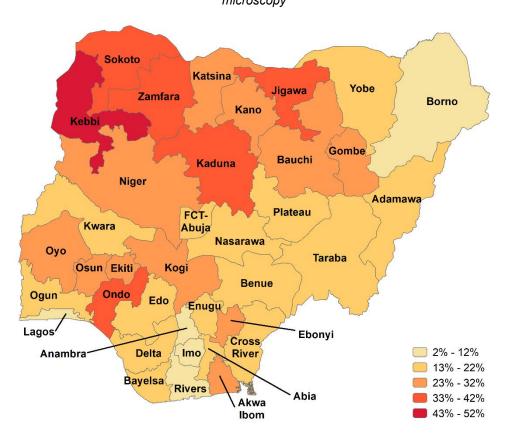


Trends: The prevalence of malaria (according to microscopy) among children age 6-59 months declined from 42% in 2010 to 23% in 2018, with an average decline of 2.3% per annum (Figure 12.9).

Patterns by background characteristics

The percentage of children with malaria (according to microscopy) ranges from 13% among those age 9-11 months to 31% among those age 48-59 months (Figure 12.10).

Figure 12.11 Prevalence of malaria in children by state Percentage of children age 6-59 months who tested positive for malaria by microscopy



- Malaria prevalence among children decreases with increasing mother's education and household wealth (Table 12.16).
- The prevalence of malaria among children is highest in Kebbi (52%) and lowest in Lagos (2%) (**Figure 12.11**).

Malaria Prevalence and Fever among Children

The practice of treating most fever cases as malaria without laboratory confirmation has been documented in various studies in Nigeria (National Population Commission, National Malaria Elimination Programme, and ICF 2012). Therefore, improving and scaling up laboratory diagnosis capacity to ensure confirmation of malaria cases before treatment is one of the strategic thrusts of the National Malaria Elimination Programme (Federal Ministry of Health 2014b). Nigeria updated its National Guidelines for Diagnosis and Treatment for Malaria in line with the World Health Organization recommendation that all suspected malaria cases be confirmed by either RDT or microscopy (Federal Ministry of Health 2011). Therefore, it is critical to have information on the proportion of children reported as having a fever who are actually diagnosed with malaria.

Table 12.17 shows the proportion of positive RDT and microscopy test results among children age 6-59 months reported to have had a fever within the 2 weeks before the survey, by background characteristics. Forty-eight percent of children with a fever in the last 2 weeks had positive RDT results, while 29% had positive microscopy results.

12.9 BELIEFS ABOUT THE EFFECTIVENESS OF MALARIA BEHAVIOURS AND PRODUCTS AND ABOUT MALARIA CONSEQUENCES

Beliefs about the effectiveness of recommended malaria behaviours and products

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who agree with specified statements regarding malaria behaviours and products.

Sample: Women age 15-49

Beliefs about the effectiveness of recommended malaria behaviours and products

Percentage of men age 15-49 who are married or cohabiting and have at least one child under age 5 who agree with specified statements regarding malaria behaviours and products.

Sample: Men age 15-49

Beliefs about the consequences of malaria

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who agree with specified statements regarding malaria consequences.

Sample: Women age 15-49

Beliefs about the consequences of malaria

Percentage of men age 15-49 who are married or cohabiting and have at least one child under age 5 who agree with specified statements regarding malaria consequences.

Sample: Men age 15-49

Measuring attitudes and behaviours regarding malaria and malaria commodities and services at the population level can inform advocacy, communication, and social mobilisation strategies. It can also

improve data-driven programming of the malaria national response through robust data referencing and guide the Government of Nigeria and development partners in designing effective social and behaviour change communication (SBCC) strategies for specific contexts. Respondents were asked about their perceptions of the effectiveness of malaria intervention strategies (IPTp, RDT, and ACT) and the consequences of the disease. The results will stand as a baseline for subsequent survey findings.

Beliefs about the Effectiveness of Recommended Malaria Behaviours and Products

Ninety-six percent of women and 89% of men age 15-49 agree that medicine given to pregnant women to prevent malaria works well to keep the mother and the baby healthy (**Table 12.18.1** and **Table 12.18.2**). Eighty-three percent of women and 75% of men agree that taking a malaria test is the only way to know if someone really has malaria or not. Similarly, 42% of women and 54% of men agree that even if a malaria test shows that a fever is not caused by malaria, they will still seek out treatment for malaria because they do not trust the test result. Ninety percent of women and 82% of men agree that when the entire course of malaria medicine is taken, the disease will be fully cured (**Table 12.18.1** and **Table 12.18.2**).

Beliefs about the Consequences of Malaria

Two-thirds (66%) of women and three-fourths (75%) of men agree that every case of malaria can potentially lead to death (**Table 12.19.1** and **Table 12.19.2**). Forty-six percent of both women and men agree that malaria can be easily treated. Approximately 7 in 10 women and men agree that they know people who have become dangerously sick with malaria. About one-third of women and men agree that only weak children can die of malaria (**Table 12.19.1** and **Table 12.19.2**).

LIST OF TABLES

For more information on malaria, see the following tables:

•	Table 12.1	Household possession of mosquito nets
•	Table 12.2	Source of mosquito nets
	Table 12.3	Access to an insecticide-treated net (ITN)
	Table 12.4	Access to an ITN by background characteristics
•	Table 12.5	Use of mosquito nets by persons in the household
	Table 12.6	Use of existing ITNs
•	Table 12.7	Use of mosquito nets by children
•	Table 12.8	Use of mosquito nets by pregnant women
•	Table 12.9	Reasons for not using the specific net the night preceding the interview
•	Table 12.10	Use of intermittent preventive treatment (IPTp) by women during pregnancy
•	Table 12.11	Prevalence, diagnosis, and prompt treatment of children with fever
•	Table 12.12	Source of advice or treatment for children with fever
•	Table 12.13	Type of antimalarial drugs used
•	Table 12.14	Coverage of testing for anaemia and malaria in children
•	Table 12.15	Haemoglobin <8.0 g/dl in children
•	Table 12.16	Prevalence of malaria in children
•	Table 12.17	Malaria prevalence among children with a fever in the last 2 weeks
٠	Table 12.18.1	Beliefs about the effectiveness of the recommended malaria behaviours and products: Women
•	Table 12.18.2	Beliefs about the effectiveness of the recommended malaria behaviours and products: Men
•	Table 12.19.1	Beliefs about the consequences of malaria: Women
ı,	Table 12.19.2	Beliefs about the consequences of malaria: Men

Table 12.1 Household possession of mosquito nets

Percentage of households with at least one mosquito net (treated or untreated) and one insecticide-treated net (ITN), average number of nets and ITNs per household, and percentage of households with at least one net and ITN per two persons who stayed in the household last night, according to background characteristics, Nigeria DHS 2018

<u> </u>		of households ne mosquito net		umber of nets		with at least of two persons w	of households one net for every who stayed in the ld last night	Number of households with at least
Background characteristic	Any mosquito net	Insecticide- treated mosquito net (ITN) ¹	Any mosquito net	Insecticide- treated mosquito net (ITN) ¹	Number of households	Any mosquito net	Insecticide- treated mosquito net (ITN) ¹	one person who stayed in the household last night
Residence								
Urban Rural	54.1 68.3	52.8 67.5	1.1 1.5	1.1 1.5	18,940 21,487	26.4 34.1	25.6 33.5	18,916 21,452
Zone								
North Central	59.0	58.3	1.1	1.1	5,697	28.9	28.4	5,692
North East	68.6	67.3	1.5	1.5	5,694	29.7	28.7	5,692
North West	88.2	87.3	2.2	2.2	9,841	43.6	42.8	9,829
South East South South	48.2 46.6	47.9 45.8	1.0 0.8	1.0 0.8	4,752 5,729	24.9 25.0	24.8 24.3	4,736 5,711
South West	46.0	45.6 44.4	0.8	0.8	8,714	23.9	23.0	8,707
	10.0		0.0	0.7	0,7 1 1	20.0	20.0	0,707
State North Central								
FCT-Abuja	40.0	39.5	0.6	0.6	287	14.1	14.1	287
Benue	65.2	64.1	1.2	1.2	1,230	29.5	28.5	1,229
Kogi	68.9	68.5	1.3	1.3	707	44.3	44.0	706
Kwara	66.0	65.5	1.4	1.4	771	37.7	37.5	771 504
Nasarawa Niger	77.5 47.2	76.6 46.9	1.8 0.8	1.8 0.8	591 1,229	45.6 16.6	45.2 16.4	591 1,229
Plateau	46.4	45.5	0.8	0.8	883	18.6	18.0	880
North East								
Adamawa	49.3	47.7	1.3	1.3	908	34.7	32.7	908
Bauchi	85.1	84.3	1.9	1.9	1,146	31.5	31.0	1,146
Borno	70.4	68.3	1.3	1.3	1,271	32.2	30.8	1,271
Gombe	75.3	74.2	1.8	1.8	550 730	28.9	28.5	550 717
Taraba Yobe	40.2 80.5	40.1 79.2	0.7 1.9	0.7 1.8	720 1,100	13.1 32.3	13.1 31.0	717 1,100
	00.0	10.2	1.5	1.0	1,100	02.0	01.0	1,100
North West Jigawa	98.7	98.0	3.1	3.1	1,134	68.9	68.2	1,133
Kaduna	80.4	79.3	1.6	1.5	1,950	29.3	28.4	1,950
Kano	86.9	85.2	2.3	2.2	2,153	42.5	40.6	2,150
Katsina	92.0	91.8	2.7	2.7	1,820	51.6	51.6	1,820
Kebbi Sokoto	98.1 88.2	98.1 86.6	2.6 1.9	2.6 1.9	910 843	51.9 40.9	51.9 39.6	910 836
Zamfara	78.3	77.9	1.6	1.6	1,030	25.4	25.4	1,030
South East					,			,
Abia	45.5	45.4	0.8	0.8	664	22.9	22.9	661
Anambra	33.0	32.8	0.6	0.6	1,391	13.5	13.5	1,390
Ebonyi	75.7	75.7	1.7	1.7	852	38.5	38.4	850
Enugu	39.3	38.3	0.6	0.6	870	18.2	17.6	870
lmo	55.7	55.4	1.4	1.4	974	37.0	36.9	965
South South	FC 2	EE O	1.0	1.0	1.040	22.2	22.0	1.045
Akwa Ibom Bayelsa	56.2 47.2	55.8 47.2	1.2 0.8	1.2 0.8	1,048 404	33.2 26.7	32.9 26.7	1,045 404
Cross River	57.8	57.5	0.8	0.8	739	32.4	32.3	729
Delta	41.5	38.5	0.6	0.6	1,271	20.3	17.6	1,271
Edo	57.0	57.0	1.2	1.2	710	37.2	37.2	710
Rivers	33.9	33.9	0.5	0.5	1,556	13.8	13.7	1,552
South West	45.0	45.0	0.7	0.7	200	00.4	00.4	000
Ekiti Lagos	45.3 33.4	45.3 29.3	0.7 0.5	0.7 0.4	629 2,971	23.1 11.0	23.1 9.2	628 2,970
Ogun	49.5	47.9	0.9	0.9	1,251	30.7	29.6	1,248
Ondo	80.0	79.8	1.6	1.6	844	54.9	54.7	843
Osun	42.1	42.1	0.6	0.6	1,219	16.9	16.9	1,217
Oyo	51.5	51.4	0.8	0.8	1,801	30.7	30.6	1,801
Wealth quintile	-	70.0	4 -	4 -	0.040	6.1.6	0.1.0	0.00=
Lowest Second	73.9 71.1	73.2 70.4	1.7 1.6	1.7 1.5	6,912 7,499	34.9 35.3	34.3 34.8	6,905 7,489
Middle	62.8	70. 4 62.1	1.6 1.3	1.5	7,499 8,273	35.3 31.9	34.8 31.2	7,489 8,253
Fourth	55.0	54.2	1.1	1.1	8,676	27.4	26.9	8,671
Highest	49.7	47.8	1.0	0.9	9,068	24.8	23.7	9,050
Total	61.6	60.6	1.3	1.3	40,427	30.5	29.8	40,369

¹ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.2 Source of mosquito nets

Percent distribution of mosquito nets by source of net, according to background characteristics, Nigeria DHS 2018

Background characteristic	Mass distri- bution campaign	ANC visit	Immu- nisation visit	Govern- ment health facility	Private health facility	Phar- macy	Shop/ market	Com- munity health worker	Religious insti- tution	School	Other	Don't know/ missing	Total	Number of mosquito nets
Type of net ITN ¹ Other ²	73.5 0.0	3.8 0.0	7.1 0.0	5.0 0.0	0.1 0.0	0.2 1.7	9.4 85.1	0.2 1.3	0.0 0.7	0.1 0.5	0.6 9.8	0.0 0.8	100.0 100.0	52,354 912
Residence Urban Rural	69.3 74.1	4.2 3.5	7.3 6.8	4.0 5.5	0.1 0.1	0.4 0.1	12.9 9.3	0.3 0.1	0.1 0.0	0.2 0.0	1.2 0.5	0.1 0.0	100.0 100.0	20,487 32,779
Zone North Central North East North West South East South South South West	62.9 59.0 77.2 74.0 77.5 77.1	2.8 3.2 4.4 4.3 4.4 2.4	13.3 9.9 2.9 18.3 6.4 2.8	10.1 1.4 4.4 0.3 3.4 10.4	0.1 0.0 0.0 0.2 0.4 0.1	0.3 0.0 0.1 0.0 0.1 1.1	9.3 25.0 10.2 1.6 6.2 4.4	0.2 0.2 0.2 0.2 0.0 0.0	0.0 0.0 0.0 0.0 0.1 0.2	0.0 0.5 0.0 0.0 0.1 0.1	1.0 0.7 0.5 0.7 1.3 1.2	0.0 0.0 0.0 0.2 0.0	100.0 100.0 100.0 100.0 100.0 100.0	6,441 8,644 22,084 4,797 4,687 6,612
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	28.3 44.2 94.5 82.0 36.4 57.2 86.3	6.1 3.0 1.8 1.7 1.6 5.5	17.0 47.8 0.3 9.4 0.4 2.0 1.6	0.2 0.9 0.1 0.0 58.6 1.3 0.2	0.2 0.4 0.0 0.0 0.0 0.0	0.4 0.0 0.0 0.1 0.0 0.3 1.6	43.1 3.5 2.8 6.3 2.6 29.7 6.5	0.0 0.0 0.0 0.0 0.0 1.3 0.0	1.4 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.1	3.4 0.3 0.5 0.6 0.4 2.6 1.3	0.0 0.0 0.0 0.1 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	176 1,445 948 1,052 1,060 1,029 732
North East Adamawa Bauchi Borno Gombe Taraba Yobe	92.9 86.2 22.6 85.7 41.5 31.8	1.3 4.1 0.7 2.1 8.1 4.8	0.2 2.5 43.7 0.1 2.9 2.2	0.0 0.4 6.8 0.0 0.1	0.0 0.0 0.2 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	4.8 6.3 21.9 11.3 46.7 60.2	0.1 0.1 1.0 0.0 0.0 0.0	0.0 0.0 0.1 0.0 0.0	0.1 0.0 2.4 0.0 0.0 0.0	0.7 0.5 0.6 0.8 0.5 0.9	0.0 0.0 0.0 0.0 0.1 0.0	100.0 100.0 100.0 100.0 100.0 100.0	1,191 2,206 1,674 983 524 2,066
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	70.1 72.2 61.3 84.7 96.7 91.6 84.1	1.9 4.0 7.3 7.9 0.2 0.6 1.9	9.9 1.7 2.4 2.2 0.1 0.0 0.2	10.7 15.0 1.3 0.4 0.0 3.5 0.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 0.0 0.2 0.0 0.0 0.0	6.6 6.1 26.3 4.5 2.8 4.2 12.4	0.5 0.3 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.7 1.2 0.2 0.3 0.0	0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	3,564 3,052 4,848 4,981 2,355 1,613 1,672
South East Abia Anambra Ebonyi Enugu Imo	40.1 75.0 84.0 22.0 97.4	0.2 5.4 6.3 8.5 1.5	58.0 15.6 7.1 57.7 0.3	0.0 0.0 0.4 1.8 0.0	0.0 0.0 0.6 0.2 0.0	0.0 0.0 0.0 0.0 0.0	1.6 2.1 1.1 5.2 0.3	0.0 0.5 0.4 0.2 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.1 1.4 0.1 2.7 0.4	0.0 0.0 0.0 1.8 0.1	100.0 100.0 100.0 100.0 100.0	540 847 1,465 565 1,381
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	90.0 87.8 71.0 43.7 95.0 75.3	1.2 3.7 4.3 6.7 1.0 10.7	6.0 5.9 2.8 21.4 0.6 1.2	1.0 0.3 17.5 0.0 0.5 4.2	0.2 0.0 2.7 0.0 0.0 0.1	0.0 0.2 0.0 0.2 0.3 0.0	0.5 1.4 0.6 25.4 0.8 7.3	0.0 0.0 0.3 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.4 0.0 0.0 0.0 0.0 0.0	0.8 0.7 0.9 2.7 1.8 0.4	0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	1,216 322 619 823 871 834
South West Ekiti Lagos Ogun Ondo Osun Oyo	92.3 62.1 90.7 48.9 96.1 94.6	1.8 7.2 0.7 1.7 0.1 0.8	5.4 6.7 0.1 0.2 3.4 2.2	0.0 0.8 1.9 47.3 0.0 0.0	0.0 0.0 0.0 0.1 0.0 0.2	0.0 3.2 2.5 0.0 0.0	0.2 17.8 0.7 0.8 0.2 0.6	0.0 0.0 0.1 0.0 0.0 0.1	0.2 0.4 0.1 0.2 0.2	0.0 0.2 0.1 0.1 0.0 0.0	0.1 1.0 3.0 0.7 0.0 1.5	0.0 0.7 0.0 0.2 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	431 1,483 1,096 1,386 731 1,486
Wealth quintile Lowest Second Middle Fourth Highest	75.3 74.9 71.0 71.3 67.3	2.8 3.8 4.5 3.8 4.2	4.6 6.6 8.4 8.0 7.7	3.0 5.4 6.6 5.7 3.9	0.0 0.0 0.1 0.2 0.2	0.0 0.1 0.1 0.2 0.9	13.7 8.5 8.3 9.5 13.6	0.2 0.1 0.1 0.2 0.3	0.0 0.0 0.0 0.1 0.1	0.0 0.0 0.1 0.3 0.0	0.4 0.4 0.7 0.7 1.7	0.0 0.1 0.0 0.0 0.2	100.0 100.0 100.0 100.0 100.0	11,853 11,628 11,020 9,869 8,897
Total	72.3	3.8	7.0	4.9	0.1	0.2	10.7	0.2	0.0	0.1	0.7	0.0	100.0	53,266

ANC = Antenatal care

¹ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

² Any net that is not an ITN

Table 12.3 Access to an insecticide-treated net (ITN)

Percent distribution of the de facto household population by number of ITNs the household owns, according to number of persons who stayed in the household the night before the survey, Nigeria DHS 2018

		Number o	of persons wh	o stayed in th	e household t	he night befo	re the survey		
Number of ITNs ¹	1	2	3	4	5	6	7	8+	Total
•	57. 0	40.0	40.0	00.0	00.0	00.0	04.0	00.0	00.0
0	57.8	46.3	40.6	36.6	36.9	33.2	31.8	26.3	33.8
1	36.2	33.0	31.2	25.3	18.7	15.2	12.1	7.0	17.0
2	4.6	17.6	20.8	27.1	27.6	27.4	24.2	15.8	21.4
3	0.9	2.0	5.8	7.8	11.2	14.9	18.2	16.7	12.5
4	0.3	0.7	1.1	2.6	4.1	6.5	9.1	15.8	8.0
5	0.1	0.1	0.3	0.3	1.1	1.4	2.6	7.1	3.0
6	0.0	0.1	0.1	0.2	0.3	0.9	0.9	5.0	2.0
7	0.1	0.2	0.1	0.1	0.2	0.5	1.0	6.2	2.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number	5,996	9,496	17,094	23,681	26,098	24,291	19,318	62,002	187,974
Percentage of the de facto population with access to									
an ITN²	42.2	53.7	49.0	50.8	46.4	47.5	46.5	46.0	47.5

¹ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

² Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

Table 12.4 Access to an ITN by background characteristics

Percentage of the de facto population with access to an ITN in the household, by background characteristics, Nigeria DHS 2018

	Percentage with	
Background	access to an	Number of
characteristic	ITN ^{1,2}	persons
Residence	44.0	04.007
Urban	41.3	81,687
Rural	52.2	106,288
Zone		
North Central	41.9	25,648
North East	46.4	32,436
North West	64.9	58,409
South East	37.3 35.7	20,484
South South South West	34.6	20,579 30,418
South West	34.0	30,410
State		
North Central	04.4	4 000
FCT-Abuja	24.4	1,296
Benue Kogi	48.4 55.5	5,263 2,596
Kwara	49.6	3,271
Nasarawa	59.1	2,865
Niger	29.0	6,415
Plateau	31.8	3,943
North East		
Adamawa	45.2	4,101
Bauchi	55.5	7,189
Borno	42.2	6,783
Gombe	48.3	3,610
Taraba	24.7	3,898
Yobe	53.2	6,856
North West		
Jigawa	86.1	6,780
Kaduna	51.0	10,663
Kano	63.3	13,328
Katsina	71.3	11,444
Kebbi	77.6	5,232
Sokoto	61.0	4,581
Zamfara	49.7	6,381
South East		
Abia	32.2	2,676
Anambra	25.0	5,858
Ebonyi	58.3	4,268
Enugu Imo	26.9 45.1	3,460 4,222
	43.1	4,222
South South		
Akwa Ibom	48.0	3,891
Bayelsa Green Biver	32.4	1,507
Cross River Delta	43.7 29.2	2,335 4,294
Edo	47.7	2,713
Rivers	24.4	5,840
		-,-
South West	31.4	2 106
Ekiti Lagos	20.9	2,106 11,162
Ogun	44.2	3,980
Ondo	68.5	2,978
Osun	32.7	4,020
Oyo	39.0	6,173
Wealth quintile		
Lowest	54.5	37,440
Second	52.7	37,552
Middle	48.9	37,661
Fourth	43.3	37,718
Highest	37.9	37,603
Total	47.5	187,974
	-	

¹ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).
² Percentage of the de facto household population who could sleep under an ITN if each ITN in the household were used by up to two people

Table 12.5 Use of mosquito nets by persons in the household

Percentage of the de facto household population who slept the night before the survey under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among the de facto household population in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Nigeria DHS 2018

	Н	lousehold population	า	Household po	
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of persons	Percentage who slept under an ITN¹ last night	Number of persons
Age					
- 5	52.9	52.2	32,657	74.3	22,954
5-14	40.2	39.6	53,784	57.6	37,000
15-34	42.6	41.9	53,698	65.0	34,654
35-49 50+	43.7 43.2	42.9 42.4	26,663 21,149	68.4 68.8	16,731 13,019
	70.2	72.7	21,149	00.0	13,019
Sex Male	41.3	40.7	92,670	61.9	60,881
Female	46.5	45.8	95,304	68.7	63,491
Residence					
Urban	36.5	35.6	81,686	61.0	47,689
Rural	49.7	49.1	106,288	68.1	76,684
Zone					
North Central	39.4	39.0	25,648	65.7	15,210
North East	44.1	43.2	32,436	63.8	21,977
North West	64.5	63.8	58,409	71.6	52,001
South East	29.6	29.5	20,484	57.6	10,489
South South South West	27.9 28.4	27.2 27.6	20,579 30,418	54.7 57.9	10,224 14,471
	20.4	27.0	30,410	37.9	14,471
State					
North Central FCT-Abuja	24.1	23.8	1,296	57.6	535
Benue	52.9	52.0	5,263	77.8	3,520
Kogi	48.3	48.2	2,596	66.3	1,886
Kwara	30.7	30.4	3,271	45.6	2,177
Nasarawa	51.4	51.2	2,865	67.5	2,174
Niger	29.2	29.0	6,415	61.6	3,021
Plateau	35.8	35.0	3,943	72.7	1,898
North East					
Adamawa	43.5	42.6	4,101	80.6	2,167
Bauchi	49.2	48.7	7,189	57.0	6,138
Borno	42.8	41.9	6,782	68.1	4,172
Gombe	41.6	40.9	3,610	54.2	2,724
Taraba Yobe	20.3 55.3	20.2 53.7	3,898 6,856	50.9 70.4	1,547 5,229
	55.5	55.7	0,000	70.4	5,229
North West	07.0	07.4	6.700	00.6	6.664
Jigawa Kaduna	87.8 54.8	87.1 54.2	6,780	88.6 65.7	6,664
Kauuna Kano	66.9	54.3 65.1	10,663 13,328	65.7 74.5	8,816 11,648
Katsina	64.8	64.7	11,444	69.8	10,609
Kebbi	81.6	81.6	5,232	82.9	5,150
Sokoto	54.2	52.6	4,581	60.2	3,997
Zamfara	43.9	43.8	6,381	54.6	5,116
South East					
Abia	22.8	22.7	2,676	47.4	1,282
Anambra	18.4	18.2	5,858	50.8	2,101
Ebonyi	61.7	61.6	4,268	80.8	3,252
Enugu	20.4	19.9	3,460	48.0	1,437
Imo	24.8	24.8	4,222	43.3	2,417
South South	07.0	0.5.0			
Akwa Ibom	25.9	25.9	3,891	41.8	2,407
Bayelsa Cross Bivor	29.2	29.2	1,507	61.9	711
Cross River Delta	39.7 31.7	39.6 28.5	2,335 4,294	65.9 63.7	1,402 1,919
Edo	27.7	27.7	2,713	46.5	1,618
Rivers	21.5	21.3	5,840	57.6	2,166
South West					
Ekiti	22.2	22.2	2,106	48.3	966
Lagos	15.0	12.8	11,162	38.8	3,681
Ogun	36.3	35.9	3,980	65.3	2,192
Ondo	53.2	53.1	2,978	63.6	2,488
Osun	26.8	26.8	4,020	54.9	1,961
Oyo	39.0	38.9	6,173	75.4	3,184

	Н	lousehold populatior	1	Household po	
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of persons	Percentage who slept under an ITN¹ last night	Number of persons
Wealth guintile					
Lowest	54.1	53.3	37,440	70.3	28,394
Second	52.1	51.5	37,552	69.4	27,840
Middle	45.8	45.3	37,660	66.8	25,512
Fourth	37.0	36.5	37,718	59.9	22,993
Highest	30.8	29.7	37,603	57.0	19,634
Total	43.9	43.2	187,974	65.4	124,373

Note: Total includes 23 persons with missing information on age.

1 An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.6 Use of existing ITNs

Percentage of insecticide-treated nets (ITNs) that were used by anyone the night before the survey, according to background characteristics, Nigeria DHS 2018

Background characteristic	Percentage of existing ITNs ¹ used last night	Number of ITNs ¹
Residence Urban Rural	75.3 83.9	19,971 32,383
Zone North Central North East North West South East South South South West	80.3 86.8 90.1 63.8 60.5 67.0	6,363 8,435 21,811 4,772 4,598 6,375
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	88.8 96.8 73.1 56.6 77.0 83.4 89.9	173 1,417 944 1,043 1,053 1,018 714
North East Adamawa Bauchi Borno Gombe Taraba Yobe	82.0 84.9 85.8 93.0 74.3 92.7	1,159 2,186 1,608 971 523 1,987
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	93.6 89.6 95.5 75.8 95.5 96.4 98.1	3,534 3,010 4,705 4,975 2,355 1,567 1,665
South East Abia Anambra Ebonyi Enugu Imo	57.0 61.9 85.7 72.0 41.3	539 842 1,461 552 1,378
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	46.2 67.5 78.6 75.0 45.8 67.8	1,209 322 617 746 871 832
South West Ekiti Lagos Ogun Ondo Osun Oyo	59.3 50.9 67.3 60.1 71.6 87.4	431 1,282 1,068 1,383 731 1,480
Wealth quintile Lowest Second Middle Fourth Highest	90.3 86.5 80.5 72.9 68.2 80.6	11,689 11,497 10,894 9,730 8,544 52,354

¹ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.7 Use of mosquito nets by children

Percentage of children under age 5 who, the night before the survey, slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among children under age 5 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Nigeria DHS 2018

	Children u	under age 5 in all ho	ouseholds	Children under age with at least	
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of children	Percentage who slept under an ITN ¹ last night	Number of children
Age in months					
<12	57.9	57.1	6,457	79.1	4,659
12-23	54.8	54.2	6,362	76.9	4,484
24-35	52.9	52.3	6,199 6.697	75.1 74.7	4,314
36-47 48-59	50.8 48.5	50.3 47.6	6,942	71.7 68.8	4,691 4,805
Sex			- /-		,
Male	52.9	52.1	16,635	74.3	11,658
Female	52.9	52.3	16,022	74.2	11,297
Residence					
Urban	45.7	44.8	12,901	71.3	8,105
Rural	57.6	57.0	19,756	75.9	14,849
Zone					
North Central	47.9	47.4	4,461	76.0	2,785
North East	48.0	47.4	6,004	69.4	4,100
North West	73.5	72.7	11,416	80.4	10,324
South East	36.7	36.5	3,419	66.2	1,887
South Wost	34.5 36.0	33.5 35.1	2,962	62.9 67.6	1,577
South West	36.0	35.1	4,395	67.6	2,281
State					
North Central	26.0	35.4	006	60.4	117
FCT-Abuja Benue	36.0 66.1	35. 4 65.0	226 942	68.4 92.8	660
Kogi	53.5	53.2	388	69.6	297
Kwara	34.5	34.1	535	51.0	358
Nasarawa	57.6	57.4	501	71.1	404
Niger	37.6	37.3	1,234	74.9	615
Plateau	45.4	45.0	635	85.7	333
North East					
Adamawa	47.2	46.8	771	90.0	401
Bauchi	53.5	52.7	1,400	60.8	1,215
Borno	49.8	49.2	1,160	77.5	736
Gombe	38.1	37.1	685	50.7	501
Taraba	24.5	24.2	754	59.8	305
Yobe	60.6	59.9	1,234	78.4	943
North West		00.4	4 004		4.000
Jigawa	89.7	89.1	1,361	90.5	1,339
Kaduna	67.6	67.1	2,117	78.7	1,804
Kano	76.3 72.6	74.5	2,537	82.7 77.6	2,284
Katsina Kebbi	93.5	72.5 93.5	2,231 1,044	77.6 94.8	2,083 1,030
Sokoto	57.8	56.0	896	63.5	790
Zamfara	56.0	55.7	1,230	68.9	994
South East					
Abia	23.9	23.9	431	48.1	215
Anambra	25.7	25.4	1,026	59.7	436
Ebonyi	67.9	67.9	827	89.4	629
Enugu	27.5	26.7	466	56.9	219
Imo	29.7	29.7	669	51.2	388
South South					
Akwa Ibom	36.5	36.5	515	52.5	358
Bayelsa	32.8	32.7	227	69.3	107
Cross River	43.4	43.4	307	71.9	185
Delta Edo	40.8 31.4	36.5 31.4	596 416	73.6 53.6	295 244
Rivers	28.1	31. 4 27.7	901	53.6 64.1	2 44 389
South West				-	
Ekiti	26.4	26.4	307	53.6	151
Lagos	24.0	21.3	1,499	56.1	568
Ogun	49.3	49.3	608	78.4	383
Ondo	59.0	58.9	401	69.3	341
Osun	32.4	32.4	572	63.0	294
Oyo	41.9	41.7	1,007	77.3	544

Table 12.7—Continued					
	Children ı	under age 5 in all ho	useholds	Children under age with at least	
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of children	Percentage who slept under an ITN¹ last night	Number of children
Wealth guintile					
Lowest	60.6	59.9	7,067	78.0	5,427
Second	59.7	59.1	7,211	76.9	5,536
Middle	54.1	53.7	6,720	75.2	4,798
Fourth	45.5	45.0	6,092	69.9	3,923
Highest	41.0	39.6	5,567	67.4	3,270
Total	52.9	52.2	32,657	74.3	22,954

Note: Table is based on children who stayed in the household the night before the interview.

¹ An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.8 Use of mosquito nets by pregnant women

Percentage of pregnant women age 15-49 who, the night before the survey, slept under a mosquito net (treated or untreated) and under an insecticide-treated net (ITN), and among pregnant women age 15-49 in households with at least one ITN, percentage who slept under an ITN the night before the survey, according to background characteristics, Nigeria DHS 2018

	Among	pregnant women ag	ge 15-49		women age 15-49 h at least one ITN ¹
Background characteristic	Percentage who slept under any mosquito net last night	Percentage who slept under an ITN¹ last night	Number of pregnant women	Percentage who slept under an ITN¹ last night	Number of pregnant women
Residence					
Urban	46.1	44.9	1,538	72.8	948
Rural	66.0	65.3	2,771	85.6	2,114
Zone					
North Central	49.4	48.9	635	78.8	394
North East	59.0	57.7	811	81.5	575
North West South East	79.9 38.5	78.9 38.5	1,690 391	89.0 72.3	1,499 208
South South	29.4	29.2	320	61.2	153
South West	32.6	31.3	462	61.7	234
State					
North Central					
FCT-Abuja	34.7	34.7	20	(76.8)	9
Benue	67.2	67.2	137	87.7	105
Kogi	51.8	50.5	72	72.5	50
Kwara	40.2	37.7	70	63.3	42
Nasarawa	59.6	59.6	54 171	71.7	45
Niger Plateau	40.8 42.5	40.8 42.5	171 111	75.9 91.5	92 51
	42.5	42.5	111	91.5	31
North East	44.0	27.0	04	(00.4)	20
Adamawa Bauchi	41.3 71.9	37.8 71.0	91 213	(89.4) 80.1	38 189
Borno	7 1.9 55.8	55.1	179	82.8	119
Gombe	63.4	62.0	82	80.6	63
Taraba	30.4	30.4	95	68.3	42
Yobe	71.0	68.8	151	84.7	123
North West					
Jigawa	96.3	95.7	214	97.3	211
Kaduna	62.8	62.4	287	74.1	241
Kano	80.7	78.7	415	92.7	352
Katsina	77.2	76.6	287	83.9	262
Kebbi	96.2	96.2	168	97.5	166
Sokoto Zamfara	80.5 74.2	78.0 74.2	133 186	84.3 96.1	123 143
	14.2	14.2	100	90.1	143
South East	25.0	25.2	20	(E4.4)	10
Abia Anambra	25.2 28.0	25.2 28.0	38 123	(51.4) (79.8)	18 43
Ebonyi	72.9	72.9	92	91.6	73
Enugu	36.0	36.0	59	(69.8)	30
Imo	23.2	23.2	80	43.2	43
South South					
Akwa Ibom	25.9	25.9	57	(42.2)	35
Bayelsa	29.7	29.7	25	(64.6)	11
Cross River	(34.3)	(34.3)	24	*	10
Delta	38.2	37.6	84	(72.5)	43
Edo	(24.6)	(24.6)	44	(46.8)	23
Rivers	24.0	24.0	86	(69.5)	30
South West	/OF 31	(OF C)	24	*	4-
Ekiti	(25.3)	(25.3)	31 160		15 57
Lagos	18.6 57.0	15.4 55.7	169 59	(45.9) (84.9)	57 39
Ogun Ondo	57.0 51.2	55.7 51.2	59 53	(84.9) 68.6	39 40
Osun	(37.1)	(37.1)	52	(61.1)	31
Oyo	31.6	31.6	97	(58.9)	52
Education				•	
No education	70.8	69.9	2,089	87.9	1,661
Primary	57.3	56.8	550	78.9	395
Secondary	44.3	44.0	1,340	72.3	816
More than secondary	45.1	42.4	330	73.7	190
Wealth quintile					
Lowest	68.5	67.8	1,017	88.4	780
Second	70.9	70.2	1,049	88.1	835
Middle	59.4	59.1 43.0	886 721	81.9 68.3	639 454
Fourth Highest	43.8 39.8	43.0 38.0	721 637	68.3 68.4	454 354
•					
Total	58.9	58.0	4,309	81.7	3,062

Note: Table is based on women who stayed in the household the night before the interview. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

1 An insecticide-treated net (ITN) is a factory-treated net that does not require any further treatment. In the 2008 NDHS, 2010 NMIS, 2013 NDHS, and 2015 NMIS, this was known as a long-lasting insecticidal net (LLIN).

Table 12.9 Reasons for not using the specific net the night preceding the interview

Percent distribution of mosquito nets that were not used the previous night, by the main reason for not using the net, according to background characteristics, Nigeria DHS 2018

	Background characteristic	Residence Urban Rural	Zone North Central North East North West South East South South South West	State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	North East Adamawa Bauchi Borno Gombe Taraba	North West Jigawa Kaduna Katina Katsina Kebbi Sokoto Zamfara	South East Abia Anambra Ebonyi Enugu
Percent-	age of nets not slept inside last night	24.7 16.1	19.5 13.4 3.0 3.0 3.0 3.0 1.0	1.4.2 2.6.2 4.3.2 1.6.5 1.0.5	18.3 14.9 15.1 6.8 25.6	4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	43.0 37.9 14.4 27.9 58.6
	Total number of mosquito nets	20,487 32,779	6,441 8,644 22,084 4,797 4,687 6,612	176 1,445 948 1,052 1,060 1,029	1,191 2,206 1,674 983 524 2,066	3,564 3,052 4,848 4,981 2,355 1,613	540 847 1,465 565 1,381
	No mos- quitoes	18.2 11.7	21.0 24.8 4.5 8.9 7.7.7	37.9 (13.9) 12.5 46.2 2.6 1.7	1.5 37.7 47.1 1.8 30.0	1.8 10.6 10.5 2.5 0.0 (20.2)	24.1 1.0 10.8 3.4
	No malaria	0.9 0.9	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.5 0.0 0.0 0.0 0.0	0.0 0.0 0.0 7.0 0.0	0.0 0.0 0.0 0.0 0.0 (5.1)	0.0 0.0 0.0 0.0
	Too	17.1 10.5	7.27 2.0.2 20.08 20.08 1.0.0	30.9 (26.0) 16.6 10.8 19.7 0.0	2, 2, 4, 0 6, 2, 4, 0 7, 0, 4, 2,	0.5 7.9 9.6 0.4 0.5 1.2 (22.8)	4.0 4.1 3.1 15.0 22.9
	Difficult to hang	3.6 2.4	4 - 0 70 9 6. 0 4 0 8 4 0	6.00 6.00 6.00 6.00 6.00	0.0 7.0.4 6.0.0 0.0	0.0 0.2 0.2 0.0 0.0 0.0	6 0 0 9 8 6 0 0 8 8 6 8 9
	Don't like smell	2.5	2, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	0.0 (0.0) 1.8 5.3 0.2 1.5	0.6.09.9.00 0.09.9.00	0.0 0.0 0.0 0.0 2.2 (0.0)	0.4 + 1.0 0.0 & 6.0 0.0
	Feel closed in or con- strained	2.3	0.7 2.2.2 7.1.2 7.1.2	0.0 0.5 0.0 1.5 1.5	0.00000	0.0 11.0 2.0 0.3 0.0 (8.6)	4 0 4 8 2 2 0 8 4 8 8
<u>«</u>	Net too old/torn	5.0 5.1	8.00 6.00 6.00 6.00 6.00 6.00 6.00	6.5. 6.5. 7.5. 7.6. 7.6. 7.8. 7.8.	9.9 4.9 9.3 1.3 1.3 1.3 1.3	0.0 11.8 7.2 2.1 0.0 1.4 (12.7)	2. 4 + 4. 8. 6. 7. 8.0
eason no c	Net too dirty	1.1	2.2.2.2.2.2.2.2.2.2.3.2.2.3.2.2.3.2.3.2	8.00 4.00 8.00 0.00 0.00	0.2.8.0.0.4 2.4.0.0.8.8	0.0 0.3 1.1 0.0 6.0 (5.5)	0 0 0 0 0 0 0 0 0 0
Reason no one slept inside the net	Net not available last night (washing)	0.9	1.00.0 2.00 2.00 2.00 1.00	0.0 9.0.6 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.1 7.2 3.4 0.0 0.0 (5.5)	0.0 0.0 0.0 0.0
side the net	Feel ITN chemical s are unsafe	3.1	0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.0	0.001-000	0.2.2.8.2.0 0.2.2.8.2.0	0.0 3.8 0.0 47.3 0.0 0.0 (2.5)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	ITN provokes cough	0.2 0.3	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.0 0.7 0.0 0.0	0.0000000000000000000000000000000000000	0.0000
	Users did not sleep here last night	5.1 6.1	0.4.0 7.4.0 6.0.0 6.0.0 7.4.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	0.0 27.3 1.2 9.8 6.2 16.0	0.0 4.7 0.5 26.7 5.6 8.0	3.2 11.5 12.3 0.5 47.2 16.8 (0.0)	6.8 4.2 8.0 4.2 8.
	Net not needed 1 last night	27.1 30.2	24.8 24.3 37.4 30.1 18.6 31.8	10.3 (17.6) 18.3 18.3 35.9 35.9	2.5 18.6 15.6 33.3 45.3 58.7	4.0 24.3 42.9 45.0 41.3 70.3	49.9 49.5 36.5 9.6
	No space to hang	4.1 3.6	2.5 2.3 3.8 3.8	0.0 4.1.4 0.0 0.0 0.0	0.0000000000000000000000000000000000000	0.0 6.1 2.5 0.2 8.1 (0.0)	1.0 0.0 0.0 4.4
	Other	8.0 12.3	6.83 6.94 6.92 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93	2.4 4.5.9 3.4 1.1 5.9 61.3	82.7 1.6 0.0 11.3 1.8	86.4 2.3 3.3 3.3 6.9 (0.0)	2, 0, 6, 6, 8, 8, 9, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,
	Don't know	0.4	0.0 0.0 0.1 0.1 0.2	0.0 0.0 0.0 0.0 0.0 1.2	0.0 0.0 0.0 7.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0000
Number	mosquito nets not used last night	5,060 5,268	1,256 1,160 2,167 1,731 1,826 2,188	20 46 250 453 243 170	218 329 253 67 134	226 325 214 1,204 104 58 35	232 321 212 158 809

									ı.	Reason no one	one slept ins	slept inside the net							
Background characteristic	Percentage of nets not slept inside last night	Total number of mosquito nets	No mos- quitoes	No malaria	T oo	Difficult to hang	Don't like smell	Feel closed in or con- strained	Net too old/torn	Net too dirty	Net not available last night (washing)	Feel ITN chemical s are unsafe	ITN provokes cough	Users did not sleep here last night	Net not needed last night	No space to hang	Other	Don't know	Number of mosquito nets not used last night
South South																			
Akwa Ibom	54.1	1,216	13.4	4.7	22.6	4.1	4.9	4.1	2.3	1.2	0.2	0.9	0.3	0.1	9.8	12.6	23.6	0.8	658
Bayelsa Cross Diver	32.4	322	18.8	2.6	7.2	0.0	0.3	0.0	9.6	0.7	0.0	3.7	- -	0.3 3	54.1	<u>,</u>	0.0	0.0	105
Delta	23.2	823	0.8	0.0	0.54	0.0	0.0	0.5	2.2	0.0	0.0	0.5	0.5	39.5	42.6	0.3	99	2.5	191
ерд	54.2	871	17.9	0.8	24.1	0.9	0.0	0.0	1.6	9.0	9.0	6.0	0.0	2.5	14.2	21.5	8.2	0.2	473
Rivers	32.1	834	20.5	0.0	16.5	0.0	4.3	5.9	9.6	1.3	1.2	0.0	0.0	3.1	15.0	14.8	4.7	5.9	268
South West	1	Ç	0	((1	Ċ	Ċ	1	c c	c c	Ċ		c c	o o	Ġ	1
EKITI - 2300	40.7	1 4 6 3	7.75	0.0	. 16.1	ō. 4 0. 4	7. 0	, v	7.0 7	7.7	7.7	7.0	ی در	7.0 7.0	73.1	0.0	0.0	0.0	1/5
Cagos	2,74 3,3 Q	1,463	20.0		15.2	4 ر ن د	7.0) () ()) O	o o		o c	0 C	4. c	0.0	V C	o o	0.0	372
opio	39.2	1,386	10.4	0.0	1. 6.	2.5	9.0	5 2	. 4	0.8	0.0	2.5	0.0	0.0	60.5	3.5	0.5	0.1	543
Osnu	28.4	731	44.0	2.0	6.6	1.3	3.9	0.0	2.1	3.1	2.7	2.5	1.6	2.1	20.7	1.2	0.0	0.0	208
Oyo	12.7	1,486	33.6	6.6	11.5	1.1	2.2	7.	1.9	6.0	0.0	0.7	0.7	15.2	3.6	8.1	9.6	0.0	188
Education	:			;			,	;	,			. !	,		!	!			
No education	10.3	21,600	9.67 4.07	0.3	6.7	. .	0.8	0.8 2.0	6. v	 6. L	e. c	15.4	0.3	6.4 4.4	34.7	رن دن م	17.8 6.0	0.7	2,216
Secondary	26.0	19,443	6.4	i ω	17.5	3.5 5.0	2.5	<u>. t</u> 5 0	4 4 5 6	6.0	1.0	4.6	0.0	5.7	26.5	9. 4. 9. 4.	10.6	0.0	5,057
More than secondary	31.9	4,771	23.9	0.3	15.4	3.0	5.9	2.9	2.5	4.	9.0	2.5	4.0	2.7	27.3	3.5	9.2	0.2	1,520
Wealth quintile	,		,			,		,	1	,		,		,		;		;	
Second	9.6 13.4	11,853	9.0	0.0	4. 6 8. 0	0.0 0.0	0 د 4 د	0.5	6.7 8	0.8 0.8	1.8 4.0	21.3	6.0	8 9 9	27.8	2.0	16.6	0.0	1,136
Middle	19.4	11,020	4. 5. 4.	0.5	13.4	3.6	 0.1 0.1	5. 7.	9. 4	<u>1</u> 6.	1.2	5.9	0.5	6.3	28.9	. 4 . 6	10.9	0.3	2,136
Fourth Highest	31.9	9,869	14.5	0.8	17.0	3.9	2.1	1.6	3.2	4.0	1.2	2.2	0.3	5.3	28.4	3.5	10.1	0.5	2,653
, 					1			,				i		L	1				
l otal	19.4	53,266	9.4	9.O	13.7	3.0	Z.1	1./	5.1	1.2	 5.	۲.7	O.3	9.0	7.87	3. 9.	70.7	O.3	10,328

Table 12.10 Use of intermittent preventive treatment (IPTp) by women during pregnancy

Percentage of women age 15-49 with a live birth in the 2 years preceding the survey who, during the pregnancy that resulted in the last live birth, received one or more doses of SP/Fansidar, received two or more doses of SP/Fansidar, according to background characteristics, Nigeria DHS 2018

Rural 58.0 36.1 Zone South Central 56.4 35.0 North Central 65.0 40.7 North West 58.4 34.1 South East 78.9 62.5 South South 73.9 50.0 South West 64.6 39.3 State North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	20.7 14.0 14.8 14.0 10.8 37.8 23.7 16.6 27.0 17.6 29.8 14.9 4.9	4,979 7,956 1,787 2,350 4,649 1,304 1,160 1,685 87 370 167 211
Rural 58.0 36.1 Zone South Central 56.4 35.0 North Central 65.0 40.7 North West 58.4 34.1 South East 78.9 62.5 South South 73.9 50.0 South West 64.6 39.3 State North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	14.0 14.8 14.0 10.8 37.8 23.7 16.6 27.0 17.6 29.8 14.6 14.9	7,956 1,787 2,350 4,649 1,304 1,160 1,685
North Central 56.4 35.0 North East 65.0 40.7 North West 58.4 34.1 South East 78.9 62.5 South South 73.9 50.0 South West 64.6 39.3 State North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	14.0 10.8 37.8 23.7 16.6 27.0 17.6 29.8 14.6 14.9	2,350 4,649 1,304 1,160 1,685 87 370 167
North East 65.0 40.7 North West 58.4 34.1 South East 78.9 62.5 South South 73.9 50.0 South West 64.6 39.3 State North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	14.0 10.8 37.8 23.7 16.6 27.0 17.6 29.8 14.6 14.9	2,350 4,649 1,304 1,160 1,685 87 370 167
South East 78.9 62.5 South South 73.9 50.0 South West 64.6 39.3 State North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	37.8 23.7 16.6 27.0 17.6 29.8 14.6 14.9	1,304 1,160 1,685 87 370 167
South South 73.9 50.0 South West 64.6 39.3 State North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	23.7 16.6 27.0 17.6 29.8 14.6 14.9	1,160 1,685 87 370 167
State North Central 75.4 42.7 FCT-Abuja 75.4 47.5 Benue 66.7 47.5 Kogi 77.7 47.5	27.0 17.6 29.8 14.6 14.9	1,685 87 370 167
North Central FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	17.6 29.8 14.6 14.9	370 167
FCT-Abuja 75.4 42.7 Benue 66.7 47.5 Kogi 77.7 47.5	17.6 29.8 14.6 14.9	370 167
Benue 66.7 47.5 Kogi 77.7 47.5	17.6 29.8 14.6 14.9	370 167
	14.6 14.9	
	14.9	
	4.9	189
Niger 44.2 19.5	4-0	535
	17.6	228
North East Adamawa 72.8 37.6	4.4	326
	14.6	590
Borno 67.2 41.2 Gombe 65.0 40.0	9.1 14.8	418 277
Taraba 55.0 26.8	7.4	299
Yobe 71.0 53.1	29.0	441
North West Jigawa 66.9 52.5	22.9	552
Kaduna 59.1 33.1	9.2	885
Kano 74.5 34.0	7.2	1,001
Katsina 45.0 27.3 Kebbi 62.2 33.9	6.3 5.4	876 451
	22.5 11.9	362 521
South East		
	73.7	156
	43.4 24.2	430 298
Enugu 70.3 53.9	23.9	183
Imo 87.0 67.5	32.0	237
South South	10.5	040
Akwa Ibom 83.4 44.5 Bayelsa 44.2 14.2	16.5 7.2	216 87
Cross River 83.2 75.1	32.6	117
	15.1 47.1	239 150
	25.2	350
South West		
	24.0 20.0	128 599
	21.2	220
	26.7	157
Osun 58.3 42.5 Oyo 46.1 22.0	11.7 4.4	198 383
Education		
	10.3 18.1	5,786 1,877
· ·	22.4	4,186
•	24.7	1,086
Wealth quintile Lowest 47.9 29.4	12.1	2,775
Second 54.1 32.7	10.9	2,955
	15.9	2,666
	22.8 24.1	2,416 2,123
-	16.6	12,935

Table 12.11 Prevalence, diagnosis, and prompt treatment of children with fever

Percentage of children under age 5 with a fever in the 2 weeks preceding the survey, and among children under age 5 with fever, percentage for whom advice or treatment was sought, percentage for whom advice or treatment was sought the same or next day, and percentage who had blood taken from a finger or heel for testing, according to background characteristics, Nigeria DHS 2018

	Children un	der age 5		Children under	age 5 with fever	er	
Background characteristic	Percentage with a fever in the 2 weeks preceding the survey	Number of children	Percentage for whom advice or treatment was sought ¹	Percentage for whom advice or treatment was sought the same or next day	Percentage who had blood taken from a finger or heel for testing	Number of children	
Age in months							
<12	22.0	6,423	70.7	36.1	9.9	1,411	
12-23	29.7	6,143	73.5	38.8	15.5	1,826	
24-35	26.4	5,835	75.5	37.6	14.5	1,541	
36-47	22.9	6,186	72.2	39.1	14.6	1,418	
48-59	20.2	6,294	71.8	37.5	13.7	1,270	
Sex							
Male	23.6	15,674	73.4	38.3	13.9	3,702	
Female	24.7	15,208	72.2	37.5	13.7	3,764	
Residence							
Urban	18.6	12,215	78.8	48.7	16.2	2,269	
Rural	27.8	18,666	70.2	33.2	12.7	5,197	
Zone							
North Central	17.7	4,255	58.7	30.0	14.1	754	
North East	35.0	5,598	72.6	31.0	13.1	1,959	
North West	27.9	10,883	74.9	40.5	13.0	3,039	
South East	20.1	3,205	70.8	46.3	14.1	643	
South South	25.5	2,787	81.5	46.4	12.4	710	
South West	8.7	4,153	72.6	43.6	25.5	360	
State							
North Central	22.2	040	70.0	40.4	44.0	40	
FCT-Abuja	23.3	212	79.2	46.1	14.3	49	
Benue	12.2	908	92.3	20.6	12.4	111	
Kogi	11.5	396	51.9	36.2	23.7	46 57	
Kwara	11.4	497 471	53.5	26.2	10.4	57 48	
Nasarawa Nigor	10.3 28.0	471 1,207	48.4 50.6	20.2	38.0	48	
Niger Plateau	28.0 18.6	1,207 565	50.6 49.8	32.3 27.9	8.6 20.7	338 105	
				27.0		.00	
North East Adamawa	27.9	714	49.3	12.3	6.5	199	
Bauchi	49.5	1,317	71.2	33.9	16.8	652	
Borno	16.0	1,140	77.5	45.2	11.4	182	
Gombe	37.0	629	84.4	45.3	8.3	232	
Taraba	28.8	682	52.5	26.1	5.5	196	
Yobe	44.5	1,118	84.3	24.4	16.7	497	
North West							
Jigawa	33.8	1,277	83.2	39.9	17.0	432	
Kaduna	25.8	2,039	64.4	37.0	5.9	527	
Kano	26.4	2,416	84.0	58.0	16.4	638	
Katsina	28.6	2,141	79.1	42.0	14.7	612	
Kebbi	38.9	1,005	73.1	32.3	20.8	391	
Sokoto	32.7	852	73.5	27.0	2.8	278	
Zamfara	13.9	1,154	42.3	13.2	4.0	160	
South East							
Abia	7.7	395	86.6	66.5	15.8	30	
Anambra	13.7	999	97.4	69.7	7.4	137	
Ebonyi	32.4	759	64.3	36.6	17.9	246	
Enugu	14.0	455	81.6	59.3	10.3	64	
Imo	27.9	598	51.3	32.4	15.0	167	
South South							
Akwa Ibom	37.6	480	69.5	44.2	18.0	180	
Bayelsa	10.0	210	71.8	50.0	3.0	21	
Cross River	16.8	300	83.5	50.0	19.3	50	
Delta	5.2	567	*	*	*	30	
Edo	18.9	382	78.3	58.0 45.7	16.5	72	
Rivers	42.0	848	89.9	45.7	8.7	356	
South West	47.0	000	04.0	07.0	00.7	50	
Ekiti	17.9	296	61.8	27.9	28.7	53	
Lagos	6.7	1,449	78.4	59.2	31.5 *	97	
Ogun	4.9	574 305	61.0		22.4	28 50	
Ondo Osun	12.7 13.9	395 515	61.0 65.8	24.2 29.7	32.1 25.1	50 72	
	1.3.9	:010		/9 /			

Table 12.11—Continued								
	Children un	Children under age 5		Children under age 5 with fever				
Background characteristic	Percentage with a fever in the 2 weeks preceding the survey	Number of children	Percentage for whom advice or treatment was sought ¹	Percentage for whom advice or treatment was sought the same or next day	Percentage who had blood taken from a finger or heel for testing	Number of children		
Mother's education								
No education	28.7	13,867	68.8	30.9	11.2	3,982		
Primary	24.6	4,618	74.8	39.9	15.6	1,137		
Secondary	20.4	9,733	77.7	47.3	15.8	1,982		
More than secondary	13.7	2,664	84.5	56.9	24.4	364		
Wealth quintile								
Lowest	32.5	6,625	67.8	25.2	10.6	2,153		
Second	28.3	6,816	70.4	35.3	12.4	1,930		
Middle	23.7	6,364	72.4	41.5	14.6	1,510		
Fourth	19.4	5,816	79.1	47.2	18.1	1,128		
Highest	14.2	5,260	85.2	59.9	18.4	745		
Total	24.2	30,881	72.8	37.9	13.8	7,466		

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Includes advice or treatment from the following sources: public sector, private medical sector, shop, market, itinerant drug seller, or community-oriented resource person. Excludes advice or treatment from a traditional practitioner.

Table 12.12 Source of advice or treatment for children with fever

Percentage of children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought from specific sources, and among children under age 5 with a fever in the 2 weeks preceding the survey for whom advice or treatment was sought, percentage for whom advice or treatment was sought from specific sources, Nigeria DHS 2018

		whom advice or ght from each source:
	Among children	Among children with fever for whom advice or treatment
Source	with fever	was sought
Public sector	27.5	37.2
Government hospital	7.2	9.8
Government health centre	13.4	18.1
Government health post	5.4	7.4
Mobile clinic	0.7	1.0
Fieldworker/CHW	0.7	1.0
Other	0.0	0.1
Private sector	42.5	57.7
Private hospital/clinic	2.9	4.0
Pharmacy	4.9	6.7
Chemist/PMS	34.3	46.5
Private doctor	0.2	0.3
Mobile clinic	0.1	0.1
Fieldworker/CHW	0.2	0.2
Other private medical sector	0.1	0.1
Other private sector	3.4	4.6
Shop	2.0	2.7
Traditional practitioner	1.0	1.4
Market	0.1	0.1
Itinerant drug seller	0.2	0.2
Community-oriented resource person	0.2	0.3
Other	0.7	0.9
Number of children	7,466	5,507

CHW = Community health worker PMS = Patent medicine store

Table 12.13 Type of antimalarial drugs used

Among children under age 5 with a fever in the 2 weeks preceding the survey who took any antimalarial medication, percentage who took specific antimalarial drugs, according to background characteristics, Nigeria DHS 2018

				D 1						Number of children with
-				Percentag	e of childrer	who took:				fever who took any
Background characteristic	Any ACT	SP/ Fansidar	Chloro- quine	Amodia- quine	Quinine pills	Quinine injection	Artesunate rectal	Artesunate injection	Other anti- malarial	
Age in months										
<6	51.2	7.2	19.9	7.6	2.0	2.8	4.4	0.3	5.6	92
6-11	43.9	6.1	26.0	9.7	1.8	2.3	2.5	7.1	4.6	344
12-23	53.8	7.9	17.8	5.2	3.3	5.1	3.6	4.9	2.1	788
24-35	54.0	6.6	16.0	5.2	2.4	6.3	4.6	8.0	1.2	711
36-47	52.9	6.7	14.7	6.4	2.0	8.3	3.8	8.3	2.8	684
48-59	51.3	8.9	14.6	5.3	2.0	8.8	2.7	10.6	1.1	625
Sex										
Male	52.1	7.3	16.4	6.1	2.3	6.5	3.9	7.1	2.8	1,658
Female	51.9	7.4	17.7	5.9	2.4	6.3	3.3	7.9	1.6	1,587
Residence										
Urban	57.8	5.0	13.4	6.4	1.7	4.6	5.0	6.9	3.6	1,148
Rural	48.9	8.6	19.1	5.8	2.7	7.4	2.8	7.8	1.5	2,096
Zone										
North Central	58.1	14.5	7.8	2.3	2.7	4.0	5.8	4.3	3.7	276
North East	41.8	8.8	22.2	7.2	1.2	4.4	2.7	12.7	3.4	660
North West	49.1	6.7	21.2	6.6	1.2	10.3	3.0	6.7	0.8	1,423
South East	77.4	2.3	6.8	0.6	3.4	1.5	2.1	5.0	3.5	382
South South	52.4	7.3	11.3	7.1	7.9	2.0	7.3	3.3	3.7	329
South West	48.7	6.6	12.0	12.9	3.3	5.3	4.5	13.0	1.8	175
Mother's education										
No education	48.7	8.0	19.9	6.2	1.2	8.3	3.2	8.0	1.2	1,533
Primary	50.3	8.0	18.3	5.2	2.4	6.6	1.4	8.9	3.3	510
Secondary	56.1	6.1	13.3	6.6	4.5	4.1	4.6	5.9	3.1	997
More than secondary	61.4	7.0	10.7	3.7	0.3	2.4	7.2	8.1	3.2	205
Wealth quintile										
Lowest	46.6	7.3	20.9	5.9	2.1	8.5	3.3	9.4	1.2	774
Second	51.5	7.9	20.2	4.9	2.1	7.2	2.7	6.4	0.9	788
Middle	52.5	7.9	16.7	6.5	2.3	6.2	3.1	6.0	2.7	691
Fourth	53.1	6.3	14.0	7.2	3.3	4.9	4.1	8.4	4.1	576
Highest	61.0	6.9	8.8	5.9	2.2	3.3	6.0	7.4	3.3	415
Total	52.0	7.4	17.1	6.0	2.4	6.4	3.6	7.5	2.2	3,244

ACT = Artemisinin-based combination therapy

Table 12.14 Coverage of testing for anaemia and malaria in children

Percentage of eligible children age 6-59 months who were tested for anaemia and for malaria, according to background characteristics (unweighted), Nigeria DHS 2018

	P	ercentage tested f	or:	Percentage	tested for:
Background characteristic	Anaemia	Malaria with RDT	Number of children	Malaria by microscopy	Number of children
ge in months	7.11.401.11.4		51	о.сосору	0
6-8	95.1	95.1	695	94.2	499
9-11	97.3	97.1	595	96.1	435
12-17	97.6	97.2	1,443	97.1	1,058
18-23	97.4	96.8	1,144	96.1	838
24-35	97.1	96.8	2,481	96.4	1,822
36-47	97.4	97.2	2,556	96.8	1,884
48-59	97.0	96.8	2,622	96.0	1,904
Sex					
Male Female	97.2 97.1	97.0 96.7	5,825 5,711	96.4 96.2	4,283 4,157
Nother's interview status			2,1		.,
Interviewed	97.5	97.2	10,443	96.6	7,647
Not interviewed but in household	86.3	86.3	212	89.2	148
Not interviewed and not in the	05.0	05.5	004	04.7	045
household ¹	95.8	95.5	881	94.7	645
Residence Urban	96.9	96.6	4,510	95.9	3,565
Rural	97.3	97.0	7,026	96.6	4,875
one					
North Central	98.5	98.4	2,005	97.3	1,456
North East	96.4	95.9	2,109	95.5	1,503
North West	96.5	96.3	2,706	95.6	1,963
South East	98.0	97.7	1,704	97.8	1,291
South South	95.9	95.8	1,300	94.8	947
South West	97.4	97.1	1,712	96.7	1,280
State North Central					
	96.4	96.8	278	96.1	207
FCT-Abuja Benue	99.7	99.4	341	96.3	207 245
Kogi	97.0	97.0	200	94.0	149
Kwara	100.0	100.0	244	100.0	181
Nasarawa	96.4	96.0	276	95.7	208
Niger	99.2	99.2	374	98.5	260
Plateau	100.0	99.7	292	100.0	206
North East					
Adamawa	97.9	97.2	289	97.3	221
Bauchi	99.0	98.7	397	97.2	251
Borno	97.6	97.1	340	96.4	247
Gombe	96.9	96.6	385	96.7	270
Taraba	96.0	94.5	329	95.4	241
Yobe	91.3	91.3	369	90.8	273
North West	00.2	00.4	206	00.2	200
Jigawa	99.2	98.4	386	99.3	289
Kaduna	97.4	97.4	386	96.2	291
Kano Katsina	96.6 98.4	96.6 98.4	528 446	97.0 97.8	370 312
Katsina Kebbi	98.4 95.2	98.4 94.9	335	97.8 91.2	239
Sokoto	95.2 87.2	86.9	298	86.5	239
Zamfara	99.4	98.8	327	97.6	247
South East					
Abia	98.9	98.1	268	99.5	183
Anambra	98.3	98.3	402	99.0	311
Ebonyi	99.1	99.1	448	98.6	355
Enugu Imo	95.3 97.6	95.3 96.4	255 331	94.9 95.9	197 245
	00	JJ. 1		55.5	_10
South South Akwa Ibom	97.1	97.1	240	95.3	169
Bayelsa	98.1	97.7	265	95.6 95.6	204
Cross River	92.1	92.1	152	90.7	107
Delta	92.8	92.8	195	92.4	144
Edo	92.4	92.4	158	93.7	111
Rivers	99.0	99.0	290	98.1	212
South West					
Ekiti	100.0	100.0	254	98.9	188
Lagos	94.1	94.4	340	94.0	268
Ogun	97.2	96.5	288	97.1	208
Ondo	100.0	99.5	210	100.0	156
Osun Oyo	95.8	95.4	263	94.7	188
	98.6	97.8	357	97.1	272

Table 12.14—Continued					
	Р	ercentage tested f	or:	Percentage	e tested for:
Background characteristic	Anaemia	Malaria with RDT	Number of children	Malaria by microscopy	Number of children
Mother's education ²					
No education	96.8	96.4	4,104	95.8	2,926
Primary	98.1	97.9	1,805	97.7	1,313
Secondary	97.7	97.5	3,793	96.9	2,806
More than secondary	95.9	95.4	953	94.7	750
Wealth quintile					
Lowest	96.5	96.2	2,325	95.8	1,651
Second	97.8	97.6	2,297	97.0	1,645
Middle	97.7	97.4	2,560	96.7	1,863
Fourth	97.5	97.2	2,411	96.8	1,787
Highest	95.9	95.7	1,943	94.8	1,494
Total	97.1	96.9	11,536	96.3	8,440

RDT = Rapid diagnostic test (SD Bioline Ag P.f.)

¹ Includes children whose mothers are deceased

² For women who are not interviewed, information on education is taken from the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Table 12.15 Haemoglobin <8.0 g/dl in children

Percentage of children age 6-59 months with haemoglobin lower than 8.0 g/dl, according to background characteristics, Nigeria DHS 2018 $\,$

Background characteristic	Haemoglobin <8.0 g/dl	Number of children
Age in months		
ē-8	10.1	687
9-11 12-17	6.6	599
12-17 18-23	9.7 9.0	1,460 1,150
24-35	9.1	2,439
36-47	6.4	2,528
48-59	4.9	2,528
Sex Male Female	7.9 7.2	5,820 5,572
Mother's interview status		,
Interviewed	7.5	10,395
Not interviewed but in household	10.5	174
Not interviewed and not in the	0.0	000
household ¹	8.0	823
Residence Urban	4.4	5,014
Rural	10.1	6,377
Zone		
North Central	5.7	1,620
North East North West	8.6 10.8	1,807 3,216
South East	5.7	1,496
South South	6.7	1,192
South West	4.8	2,060
State North Central		
FCT-Abuja	5.1	80
Benue	1.3	377
Kogi	6.6	143
Kwara	7.1	189
Nasarawa Niger	11.2 5.6	172 421
Plateau	7.3	238
North East		
Adamawa	6.7	252
Bauchi Borno	13.4 6.6	400 385
Gombe	12.0	205
Taraba	10.1	219
Yobe	4.0	346
North West		
Jigawa Kaduna	2.8 3.4	382 614
Kano	12.6	682
Katsina	12.1	687
Kebbi	13.1	285
Sokoto Zamfara	12.5 24.0	227 339
	24.0	339
South East Abia	2.8	173
Anambra	5.4	473
Ebonyi	9.5	356
Enugu Imo	6.0 3.1	205 289
South South		
Akwa Ibom	13.5	216
Bayelsa	8.4	98
Cross River	4.5	105 222
Delta Edo	7.0 2.0	222 139
Rivers	4.8	412
South West		
Ekiti	3.3	145
Lagos	1.4	613
Ogun Ondo	4.6 10.4	330 159
Osun	5.8	286
Oyo	6.9	528

Table 12.15—Continued		
Background characteristic	Haemoglobin <8.0 g/dl	Number of children
Mother's education ²		
No education	11.3	4,134
Primary	7.5	1,704
Secondary	5.1	3,726
More than secondary	1.1	1,004
Wealth quintile		
Lowest	13.9	2,120
Second	10.7	2,235
Middle	6.4	2,412
Fourth	5.4	2,388
Highest	2.0	2,235
Total	7.6	11,391

Note: Table is based on children who stayed in the household the night before the interview. Prevalence of anaemia is based on haemoglobin levels and is adjusted for altitude using CDC formulas (CDC 1998). Haemoglobin is measured in grams per decilitre (g/dl).

¹ Includes children whose mothers are deceased

² For women who are not interviewed, information on education is taken from

the Household Questionnaire. Excludes children whose mothers are not listed in the Household Questionnaire.

Table 12.16 Prevalence of malaria in children

Percentage of children age 6-59 months classified in two tests as having malaria, according to background characteristics, Nigeria DHS 2018

		orevalence ng to RDT	Malaria prevalence according to microscopy		
Background characteristic	RDT positive	Number of children	Microscopy positive	Number of children	
Age in months					
6-8	27.5	687	19.1	482	
9-11	21.8	598	13.1	448	
12-17	30.1	1,450	17.9	1,064	
18-23	31.9	1,142	19.7	857	
24-35	36.6	2,429	20.1	1,775	
36-47	40.5	2,525	24.3	1,856	
48-59	42.7	2,519	30.8	1,817	
Sex	00.0	5.004	00.4	4.070	
Male Female	36.6 35.7	5,804 5,547	23.4 21.8	4,279 4,019	
Nother's interview status		2,2		1,010	
Interviewed	35.6	10,357	22.2	7,572	
Not interviewed but in household	42.3	174	29.2	125	
Not interviewed and not in the household ¹	43.0	820	26.8	602	
	43.0	620	20.0	002	
Residence Urban	22.3	5,004	12.9	3,936	
Rural	47.2	6,347	31.4	4,362	
Zone					
North Central	37.0	1,618	21.2	1,162	
North East	35.6	1,791	19.9	1,265	
North West	49.5	3,209	33.8	2,313	
South East	26.1	1,490	15.7	1,151	
South South	25.4	1,191	15.6	861	
South West	28.9	2,051	18.4	1,546	
tate					
North Central	24.2	90	20.4	50	
FCT-Abuja	31.3	80	20.1	59	
Benue	26.0	376	12.7	265	
Kogi	46.0	143	25.4	105	
Kwara	43.7 32.1	189 172	20.2 13.6	147	
Nasarawa Niger	43.8	421	31.6	132 289	
Plateau	43.6 37.2	237	21.4	165	
North East					
Adamawa	38.9	244	21.1	188	
Bauchi	48.6	399	30.6	241	
Borno	16.2	382	10.0	287	
Gombe	52.0	205	30.3	143	
Taraba	35.2	216	20.8	159	
Yobe	30.3	346	13.3	247	
North West					
Jigawa	49.4	379	35.7	291	
Kaduna	34.3	614	33.0	454	
Kano	43.0	682	32.4	488	
Katsina	55.4	687	25.5	475	
Kebbi	76.8	284	52.2	189	
Sokoto Zamfara	54.7 51.8	227 337	36.4 35.7	163 254	
	01.0	501	55.1	207	
South East Abia	20.7	172	13.5	123	
Anambra	15.2	473	8.8	370	
Ebonyi	49.3	356	30.5	283	
Enugu	30.2	205	17.4	162	
Imo	15.6	285	7.8	213	
South South					
Akwa Ibom	33.2	216	23.2	149	
Bayelsa	30.1	.97	12.5	74	
Cross River	26.4	105	19.5	71	
Delta	24.9	222	17.0	170	
Edo Rivers	19.1 22.3	139 412	14.7 11.2	96 301	
	22.3	712	11.2	JU I	
South West Ekiti	46.3	145	32.3	108	
Lagos	3.4	614	1.8	485	
Ogun	32.2	327	21.6	236	
Ondo	32.2 41.6	32 <i>1</i> 158	33.5	236 117	
Osun	54.9	285	33.5 27.7	201	
Court	33.9	522	23.8	399	

		orevalence ng to RDT	Malaria prevalence according to microscopy		
Background characteristic	RDT positive	Number of children	Microscopy positive	Number of children	
Mother's education ²					
No education	50.8	4,120	34.3	2,903	
Primary	40.3	1,701	24.6	1,244	
Secondary	23.8	3,715	13.4	2,776	
More than secondary	9.6	995	5.8	774	
Wealth quintile					
Lowest	57.1	2,115	38.4	1,479	
Second	50.3	2,230	33.6	1,572	
Middle	38.6	2,398	24.2	1,750	
Fourth	25.9	2,377	14.7	1,765	
Highest	10.7	2,231	5.7	1,731	
Total	36.2	11,351	22.6	8,298	

RDT = Rapid diagnostic test (SD Bioline Ag P.f.)

¹ Includes children whose mothers are deceased

² For women who are not interviewed, information on education is taken from the Household Questionnaire.

Excludes children whose mothers are not listed in the Household Questionnaire.

Table 12.17 Malaria prevalence among children with a fever in the last 2 weeks

Percentage of eligible children age 6-59 months with a fever in the preceding 2 weeks who tested positive for malaria according to RDT and microscopy, by background characteristics, Nigeria DHS 2018

		lence according to RDT		ence according to oscopy
Background characteristic	RDT positive	Number of children with a fever in the last 2 weeks	Microscopy positive	Number of children with a fever in the last 2 weeks
Age in months				
6-8	36.6	186	22.0	134
9-11 12-17	28.6 44.4	194 452	19.8 27.4	142 345
18-23	44.4 44.4	289	24.6	220
24-35	51.3	584	27.3	425
36-47	51.1	570	29.8	397
48-59	57.2	499	41.5	363
Sex Male Female	48.5 47.4	1,371 1,404	30.1 28.3	1,014 1,012
Residence		1,121		-,
Urban	30.8	960	15.1	765
Rural	57.0	1,815	37.7	1,261
Zone				
North Central	52.6	300	31.7	227
North East	43.7	618	23.5	433
North West	58.9 39.6	1,003	40.0	731
South East South South	39.b 30.8	324 331	20.6 17.0	255 233
South West	40.5	199	22.3	146
State				
North Central				
FCT-Abuja	33.4	25	21.8	17
Benue	(50.9)	42	(18.1)	29
Kogi	(67.6)	24	(51.7)	18
Kwara	(45.8)	21	(23.4)	17
Nasarawa Niger	(47.8) 51.1	14 125	37.6	11 100
Plateau	64.7	49	25.2	34
North East				
Adamawa	44.8	77	23.1	58
Bauchi	55.4	193	35.3	126
Borno	17.6	79	6.8	66
Gombe	59.3	75 25	33.5	49
Taraba Yobe	40.4 33.9	65 130	21.6 14.8	48 86
	00.0	100	14.0	00
North West Jigawa	57.6	134	45.6	96
Kaduna	39.5	167	38.6	127
Kano	52.7	193	43.3	143
Katsina	68.9	208	32.6	145
Kebbi Sokoto	78.3 61.8	132 96	43.5 41.4	94 75
Zamfara	55.5	75	36.5	75 52
South East				
Abia	(24.2)	12	*	10
Anambra	27.3	82	16.2	66
Ebonyi	56.4	120	29.7	98
Enugu	(46.4)	31	(15.8)	27
Imo	26.5	78	15.5	52
South South				
Akwa Ibom	37.0	98	29.0	64
Bayelsa Cross River	(44.2)	10 16	(21.1)	8 8
Delta	*	12	*	9
Edo	(29.6)	27	(21.7)	16
Rivers	23.8	168	8.2	128
South West				
Ekiti	55.9	28	(47.7)	20
Lagos	(7.4)	56	(5.8)	42
Ogun	* /EZ 0\	19	(20 E)	11 16
Ondo Osun	(57.2) (58.7)	20 47	(32.5) (12.2)	16 37
Oyo	(56.7)	29	(12.2)	21

Table 12.17—Continued Malaria prevalence according to RDT Malaria prevalence according to microscopy Number of Number of children with a children with a Background characteristic RDT fever in the last Microscopy fever in the last positive 2 weeks positive 2 weeks Mother's education 57.7 51.5 38.5 28.4 18.9 No education Primary 1,339 450 973 330 Secondary 36.4 821 591 More than secondary 16.4 165 8.9 133 Wealth quintile 41.4 39.5 63.3 733 Lowest Second 515 57.0 662 477 Middle 48.4 580 28.3 421 32.2 17.2 Fourth 465 15.3 354 Highest 336 6.3 259 Total 47.9 2,775 29.2 2,026

Note: Table includes children whose mothers were interviewed. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

RDT = Rapid diagnostic test (SD Bioline Ag P.f.)

Table 12.18.1 Beliefs about the effectiveness of the recommended malaria behaviours and products: Women

Among women age 15-49 who had a live birth in the 5 years prior to the survey, percentage who agree with specified statements regarding malaria behaviours and products, according to background characteristics, Nigeria DHS 2018

	IP	Тр	RI	DT	Treatment	
Background characteristic	The medicine given to pregnant women to prevent malaria works well to keep the mother healthy	The medicine given to pregnant women to prevent malaria works well to keep the baby healthy when it is born	Taking a malaria test is the only way to know if someone really has malaria or not	Even if a malaria test shows that the fever is not caused by malaria, I will still seek out treatment for malaria because I don't trust the test result	When the entire course of malaria medicine is taken, the disease will be fully cured	Number o
Age						
15-19	96.0	96.1	83.9	41.6	90.1	7,763
20-24	96.0	95.9	83.8	41.8	91.0	5,788
25-29	95.9	96.1	83.6	41.6	90.4	5,972
30-34	95.9 95.2		82.8	45.0	89.5	
35-39	95.2 95.4	95.0 95.7	79.8	41.5	89.2	4,873
						4,027
40-44	95.7	96.5	81.6	41.7	90.5	2,775
45-49	95.4	96.1	82.5	44.5	90.9	2,155
50-54	91.5	92.7	84.3	39.8	89.1	397
55-59	93.9	95.3	78.0	46.9	80.0	240
Residence						
Urban	95.9	95.7	77.3	44.4	90.7	13,170
Rural	95.5	95.9	86.4	41.1	89.8	21,023
one.						
North Central	95.0	94.9	78.7	42.1	80.6	4,619
North East	93.8	94.1	87.7	45.9	90.3	6,213
North West	96.8	97.6	94.7	40.7	94.4	12,558
South East	98.4	99.0	62.1	34.8	93.7	3,428
South South	95.3	95.0	67.3	46.8	85.5	2,968
South West	93.8	92.1	73.8	45.0	87.9	4,407
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	94.6 98.7 89.8 88.8 94.2 96.6 95.8	95.9 99.0 91.1 87.1 92.2 97.2 95.0	64.0 84.4 75.0 59.8 73.8 91.1 72.3	42.6 34.7 35.5 46.2 66.7 44.0 29.7	81.1 90.0 75.1 91.3 83.7 65.5 90.0	225 949 451 533 521 1,312 628
	00.0	00.0		20	00.0	020
North East Adamawa	95.3 96.4	94.5 95.7	83.3 95.8	60.0	88.0	786
Bauchi Borno	96.4 94.4	95.7 95.2	95.8 96.5	55.7 66.6	95.7 93.9	1,469 1,219
Gombe	94.4 92.5	95.2 92.1	96.5 80.5	20.8	93.9 88.7	728
Taraba	92.5 82.2	92.1 84.0	72.0	43.2	69.5	726 758
Yobe	97.0	98.2	85.9	21.8	95.3	1,253
North West						,
Jigawa	98.6	99.2	90.3	19.0	96.8	1,497
Kaduna	94.2	96.5	92.3	53.6	88.0	2,402
Kano	99.0	99.4	96.0	41.8	98.0	2,738
Katsina	99.4	99.4	99.6	61.2	98.1	2,428
Kebbi	99.1	100.0	99.2	25.0	98.4	1,228
Sokoto	81.9	83.4	80.5	58.6	77.6	978
Zamfara	99.4	99.5	98.4	2.4	97.9	1,287
South East Abia	94.3	96.9	94.4	60.4	73.7	426
Anambra	99.3	99.5	24.4	31.0	98.8	1,045
Ebonyi	98.7	99.2	80.0	35.3	99.1	814
Enugu	97.8	99.7	84.3	50.5	98.9	486
Imo	99.6	98.9	62.2	12.1	88.1	657
South South						
Akwa Ibom	96.7	97.1	72.6	21.4	82.5	522
Bayelsa	96.4	96.4	91.0	88.8	92.0	217
Cross River	95.5	97.8	83.6	66.9	79.7	318
Delta	92.0	90.6	41.2	55.8	87.0	595
Edo	97.2	97.2	57.5	59.4	79.7	411
Rivers	95.3	94.4	74.3	32.8	89.5	906

	IP	Тр	R	DT	Treatment	
Background characteristic	The medicine given to pregnant women to prevent malaria works well to keep the mother healthy	The medicine given to pregnant women to prevent malaria works well to keep the baby healthy when it is born	Taking a malaria test is the only way to know if someone really has malaria or not	Even if a malaria test shows that the fever is not caused by malaria, I will still seek out treatment for malaria because I don't trust the test result	When the entire course of malaria medicine is taken, the disease will be fully cured	Number of women
South West						
Ekiti	96.1	98.1	72.5	52.5	93.5	329
Lagos	90.2	86.5	56.3	34.7	80.4	1,545
Ogun	99.4	99.4	100.0	73.8	99.5	586
Ondo	90.5	88.5	83.9	45.5	84.3	423
Osun	95.1	95.8	58.8	47.1	96.8	549
Oyo	95.9	93.9	90.3	39.9	87.5	976
Education						
No education	95.0	95.3	88.9	41.5	90.2	15,858
Primary	95.5	95.8	80.7	45.1	89.6	5,103
Secondary	96.4	96.4	75.7	42.6	90.0	10,413
More than secondary	97.1	96.7	79.4	41.1	91.2	2,818
Wealth quintile						
Lowest	94.6	94.9	87.3	34.6	91.3	7,572
Second	95.9	96.2	86.9	44.4	90.2	7,782
Middle	95.6	96.0	83.5	45.6	90.5	7,043
Fourth	96.0	96.4	77.8	44.0	88.6	6,254
Highest	96.5	95.6	76.3	44.1	89.6	5,541
Total	95.7	95.8	82.9	42.3	90.1	34,193

Table 12.18.2 Beliefs about the effectiveness of the recommended malaria behaviours and products: Men

Among men age 15-49 who are married or cohabitating and have at least one child under age 5, percentage who agree with specified statements regarding malaria behaviours and products, according to background characteristics, Nigeria DHS 2018

	IP	Тр	R	DT	Treatment	
Background characteristic	The medicine given to pregnant women to prevent malaria works well to keep the mother healthy	The medicine given to pregnant women to prevent malaria works well to keep the baby healthy when it is born	Taking a malaria test is the only way to know if someone really has malaria or not	Even if a malaria test shows that the fever is not caused by malaria, I will still seek out treatment for malaria because I don't trust the test result	When the entire course of malaria medicine is taken, the disease will be fully cured	Number of men
Age						
15-19	*	*	*	*	*	1
20-24	90.7	91.3	71.7	51.3	76.8	151
25-29	89.0	90.5	74.3	54.6	82.8	614
30-34	88.6	88.6	74.4	56.3	83.4	1,224
35-39 40-44	91.0 88.1	90.7 89.4	76.0 75.0	53.0 55.0	83.1 81.3	1,417 1,191
40-44 45-49	89.7	90.3	75.0 74.4	55.0 51.0	78.1	783
Residence						
Urban	88.6	88.6	72.0	52.2	80.8	2,504
Rural	90.1	90.9	77.4	55.6	82.8	2,877
Zone						
North Central	97.1	96.9	78.7	56.6	89.2	751
North East	87.1	85.2	79.6	62.0	81.6	837
North West	88.3	93.3	82.1	48.2	86.3	1,377
South East	92.0	92.3	58.2	40.3	82.7	659 500
South South South West	90.2 85.4	85.4 85.5	76.1 69.3	59.7 58.4	73.1 76.0	580 1,178
State						.,
North Central						
FCT-Abuja	95.0	94.2	94.8	5.2	84.6	44
Benue	97.6	98.3	82.4	51.5	93.9	157
Kogi	100.0	100.0	88.2	13.8	80.2	57
Kwara	84.6	81.5	41.2	35.8	64.8	77
Nasarawa	100.0	100.0	29.4	78.2	84.4	79
Niger Plateau	99.1 98.0	99.2 98.0	95.1 89.0	77.5 60.4	99.7 85.4	244 92
	30.0	30.0	09.0	00.4	05.4	92
North East	98.8	00.0	05.5	00.7	04.0	100
Adamawa Bauchi	96.6 71.3	98.8 70.3	85.5 69.7	82.7 53.4	94.8 81.3	109 193
Borno	71.3 79.4	74.8	76.1	74.6	74.5	199
Gombe	98.5	98.5	70.0	27.9	79.3	91
Taraba	96.2	94.2	90.8	24.8	82.9	87
Yobe	96.6	94.5	91.6	82.2	82.3	158
North West						
Jigawa	99.5	98.8	83.9	21.7	56.1	141
Kaduna	71.4	98.5	91.7	59.7	94.4	292
Kano	95.9	95.6	93.1	54.2	88.0	258
Katsina	98.1	93.6	69.2	56.5	88.9	276
Kebbi Sokoto	83.5 80.8	83.9 82.8	98.6 45.7	28.5 75.3	96.7 85.4	139 106
Zamfara	89.3	90.2	45.7 77.4	26.6	83.1	166
South East						-
Abia	99.3	99.3	80.9	76.2	89.2	71
Anambra	100.0	100.0	39.8	31.7	99.5	241
Ebonyi	100.0	100.0	85.0	13.4	60.1	134
Enugu	97.1	99.3	47.2	59.2	99.5	78
Imo	63.0	62.7	58.7	52.6	61.5	134
South South	07.4	100.0	07.0	F4 4	F7.0	400
Akwa Ibom	97.4 96.4	100.0	87.9 80.7	51.1 86.9	57.0	102
Bayelsa Cross River	93.3	95.3 91.1	80.7 73.4	56.9 56.1	83.9 69.3	45 49
Delta	84.3	74.0	69.6	50.4	69.1	138
Edo	92.3	83.5	23.9	33.7	47.5	52
Rivers	87.9	82.7	88.2	72.6	89.6	194
South West						
Ekiti	88.5	92.0	69.2	81.0	82.3	78
Lagos	80.0	82.6	74.1	67.8	80.6	432
Ogun	98.2	97.8	43.9	73.4	92.7	180
Ondo	99.3	90.6	66.6	57.8	97.2	90
Osun	50.8	50.2	44.9	32.8	35.8	143

Table 12.18.2—Continued IPTp RDT Treatment Even if a malaria test The medicine shows that the The medicine given to fever is not Taking a given to pregnant caused by When the entire pregnant women to malaria test is malaria, I will course of prevent malaria women to the only way to still seek out malaria know if someone really prevent malaria works well to treatment for medicine is works well to keep the baby malaria because taken, the healthy when it is born Background keep the mother has malaria I don't trust the disease will be Number characteristic healthy or not test result fully cured of men Education 88.3 90.1 90.8 77.8 71.5 73.8 76.1 56.1 52.1 54.8 51.0 86.7 89.1 83.5 79.8 81.6 1,366 885 No education Primary Secondary 2,194 936 90.9 90.0 81.9 89.6 More than secondary Wealth quintile 88.6 88.5 76.2 54.8 81.4 908 Lowest Second Middle 88.9 88.9 91.8 90.3 79.9 74.6 53.3 51.9 84.7 78.8 967 1,086 87.7 1,139 1,282 87.9 68.2 54.3 81.2 Fourth Highest 92.2 76.2 55.6 90.7 83.1 Total 89.4 89.9 74.9 54.0 81.8 5,381

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 12.19.1 Beliefs about the consequences of malaria: Women

Among women age 15-49 who had a live birth in the 5 years prior to the survey, percentage who agree with specified statements regarding malaria consequences, according to background characteristics, Nigeria DHS 2018

ackground haracteristic	Every case of malaria can potentially lead to death	You don't worry about malaria because it can be easily treated	You know people who have become dangerously sick with malaria	Only weak children can die from malaria	Number of women
ıge					
15-19	67.1	43.7	71.0	28.6	7,763
20-24	65.1	43.5	69.1	29.6	5,788
25-29	65.8	44.9	69.4	29.0	5,972
30-34	66.7	48.0	71.3	31.9	4,873
35-39	65.2	48.4	70.8	29.6	4,027
40-44	67.5	49.7	70.8	31.2	2,775
45-49	66.1	49.8	66.8	27.8	2,155
50-54	64.6	43.3	66.8	27.4	397
55-59	67.4	51.6	71.6	28.8	240
	• • • • • • • • • • • • • • • • • • • •	00		20.0	
t esidence Urban	69.1	57.1	70.9	30.8	13,170
Rural	64.3	39.1	69.6	29.0	21,023
	04.0	55.1	03.0	23.0	21,023
one	50.0	00.0	50.7	47.0	4.040
North Central	56.0	33.2	52.7	17.6	4,619
North East	52.1	36.8	71.6	35.0	6,213
North West	76.3	37.1	76.9	30.5	12,558
South East	77.8	75.1	65.3	37.8	3,428
South South	65.2	61.5	79.1	27.5	2,968
South West	59.1	65.1	64.4	27.7	4,407
tate					
North Central					
FCT-Abuja	34.2	37.3	58.2	7.3	225
Benue	48.2	16.2	40.0	5.1	949
Kogi	59.4	61.8	46.4	8.5	451
Kwara	58.0	35.4	48.8	13.4	533
Nasarawa	87.6	71.4	72.6	60.6	521
Niger	57.9	26.5	51.5	16.2	1,312
Plateau	41.2	17.5	63.4	17.4	628
North East					
Adamawa	53.3	42.0	72.8	29.6	786
Bauchi	46.8	24.8	87.9	34.0	1,469
Borno	47.1	49.4	64.1	41.6	1,219
Gombe	82.4	38.1	64.7	30.6	728
Taraba	44.5	32.8	45.6	34.9	758
Yobe	49.5	37.0	78.6	35.7	1,253
North West					
Jigawa	75.8	4.4	70.3	14.4	1,497
Kaduna	82.1	59.5	80.8	40.5	2,402
Kano	94.1	38.9	92.9	39.2	2,738
Katsina	83.2	43.4	57.8	30.3	2,428
Kebbi	22.5	41.0	69.3	38.9	1,228
Sokoto	57.3	49.0	71.2	33.5	978
Zamfara	81.1	4.4	91.0	1.9	1,287
South East					,
Abia	75.1	39.3	86.3	73.8	426
Anambra	63.8	93.6	23.3	3.6	1,045
Ebonyi	90.6	83.7	92.0	52.8	814
Enugu	78.1	59.4	91.1	46.3	486
Imo	85.6	69.8	66.4	43.8	657
South South					
Akwa Ibom	56.3	66.8	64.6	20.5	522
Bayelsa	91.7	90.7	91.7	85.7	217
Cross River	57.7	78.5	77.5	28.8	318
Delta	70.3	40.6	85.8	8.5	595
Edo	70.3 37.6	69.3	70.3	37.9	411
Rivers	75.8	55.7	70.3 84.5	37.9 24.9	906
	10.0	00.7	01.0	2	300
South West Ekiti	65.1	73.0	55.2	31.7	329
Lagos	47.6	73.0 58.6	55.2 61.5	21.9	329 1,545
	47.6 48.0	72.6	72.0	20.8	1,545 586
Ogun Ondo		72.6 57.4			
	77.8		30.3 50.5	9.5 19.9	423 549
Osun Oyo	86.2 58.8	90.8 57.3	50.5 90.1	51.8	549 976
~,~	00.0	01.0	00.1	01.0	57.0
- 					
	65 1	36.7	72 N	30.4	15 959
ducation No education Primary	65.1 64.9	36.7 49.2	72.0 68.9	30.4 31.9	15,858 5 103
	65.1 64.9 67.9	36.7 49.2 55.9	72.0 68.9 67.9	30.4 31.9 28.3	15,858 5,103 10,413

Background characteristic	Every case of malaria can potentially lead to death	You don't worry about malaria because it can be easily treated	You know people who have become dangerously sick with malaria	Only weak children can die from malaria	Number of women
Wealth guintile					
Lowest	62.9	31.8	73.2	28.3	7,572
Second	64.5	41.3	69.2	30.7	7,782
Middle	69.4	49.2	69.0	31.5	7,043
Fourth	69.1	55.0	69.5	30.4	6,254
Highest	65.3	58.0	69.1	27.0	5,541
Total	66.1	46.0	70.1	29.7	34,193

Table 12.19.2 Beliefs about the consequences of malaria: Men

Among men age 15-49 who are married or cohabitating and have at least one child under age 5, percentage who agree with specified statements regarding malaria consequences, according to background characteristics, Nigeria DHS 2018

Background characteristic	Every case of malaria can potentially lead to death	You don't worry about malaria because it can be easily treated	You know people who have become dangerously sick with malaria	Only weak children can die from malaria	Number of men
		,			2,011
Age 15-19	*	*	*	*	1
20-24	74.6	43.9	76.4	34.1	151
25-29	80.2	47.8	74.2	33.4	614
30-34	75.9	50.1	72.8	33.3	1,224
35-39	75.5 75.5	43.1	73.2	28.2	1,417
40-44	75.5 72.2	46.5	73.2 72.8		
45-49	71.8	43.6	72.6 72.4	33.5 30.9	1,191 783
Residence		.0.0		55.5	
Urban	72.2	47.1	69.6	31.4	2,504
Rural	77.1	45.2	76.1	31.9	2,877
Zone	20.0	44.0	74.0	07.0	754
North Central	83.0	44.0	74.9	27.3	751
North East	72.6	54.0	81.1	51.3	837
North West	82.2	43.7	79.5	26.9	1,377
South East	56.3	43.4	44.3	12.2	659
South South	65.7	52.5	74.8	41.2	580
South West	77.5	43.0	74.1	32.2	1,178
State					
North Central	72.0	24.2	26.6	E 0	4.4
FCT-Abuja	73.0	24.3	36.6	5.9	44
Benue	83.3	10.5	36.5	13.7	157
Kogi	92.9	20.3	86.4	9.1	57
Kwara	68.8	50.1	80.9	25.5	77
Nasarawa	68.6	55.7	93.8	44.0	79
Niger	90.6	54.5	97.0	31.4	244
Plateau	85.3	82.3	72.3	48.5	92
North East					
Adamawa	98.9	81.1	90.4	78.3	109
Bauchi	56.6	59.6	70.2	53.3	193
Borno	76.3	73.5	8.08	76.4	199
Gombe	72.6	14.5	81.5	8.4	91
Taraba	99.3	13.6	95.3	7.8	87
Yobe	54.8	48.8	80.4	47.2	158
North West					
Jigawa	97.8	12.8	66.2	3.4	141
Kaduna	92.3	56.7	97.2	54.2	292
Kano	91.2	57.2	72.9	25.9	258
Katsina	79.4	54.5	89.3	21.3	276
Kebbi	97.8	12.1	77.1	12.7	139
Sokoto	59.8	58.9	38.4	17.6	106
Zamfara	42.9	24.5	82.1	27.8	166
South East					
Abia	96.6	27.5	58.9	25.0	71
Anambra	41.7	68.8	10.9	4.3	241
Ebonyi	98.2	9.1	91.7	5.6	134
Enugu	24.8	43.7	46.8	1.1	78
Imo	37.5	40.0	47.4	32.9	134
South South					
Akwa Ibom	44.9	25.1	85.3	19.8	102
Bayelsa	90.9	82.0	92.6	68.3	45
Cross River	86.3	48.6	78.6	56.0	49
Delta	64.4	82.0	76.4	47.1	138
Edo	42.8	12.4	43.4	33.7	52
Rivers	72.7	51.1	71.5	40.2	194
South West			-		-
Ekiti	57.5	72.2	80.7	75.6	78
Lagos	78.5	67.1	64.0	59.2	432
Ogun	87.3	46.9	82.7	4.7	180
Ondo	97.1	47.8	90.2	37.7	90
Osun	47.2	4.2	45.8	0.0	143
Oyo	85.3	10.6	93.3	8.5	254
ducation					
No education	75.3	45.7	77.6	35.6	1,366
Primary	72.1	46.5	65.7	25.9	885
Secondary	75.2	47.7	71.6	31.9	2,194
Occordary	10.2		7 1.0		

Background characteristic	Every case of malaria can potentially lead to death	You don't worry about malaria because it can be easily treated	You know people who have become dangerously sick with malaria	Only weak children can die from malaria	Number of men
Wealth quintile					
Lowest	72.4	43.2	71.4	31.2	908
Second	81.4	46.5	79.7	32.9	967
Middle	74.1	45.7	74.9	32.6	1,086
Fourth	72.4	46.1	71.4	29.9	1,139
Highest	74.4	48.2	69.4	31.9	1,282
Total	74.8	46.1	73.1	31.7	5,381

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Key Findings

- Knowledge about HIV transmission and prevention: 46% of women and 45% of men age 15-49 have 'comprehensive knowledge' about the modes of HIV transmission and prevention.
- Knowledge of mother-to-child transmission of HIV: 57% of women and 52% of men know that HIV can be transmitted during pregnancy, labour/delivery, or breastfeeding. Additionally, 72% of women and 62% of men know that the risk of mother-to-child transmission can be reduced by the mother taking special drugs.
- Discriminatory attitudes: 47% of women and 46% of men think that children living with HIV should not be able to attend school with children who are HIV negative; 53% of women and 50% of men would not buy fresh vegetables from a shopkeeper with HIV.
- Sexual partners: 1% of women and 13% of men reported having two or more sexual partners in the past 12 months.
- Comprehensive knowledge of HIV among young people: 43% of young women and 34% of young men age 15-24 have comprehensive knowledge of HIV.

cquired immunodeficiency syndrome (AIDS) is one of the most serious public health and development challenges facing the world today. AIDS is caused by the human immunodeficiency virus (HIV). HIV weakens the immune system, making the body susceptible to secondary infections and opportunistic diseases. Without treatment, HIV infection leads to AIDS, which is invariably fatal. The predominant mode of HIV transmission is sexual contact. Other modes of transmission are unsafe injections, use of tainted blood supplies during blood transfusions, and mother-to-child transmission (in which the mother passes HIV to her child during pregnancy, delivery, or breastfeeding).

Since 1991, the Government of Nigeria has employed a sentinel surveillance system among pregnant women age 15-49 attending antenatal care to track HIV prevalence (Federal Ministry of Health 2008). To further strengthen its coordination of the multi-sectoral response, the federal government transformed the National Action Committee on AIDS into the Agency for the Control of AIDS in July 2007 (National Agency for the Control of AIDS 2007). For the purpose of sustaining and improving the effectiveness and coordination of the national HIV response, states have taken the same step of transforming smaller committees and bodies into agencies.

Nationally, HIV and AIDS programmes have received a boost through the efforts of the government and the support of development partners, which has led to a scale up of prevention, care, and treatment programmes aimed at combating the disease. The objective of this chapter is to provide data on levels of and trends in HIV/AIDS knowledge, attitudes, and behaviours, including knowledge of HIV prevention

methods, stigma and discrimination, number of sexual partners, condom use, and prevention of mother-to-child transmission (PMTCT) of HIV. The chapter presents these data at the national and regional levels and by demographic and socioeconomic characteristics.

13.1 HIV/AIDS KNOWLEDGE, TRANSMISSION, AND PREVENTION METHODS

The 2018 NDHS included a series of questions to measure respondents' knowledge and attitudes regarding HIV/AIDS. Ever-married women and men age 15-49 were first asked whether they had heard of HIV/AIDS. Those who reported having heard of HIV/AIDS were asked additional questions regarding the various modes of prevention, including whether it is possible to reduce the chances of getting the HIV virus by having just one faithful sex partner and using a condom during every sexual encounter. To allow an assessment of the extent of possible misconceptions, respondents were also asked whether they think it is possible for a healthy-looking person to have the HIV/AIDS virus and whether a person can contract HIV/AIDS from mosquito bites, by sharing food with a person who has HIV/AIDS, or through supernatural means.

Seventy-one percent of women and 74% of men know that consistent use of condoms and limiting sexual intercourse to one uninfected partner can reduce the risk of HIV (**Table 13.1**).

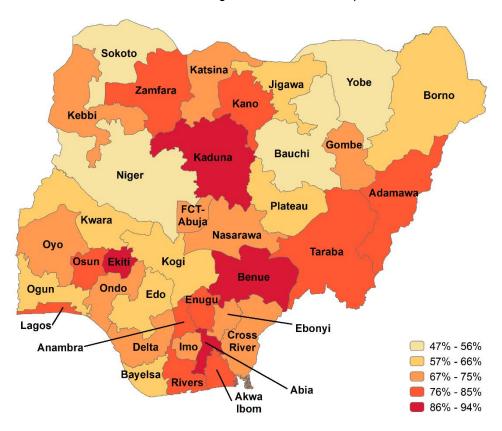
Trends: The percentage of respondents who know that using condoms and limiting sexual intercourse to one uninfected partner who has no other partner can reduce the risk of HIV has increased since 2013, from 54% to 71% among women and from 70% to 74% among men.

Patterns by background characteristics

- The percentage of women who know that using condoms and limiting sexual intercourse to one uninfected partner can reduce the risk of HIV varies by age, from 62% among those age 15-19 to 74% among those age 30-39. The same pattern is observed among men (60% and 79%, respectively).
- There are notable differences in knowledge of HIV/AIDS prevention methods by zone. The proportions of women and men who know about both methods are lowest in the North East (62% and 58%, respectively) and highest in the South East (77% and 88%, respectively).

Figure 13.1 Knowledge of HIV prevention among women by state

Percentage of women age 15-49 who know that HIV can be prevented by using condoms and limiting sex to one uninfected partner



- Across states, knowledge of HIV/AIDS prevention methods among women ranges from a high of 94% in Benue to a low of 47% in Niger (Figure 13.1).
- Among men and women alike, knowledge of both prevention methods increases with increasing education and wealth. For example, women with no education (61%) are less likely to know of the prevention methods than those with more than a secondary education (85%). Similarly, 81% of women in the highest wealth quintile know of both methods, as compared with only 57% of women in the lowest quintile.

Comprehensive knowledge of HIV

Knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chances of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about transmission or prevention of HIV.

Sample: Women and men age 15-24 and 15-49

The two most common local misconception about HIV transmission in Nigeria are that HIV can be transmitted through mosquitoes and sharing of food. The survey results showed that 46% of women and 45% of men age 15-49 have comprehensive knowledge of HIV (**Table 13.2**).

The percentage of women with comprehensive knowledge about HIV varies by age, from 38% among those age 15-19 to 50% among those age 25-29. The percentage of men with comprehensive knowledge ranges from 29% among those age 15-19 to 52% among those age 40-49.

Trends: The percentage of women and men with comprehensive knowledge of HIV has increased since 2013, from 26% to 46% among women and from 37% to 45% among men.

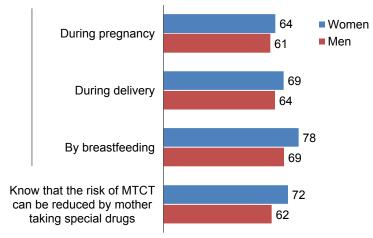
13.2 KNOWLEDGE ABOUT MOTHER-TO-CHILD TRANSMISSION

Increasing the level of general knowledge about transmission of HIV from mother to child and reducing the risk of transmission using antiretroviral drugs are critical in reducing mother-to-child transmission (MTCT) of HIV. To assess MTCT knowledge, respondents were asked whether HIV can be transmitted from a mother to her child during pregnancy, during delivery, or through breastfeeding and whether a mother with HIV can reduce the risk of transmission to her baby by taking certain drugs during pregnancy.

Figure 13.2 Knowledge of mother-to-child transmission (MTCT) of HIV

Percentage of women and men age 15-49

Know that HIV can be transmitted from mother to child:



Overall, women are more likely

than men to be aware of all three means of HIV transmission (57% versus 52%) (**Table 13.3**). About two-thirds (64%) of women know that HIV can be transmitted during pregnancy, 69% know that it can be transmitted during delivery, and 78% know that it can be transmitted through breastfeeding. Among men, 61% know that HIV can be transmitted during pregnancy, 64% know that it can be transmitted during delivery, and 69% know that it can be transmitted during breastfeeding (**Figure 13.2**).

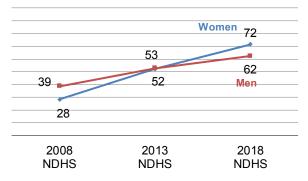
Trends: The percentage of women who know that MTCT can be reduced by taking special medications increased from 53% in 2013 to 72% in 2018. The percentage among men increased from 52% to 62% over the same period (**Figure 13.3**).

Patterns by background characteristics

- Overall, more than three quarters (78%) of women know that HIV can be transmitted during breastfeeding. Percentages vary by age, from 68% among women age 15-19 to 81% among women age 30-39.
- Knowledge that MTCT can be reduced by mothers taking special drugs is higher among women (72%) than men (62%). Knowledge generally increases with age among women and men alike. For example, 61% of women age 15-

Figure 13.3 Trends in knowledge of mother-to-child transmission (MTCT) of HIV

Percentage of women and men age 15-49 who know that the risk of MTCT can be reduced by mother taking special drugs



19 know that MTCT can be reduced by mothers taking special drugs, as compared with 75% of women age 30-39.

13.3 DISCRIMINATORY ATTITUDES TOWARDS PEOPLE LIVING WITH HIV

Widespread stigma and discrimination in a population can adversely affect both people's willingness to be tested and their adherence to antiretroviral therapy (ART). Thus, reduction of stigma and discrimination in a population is an important indicator of the success of programmes targeting HIV/AIDS prevention and control.

Discriminatory attitudes towards people living with HIV

Women and men are asked two questions to assess discriminatory attitudes towards people living with HIV. Respondents with discriminatory attitudes towards people living with HIV are those who say that they would not buy fresh vegetables from a shopkeeper or vendor if they knew that person had HIV or who say that children living with HIV should not be allowed to attend school with children who do not have HIV.

Sample: Women and men age 15-49 who have heard of HIV or AIDS

The results showed that, overall, discriminatory attitudes are similar among women (59%) and men (58%) (**Table 13.4**). Forty-seven percent of women and 46% of men do not think that children living with HIV should be able to attend school with children who are HIV negative. Similarly, 53% of women and 50% of men would not buy fresh vegetables from a shopkeeper who has HIV.

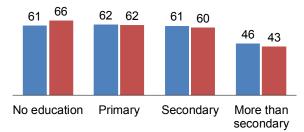
Patterns by background characteristics

- Overall, there are minimal differences in discriminatory attitudes between women and men in urban areas (57% each) and rural areas (61% and 59%, respectively).
- Women and men in the South West (76% and 71%, respectively) are more likely to have discriminatory attitudes towards people with HIV than women and men in other regions.
- The proportion of women and men with discriminatory attitudes generally decreases with increasing education; 61% of women and 66% of men with no education have discriminatory attitudes, as compared with 46% of women and 43% of men with more than a secondary education reported (Figure 13.4).
- Discriminatory attitudes also generally decrease with increasing wealth. The percentage of women with discriminatory attitudes decreases from 68% among those in the lowest wealth quintile to 56% among those in the highest wealth quintile. Among men, the percentage decreases from 71% among those in the lowest wealth quintile to 54% among those in the highest quintile.

Figure 13.4 Discriminatory attitudes towards people living with HIV by education

Percentage among women and men age
15-49 who have heard of HIV

■ Women ■ Men



Note: Respondents have discriminatory attitudes if they do not think that children living with HIV should be able to attend school with children who are HIV negative or would not buy fresh vegetables from a shopkeeper who has HIV.

13.4 MULTIPLE SEXUAL PARTNERS

Given that most HIV infections in Nigeria are acquired through heterosexual intercourse, information on number of sexual partners and use of safe sex practices is important in designing and monitoring programmes that control the spread of HIV.

Only 1% of women age 15-49 reported having two or more sexual partners in the past 12 months. In the 12 months before the survey, 9% of women reported having sexual intercourse with a person who neither was their husband nor lived with them, and fewer than 4 in 10 of those women (36%) reported using a condom during the last sexual intercourse with such a partner (**Table 13.5.1**).

Among men age 15-49, 13% reported having two or more sexual partners in the 12 months before the survey, and 16% reported having sexual intercourse with a person who neither was their wife nor lived with them. Almost 6 in 10 of those men (65%) reported using a condom during the last sexual intercourse with such a partner (**Table 13.5.2**).

Patterns by background characteristics

- Women in urban areas are more likely (11%) than women in rural areas (7%) to have had sex in the last 12 months with a person who neither was their husband nor lived with them. They are also more likely to have used a condom during the last sexual intercourse with such a partner (37% versus 34%). The pattern is similar among men.
- The percentage of men who used a condom during their last sexual intercourse with a non-marital or non-cohabiting partner was higher among those with more than a secondary education (73%) than among those with no education (41%).
- Women living in urban and rural areas reported comparable numbers of lifetime partners (2.3 and 1.9, respectively), while urban men reported a higher number of partners than rural men (5.0 and 3.8, respectively).

13.5 PAID SEX

The act of paying for sex introduces an uneven negotiating ground for safer sexual intercourse. Transactional sex is the exchange of money, favours, or gifts for sexual intercourse. This type of sexual intercourse is associated with a greater risk of contracting HIV and other sexually transmitted infections (STIs) because of compromised power relations and the likelihood of having multiple partners.

Five percent of men age 15-49 have ever paid for sex. The percentage of men who have paid for sex increases from 1% among those age 15-19 to 7% among those age 30-39. Among men who paid for sex in the last 12 months, almost three quarters (74%) reported using a condom during the last paid sexual intercourse (**Table 13.6**).

Trends: The percentage of men who reported having ever paid for sex did not change between 2013 and 2018 (5% in both years). However, condom use during last paid sexual intercourse increased from 66% to 74%.

13.6 MALE CIRCUMCISION

Male circumcision is a common practice in many parts of Nigeria for traditional, health, and other reasons and often serves as a rite of passage to adulthood. Male circumcision has been shown to be associated with lower rates of STI transmission, including transmission of HIV (WHO and UNAIDS 2007). Ninety-six percent of men age 15-49 have been circumcised, 26% by health professionals and 60% by traditional practitioners or family and friends (**Table 13.7**).

Patterns by background characteristics

• Men age 15-19 (32%) are more likely than men age 40-49 (20%) to have been circumcised by a health professional. In contrast, men age 40-49 are more likely to have been circumcised by traditional practitioners or family and friends (65% and 55%, respectively).

- Urban men are more likely than rural men to have been circumcised by a health professional (35% versus 18%), while rural men are more likely to have been circumcised by traditional practitioners or family and friends (72% versus 47%).
- The proportion of men who have been circumcised by a health professional varies markedly by zone, from 12% in the North East to 45% in the South East.

13.7 SELF-REPORTING OF SEXUALLY TRANSMITTED INFECTIONS

Sexually transmitted infections (STIs) and symptoms

Respondents who have ever had sex are asked whether they had an STI or symptoms of an STI (a bad-smelling, abnormal discharge from the vagina/penis or a genital sore or ulcer) in the 12 months before the survey.

Sample: Women and men age 15-49 who have ever had sex

Sexually transmitted infections are associated with HIV, and people with an STI are more likely to contract HIV than those without an STI. Overall, 14% of women and 8% of men who have ever had sexual intercourse reported having an STI and/or STI symptoms in the 12 months preceding the survey (**Table 13.8**). Among them, 44% of women and 54% of men sought no advice or treatment (**Table 13.9**).

13.8 HIV/AIDS-RELATED KNOWLEDGE AND BEHAVIOUR AMONG YOUNG PEOPLE

This section addresses HIV/AIDS-related knowledge among young people age 15-24 and also assesses the extent to which young people are engaged in behaviours that may place them at risk of contracting HIV.

13.8.1 Comprehensive Knowledge

Knowledge of how HIV is transmitted is crucial in enabling people to avoid HIV infection, and this is especially true for young people, who are often at greater risk because they may have shorter relationships with more partners or engage in other risky behaviours. Forty-three percent of young women and 34% of young men age 15-24 have comprehensive knowledge of HIV/AIDS (defined as knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chances of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about transmission or prevention of HIV) (**Table 13.10**).

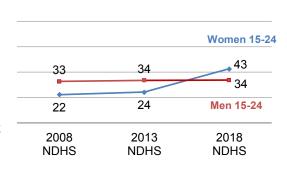
Trends: The proportion of young women with comprehensive knowledge about HIV has increased since 2013 (from 24% to 43%), while the proportion among young men has not changed (34% in both years) (**Figure 13.5**).

Patterns by background characteristics

- Comprehensive knowledge is higher among young women and men in urban areas (51% and 42%, respectively) than among those in rural areas (36% and 28%, respectively).
- The proportion of both young women and young men with comprehensive knowledge about HIV increases with increasing education. Thirty-one percent of young women with no education have comprehensive knowledge, as compared with

Figure 13.5 Trends in comprehensive HIV knowledge among youth

Percentage of young women and men age 15-24 who know how to prevent HIV transmission and reject local myths



66% of those with more than a secondary education. The corresponding proportions among men are 16% and 59%.

13.8.2 First Sex

Young people who initiate sex at an early age are typically at higher risk of becoming pregnant or contracting an STI than young people who initiate sex later. Consistent condom use can reduce such risks. Twelve percent of young women and 2% of young men age 15-24 had sexual intercourse before age 15 (**Table 13.11**). As a result of early female marriage, a higher proportion of young women (53%) than young men (14%) reported having sex before age 18.

Trends: The percentage of young people age 15-24 who had sex before age 15 has decreased slightly since 2013, from 17% to 12% among women and from 3% to 2% among men. While there has also been a decrease in the percentage of young men age 18-24 who have had sex by age 18, the percentage among young women has increased slightly (from 52% to 53%).

Patterns by background characteristics

- Young women in rural areas (17%) are more likely to have sex before age 15 than their urban counterparts (6%).
- The percentage of young women age 18-24 who had sexual intercourse before age 18 decreases with increasing education, from 82% among those with no education to 17% among those with more than a secondary education.

13.8.3 Premarital Sex

Table 13.12 shows that 73% of never-married young women and 81% of never-married young men age 15-24 have never had sexual intercourse. The percentage of never-married respondents who have never had sexual intercourse decreases sharply with age; 91% of young women and 94% of young men age 15-17 have never had sex, as compared with 29% of young women and 50% of young men age 23-24.

The percentage of never-married young men age 15-24 who have never had sexual intercourse is higher in rural areas than in urban areas (84% versus 77%); there is only a marginal difference between young women in urban and rural areas (74% versus 73%). The proportion of never-married respondents who have never had sexual intercourse decreases with increasing education, from 91% among young women and 95% among young men with no education to 55% among young women and 61% among young men with more than a secondary education.

13.8.4 Multiple Sexual Partners

Young men age 15-24 are more likely than their female counterparts to have had more than one partner in the 12 months before the survey; 4% of men had more than one partner in the previous 12 months, as compared with 1% of women (**Table 13.13.1** and **Table 13.13.2**). Young men (15%) are also more likely than young women (13%) to have had intercourse with a non-marital, non-cohabiting partner in the last 12 months. Thirty-eight percent of young women and 62% of young men used a condom during their last sex with a non-marital, non-cohabiting partner.

Patterns by background characteristics

• The proportion of respondents who used a condom during their last sex with a non-marital, non-cohabiting partner is higher in urban than rural areas; 39% of young women and 67% of young men in urban areas used a condom during their last sexual intercourse with such a partner, as compared with 36% of young women and 56% of young men in rural areas.

The percentage of young women who reported using a condom during their last sexual intercourse with a non-marital, non-cohabiting partner increases with increasing education, from 29% among those with no education to 48% among those with more than a secondary education. Among men, the percentage who reported using a condom during their last sexual intercourse with such a partner increases from 63% among those with a secondary education to 73% among those with more than a secondary education.

LIST OF TABLES

For more information on HIV/AIDS-related knowledge, attitudes, and behaviour, see the following tables:

Table 13.1	Knowledge of HIV prevention methods
Table 13.2	Comprehensive knowledge about HIV
Table 13.3	Knowledge of prevention of mother-to-child transmission of HIV
Table 13.4	Discriminatory attitudes towards people living with HIV
Table 13.5.1	Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Women
Table 13.5.2	Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Men
Table 13.6	Payment for sexual intercourse and condom use at last paid sexual intercourse
Table 13.7	Male circumcision
Table 13.8	Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms
Table 13.9	Women and men seeking treatment for STIs
Table 13.10	Comprehensive knowledge about HIV among young people
Table 13.11	Age at first sexual intercourse among young people
Table 13.12	Premarital sexual intercourse among young people
Table 13.13.1	Multiple sexual partners and higher-risk sexual intercourse in the past 12
	months among young people: Women
Table 13.13.2	Multiple sexual partners and higher-risk sexual intercourse in the past 12 months among young people: Men

Table 13.1 Knowledge of HIV prevention methods

Percentage of women and men age 15-49 who, in response to prompted questions, say that people can reduce the risk of getting HIV by using condoms every time they have sexual intercourse and by having one sex partner who is not infected and has no other partners, according to background characteristics, Nigeria DHS 2018

	Women				Men			
Background characteristic	Using condoms ¹	Limiting sexual intercourse to one uninfected partner ²	Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2}	Number of women	Using condoms ¹	Limiting sexual intercourse to one uninfected partner ²	Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2}	Number of men
Age								
15-24	69.3	85.6	66.8	15,284	71.1	78.0	65.9	3,888
15-19	64.6	82.3	61.9	8,448	66.2	73.0	60.2	2,415
20-24	75.1	89.8	72.7	6,835	79.1	86.2	75.2	1,472
25-29	75.3	89.4	73.4	7,255	81.1	88.8	77.6	1,599
30-39 40-49	76.3 72.8	90.6 89.2	74.2 70.8	11,641 7,642	82.3 80.7	89.8 88.9	79.3 77.1	3,624 2,757
Residence								
Urban	79.0	90.7	76.7	19,163	82.7	88.9	79.2	5,512
Rural	67.8	86.3	65.6	22,658	74.1	82.7	69.8	6,356
Zone								
North Central	67.4	79.9	65.4	5,891	78.7	82.2	76.0	1,704
North East	63.1	89.1	61.6	6,636	63.3	74.4	57.9	1,936
North West	75.1	92.4	74.0	12,225	77.5	87.9	73.3	3,195
South East	78.4	94.6	77.0	4,963	90.2	95.0	87.9	1,355
South South South West	74.6 77.7	85.3 85.4	70.6 73.6	4,840 7,266	84.6 79.8	87.6 87.5	80.4 75.5	1,438 2,240
State				,				,
North Central								
FCT-Abuja	75.4	89.9	72.3	319	85.0	91.0	83.6	96
Benue	94.2	98.9	93.7	1,354	80.3	80.9	77.5	351
Kogi	60.0	80.8	58.9	654	81.0	84.5	77.6	156
Kwara	60.6	70.5	58.1	684	66.1	72.9	61.3	208
Nasarawa	70.6	88.4	66.8	648	96.3	97.4	96.2	206
Niger	47.9	58.2	46.9	1,357	88.6	92.3	85.4	442
Plateau	61.5	80.7	57.4	875	51.0	56.0	48.4	246
North East	01 1	94.1	81.0	003	64.7	80.0	E7 2	218
Adamawa Bauchi	81.1 49.3	94. i 89.5	48.0	903	64.7 51.0	63.4	57.3 46.3	420
Borno	58.2	84.9	56.8	1,343 1,469	69.3	78.9	63.0	398
Gombe	73.8	85.4	72.4	717	60.6	78.0	57.8	240
Taraba	82.0	91.6	79.4	877	75.5	82.0	71.1	187
Yobe	51.9	90.3	49.8	1,327	65.1	73.1	59.1	472
North West								
Jigawa	65.5	98.2	64.9	1,382	90.8	96.4	88.9	291
Kaduna	87.1	95.3	85.8	2,493	95.1	95.5	94.4	636
Kano	80.2	97.1	79.7	2,692	68.0	87.5	63.9	676
Katsina	70.2	93.3	68.7	2,283	75.3	90.0	70.6	687
Kebbi	70.7	79.1	69.3	1,136	57.6	77.5	53.8	291
Sokoto Zamfara	55.8 78.0	71.3 95.8	53.7 76.5	910 1,328	69.4 78.4	71.9 83.2	65.8 67.6	218 396
South East			*	,			. ·-	
Abia	90.2	96.7	89.1	630	87.4	97.1	85.5	185
Anambra	79.6	93.9	78.2	1,477	98.2	99.5	98.2	409
Ebonyi	73.8	95.0	72.5	1,027	89.2	96.0	87.8	233
Enugu	80.7	95.4	79.9	880	98.9	99.6	98.5	192
Imo	71.5	93.4	69.4	948	77.5	85.0	70.7	337
South South	70.7	00.4	75.7	0.40	00.0	04.7	96.0	004
Akwa Ibom	79.7	88.1 74.7	75.7 61.0	948 298	89.8 94.4	94.7 97.0	86.6 93.8	291 109
Bayelsa Cross River	62.4 74.9	74.7 82.6	67.3	298 574	94.4 72.8	97.0 80.4	93.8 66.7	137
Delta	69.3	80.7	67.3 67.4	931	68.3	69.0	59.3	326
Edo	66.5	83.5	59.8	555	91.7	95.7	90.2	140
Rivers	80.0	90.1	76.3	1,534	92.4	94.2	90.0	435

		Wo	men			М	en	
Background characteristic	Using condoms ¹	Limiting sexual intercourse to one uninfected partner ²	Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2}	Number of women	Using condoms ¹	Limiting sexual intercourse to one uninfected partner ²	Using condoms and limiting sexual intercourse to one uninfected partner ^{1,2}	Number of men
South West								
Ekiti	89.5	91.3	86.8	475	81.4	84.0	80.9	139
Lagos	80.7	84.4	75.8	2,891	77.0	84.9	73.1	845
Ogun	65.4	88.3	60.4	927	93.7	90.0	85.8	309
Ondo	83.5	84.9	75.3	683	77.7	89.8	72.9	247
Osun	80.1	83.3	78.2	938	53.6	86.4	50.6	269
Oyo	71.2	85.0	69.5	1,352	92.3	91.4	88.3	432
Education								
No education	62.5	84.3	60.9	14,603	66.0	76.3	60.7	2,555
Primary	70.3	87.5	68.3	6,039	76.4	85.1	72.3	1,590
Secondary	79.2	90.4	76.3	16,583	81.0	87.5	77.1	5,697
More than secondary	86.7	94.7	84.8	4,596	86.4	92.4	84.2	2,025
Wealth quintile								
Lowest	58.5	84.1	57.2	7,222	63.1	73.6	57.6	1,991
Second	67.8	86.1	65.9	8,045	72.9	84.0	68.8	2,123
Middle	73.1	87.9	70.8	8,207	80.7	87.9	77.0	2,393
Fourth	78.6	89.9	75.5	8,990	83.6	89.4	80.3	2,590
Highest	82.8	92.5	80.6	9,357	85.4	89.9	81.9	2,770
Total 15-49	72.9	88.3	70.7	41,821	78.1	85.6	74.1	11,868
50-59	na	na	na	na	78.4	89.5	75.2	1,443
Total 15-59	na	na	na	na	78.1	86.0	74.3	13,311

na = Not applicable

¹ Using condoms every time they have sexual intercourse

² Partner who has no other partners

Table 13.2 Comprehensive knowledge about HIV

Percentage of women and men age 15-49 who say that a healthy-looking person can have HIV and who, in response to prompted questions, correctly reject local misconceptions about transmission or prevention of HIV, and percentage with comprehensive knowledge about HIV, according to age, Nigeria DHS 2018

	Pe	ercentage of respo	ndents who say th	Percentage who say that a healthy-looking person can have			
Age	A healthy-looking person can have HIV	HIV cannot be transmitted by mosquito bites	HIV cannot be transmitted by supernatural means	A person cannot become infected by sharing food with a person who has HIV	HIV and who reject the two most common local miscon- ceptions ¹	Percentage with a comprehensive knowledge about HIV ²	Number of respondents
			WC	OMEN			
15-24	80.0	68.4	71.4	73.1	54.0	42.6	15,284
15-19	76.5	65.5	69.2	71.1	50.5	38.1	8,448
20-24	84.4	72.0	74.1	75.7	58.4	48.1	6,835
25-29	83.4	72.8	73.0	76.3	58.7	49.5	7,255
30-39	84.5	73.3	74.2	77.4	58.7	49.3	11,641
40-49	82.8	71.4	71.7	75.2	56.0	45.5	7,642
Total 15-49	82.3	71.1	72.5	75.2	56.5	46.2	41,821
			N	MEN			
15-24	68.7	61.5	63.5	64.3	40.8	33.7	3,888
15-19	64.3	55.8	57.2	58.9	35.8	28.7	2,415
20-24	75.9	70.8	73.7	73.2	48.9	41.9	1,472
25-29	82.2	74.4	76.9	75.2	55.4	48.3	1,599
30-39	84.4	76.0	78.1	77.3	58.2	51.1	3,624
40-49	83.7	76.8	78.1	78.2	60.2	52.2	2,757
Total 15-49	78.8	71.2	73.1	73.0	52.6	45.3	11,868
50-59	83.9	74.1	76.0	77.9	59.2	49.5	1,443
Total 15-59	79.3	71.5	73.4	73.5	53.3	45.8	13,311

¹ Two most common local misconceptions: the AIDS virus can be transmitted by mosquito bites and by sharing food with a person who has HIV. ² Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about HIV transmission or prevention (that HIV can be transmitted by mosquito bites and by sharing food with person who has HIV).

Table 13.3 Knowledge of prevention of mother-to-child transmission of HIV

Percentage of women and men age 15-49 who know that HIV can be transmitted from mother to child during pregnancy, during delivery, by breastfeeding, and by all three means, and percentage who know that the risk of mother-to-child transmission (MTCT) of HIV can be reduced by the mother taking special drugs, according to age, Nigeria DHS 2018

	Percent	age who know from mo	Percentage who know that the risk of MTCT			
Age	During pregnancy	During delivery	By breastfeeding	By all three means	can be reduced by mother taking special drugs	Number of respondents
			WOMEN			
15-24 15-19 20-24 25-29 30-39	59.6 55.8 64.3 65.7 67.6	62.7 57.2 69.4 70.8 73.5	72.8 68.3 78.4 79.5 80.8	51.7 47.7 56.6 58.1 60.7	66.6 60.7 74.0 74.2 75.3	15,284 8,448 6,835 7,255 11,641
40-49	67.3	73.4	80.3	60.6	72.9	7,642
Total 15-49	64.3	69.1	77.6	56.9	71.5	41,821
			MEN			
15-24 15-19 20-24 25-29 30-39 40-49	57.3 55.0 61.1 61.3 63.2 64.6	58.1 54.8 63.4 65.4 67.7 67.3	63.8 60.9 68.5 71.0 72.5 71.7	47.0 46.1 48.4 51.8 53.6 55.4	55.0 48.9 65.0 65.8 65.8 65.4	3,888 2,415 1,472 1,599 3,624 2,757
Total 15-49	61.3	64.1	69.3	51.6	62.2	11,868
50-59	68.3	68.5	73.7	57.1	67.5	1,443
Total 15-59	62.1	64.6	69.7	52.2	62.7	13,311

Table 13.4 Discriminatory attitudes towards people living with HIV

Among women and men age 15-49 who have heard of HIV or AIDS, percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative, percentage who would not buy fresh vegetables from a shopkeeper who has HIV, and percentage with discriminatory attitudes towards people living with HIV, according to background characteristics, Nigeria DHS 2018

	Women				Men			
	Percentage who do not think that children		attitudes towards people living	Number of women who have heard of AIDS	Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative		Percentage with discrimi- natory attitudes towards people living with HIV ¹	Number of men who have heard of AIDS
	living with HIV should be able to attend school with children who are HIV negative	Percentage who would not buy fresh vegetables from a shopkeeper who has HIV				Percentage who would not buy fresh vegetables from a shopkeeper who has HIV		
Background characteristic								
	<u> </u>							
Age 15-24	48.0	54.1	60.9	14,166	51.6	56.3	64.5	3,555
15-19	49.6	56.7	63.4	7,671	55.2	60.0	67.5	2,154
20-24	46.0	51.1	57.9	6,495	46.0	50.5	59.9	1,401
25-29	47.0	51.4	58.4	6,843	42.9	46.8	55.0	1,537
30-39	47.1	51.5	59.1	11,139	43.2	46.0	55.1	3,509
40-49	47.0	51.8	58.1	7,285	43.9	46.7	55.5	2,674
Marital status								
Never married	44.9	52.5	59.7	9,880	47.4	51.7	59.9	4,576
Ever had sex	44.7	51.3	59.8	3,719	41.7	45.6	55.4	1,468
Never had sex	45.1	53.2	59.7	6,161	50.1	54.6	62.1	3,107
Married/living together Divorced/separated/	48.6	52.8	59.7	27,442	44.9	47.9	56.8	6,573
widowed	42.9	48.6	54.6	2,111	52.7	54.1	62.5	126
Residence Urban	45.8	49.7	57.4	18,539	46.5	47.3	57.1	5,355
Rural	48.8	55.0	61.2	20,894	45.5	51.5	59.1	5,921
Zone	00.0	40.0		5.040	44.0	50.4	50.5	4 400
North Central	39.9	49.2	55.7	5,046	44.0	52.4	59.5	1,499
North East North West	30.7 49.3	36.5 51.5	41.5 58.2	6,218 11,742	34.0 43.5	41.0 47.2	47.1 55.4	1,770
South East	49.3 44.0	56.2	62.9	4,888	49.4	49.5	59.5	3,060 1,352
South South	48.1	55.4	62.9	4,685	37.6	46.2	59.5 56.1	1,332
South West	66.6	66.5	75.8	6,854	63.7	60.0	70.5	2,181
State North Central								
FCT-Abuja	19.0	44.1	48.6	304	44.6	39.5	45.7	92
Benue	28.2	43.0	45.0	1,350	14.0	14.2	20.6	301
Kogi	53.0	72.7	77.8	555	47.2	49.5	65.0	138
Kwara	67.7	69.5	74.8	618	69.2	65.1	77.8	185
Nasarawa	37.1	32.7	47.2	606	48.5	40.9	51.2	200
Niger	43.3	52.7	59.5	816	55.0	87.7	89.2	427
Plateau	35.7	38.1	48.9	796	33.2	39.2	45.5	155
North East Adamawa	6.5	20.7	20.9	873	20.1	34.6	42.1	201
Bauchi	59.1	60.1	68.9	1,267	61.2	67.2	73.4	386
Borno	15.0	19.3	23.6	1,335	20.4	27.1	33.9	368
Gombe	22.1	23.3	28.3	647	32.8	37.4	43.9	236
Taraba	30.3	43.2	48.2	842	15.1	19.4	24.8	177
Yobe	40.6	44.3	49.7	1,255	36.3	43.2	48.0	402
North West								
Jigawa	78.2	63.9	80.1	1,375	60.8	60.2	71.8	290
Kaduna	14.8	17.9	25.4	2,464	14.9	18.5	20.5	611
Kano	57.1	57.0	62.2	2,666	44.1	50.0	57.5	670
Katsina	41.6	56.4	59.2	2,242	49.8	42.6	54.2	662
Kebbi	87.3	82.0	88.6	922	32.4	62.5	66.0	268
Sokoto Zamfara	56.7	62.9	67.5 60.7	748 1 325	44.1 72.1	57.9 70.1	62.9 86.6	175 384
Zamrara South East	50.3	54.2	60.7	1,325	72.1	70.1	86.6	384
Abia	43.9	53.6	59.5	625	25.9	33.2	37.8	184
Anambra	52.0	58.3	65.1	1,454	72.0	54.7	76.8	409
Ebonyi	39.7	43.3	50.1	1,009	44.6	48.6	53.3	231
Enugu	16.8	54.7	59.3	862	37.7	31.2	40.4	192
Imo	61.5	70.2	78.6	938	44.8	63.0	65.3	337

Table 13.4—Continued											
		Wo	men			Men					
Background characteristic	Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative	Percentage who would not buy fresh vegetables from a shopkeeper who has HIV	Percentage with discrimi- natory attitudes towards people living with HIV ¹	Number of women who have heard of AIDS	Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative	Percentage who would not buy fresh vegetables from a shopkeeper who has HIV	Percentage with discrimi- natory attitudes towards people living with HIV ¹	Number of men who have heard of AIDS			
South South											
Akwa Ibom	44.5	54.0	61.1	922	21.7	28.8	38.2	289			
Bayelsa	9.1	10.9	12.7	267	31.4	77.8	79.6	108			
Cross River	18.5	22.7	28.8	565	31.2	34.1	40.4	124			
Delta	77.5	82.6	89.5	866	40.4	54.0	68.1	323			
Edo	65.5	58.1	71.0	544	55.8	57.5	63.8	138			
Rivers	45.3	59.8	67.4	1,521	43.8	43.8	55.3	433			
South West Ekiti Lagos Ogun Ondo Osun Oyo	82.9 55.5 81.9 63.0 69.4 74.4	73.2 56.9 87.6 70.2 70.7 65.0	87.8 66.9 93.2 76.0 78.9 76.3	464 2,782 908 666 820 1,215	43.6 58.7 75.0 73.0 78.3 57.1	49.6 56.2 75.4 68.3 80.3 42.3	60.4 65.3 79.4 81.5 88.8 59.8	118 831 309 240 253 430			
Education											
No education Primary Secondary More than secondary	51.3 50.1 47.2 33.3	55.2 56.0 53.4 37.1	61.3 62.1 61.0 45.5	13,088 5,692 16,099 4,554	50.6 51.3 47.7 31.6	58.1 53.8 50.6 33.1	65.5 61.8 59.5 42.8	2,312 1,507 5,482 1,975			
Wealth quintile											
Lowest	57.8	61.9	67.9	6,454	57.7	63.6	71.3	1,767			
Second	48.3	53.5	59.7	7,360	45.3	50.6	57.6	1,977			
Middle	44.2	49.9	56.6	7,735	41.4	48.2	55.5	2,301			
Fourth	46.5	51.7	59.2	8,695	44.7	45.5	56.6	2,515			
Highest	42.9	48.0	55.9	9,189	43.8	44.4	53.6	2,715			
Total 15-49	47.4	52.5	59.4	39,433	46.0	49.5	58.1	11,275			
50-59	na	na	na	na	39.8	43.2	50.7	1,396			
Total 15-59	na	na	na	na	45.3	48.8	57.3	12,671			

na = Not applicable

¹ Percentage who do not think that children living with HIV should be able to attend school with children who are HIV negative and/or would not buy fresh vegetables from a shopkeeper who has HIV

Table 13.5.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Women

Among all women age 15-49, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them; among women having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; among women who had sexual intercourse in the past 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among women who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Nigeria DHS 2018

		All women	12 Women who had w 2+ partners in the past				who had in the past ith a person r was their nor lived them	Women who ever had sexual intercourse ¹	
Background characteristic	Percentage who had 2+ partners in the past 12 months	Percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them	Number of women	Percentage who reported using a condom during last sexual inter- course	Number of women	Percentage who reported using a condom during last sexual intercourse with such a partner	Number of women	Mean number of sexual partners in lifetime	Number of women
Age									
15-24	1.3	12.6	15,284	35.6	194	37.9	1,923	1.6	8,811
15-19	0.7	9.6	8,448	31.5	63	34.2	809	1.4	2,982
20-24	1.9	16.3	6,835	37.6	131	40.5	1,114	1.8	5,828
25-29	2.0	9.5	7,255	38.3	146	42.0	687	2.1	6,959
30-39	1.3	6.2	11,641	27.8	156	30.3	723	2.4	11,359
40-49	8.0	4.3	7,642	27.5	58	21.5	330	2.2	7,505
Marital status									
Never married	3.4	27.4	10,550	37.3	354	37.9	2,890	2.8	3,745
Married or living together	0.4	0.7	29,090	14.9	127	34.6	194	1.9	28,768
Divorced/separated/widowed	3.3	26.6	2,181	45.7	72	25.1	580	2.8	2,121
Residence									
Urban	1.6	11.2	19,163	36.8	305	36.7	2,147	2.3	15.010
Rural	1.1	6.7	22,658	28.8	248	34.3	1,517	1.9	19,624
			,				,-		-,-
Zone	4.0	0.1	E 001	27.0	75	44.2	E26	1.0	4.064
North Central North East	1.3	9.1	5,891	37.8	75 83	44.3	536	1.9	4,961
North West	1.3 0.2	5.0 0.9	6,636 12,225	40.2	63 26	32.8 47.6	335 112	1.7 1.9	5,497 10,333
South East	1.3	12.8	4,963	24.4	66	37.6	636	1.9	4,026
South South	3.8	22.6	4,840	38.3	183	31.8	1,092	3.1	3,962
South West	1.6	13.1	7,266	23.4	119	33.6	952	2.3	5,855
	1.0	10.1	7,200	20.4	113	00.0	302	2.0	0,000
State									
North Central			0.40	(=0 t)	_				
FCT-Abuja	2.3	11.7	319	(78.4)	7	56.6	37	5.7	239
Benue	2.3 0.6	14.9 11.8	1,354 654	(47.8)	31 4	62.3 35.4	202 77	2.3 1.6	1,164 562
Kogi Kwara	0.0	7.6	684	*	2	26.9	52	1.0	563
Nasarawa	1.4	10.0	648	*	9	36.2	65	1.3	529
Niger	0.5	2.2	1,357	*	7	(28.8)	30	1.4	1,185
Plateau	1.8	8.3	875	*	16	23.2	72	1.7	719
North East	2.4	44.0	000	(07.0)	00	45.0	400	0.0	700
Adamawa Bauchi	3.1 0.0	14.6	903	(67.2)	28	45.9 *	132 0	2.8	793
	4.4	0.0	1,343	*	0	(22.0)		1.2	1,184
Borno Gombe	1.1 0.5	3.8 2.3	1,469 717	*	16 3	(32.0) (29.5)	56 17	1.3 1.5	1,10 <i>7</i> 598
Taraba	4.1	14.8	877	18.7	36	20.6	130	2.4	756
Yobe	0.0	0.0	1,327	*	0	*	1	1.4	1,059
	3.0	3.0	.,521		Ŭ		•		.,000
North West	0.0		4.000	_	•	_	_	4 -	4 400
Jigawa	0.0	0.1	1,382	*	0	*	2	1.5	1,196
Kaduna	0.7	3.8	2,493	*	18	52.3	94	1.9	2,149
Kano	0.0	0.4	2,692	_	1	_	12	1.5	2,197
Katsina Kabbi	0.2	0.2	2,283	*	5	*	4	3.6	1,856
Kebbi Sokoto	0.1 0.2	0.0	1,136	*	1 2	*	0 0	1.1	978 809
Zamfara	0.2	0.0 0.1	910 1,328	*	0	*	1	1.3 1.1	1,149
aiiiiaia	0.0	U. I	1,320		U		ı ı	1.1	1,143

Continued...

Table	13.5.1	I—Co.	ntinued
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		All women			who had s in the past onths	Women who had intercourse in the past 12 months with a person who neither was their husband nor lived with them		Women who ever had sexual intercourse ¹	
Background characteristic	Percentage who had 2+ partners in the past 12 months	Percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them	Number of women	Percentage who reported using a condom during last sexual inter- course	Number of women	Percentage who reported using a condom during last sexual intercourse with such a partner	Number of women	Mean number of sexual partners in lifetime	Number of women
South East Abia Anambra Ebonyi Enugu Imo	1.3 0.8 0.8 1.2 2.8	15.5 14.0 8.3 12.6 14.2	630 1,477 1,027 880 948	* * * (28.7)	8 12 8 11 27	47.3 33.9 15.8 50.0 40.1	98 207 86 111 135	1.8 1.8 1.6 1.5 2.9	518 1,238 806 684 779
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	3.4 1.5 1.8 2.2 0.6 7.3	23.3 17.9 24.3 20.1 11.2 27.9	948 298 574 931 555 1,534	(12.8) * * * 49.0	32 4 10 21 4 112	33.0 8.7 37.9 18.7 31.8 37.6	221 54 139 187 62 428	3.7 1.8 2.5 3.1 2.1 3.7	644 258 502 781 466 1,311
South West Ekiti Lagos Ogun Ondo Osun Oyo	1.6 2.6 0.9 1.2 1.5 0.5	11.8 16.8 9.8 16.2 9.7 8.7	475 2,891 927 683 938 1,352	(21.5)	8 74 8 8 14 6	28.9 38.9 42.0 29.2 18.2 23.7	56 485 91 111 91 118	2.1 2.8 2.0 1.8 2.0 2.2	406 2,098 810 584 773 1,183
Education No education Primary Secondary More than secondary	0.4 1.0 2.0 2.3	1.3 6.2 13.6 18.4	14,603 6,039 16,583 4,596	24.3 21.3 35.0 39.4	53 63 332 106	28.3 23.1 34.7 45.4	192 374 2,253 844	1.7 2.2 2.3 2.5	13,683 5,367 11,704 3,880
Wealth quintile Lowest Second Middle Fourth Highest Total 15-49	0.7 0.9 1.1 2.1 1.6	2.6 5.2 9.0 12.4 12.9 8.8	7,222 8,045 8,207 8,990 9,357 41,821	13.6 36.7 30.2 35.1 37.6	50 70 93 187 154 553	25.7 31.6 29.6 37.7 40.5	189 419 737 1,114 1,204 3,663	1.5 1.7 2.1 2.4 2.6 2.1	6,461 7,003 6,812 7,185 7,175 34,634

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Means are calculated excluding respondents who gave non-numeric responses.

Table 13.5.2 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months: Men

Among all men age 15-49, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them; among men having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; among men who had sexual intercourse in the past 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner; and among men who ever had sexual intercourse, mean number of sexual partners during their lifetime, according to background characteristics, Nigeria DHS 2018

		All men		Men who had intercourse in the past 12 months with a person who neither was their partners in the past 12 months with them					Men who ever had sexual intercourse ¹		
Background characteristic	Percentage who had 2+ partners in the past 12 months	Percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them	Number of men	Percentage who reported using a condom during last sexual inter- course	Number of men	Percentage who reported using a condom during last sexual intercourse with such a partner	Number of men	Mean number of sexual partners in lifetime	Number of men		
Age											
15-24	3.8	15.3	3,888	56.0	149	62.1	595	3.3	913		
15-19	1.3	7.9	2,415	(59.7)	31	56.6	191	2.5	236		
20-24	8.0	27.5	1,472	55.1	118	64.7	405	3.6	677		
25-29	12.3	29.0	1,599	46.6	197	68.7	464	3.7	1,214		
30-39	16.0	15.3	3,624	19.4	580	65.1	555	4.5	3,313		
40-49	21.7	8.5	2,757	9.6	598	63.8	234	4.8	2,585		
Marital status											
Never married	6.0	25.2	4,951	68.7	297	65.4	1,250	4.6	1,409		
Married or living together	17.8	8.0	6,786	11.2	1,210	66.1	545	4.3	6,496		
Divorced/separated/	17.0	0.0	0,700		1,210	00.1	0.10	1.0	0,100		
widowed	12.3	40.3	131	*	16	40.2	53	5.4	120		
	12.0	10.0	101		10	10.2	00	0.1	120		
Type of union											
In polygynous union	84.5	4.7	864	2.1	730	(51.8)	40	3.9	856		
In non-polygynous union	8.1	8.5	5,922	25.0	481	67.2	505	4.4	5,640		
Not currently in union	6.2	25.6	5,082	66.8	313	64.4	1,303	4.6	1,529		
Residence											
Urban	10.7	19.1	5,512	33.8	590	69.3	1.054	5.0	3,794		
Rural	14.7	12.5	6,356	15.6	934	59.0	794	3.8	4,230		
-			,						,		
Zone	40.0	40.0	4 704	45.0	045	04.4	070	2.0	4.400		
North Central	12.6	16.3	1,704	15.6	215	64.4	278	3.2	1,192		
North East	13.2	9.6	1,936	16.8	256	50.0	185	3.2	1,204		
North West	14.4 9.6	3.4 22.4	3,195	4.5 47.2	460 130	67.4 69.2	109 303	1.9 6.6	1,836 940		
South East South South	18.6	36.3	1,355 1,438	47.2 45.1	267	64.6	522	9.9			
South West	8.7	20.1	2,240	33.8	195	68.0	451	4.2	1,016 1,837		
	0.7	20.1	2,240	33.0	195	00.0	401	7.2	1,007		
State											
North Central											
FCT-Abuja	6.6	7.1	96	*	6	(83.6)	7	2.5	65		
Benue	8.4	18.1	351	(25.1)	30	87.7	63	3.0	258		
Kogi	17.2	40.0	156	(11.0)	27	46.6	62	4.4	129		
Kwara	20.4	29.1	208	22.5	42	55.9	61	2.9	155		
Nasarawa	11.0	19.7	206	(19.3)	23	58.3	41	3.3	136		
Niger	14.3	5.8	442	4.9	63	*	26	2.8	305		
Plateau	9.7	7.6	246	(16.8)	24	*	19	3.6	143		
North East											
Adamawa	17.6	28.5	218	(40.4)	38	49.6	62	4.8	184		
Bauchi	13.1	5.1	420	17.9	55	*	22	2.2	264		
Borno	15.9	12.6	398	19.3	63	(58.5)	50	4.1	276		
Gombe	8.7	3.3	240	(2.1)	21	*	8	2.0	120		
Taraba	17.7	18.2	187	(11.5)	33	(27.9)	34	4.2	135		
	9.7	2.0	472	(2.8)	46	/	9	2.0	225		

Continued...

Table 13.5.2—Continue	w

| Percentage who had intercourse in the past 12 months with a person who had who had neither was 12 months their wife nor characteristic Percentage who had neither was 12 months with a past 12 months with a person who nad neither was 12 months their wife nor characteristic Percentage who had neither was their wife nor characteristic Number of them with a past 12 months Number of men Number of course Number of men Number of men 183 449 335 338 |
|--|--------------------------------|
| Jigawa 12.8 0.4 291 (0.0) 37 * 1 2.0 Kaduna 19.6 10.8 636 8.0 125 (79.3) 69 2.5 | 449
335
338 |
| Sigawa 12.6 0.4 291 (0.0) 37 1 2.0 Kaduna 19.6 10.8 636 8.0 125 (79.3) 69 2.5 | 449
335
338 |
| | 335
338 |
| Kano 100 00 676 00 74 * 6 16 | 338 |
| | |
| Katsina 13.4 1.8 687 5.6 92 * 13 1.6 | |
| Kebbi 19.2 2.6 291 0.0 56 * 8 2.0 | 180 |
| Sokoto 10.2 0.6 218 * 22 * 1 1.9 | 125 |
| Zamfara 13.5 3.0 396 4.4 53 * 12 1.7 | 226 |
| South East | |
| Abia 2.6 20.9 185 * 5 69.8 39 6.7 | 150 |
| Anambra 9.5 18.6 409 (53.1) 39 87.1 76 4.0 | 306 |
| Ebonyi 9.1 15.7 233 (49.4) 21 (69.0) 37 8.3 | 166 |
| Enugu 4.2 21.7 192 * 8 (86.7) 42 3.8 | 146 |
| lmo 17.1 32.6 337 42.3 57 50.1 110 12.0 | 172 |
| South South Akwa Ibom 6.9 31.3 291 * 20 72.5 91 3.9 | 202 |
| Bayelsa 20.3 40.6 109 32.5 22 51.2 44 8.9 | 93 |
| Cross River 4.9 23.7 137 * 7 (65.5) 32 4.7 | 112 |
| Delta 12.4 25.1 326 (36.1) 40 63.0 82 15.6 | 172 |
| Edo 18.2 35.2 140 (50.3) 25 59.7 49 8.4 | 103 |
| Rivers 35.0 51.3 435 45.3 152 65.6 223 13.1 | 335 |
| South West | |
| Ekiti 11.7 26.4 139 (39.8) 16 73.8 37 11.4 | 106 |
| Lagos 5.9 23.0 845 (41.1) 50 71.5 194 3.3 | 727 |
| Ogun 8.9 7.5 309 * 28 * 23 3.2 | 253 |
| Ondo 18.5 37.7 247 41.1 46 61.7 93 6.0 | 197 |
| Osun 9.2 19.8 269 * 25 (67.7) 53 3.2 | 228 |
| Oyo 7.4 11.7 432 * 32 (56.6) 50 3.9 | 326 |
| Education | |
| No education 16.9 3.9 2.555 3.5 432 40.8 101 2.4 | 1,769 |
| Primary 13.4 10.5 1,590 14.3 213 56.4 167 4.6 | 1,709 |
| Secondary 11.1 19.6 5,697 32.2 633 65.1 1,118 5.2 | 3,485 |
| More than secondary 12.2 22.8 2,025 38.9 246 72.6 461 4.6 | 1,590 |
| | .,000 |
| Wealth quintile | 4.040 |
| Lowest 12.1 5.0 1,991 4.2 242 37.1 99 2.4 | 1,216 |
| Second 15.5 9.4 2,123 13.1 328 57.5 200 3.3 | 1,362 |
| Middle 14.2 16.2 2,393 20.9 340 59.3 388 4.3 | 1,600 |
| Fourth 11.9 20.5 2,590 31.7 307 66.2 532 5.5 | 1,758 |
| Highest 11.1 22.7 2,770 40.3 306 73.9 629 5.3 | 2,087 |
| Total 15-49 12.8 15.6 11,868 22.7 1,524 64.9 1,848 4.4 | 8,025 |
| 50-59 23.4 4.4 1,443 3.4 338 49.0 64 4.4 | 1,355 |
| Total 15-59 14.0 14.4 13,311 19.2 1,862 64.3 1,912 4.4 | 9,379 |

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Means are calculated excluding respondents who gave non-numeric responses.

Table 13.6 Payment for sexual intercourse and condom use at last paid sexual intercourse

Percentage of men age 15-49 who ever paid for sexual intercourse and percentage reporting payment for sexual intercourse in the past 12 months, and among them, percentage reporting that a condom was used the last time they paid for sexual intercourse, according to age, Nigeria DHS 2018

		Among all men:	Among men who in the past 12		
Age	Percentage who ever paid for sexual intercourse	Percentage who paid for sexual intercourse in the past 12 months	Number of men	Percentage reporting condom use at last paid sexual intercourse	Number of men
15-24	2.4	1.8	3,888	67.5	71
15-19	0.9	0.6	2,415	*	15
20-24	5.0	3.8	1,472	71.9	56
25-29	6.4	4.0	1,599	72.1	64
30-39	6.5	3.1	3,624	84.1	114
40-49	6.0	2.5	2,757	63.7	68
Total 15-49	5.0	2.7	11,868	73.6	316
50-59	3.8	1.5	1,443	*	22
Total 15-59	4.9	2.5	13,311	74.0	338

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 13.7 Male circumcision

Percent distribution of men age 15-49 by circumcision status and provider of circumcision, and percentage of men circumcised, according to background characteristics, Nigeria DHS 2018

		Circumcised by		<u>-</u>	Don't know/			
Background characteristic	Health worker/ professional	Traditional practitioner/ family/friend	Other/don't know/missing	Not circumcised	missing circumcision status	Total	Percentage of men circumcised ¹	Number of men
Age								
15-24	30.8	56.7	8.3	3.0	1.2	100.0	95.8	3,888
15-19	31.6	54.9	8.7	3.3	1.6	100.0	95.1	2,415
20-24	29.6	59.6	7.7	2.6	0.5	100.0	96.9	1,472
25-29	27.3	61.5	8.2	2.7	0.3	100.0	97.0	1,599
30-39	25.0	60.1	11.2	3.4	0.3	100.0	96.3	3,624
40-49	19.5	64.9	11.6	3.9	0.1	100.0	96.0	2,757
Residence								
Urban	35.1	47.2	13.1	3.5	1.0	100.0	95.4	5,512
Rural	17.9	71.7	7.2	3.1	0.1	100.0	96.8	6,356
Zone								
North Central	21.6	68.1	7.4	2.8	0.0	100.0	97.2	1,704
North East	12.0	86.2	0.6	1.2	0.0	100.0	98.8	1,936
North West	14.8	84.2	0.3	0.6	0.0	100.0	99.4	3,195
South East	45.2	16.3	36.5	1.1	0.9	100.0	98.1	1,355
South South	43.1	25.4	21.0	10.1	0.4	100.0	89.5	1,438
South West	34.4	46.7	10.5	6.3	2.1	100.0	91.6	2,240
	04.4	40.7	10.0	0.0	2.1	100.0	31.0	2,240
State								
North Central								
FCT-Abuja	45.3	33.7	15.9	5.1	0.0	100.0	94.9	96
Benue	17.4	58.2	19.0	5.3	0.0	100.0	94.7	351
Kogi	36.6	47.9	13.7	1.8	0.0	100.0	98.2	156
Kwara	26.6	69.5	1.7	2.2	0.0	100.0	97.8	208
Nasarawa	40.2	54.6	3.6	1.3	0.3	100.0	98.4	206
Niger	4.9	91.7	2.8	0.6	0.0	100.0	99.4	442
Plateau	19.0	76.3	0.0	4.7	0.0	100.0	95.3	246
North East								
Adamawa	34.1	62.6	0.7	2.7	0.0	100.0	97.3	218
Bauchi	2.5	95.1	0.7	1.7	0.0	100.0	98.3	420
Borno	20.2	78.3	0.7	0.7	0.0	100.0	99.3	398
Gombe	3.0	96.6	0.2	0.1	0.0	100.0	99.9	240
Taraba Yobe	21.2 4.3	77.2 94.3	1.6 0.0	0.0 1.4	0.0 0.0	100.0 100.0	100.0 98.6	187 472
	4.5	34.3	0.0	1.4	0.0	100.0	90.0	472
North West						400.0		201
Jigawa	5.0	94.6	0.0	0.5	0.0	100.0	99.5	291
Kaduna	17.5	81.6	0.0	1.0	0.0	100.0	99.0	636
Kano	10.6	88.6	0.8	0.0	0.0	100.0	100.0	676
Katsina	35.8	63.8	0.2	0.2	0.0	100.0	99.8	687
Kebbi	9.9	87.9	0.7	1.6	0.0	100.0	98.4	291
Sokoto	0.5	98.0	1.0	0.5	0.0	100.0	99.5	218
Zamfara	0.0	98.8	0.0	1.2	0.0	100.0	98.8	396
South East								
Abia	83.2	10.4	5.3	1.1	0.0	100.0	98.9	185
Anambra	50.5	2.1	46.4	0.7	0.3	100.0	99.1	409
Ebonyi	13.5	44.2	41.3	0.3	0.8	100.0	98.9	233
Enugu	63.5	31.6	2.9	2.0	0.0	100.0	98.0	192
Imo	29.5	9.0	57.3	1.5	2.7	100.0	95.8	337
	=				•			
South South Akwa Ibom	33.2	31.0	27.2	8.5	0.0	100.0	91.5	291
Bayelsa	54.8	43.8	0.0	1.3	0.0	100.0	98.7	109
Cross River	63.1	31.2	4.9	0.3	0.5	100.0	99.2	137
Delta	44.7	13.8	4.7	35.9	1.0	100.0	63.1	326
Edo	37.3	51.7 15.4	10.4	0.3	0.3	100.0	99.4	140
Rivers	41.2	15.4	42.9	0.3	0.3	100.0	99.5	435
South West								
Ekiti	34.5	28.9	33.3	2.2	1.1	100.0	96.7	139
Lagos	44.2	48.4	5.3	1.0	1.1	100.0	97.9	845
Ogun	8.3	57.8	26.5	7.4	0.0	100.0	92.6	309
Ondo	38.5	38.7	16.2	3.3	3.3	100.0	93.4	247
Osun	23.9	37.5	0.7	36.7	1.2	100.0	62.0	269
Oyo	38.3	51.4	4.8	0.0	5.6	100.0	94.4	432

Continued...

	(Circumcised by			Don't know/			
Background characteristic	Health worker/ professional	Traditional practitioner/ family/friend	Other/don't know/missing	Not circumcised	missing circumcision status	Total	Percentage of men circumcised ¹	Number of men
Religion								
Catholic	41.5	31.7	23.0	2.9	8.0	100.0	96.2	1,339
Other Christian	38.4	37.8	18.0	4.9	0.8	100.0	94.3	4,092
Islam	14.7	80.8	1.9	2.3	0.3	100.0	97.4	6,351
Traditionalist	14.4	65.7	16.9	3.0	0.0	100.0	97.0	74
Other	*	*	*	*	*	100.0	*	11
Ethnic group								
Ekoi	*	*	*	*	*	*	*	2
Fulani	5.3	91.5	8.0	2.3	0.0	100.0	97.7	630
Hausa	12.4	85.8	0.7	1.0	0.1	100.0	98.9	3,687
Ibibio	38.4	41.7	16.3	3.6	0.0	100.0	96.4	217
Igala	32.0	42.2	22.9	1.1	1.8	100.0	97.0	125
Igbo	45.1	21.1	30.7	2.4	0.7	100.0	96.9	1,764
ljaw/lzon	53.2	33.8	12.6	0.4	0.0	100.0	99.6	189
Kanuri/Beriberi	13.5	86.2	0.3	0.0	0.0	100.0	100.0	301
Tiv	21.8	57.9	13.3	7.0	0.0	100.0	93.0	258
Yoruba	34.9	46.0	10.2	7.0	2.0	100.0	91.0	1,892
Other	28.8	55.6	10.4	4.9	0.3	100.0	94.8	2,797
Total 15-49	25.9	60.3	9.9	3.3	0.5	100.0	96.2	11,868
50-59	12.5	75.5	8.0	3.7	0.3	100.0	96.0	1,443
Total 15-59	24.5	61.9	9.7	3.3	0.5	100.0	96.1	13,311

Note: Total includes 6 men with missing information on ethnic group. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

1 Includes all men who reported they are circumcised, regardless of provider

Table 13.8 Self-reported prevalence of sexually transmitted infections (STIs) and STI symptoms

Among women and men age 15-49 who ever had sexual intercourse, percentage reporting having an STI and/or symptoms of an STI in the past 12 months, according to background characteristics, Nigeria DHS 2018

	Pe	ercentage of w in the	omen who		ving	ı	Percentage of men who reported having in the past 12 months:				
Background characteristic	STI	Bad- smelling/ abnormal genital discharge	Genital sore or ulcer	STI/ genital discharge/ sore or ulcer	Number of women who ever had sexual inter- course	STI	Bad- smelling/ abnormal discharge from penis	Genital sore or ulcer	STI/ abnormal discharge from penis/ sore or ulcer	Number of men who ever had sexual inter- course	
							· · ·				
Age 15-24 15-19 20-24 25-29 30-39 40-49	7.9 6.0 8.9 8.5 8.0 6.5	12.4 11.0 13.1 12.8 10.7 8.0	7.1 6.0 7.7 6.6 5.9 5.1	15.7 13.8 16.6 16.1 14.0 11.2	8,853 2,989 5,864 7,046 11,560 7,629	3.3 1.6 3.8 5.1 4.5 4.2	3.5 1.4 4.3 4.6 4.2 4.4	3.2 3.1 3.3 3.5 2.5 3.0	6.5 4.1 7.3 8.7 7.6 8.0	927 237 690 1,256 3,476 2,738	
Marital status											
Never married Married or living together Divorced/separated/ widowed	9.9 7.4 8.0	14.4 10.7 9.4	8.5 5.9 5.4	17.9 13.9 12.8	3,821 29,087 2,180	5.3 4.1 6.3	4.8 4.1 6.4	2.8 2.9 4.0	8.5 7.5 11.7	1,483 6,783 131	
Circumcised											
Yes ¹ No	na na	na na	na na	na na	na na	4.4 4.6	4.0 11.7	2.8 6.7	7.3 20.7	8,080 294	
Residence Urban Rural	8.7 7.0	10.4 11.4	5.7 6.5	13.7 14.6	15,274 19,814	4.6 4.1	4.1 4.3	2.6 3.1	7.9 7.7	4,013 4,384	
Zone North Central North East North West South East South South South West	7.5 6.5 9.0 16.0 5.8 2.8	20.0 12.4 9.1 13.8 8.0 5.6	8.8 8.6 5.7 10.1 3.8 1.7	23.8 14.6 13.1 19.4 10.8 6.9	4,980 5,500 10,335 4,035 4,167 6,071	3.7 5.6 4.0 3.7 6.6 3.3	3.8 4.6 5.4 2.4 7.5 2.2	2.6 4.2 2.7 2.2 3.5 2.4	6.0 9.2 8.6 5.1 12.1 5.9	1,193 1,211 1,837 1,088 1,196 1,873	
State North Central FCT-Abuja Benue Kogi Kwara	6.7 4.3 3.4 4.1	13.2 10.4 13.5 5.6	7.6 5.1 0.8 4.0	16.5 13.8 14.7 6.7	256 1,164 563 563	0.0 0.4 2.2 8.4	0.0 2.1 2.6 5.1	0.0 0.4 1.5 4.3	0.0 2.1 4.1 12.6	65 258 130 155	
Nasarawa Niger Plateau	18.9 10.7 4.7	23.2 37.9 22.8	18.2 7.5 20.3	33.5 40.2 28.7	530 1,185 719	5.7 3.7 6.0	5.7 3.0 7.9	2.5 3.3 5.8	8.0 5.5 9.8	136 305 143	
North East Adamawa Bauchi Borno Gombe Taraba Yobe	4.9 4.6 5.8 5.0 11.0 8.1	6.7 11.6 7.5 16.2 19.8 15.4	6.5 6.3 7.0 14.9 11.4 9.1	7.3 14.7 9.0 19.1 23.6 16.9	794 1,184 1,107 598 757 1,059	1.7 3.0 12.4 7.3 4.9 2.8	2.1 1.5 10.6 5.1 4.6 2.4	1.9 1.5 9.0 4.9 5.0 2.4	2.8 5.0 20.8 10.4 9.8 4.1	184 265 277 121 139 225	
North West Jigawa	5.3	5.9	9.3	13.1	1,196	0.0	4.9	3.2	6.5	183	
Kaduna Kano Katsina Kebbi Sokoto Zamfara	15.8 12.9 1.0 12.6 2.2 7.6	14.3 9.7 3.6 15.2 6.9 6.4	5.9 5.9 3.0 10.8 3.4 2.4	18.8 15.5 5.4 18.6 9.9 8.1	2,150 2,197 1,856 978 809 1,149	8.5 5.5 0.0 1.8 6.1 2.2	6.3 9.7 0.8 2.8 5.4 6.5	2.6 5.1 0.0 1.0 1.1 5.0	13.6 13.5 0.8 3.8 7.6 9.4	449 336 338 180 125 227	
South East Abia Anambra Ebonyi Enugu Imo	3.0 8.3 14.3 49.6 9.0	4.7 8.0 11.2 39.4 9.4	1.8 4.3 7.7 36.6 4.2	5.4 11.4 18.5 52.3 13.6	519 1,241 811 684 781	1.5 1.3 1.5 5.1 8.9	0.0 2.1 0.0 2.7 5.6	0.6 0.3 1.6 7.6 2.9	2.1 2.3 2.3 10.4 9.7	150 347 183 146 262	

Continued...

Table 13.8—Continued										
	Pe	ercentage of w in the	omen who		ving		Percentage of in the	men who i past 12 m		ring
Background characteristic	STI	Bad- smelling/ abnormal genital discharge	Genital sore or ulcer	STI/ genital discharge/ sore or ulcer	Number of women who ever had sexual inter- course	STI	Bad- smelling/ abnormal discharge from penis	Genital sore or ulcer	STI/ abnormal discharge from penis/ sore or ulcer	Number of men who ever had sexual inter- course
South South										
Akwa Ibom	5.8	5.7	5.1	10.6	805	2.4	1.8	3.1	5.5	242
Bayelsa	4.5	2.7	1.3	5.5	258	9.5	6.8	4.4	10.9	93
Cross River	4.3	7.2	1.9	8.7	505	6.1	5.6	3.1	8.5	112
Delta	5.7	6.9	6.1	8.9	784	5.2	15.1	5.1	23.9	244
Edo	4.8	8.3	2.3	10.6	466	1.3	0.0	0.0	1.3	107
Rivers	6.9	11.3	3.5	13.9	1,350	11.0	9.0	3.7	13.0	397
South West										
Ekiti	3.0	7.4	2.4	9.4	407	2.4	6.8	0.5	7.2	118
Lagos	2.4	8.8	2.0	9.6	2,313	4.9	2.8	2.4	7.0	732
Ogun	2.8	2.7	2.3	4.2	810	3.0	1.2	8.7	11.7	253
Ondo	1.3	2.8	0.8	3.5	584	3.5	3.9	1.6	5.8	203
Osun	2.3	4.3	1.1	5.2	774	0.0	0.0	0.0	0.0	228
Oyo	4.4	3.1	1.3	5.6	1,183	2.4	0.4	0.4	2.8	339
Education										
No education	7.0	11.4	6.4	14.4	13,717	3.5	4.1	3.3	7.8	1,780
Primary	7.3	10.0	6.1	13.4	5,447	3.6	4.9	3.6	8.5	1,251
Secondary	8.7	11.3	6.2	14.8	11,964	5.2	4.3	2.7	8.1	3,708
More than secondary	7.9	9.8	5.4	12.9	3,960	3.9	3.8	2.2	6.5	1,658
Wealth quintile										
Lowest	5.8	10.6	6.6	13.3	6,466	3.2	3.9	2.5	6.6	1,225
Second	8.1	12.2	6.9	15.6	7,038	3.3	3.1	2.1	5.8	1,386
Middle	9.2	12.2	7.3	16.4	6,877	5.3	5.9	4.3	9.9	1,683
Fourth	8.0	10.5	5.6	13.7	7,317	5.4	5.0	2.9	9.4	1,894
Highest	7.5	9.5	4.7	12.3	7,390	4.1	3.2	2.5	6.6	2,209
Total 15-49	7.7	11.0	6.2	14.2	35,088	4.4	4.2	2.9	7.8	8,397
50-59	na	na	na	na	na	3.2	3.3	1.7	5.7	1,440
Total 15-59	na	na	na	na	na	4.2	4.1	2.7	7.5	9,837

Note: Total includes 24 men with missing information on circumcision status. na = Not applicable

1 Includes all men who reported they are circumcised, regardless of provider

Table 13.9 Women and men seeking treatment for STIs

Percentage of women and men age 15-49 reporting an STI or symptoms of an STI in the past 12 months who sought advice or treatment, Nigeria DHS 2018 $\,$

Source of advice or treatment	Women	Men
Clinic/hospital/private doctor/other health professional Advice or medicine from shop/pharmacy	33.1 12.9	30.8 14.8
Advice or treatment from any other source	10.9	5.2
No advice or treatment Number with STI or symptoms of STI	44.3 4.997	53.9 653

 $\underline{\textbf{Table 13.10 Comprehensive knowledge about HIV among young people}}$

Percentage of young women and young men age 15-24 with comprehensive knowledge about HIV, according to background characteristics, Nigeria DHS 2018

	Wom	en	Mei	Men			
Background characteristic	Percentage with comprehensive knowledge of HIV ¹	Number of respondents	Percentage with comprehensive knowledge of HIV ¹	Number of respondents			
Age							
15-19	38.1	8,448	28.7	2,415			
15-17	35.5	5,242	25.5	1,583			
18-19	42.4	3,206	34.9	832			
20-24	48.1	6,835	41.9	1,472			
20-22	47.6	4,625	39.7	1,038			
23-24	49.3	2,211	47.2	435			
Marital status							
Never married	43.0	8,763	33.7	3,642			
Ever had sex	49.3	2,334	51.1	681			
Never had sex	40.7	6,429	29.7	2,961			
Ever married	42.1	6,521	34.8	246			
Residence							
Urban	51.4	6,737	41.6	1,661			
Rural	35.7	8,546	27.9	2,227			
Education							
No education	31.0	4,383	16.2	803			
Primary	33.8	1,601	21.2	370			
Secondary	47.6	8,262	38.3	2,404			
More than secondary	65.5	1,037	58.6	311			
Total	42.6	15,284	33.7	3,888			

¹ Comprehensive knowledge means knowing that consistent use of condoms during sexual intercourse and having just one uninfected faithful partner can reduce the chance of getting HIV, knowing that a healthy-looking person can have HIV, and rejecting the two most common local misconceptions about HIV transmission or prevention. The components of comprehensive knowledge are presented in Tables 13.1 and 13.2.

Table 13.11 Age at first sexual intercourse among young people

Percentage of young women and young men age 15-24 who had sexual intercourse before age 15 and percentage of young women and young men age 18-24 who had sexual intercourse before age 18, according to background characteristics, Nigeria DHS 2018

		Wo	men			M	len	
Background characteristic	Percentage who had sexual intercourse before age 15	Number of respondents (15-24)	Percentage who had sexual intercourse before age 18	Number of respondents (18-24)	Percentage who had sexual intercourse before age 15	Number of respondents (15-24)	Percentage who had sexual intercourse before age 18	Number of respondents (18-24)
Age		, ,		, ,				
15-19	8.6	8,448	na	na	2.4	2,415	na	na
15-17	7.3	5,242	na	na	2.0	1,583	na	na
18-19	10.8	3,206	47.3	3,206	3.1	832	12.9	832
20-24	15.8	6,835	55.9	6,835	2.2	1,472	13.8	1,472
20-22	16.0	4,625	56.9	4,625	1.9	1,038	13.0	1,038
23-24	15.3	2,211	53.9	2,211	2.7	435	15.6	435
Residence								
Urban	5.8	6,737	35.7	4,375	2.0	1,661	14.4	1,000
Rural	16.6	8,546	66.7	5,666	2.5	2,227	12.8	1,304
Education								
No education	24.0	4,383	81.6	3,070	0.9	803	6.1	430
Primary	16.3	1,601	70.8	989	1.3	370	10.3	184
Secondary	5.7	8,262	39.5	4,978	3.0	2,404	16.9	1,385
More than secondary	2.1	1,037	16.6	1,005	1.9	311	10.2	305
Total	11.8	15,284	53.2	10,041	2.3	3,888	13.5	2,304

na = Not applicable

Table 13.12 Premarital sexual intercourse among young people

Among never-married women and men age 15-24, percentage who have never had sexual intercourse, according to background characteristics, Nigeria DHS 2018

	Women a	ige 15-24	Men age 15-24		
	Percentage who		Percentage who		
Background	have never had	Number of never-	have never had	Number of never-	
characteristic	sexual intercourse	married women	sexual intercourse	married men	
Age					
15-19	84.3	6,471	90.5	2,407	
15-17	91.4	4,433	94.4	1,582	
18-19	68.9	2,038	82.9	825	
20-24	42.4	2,292	63.4	1,235	
20-22	47.8	1,648	68.3	911	
23-24	28.6	644	49.7	324	
Residence					
Urban	73.6	4,970	77.3	1,608	
Rural	73.1	3,793	84.4	2,034	
Education					
No education	91.1	951	95.0	699	
Primary	78.4	731	89.6	333	
Secondary	72.6	6,215	78.6	2,310	
More than secondary	55.3	866	61.3	300	
Total	73.4	8,763	81.3	3,642	

Table 13.13.1 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months among young people: Women

Among all young women age 15-24, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them; among young women having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; and among young women who had sexual intercourse in the past 12 months with a person who neither was their husband nor lived with them, percentage who used a condom during last sexual intercourse with such a partner, according to background characteristics, Nigeria DHS 2018

_	,	Women age 15-24		Women age had 2+ partr past 12 r	ers in the	Women age 15-24 who had intercourse in the past 12 months with a person who neither was their husband nor lived with them	
	Percentage who had 2+ partners in the past 12 months	Percentage who had intercourse in the past 12 months with a person who neither was their husband nor lived with them	Number of women	Percentage who reported using a condom during last sexual intercourse	Number of women	Percentage who reported using a condom during last sexual intercourse with such a partner	Number of women
Age							
15-19	0.7	9.6	8,448	31.5	63	34.2	809
15-17	0.4	5.8	5,242	(21.6)	23	29.0	303
18-19	1.2	15.8	3,206	(37.3)	39	37.3	507
20-24	1.9	16.3	6,835	37.6	131	40.5	1,114
20-22	1.9	15.8	4,625	36.2	88	40.9	729
23-24	2.0	17.4	2,211	(40.4)	43	39.8	385
Marital status							
Never married	1.9	21.0	8,763	37.9	162	38.3	1,840
Ever married	0.5	1.3	6,521	(23.7)	31	28.2	83
Residence							
Urban	1.4	16.0	6,737	38.6	97	39.0	1,079
Rural	1.1	9.9	8,546	32.6	97	36.4	844
Education							
No education	0.4	1.6	4,383	*	17	28.7	72
Primary	0.6	8.0	1,601	*	10	31.0	128
Secondary	1.7	16.8	8,262	32.6	137	36.4	1,387
More than secondary	2.9	32.4	1,037	(58.7)	30	48.3	336
Total 15-24	1.3	12.6	15,284	35.6	194	37.9	1,923

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 13.13.2 Multiple sexual partners and higher-risk sexual intercourse in the past 12 months among young people: Men

Among all young men age 15-24, percentage who had sexual intercourse with more than one sexual partner in the past 12 months and percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them; among young men having more than one partner in the past 12 months, percentage reporting that a condom was used during last intercourse; and among young men who had sexual intercourse in the past 12 months with a person who neither was their wife nor lived with them, percentage who used a condom during last sexual intercourse with such a partner, according to background characteristics, Nigeria DHS 2018

		Men age 15-24		had 2+ partn	Men age 15-24 who had 2+ partners in the past 12 months		Men age 15-24 who had intercourse in the past 12 months with a person who neither was their wife nor lived with them	
Background characteristic	Percentage who had 2+ partners in the past 12 months	Percentage who had intercourse in the past 12 months with a person who neither was their wife nor lived with them	Number of men	Percentage who reported using a condom during last sexual intercourse	Number of men	Percentage who reported using a condom during last sexual intercourse with such a partner	Number of men	
Age								
15-19	1.3	7.9	2,415	(59.7)	31	56.6	191	
15-17	0.6	4.4	1,583	*	10	45.2	70	
18-19	2.5	14.5	832	(63.9)	20	63.3	120	
20-24	8.0	27.5	1,472	55.1	118	64.7	405	
20-22	7.2	25.0	1,038	51.1	74	58.8	259	
23-24	10.1	33.4	435	61.7	44	75.1	145	
Marital status								
Never married	3.5	15.6	3,642	60.4	126	62.8	568	
Ever married	9.3	10.9	246	(32.1)	23	(47.2)	27	
Residence								
Urban	4.8	19.5	1,661	57.7	80	67.3	324	
Rural	3.1	12.2	2,227	54.0	69	55.9	271	
Education								
No education	0.7	3.7	803	*	6	(23.2)	30	
Primary	3.3	9.5	370	*	12	(50.2)	35	
Secondary	4.4	18.1	2,404	57.1	106	63.3	435	
More than secondary	7.9	30.5	311	(61.2)	25	73.0	95	
Total 15-24	3.8	15.3	3,888	56.0	149	62.1	595	

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Key Findings

- Adult mortality: The adult mortality rate is 3.18 deaths per 1,000 population among women and 3.25 deaths per 1,000 population among men.
- Lifetime risk of maternal death: The lifetime risk of maternal death indicates that one in 34 women in Nigeria will have a death related to maternal causes.
- Maternal mortality ratio: The maternal mortality ratio for the 7-year period before the 2018 NDHS is estimated at 512 maternal deaths per 100,000 live births.
- Pregnancy-related mortality ratio: The pregnancy-related mortality ratio (including deaths from accidents or violence, comparable with previous NDHS surveys) for the 7-year period before the 2018 NDHS is estimated at 556 pregnancy-related deaths per 100,000 live births.

dult and maternal mortality indicators can be used to assess the health status of a population. In most developing countries, reproductive health is a major concern, and there is a need for reliable data on maternal deaths. Maternal mortality continues to be a serious problem in Nigeria.

WHO explains this problem using a delay model that includes delays in seeking health care, delays in reaching health facilities, and poor health services in facilities. This model has been associated with human, health system, and socioeconomic factors such as poverty, poor emergency obstetric services, and fatalistic beliefs. These problems have contributed to a high incidence of infectious diseases, postpartum haemorrhage, hypertensive disorders, unsafe abortions, and prolonged labour, which have led to high adult and maternal mortality in Nigeria. The target of SDG 3.1 is to reduce the global maternal mortality ratio to less than 70 per 100,000 live births by 2030.

Estimation of mortality rates requires complete and accurate data on adult and maternal deaths. In the 2018 NDHS, data were collected from all female respondents on the survival of their sisters and brothers to obtain an estimate of adult mortality. Questions were included to determine if any of the sisters' deaths were maternity-related, which permits an estimation of maternal mortality—a key indicator of maternal health and well-being.

This chapter presents information on the levels of and trends in adult mortality and maternal mortality in Nigeria. The chapter includes a summary measure (35q15) that represents the probability of dying between exact ages 15 and 50—that is, between the 15th and 50th birthdays.

14.1 DATA

To obtain a sibling history, each respondent was first asked to provide the total number of her mother's live births. The respondent was then asked to provide a list of all children born to her mother, starting with the first born, and the survival status of each sibling. Information on current age was collected for each surviving sibling. Age at death and number of years since death were recorded for each deceased sibling. When a respondent could not provide precise information on age at death or years since death, the

interviewers were instructed to accept an approximate but quantitative answer. For sisters who died at age 12 or above, three questions were used to determine whether the death was maternity-related: "Was [NAME OF SISTER] pregnant when she died?" and, if not, "Did she die during childbirth?" and, if not, "Did she die within 2 months after the end of a pregnancy or childbirth?" Estimation of adult and pregnancy-related mortality by either direct or indirect means requires reasonably accurate reporting of the respondent's number of sisters and brothers, the number who have died, and (for pregnancy-related mortality) the number of sisters who died of pregnancy-related causes. **Table 14.1** shows the number of siblings reported by respondents and the completeness of data on current age, age at death, and years since death.

A total of 219,561 siblings were recorded in the adult mortality section of the 2018 NDHS. There were only 20 siblings (0.01%) for whom survival status was not reported. Current age (used to estimate exposure to death) was reported for all surviving siblings. Also, data on age at death and years since death were obtained for all dead siblings. It is interesting to note that there were no reports of missing dates in the adult mortality section. The sex ratio for enumerated siblings (the ratio of brothers to sisters multiplied by 100) is 106, the same figure as in the 2013 NDHS (**Appendix Table C.10**).

14.2 DIRECT ESTIMATES OF ADULT MORTALITY

Adult mortality rate

The number of adult deaths per 1,000 population age 15-49. Adult mortality rates by 5-year age groups are calculated as follows: the number of deaths to a respondent's siblings in each age group is divided by the number of person-years of exposure to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of siblings (brothers or sisters) reported as having died within the 7 years preceding the survey. The person-years of exposure in each age group are calculated for both surviving and dead siblings based on their current age (living siblings) or age at death and years since death (dead siblings).

Sample: Siblings (both living and dead) who were age 15-49 in the 7 years preceding the survey, by sex and 5-year age groups.

One way to assess the quality of the data used to estimate pregnancy-related mortality is to evaluate the plausibility and stability of overall adult mortality. If estimated rates of overall adult mortality are implausible, rates based on a subset of deaths (pregnancy-related deaths in particular) may have questionable plausibility.

The reported ages at death and years since death of the respondents' brothers and sisters are used to make direct estimates of adult mortality. Age- and sex-specific death rates are presented in this report because of the differentials in exposure to the risk of dying. To ensure a sufficiently large number of adult deaths to generate a robust estimate, the rates are calculated for the 7-year period before the survey (approximately mid-2011 to mid-2018).

Nevertheless, age-specific mortality rates obtained in this manner are subject to considerable sampling variation. Use of this 7-year period was a compromise between the desire for the most recent data and the need to minimise sampling error.

Figure 14.1 Adult mortality rates by age

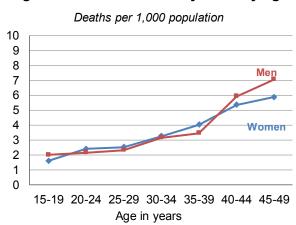


Table 14.2 and **Figure 14.1** show direct estimates of age-specific mortality rates among women and men age 15-49 for the 7-year period before the survey. Overall, the level of adult mortality is slightly higher among men (3.25 deaths per 1,000 population) than among women (3.18 deaths per 1,000 population). Mortality rates rise rapidly with age among women, from 1.59 per 1,000 population in the 15-19 age group to 5.86 per 1,000 population in the 45-49 age group. Similarly, mortality rates among men increase steadily from 1.99 per 1,000 population in the 15-19 age group to 7.04 per 1,000 in the 45-49 age group. Mortality rates are higher among women than men in the 20-39 age groups. However, rates are higher among men in the youngest age group (15-19) and the older age groups (40 years and above). The trends in **Table 14.2** show that there has been an improvement in adult mortality since the 2008 NDHS, from 4.7 to 3.18 deaths per 1,000 population among women and from 4.6 to 3.25 deaths per 1,000 population among men.

14.3 TRENDS IN ADULT MORTALITY

Table 14.3 shows the probability of dying between exact ages 15 and 50 ($_{35}q_{15}$) in the 7 years preceding the last three NDHS surveys; $_{35}q_{15}$ is the probability of a woman or man who has just reached age 15 dying before age 50 if age-specific death rates in the 7 years before the survey are constant. The 2018 NDHS data show that women have a lower probability of dying than men: 117 of 1,000 women age 15 and 122 of 1,000 men age 15 would be expected to die before age 50.

Since 2008, the probability of dying between exact ages 15 and 50 has improved among women, declining from 161 per 1,000 women in the 7 years before the 2008 NDHS to 117 per 1,000 women in the 7 years before 2018. Similarly, the probability among men decreased from 168 per 1,000 men in the 7 years before 2008 to 122 per 1,000 men in the 7 years before 2018.

14.4 DIRECT ESTIMATES OF MATERNAL MORTALITY

Maternal mortality rate

The number of maternal deaths per 1,000 women age 15-49. Maternal mortality rates by 5-year age groups are calculated by dividing the number of maternal deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of sisters reported as having died in the 7 years preceding the survey either during pregnancy or delivery, or in the 42 days following the delivery or termination of a pregnancy, by their age group at the time of death; deaths due to accidents or violence are excluded. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters).

Sample: Sisters (both living and dead) age 15-49 in the 7 years preceding the survey, by 5-year age groups

Maternal mortality ratio

The number of maternal deaths per 100,000 live births. The maternal mortality ratio is calculated by dividing the age-standardised maternal mortality rate for women age 15-49 in the 7 years preceding the survey by the general fertility rate (GFR) for the same time period.

Maternal deaths are a subset of all female deaths; they are defined as any deaths that occur during pregnancy or childbirth or within 42 days after the birth or termination of a pregnancy. Maternal deaths do not include deaths due to accidents or violence. Two methods are generally used to estimate maternal mortality in low- and middle-income countries: the indirect sisterhood method (Graham et al. 1989) and a direct variant of the sisterhood method (Rutenberg and Sullivan 1991; Stanton et al. 1997). **Table 14.4** presents age-specific direct estimates of maternal mortality from the reported survivorship of sisters for the

7-year period prior to the 2018 NDHS. These rates were calculated by dividing the number of maternal deaths by woman-years of exposure. To remove the effect of truncation bias (the lower boundary for eligibility among women interviewed in the survey is 15 years, and the upper boundary is 49 years), the overall rate for women age 15-49 was standardised by the age distribution of survey respondents.

Table 14.4 shows that the maternal mortality rate among women age 15-49 is 0.92 deaths per 1,000 woman-years of exposure. By 5-year age groups, the maternal mortality rate is highest among women age 35-39 (1.30) and lowest among those age 15-19 (0.63). The overall percentage of female deaths due to maternal causes is 31%. The percentage of female deaths that are maternal deaths generally decreases with age, from 40%-41% in the 15-19 and 20-24 age groups to 12% in the 45-49 age group.

The estimated maternal mortality ratio is 512 deaths per 100,000 live births during the 7-year period before the survey (with a 95% confidence interval of 447 to 578). Thus, for every 1,000 live births in Nigeria during the 7 years before the 2018 NDHS, approximately five women died during pregnancy, during childbirth, or within 2 months after childbirth. The lifetime risk of maternal death (0.029) indicates that of 1,000 women of exact age 15, about 29 (one in 34 women) would die before age 50 during pregnancy, during childbirth, or within 2 months of childbirth.

14.5 TRENDS IN PREGNANCY-RELATED MORTALITY

Pregnancy-related mortality rate

The number of pregnancy-related deaths per 1,000 women age 15-49. Pregnancy-related mortality rates by 5-year age groups are calculated by dividing the number of pregnancy-related deaths to female siblings of respondents in each age group by the total person-years of exposure of the sisters to the risk of dying in that age group during the 7 years preceding the survey. The number of deaths is the number of sisters reported as having died in the 7 years preceding the survey during pregnancy or delivery, or in the 2 months following the delivery or termination of a pregnancy, by their age group at the time of death. The person-years of exposure in each age group are calculated for both surviving and dead sisters based on their reported current age (living sisters) or age at death and years since death (dead sisters).

Sample: Sisters (both living and dead) age 15-49 in the 7 years preceding the survey, by 5-year age groups

Pregnancy-related mortality ratio

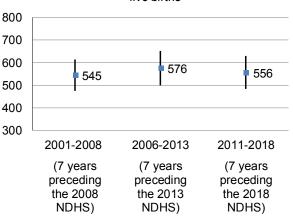
The number of pregnancy-related deaths per 100,000 live births. The pregnancy-related mortality ratio is calculated by dividing the age-standardised pregnancy-related mortality rate for women age 15-49 in the 7 years preceding the survey by the general fertility rate (GFR) for the same time period.

To allow comparisons with estimates from previous NDHS surveys, the 2018 NDHS defines a pregnancy-related death as the death of a woman during pregnancy or childbirth or within 2 months of delivery or termination of a pregnancy, irrespective of the cause of death. Estimates of pregnancy-related mortality are therefore based solely on the timing of the death in relationship to the pregnancy. Note that this definition varies from the WHO definition of a pregnancy-related death, which limits the window to 42 days. What the 2018 NDHS defines as a pregnancy-related death had been labelled a maternal death in prior NDHS surveys.

Figure 14.2 presents estimates of the pregnancyrelated mortality ratio (PRMR) with confidence intervals for the 2018 NDHS and previous NDHS surveys. The pregnancy-related maternal mortality ratio for the 2018 NDHS is 556 (CI: 484-629) deaths per 100,000 live births. The point estimates from NDHS surveys show a fluctuation in the PRMR in Nigeria since 2008. The figure shows a decline in pregnancy-related mortality from 576 deaths per 100,000 live births in the 7 years before the 2013 NDHS to 556 deaths per 100,000 live births in the 7 years before the 2018 NDHS. However, the confidence intervals for the PRMR estimates from 2013 and 2018 overlap, and thus the difference between the 2013 and 2018 estimates of the PRMR is not statistically significant.

Figure 14.2 Trends in the pregnancyrelated mortality ratio (PRMR) with confidence intervals

Pregnancy-related deaths per 100,000 live births



LIST OF TABLES

For more information on adult and maternal mortality, see the following tables:

- Table 14.1 Completeness of information on siblings
- Table 14.2 Adult mortality rates
- Table 14.3 Adult mortality probabilities
- Table 14.4 Maternal mortality
- Table C.11 Pregnancy-related mortality trends (see Appendix C)

Table 14.1 Completeness of information on siblings

Completeness of data on survival status of sisters and brothers reported by interviewed women, age of living siblings, and age at death (AD) and years since death (YSD) of dead siblings (unweighted), Nigeria DHS 2018

	Sisters		Brothers		All siblings	
	Number	Percent	Number	Percent	Number	Percent
All siblings	106,590	100.0	112,971	100.0	219,561	100.0
Living	94,068	88.3	99,247	87.9	193,315	88.0
Dead	12,514	11.7	13,712	12.1	26,226	11.9
Survival status unknown	8	0.0	12	0.0	20	0.0
Living siblings	94,068	100.0	99,247	100.0	193,315	100.0
Age reported	94,068	100.0	99,247	100.0	193,315	100.0
Dead siblings	12,514	100.0	13,712	100.0	26,226	100.0
AD and YSD reported	12,514	100.0	13,712	100.0	26,226	100.0

Table 14.2 Adult mortality rates

Direct estimates of female and male mortality rates for the 7 years preceding the survey, according to 5-year age groups, Nigeria DHS 2018 $\,$

		2018 NDHS		2013 NDHS	2008 NDHS
Age	Deaths	Exposure years	Mortality rate ¹	Mortality rate	Mortality rate ¹
		FEMALI	E		
15-19 20-24 25-29 30-34 35-39 40-44 45-49	142 234 236 261 244 199 127	89,203 97,777 93,464 80,364 60,748 37,201 21,625	1.59 2.39 2.52 3.25 4.01 5.35 5.86	2.3 2.8 3.6 3.6 4.4 4.8 5.1	3.3 3.4 4.3 6.2 5.2 6.3 6.3
Total 15-49	1,442	480,382	3.18ª	3.5ª	4.7ª
		MALE			
15-19 20-24 25-29 30-34 35-39 40-44 45-49	184 222 224 266 228 251 166	92,441 103,300 97,194 84,669 66,201 42,406 23,629	1.99 2.15 2.31 3.14 3.44 5.91 7.04	1.7 2.6 2.7 3.2 4.4 5.2 6.5	2.8 2.9 3.6 5.0 5.4 8.7 8.2
Total 15-49	1,542	509,841	3.25 ^a	3.3ª	4.6ª

¹ Expressed per 1,000 population

Table 14.3 Adult mortality probabilities

The probability of dying between ages 15 and 50 for women and men during the 7 years preceding the survey, Nigeria DHS 2008, 2013, and 2018 $\,$

Survey	Female	Male 35 9 15 ¹
Survey	35415	35415
2018 NDHS	117	122
	(CI: 109-126)	(CI: 113-122)
2013 NDHS	` 124	123
	(CI: 114-134)	(CI: 113-134)
2008 NDHS	` 161 ´	` 168 ´
	(CI: 149-172)	(CI: 156-180)

^a Age-adjusted rate

CI: Confidence interval ¹ The probability of dying between exact ages 15 and 50, expressed per 1,000 persons age 15

Table 14.4 Maternal mortality

Direct estimates of maternal mortality rates for the 7 years preceding the survey, by 5-year age groups, and the general fertility rate, maternal mortality ratio, and lifetime risk of maternal death for the 7 years preceding the survey, Nigeria DHS 2018

Age	Percentage of female deaths that are maternal	Maternal deaths ¹	Exposure years	Maternal mortality rate ²
15-19	39.7	56	89,203	0.63
20-24	41.0	96	97,777	0.98
25-29	37.5	88	93,464	0.95
30-34	33.8	88	80,364	1.10
35-39	32.3	79	60,748	1.30
40-44	14.1	28	37,201	0.76
45-49	11.8	15	21,625	0.69
Total 15-49	31.3	451	480,382	0.92 ^a
General fertility rate (GFR) ³ Maternal mortality ratio (MMR) ⁴ Lifetime risk of maternal death ⁵	0.179 ^a 512 0.029	(CI: 4-	47-578)	

CI: Confidence interval

A maternal death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy,

¹ A maternal death is defined as the death of a woman while pregnant or within 42 days of termination of pregnancy, from any cause except accidents or violence.

² Expressed per 1,000 woman-years of exposure

³ Age-adjusted rate, expressed per 1,000 women age 15-49

⁴ Expressed per 100,000 live births; calculated as the age-adjusted maternal mortality rate times 100 divided by the age-adjusted general fertility rate

⁵ Calculated as 1-(1-MMR)^{TFR}, where TFR represents the total fertility rate for the 7 years preceding the survey

^a Age-adjusted rate

Key Findings

- Employment and earnings: 74% of currently married women age 15-49 were employed in the 12 months before the survey, as compared with 99% of currently married men. Fifteen percent of employed women and 8% of employed men do not receive payment for their work.
- Women's control over their cash earnings: 72% of currently married women with cash earnings report that they themselves make decisions about how their earnings are used, a slight increase from the percentage in 2013 (70%).
- Participation in decision making: 34% of currently married women participate in three specified household decisions (regarding their own health care, household purchases, and visits to their family or relatives), while 37% are not involved in any of these decisions.
- Attitudes toward wife beating: 28% of women and 21% of men agree that a husband is justified in beating his wife under one or more specified circumstances.
 Agreement with wife beating has declined substantially over time.
- Ownership and use of bank accounts and mobile phones: 22% of women have a bank account that they use, and 55% own a mobile phone. Among women with a mobile phone, 28% use their phone for financial transactions.
- Reproductive health: Contraceptive use and antenatal care, delivery assistance, postnatal care, and child survival indicators are all positively associated with women's empowerment.

he Nigerian government is strongly committed to promoting gender equality and women's empowerment, and, as a signatory to the Convention on the Elimination of All Forms of Discrimination against Women (CEDAW), the government has adopted a number of institutional and policy measures that support these goals. Examples include the 1999 Nigerian Constitution; the National Gender Policy 2007; the National Gender Policy Strategic Framework (Implementation Plan) 2008-2013; the 2nd National Action Plan on Implementation of UN Security Council Resolution (UNSCR) 1325 and Related Resolutions on Women, Peace and Security (2017); and the Violence Against Persons (Prohibition) Act 2015. The government has also shown an increasing commitment to supporting social and economic empowerment of women and fostering gender equality through constant review of policies, reassessment of priorities, commitment of adequate financial resources, and effective implementation of programs such as the Federal Republic of Nigeria Economic Recovery and Growth Plan (ERGP) (2017-2020) (Ministry of Budget and National Planning 2017).

This chapter explores women's empowerment in terms of their employment and control over earnings, asset ownership, gender-related attitudes, and household decision making. In order to examine gender differentials, where possible, indicators for women are compared with those for men. In addition, women's responses to specific questions on their participation in household decision making and attitudes towards wife beating are used to examine how selected demographic and health indicators vary by women's empowerment.

15.1 MARRIED WOMEN'S AND MEN'S EMPLOYMENT

Employment

Respondents are considered to be employed if they have done any work other than their housework in the 12 months before the survey.

Sample: Currently married women and men age 15-49

Earning cash for employment

Respondents are asked if they are paid for their labour in cash or in-kind. Only those who receive payment in cash only or in cash and in-kind are considered to earn cash for their employment.

Sample: Currently married women and men age 15-49 employed in the 12 months before the survey

Seventy-four percent of currently married women age 15-49 were employed in the 12 months before the survey, as compared with 99% of currently married men (**Table 15.1**). Among those employed, women are less likely than men to be paid in cash only (73% versus 80%). Fifteen percent of women and 8% of men do not receive any payment for their work.

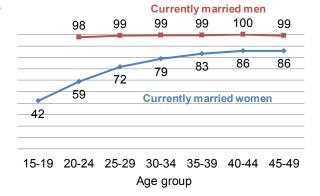
Trends: The percentage of currently married women employed in the 12 months before the survey has increased slightly over time, from 71% in both 2008 and 2013 to 74% in 2018. After increasing from 81% in 2008 to 93% in 2013, the percentage of employed married women who receive cash earnings (including cash and in-kind) declined to 85% in 2018. The percentage of employed married women not paid for their work declined from 17% to 6% between 2008 and 2013 before rising to 15% in 2018.

Patterns by background characteristics

- Among married women, the percentage currently employed increases with age, from 42% in the 15-19 age group to 86% in the 40-49 age group. In contrast, currently married men's employment does not vary by age (Figure 15.1).
- The percentage of employed married women who are not paid for their work is highest in the 15-19 age group and lowest in the 30-34 age group (19% and 12%, respectively).

Figure 15.1 Employment by age

Percentage of currently married women and men who were employed at any time in the 12 months before the survey



15.2 CONTROL OVER WOMEN'S EARNINGS

Control over one's own cash earnings

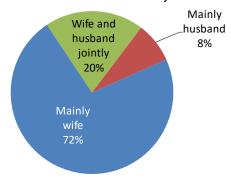
Respondents are considered to have control over their own earnings if they participate in decisions alone or jointly with their spouse about how their own earnings will be used.

Sample: Currently married women and men age 15-49 who received cash earnings for employment during the 12 months before the survey

In addition to having access to income, women need to have control over their earnings to be empowered. Currently married women age 15-49 who were paid in cash for employment in the 12 months before the survey were asked who makes decisions about the use of their earnings. **Table 15.2.1** shows that among women earning cash, 72% report that they themselves mainly decide how their cash earnings are used and 20% report that they make such decisions jointly with their husbands. Only 8% say that these decisions are made primarily by their husbands (**Figure 15.2**). The majority of women earn less than their husbands (84%); only 5% earn more than their husbands.

Figure 15.2 Control over women's earnings

Percent distribution of currently married women with cash earnings in the 12 months before the survey



Trends: The proportion of currently married women who decide mainly on their own how their earnings will be used has increased slowly over time, from 66% in 2008 and 70% in 2013 to 72% in 2018. The proportion who decide jointly with their husband has remained relatively constant from 2008 to 2018 (19%-20%).

Patterns by background characteristics

- By zone, the proportion of women who decide on their own how their earnings are used is highest in the North West and lowest in the South East (88% versus 40%).
- The percentage of married women who make decisions alone about how their cash earnings will be used declines with increasing education, from 83% among those with no education to 62% among those with more than a secondary education. By contrast, the percentage who say they make these decisions jointly with their husband increases sharply from 7% among women with no education to 31% among women with more than a secondary education.
- As in the case of education, the percentage of women who make decisions alone about their own earnings declines with increasing wealth, whereas the percentage who make these decisions jointly with their husband increases sharply.

15.3 CONTROL OVER MEN'S EARNINGS

Currently married men who receive cash earnings were asked who makes decisions about the utilisation of their earnings. The majority of currently married men age 15-49 earning cash report that they themselves decide how their cash earnings are used (64%); 22% say that such decisions are made jointly with their wives, and 14% say the decisions are made primarily by their wives (**Table 15.2.2**). By contrast, when women were asked about decisions regarding their husband's earnings, 73% said that their husband makes these decisions alone and 21% said that the decisions are made jointly; only 6% of women said that they primarily make these decisions.

The percentage of men who report joint control over their own cash earnings increases with increasing education and wealth, while the percentage who report making decisions about their earnings by themselves declines sharply with both increasing education and increasing wealth.

15.4 Women's Control over Their Own Earnings and over Those of Their Husbands

Women's participation in decisions regarding the use of their own and their husband's earnings varies by the amount of their earnings relative to the amount of their husband's earnings. Women who earn about the same as their husband are more likely to decide jointly about the use of their own earnings (48%) and those of their husband (53%) than women who earn more or less than their husband and less likely to decide mainly alone about the use of their own earnings (47%) and their husband's earnings (4%) (**Table 15.3**).

Women who are not employed (88%) and women who earn less than their husband (73%) were most likely to report that their husband primarily decides on his own about the use of his earnings. Women who earn about the same as their husband were least likely to report that their husband alone makes such decisions (43%).

15.5 WOMEN'S AND MEN'S OWNERSHIP OF ASSETS

Ownership of a house or land

Respondents who own a house or land, whether alone or jointly with someone else.

Sample: Women and men age 15-49

In Nigeria, men are more than three times as likely to own a house or land as women (**Table 15.4.1** and **Table 15.4.2**). Thirty-seven percent of men own a house and 38% own land alone or jointly with someone, as compared with only 11% and 12% of women, respectively (**Figure 15.3**).

Trends: The percentage of women who own a house alone or jointly with someone else declined from 18% in 2013 to 11% in 2018, and the percentage who own land alone or jointly declined from 15% to 12%. House ownership also declined among men, from 40% to 37%. However, over the same period, land ownership among men increased from 34% to 38%.

Figure 15.3 Ownership of assets Percentage of women and men age 15-49 by ownership of specific items ■ Women ■ Men 81 55 38 39 37 22 12 Own land Own house Use bank Own mobile (alone or (alone or account phone

jointly)

Patterns by background characteristics

• Ownership of property increases with age among both women and men. For example, 27% of women and 60% of men age 45-49 own a house, as compared with 3% of women and 9% of men age 15-19 (**Table 15.4.1** and **Table 15.4.2**).

jointly)

By zone, house ownership among women is highest in the South East (27%) and lowest in the North West (4%). The proportion of women who own land is highest in the South East (31%) and lowest in the South West (5%).

15.6 Possession of Title or Deed for a House or Land

A title or deed that includes the owner's name is important in establishing legal rights to property. The 2018 NDHS sought information from currently married women and men who said that they own a house or land about whether or not they possess a title or deed for their property and whether or not their name appears on the title or deed. Seventy-one percent of women and 78% of men age 15-49 who own a house do not have a title or deed for their house (**Tables 15.5.1** and **15.5.2**). Similarly, most women and men who say that they own land do not have a title deed for their land (73% and 79%, respectively) (**Tables 15.6.1** and **15.6.2**). However, it is notable that among women and men who do have a title or deed to the house or land they own, the majority say that their name is on the title or deed.

15.7 OWNERSHIP AND USE OF BANK ACCOUNTS AND MOBILE PHONES

Ownership of a bank account and a mobile phone are reflections of autonomy, social functioning, and financial independence. Women and men interviewed in the 2018 NDHS were asked if they had an account in a bank or other financial institution that they themselves used and if they owned a mobile phone. Those who owned a mobile phone were asked if they used the phone for financial transactions.

Wide disparities are observed between women and men with respect to ownership and use of bank accounts and ownership of mobile phones. Twenty-two percent of women and 39% of men have an account in a bank or other financial institution that they use, while 55% of women and 81% of men say that they own a mobile phone. Among those with a mobile phone, 28% of women and 35% of men use their phone for financial transactions (**Tables 15.7.1** and **15.7.2**).

Patterns by background characteristics

- Among women, ownership of a mobile phone is highest in the South West (82%) and lowest in the North West (35%). The proportion of men who own a mobile phone is highest in the South West (91%) and lowest in the North East (70%).
- The percentages of women and men who have a bank account and a mobile phone increase with increasing education and wealth. For example, ownership and use of a bank account increases from 2% among women with no education to 87% among women with more than a secondary education. Similarly, the proportion of women who own a mobile phone increases from 26% among those with no education to 98% among those with more than a secondary education (**Table 15.7.1** and **Table 15.7.2**).
- Although women and men in the highest wealth quintile are much more likely to own a mobile phone than women and men in other wealth quintiles and gender differences are very large, it is notable that, even in the lowest wealth quintile, 18% of women and 57% of men own a mobile phone.

15.8 Women's Participation in Decision Making

Participation in major household decisions

Women are considered to participate in household decisions if they make decisions alone or jointly with their husband in all three of the following areas: (1) their own health care, (2) major household purchases, and (3) visits to their family or relatives.

Sample: Currently married women age 15-49

Participation in household decision making is an essential aspect of women's empowerment and reflects women's level of agency within their own household and environment. In the 2018 NDHS, currently married women were asked about their participation in decisions about their own health care, major household purchases, and visits to their family or relatives. The majority of currently married women say

that decisions about their own health care and about major household purchases are made mainly by their husband (56% and 59%, respectively). Thirty-three percent of women say that decisions about their own health care are made jointly with their husband, while only 11% say that they themselves mainly make decisions about their own health care. Similarly, 34% of women say that decisions about major household purchases are made jointly with their husband and only 6% say that they mainly make these decisions. By contrast, a higher proportion of women say that decisions about visits to their family or relatives are made jointly with their husband (45%) as opposed to mainly by their husband (40%). Only 15% of women say that they mainly make decisions about visits to family or relatives (**Table 15.8**).

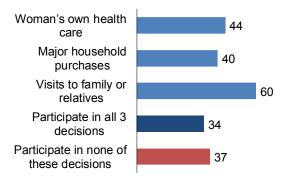
In contrast to women, the majority of currently married men say that they are the main decision maker about their own health care (57%). Regarding decisions about major household purchases, about half (52%) of currently married men say that they mainly make these decisions and 19% say that their wife is the main decision maker. Notably, men are much more likely than women to say that women are the main decision makers regarding decisions about major household purchases.

Overall, 44% of currently married women participate alone or jointly with their husband in decisions regarding their health care, 40% participate in decisions about major household purchases, 60% participate in decisions about visits to their family and relatives, and 34% participate in all decisions. Notably, 37% of currently married women say that they are not involved in any of the three specified household decisions (**Table 15.9.1** and **Figure 15.4**).

Trends: Currently married women's participation in all three decisions has increased only slightly since 2013, from 31% to 34%; however, the percentage of women who do not participate in any of the three decisions has fallen from 48% to 37%.

Figure 15.4 Women's participation in decision making

Percentage of currently married women age 15-49 participating in specific decisions



Patterns by background characteristics

- Participation in all three decisions increases with age, from 13% among women age 15-19 to 43% among women age 45-49.
- Employed women, whether they earn cash or not, are more likely to participate in all three decisions (42% and 35%, respectively) than women who are not employed (11%).
- Urban women (47%) are twice as likely to participate in all three decisions as rural women (24%).
- Women's participation in decision making increases with increasing education and wealth. Fourteen percent of women with no education participate in all three decisions, as compared with 59% of women with more than a secondary education. Similarly, 13% of women in the lowest wealth quintile participate in all three decisions, compared with 58% of women in the highest quintile.

15.9 ATTITUDES TOWARD WIFE BEATING

Attitudes toward wife beating

Respondents are asked if they agree that a husband is justified in hitting or beating his wife under each of the following five circumstances: she burns the food, she argues with him, she goes out without telling him, she neglects the children, and she refuses to have sex with him. If respondents answer "yes" in at least one circumstance, they are considered to have attitudes justifying wife beating.

Sample: Women and men age 15-49

Attitudes that accept and normalise violence by a husband against his wife undermine gender equality and women's empowerment. To gain insight into the extent to which spousal violence is accepted, the 2018 NDHS collected information on women's and men's attitudes toward wife beating in five separate circumstances. Overall, 28% of Nigerian women believe that a husband is justified in beating his wife in at least one of the five specified circumstances, as compared with 21% of men (**Table 15.10.1** and **Table 15.10.2**). About one in five women agree that wife beating is justified if a wife argues with her husband, goes out without telling him, neglects the children, and refuses to have sexual intercourse, while 15% agree that wife beating is justified if she burns the food (**Figure 15.5**). Overall, men are less likely to justify wife beating in each of the five different circumstances than women.

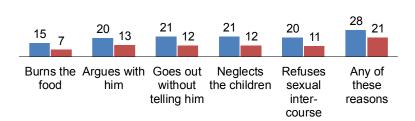
Trends: The percentage of women who agree that wife beating is justified in at least one of the five specified circumstances has declined substantially over time, from 43% in 2008 and 35% in 2013 to 28% in 2018. The percentage of men justifying wife beating in at least one of the specified circumstances has also decreased, from 30% in 2008 to 21% in 2018.

Figure 15.5 Attitudes towards wife beating

Men

Percentage of women and men age 15-49 who agree that a husband is justified in beating his wife for specific reasons

Women



Patterns by background characteristics

- Women who are employed for cash are less likely to agree that wife beating is justified in at least one of the five specified circumstances (24%) than women who are not employed (32%) and women who are employed but not earning cash (37%).
- Almost one in three currently married women (31%) agree that wife beating is justified in at least one
 of the five specified circumstances, as compared with about one in five formerly married and nevermarried women (22% each).
- Rural women are more than twice as likely as urban women to have attitudes that justify wife beating (38% versus 16%).
- By zone, the percentage of women who agree that wife beating is justified in at least one of the five circumstances ranges from a high of 45% in the North East to 7% in the South West.

• Acceptance of wife beating decreases with increasing education and wealth. Forty-three percent of women with no education agree that wife beating is justified in at least one of the five specified circumstances, as compared with 9% of women with more than a secondary education. Similarly, 46% of women in the lowest wealth quintile agree that wife beating is justified in at least one of the specified circumstances, compared with 10% of women in the highest quintile.

15.10 NEGOTIATING SEXUAL RELATIONS

To assess attitudes toward a wife's right to negotiate safer sexual relations with her husband, women and men were asked whether they thought that a wife is justified in refusing to have sexual intercourse with her husband if she knows he has sex with other women and asking him to use a condom if she knows he has a sexually transmitted infection (STI).

The majority of Nigerian women and men agree that a wife is justified in negotiating sexual relations with her husband. Approximately two-thirds of women (69%) and men (65%) agree that a wife is justified in refusing sex if her husband has other partners; 77% of women and 74% of men agree that she is justified in asking her husband to use a condom if he has an STI (**Table 15.11**).

To assess the ability of women to actually negotiate safer sexual relations with their husband, currently married women were asked whether they could say no to their husband if they do not want to have sexual intercourse and whether they could ask their husband to use a condom. Fifty-six percent of women said that they can say no to their husband if they do not want to have sexual intercourse, and 41% said that they can ask their husband to use a condom (**Table 15.12**).

Patterns by background characteristics

- Currently married women age 15-19 are much less likely than older women to be able to negotiate sexual relations with their husband. For example, only 28% of women age 15-19 can ask their husband to use a condom, as compared with 37% to 45% of older women.
- Currently married women's ability to negotiate sexual relations increases sharply with increasing education and wealth and is much lower in the North West than in any of the other zones.

15.11 WOMEN'S EMPOWERMENT AND DEMOGRAPHIC AND HEALTH OUTCOMES

Two indices based on information collected in the 2018 NDHS on women's participation in household decision making and their attitudes toward wife beating can be used to examine the relationship between women's empowerment and selected demographic and health indicators. The first index, which ranges from 0 to 3, shows the number of decisions (see Section 15.8 for the list) in which women participate. For this index, the higher the value, the greater the respondent's level of empowerment. The second index is the total number of circumstances (see Section 15.9 for the list) in which women agree that wife beating is justified. This index ranges from 0 to 5. In this case, the higher the number, the lower the respondent's empowerment. The two indices are positively correlated (**Table 15.13**).

Tables 15.14-15.16 show how women's contraceptive use, mean ideal number of children, unmet need for family planning, and reproductive health care vary by the two empowerment indices. In general, women's empowerment is positively associated with desirable health outcomes. For example, the more decisions in which women participate, the higher their contraceptive use: 27% of women participating in all three decisions use a contraceptive method, as compared with 8% of women who do not participate in any of the three decisions. Similarly, 20% of women who do not justify wife beating in any of the five circumstances use a method of contraception, compared with 5% of women who justify wife beating in all five circumstances (**Table 15.14**).

The 2018 NDHS results also provide evidence that child survival is positively associated with women's empowerment. Under-5 mortality rates in the 10 years before the survey range from a high of 153 deaths per 1,000 live births among women who do not participate in any of the three household decisions to a low of 86 deaths per 1,000 live births among women who participate in all of the decisions. Likewise, under-5 mortality ranges from 117 deaths per 1,000 live births among women who do not justify wife beating for any reason to 175 deaths per 1,000 live births among women who justify wife beating for all five reasons (**Table 15.17**).

LIST OF TABLES

For more information on women's empowerment, see the following tables:

Table 15.1 Employment and cash earnings of currently married women and men **Table 15.2.1** Control over women's cash earnings and relative magnitude of women's cash earnings **Table 15.2.2** Control over men's cash earnings **Table 15.3** Women's control over their own earnings and over those of their husbands **Table 15.4.1** Ownership of assets: Women **Table 15.4.2** Ownership of assets: Men **Table 15.5.1** Ownership of title or deed for house: Women **Table 15.5.2** Ownership of title or deed for house: Men **Table 15.6.1** Ownership of title or deed for land: Women **Table 15.6.2** Ownership of title or deed for land: Men **Table 15.7.1** Ownership and use of bank accounts and mobile phones: Women **Table 15.7.2** Ownership and use of bank accounts and mobile phones: Men **Table 15.8** Participation in decision making **Table 15.9.1** Women's participation in decision making by background characteristics **Table 15.9.2** Men's participation in decision making by background characteristics **Table 15.10.1** Attitude toward wife beating: Women **Table 15.10.2** Attitude toward wife beating: Men **Table 15.11** Attitudes toward negotiating safer sexual relations with husband **Table 15.12** Ability to negotiate sexual relations with husband **Table 15.13 Indicators of women's empowerment Table 15.14** Current use of contraception by women's empowerment **Table 15.15** Ideal number of children and unmet need for family planning by women's empowerment **Table 15.16** Reproductive health care by women's empowerment **Table 15.17** Early childhood mortality rates by women's status

Table 15.1 Employment and cash earnings of currently married women and men

Percentage of currently married women and men age 15-49 who were employed at any time in the past 12 months and percent distribution of currently married women and men employed in the past 12 months by type of earnings, according to age, Nigeria DHS 2018

	Among currently married respondents respondents: Percent distribution of currently married respondents employed in the past 12 months, by type of earnings							
Age	Percentage employed in past 12 months	Number of respondents	Cash only	Cash and in-kind	In-kind only	Not paid	Total	Number of respondents
				WOMEN				
15-19 20-24	41.9 58.9	1,927 4,362	64.1 68.1	14.5 12.3	2.0 1.4	19.4 18.3	100.0 100.0	808 2,571
25-29 30-34	71.6 78.5	6,060 5,417	72.3 76.2	10.8 10.6	1.1 0.9	15.8 12.3	100.0 100.0	4,339 4,252
35-39 40-44 45-49	83.2 85.7 85.8	4,841 3,457 3,026	75.2 73.8 73.9	10.5 12.6 11.3	0.4 0.8 1.1	13.9 12.8 13.6	100.0 100.0 100.0	4,026 2,962 2,597
Total 15-49	74.1	29,090	73.2	11.3	0.9	14.5	100.0	21,555
				MEN				
15-19 20-24 25-29 30-34 35-39 40-44 45-49	* 97.6 99.0 99.1 99.2 99.8 98.8	7 233 790 1,412 1,693 1,502 1,150	* 65.1 76.3 81.2 82.7 81.7 76.9	20.7 13.0 10.4 10.0 10.9 11.9	* 1.4 1.0 1.0 0.4 0.7 1.2	* 12.8 9.7 7.4 6.9 6.8 10.1	* 100.0 100.0 100.0 100.0 100.0 100.0	5 227 782 1,399 1,680 1,499 1,136
Total 15-49	99.1	6,786	79.8	11.3	0.8	8.0	100.0	6,727
50-59	97.6	1,395	74.6	15.1	1.6	8.8	100.0	1,362
Total 15-59	98.9	8,180	78.9	12.0	0.9	8.2	100.0	8,089

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 15.2.1 Control over women's cash earnings and relative magnitude of women's cash earnings

Percent distribution of currently married women age 15-49 who received cash earnings for employment in the 12 months preceding the survey by person who decides how the wife's cash earnings are used and by whether she earned more or less than her husband, according to background characteristics, Nigeria DHS 2018

			des how the			Wife's ca		ngs compa ash earnir	ared with hu	isband's	- Total	
Background characteristic	Mainly wife	Wife and husband jointly	Mainly husband	Other	Total	More	Less	About the same	Husband has no earnings	Don't know		Number of women
Age 15-19 20-24 25-29 30-34 35-39 40-44 45-49	76.7 75.6 70.5 70.9 73.2 70.9 73.3	11.4 15.2 20.2 21.6 19.6 21.7 20.0	11.0 9.1 9.3 7.5 7.2 7.4 6.8	0.8 0.1 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	2.0 2.9 3.7 4.6 5.6 7.0 9.1	93.1 90.4 87.9 85.0 83.0 79.4 74.6	4.0 5.6 6.3 7.8 9.1 10.5 12.2	0.4 0.3 0.7 0.5 0.5 0.9	0.5 0.8 1.5 2.1 1.8 2.1 2.2	100.0 100.0 100.0 100.0 100.0 100.0 100.0	635 2,065 3,606 3,692 3,452 2,560 2,214
Number of living children	00.0	00.4	44.4	0.0	400.0	5.0	00.4	0.4	0.0	0.0	400.0	
0 1-2 3-4 5+	68.3 70.8 70.9 75.7	20.1 21.4 21.2 16.5	11.1 7.8 7.9 7.8	0.6 0.0 0.0 0.0	100.0 100.0 100.0 100.0	5.9 4.6 5.0 5.9	83.1 85.3 84.0 83.1	8.4 8.0 8.6 8.2	0.3 0.7 0.6 0.9	2.3 1.4 1.7 1.8	100.0 100.0 100.0 100.0	1,089 5,513 5,700 5,923
Residence Urban Rural	69.7 74.5	24.5 15.4	5.7 10.0	0.1 0.1	100.0 100.0	5.5 5.0	82.1 85.8	9.7 7.1	1.0 0.5	1.7 1.7	100.0 100.0	8,510 9,715
Zone North Central North East North West South East South South South West	69.8 80.4 88.2 39.6 57.1 72.8	19.6 13.5 2.2 51.3 34.9 21.9	10.5 5.8 9.5 9.0 7.9 5.3	0.0 0.2 0.0 0.0 0.1 0.0	100.0 100.0 100.0 100.0 100.0 100.0	5.7 2.8 5.4 6.0 7.5 4.6	80.4 93.8 90.4 75.5 71.7 82.4	10.9 3.0 3.9 12.5 14.9 10.6	0.7 0.4 0.3 1.2 1.6 1.0	2.4 0.0 0.1 4.8 4.2 1.5	100.0 100.0 100.0 100.0 100.0 100.0	2,030 2,502 5,504 2,232 2,129 3,828
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	61.5 47.0 67.8 82.8 49.1 82.7 78.7	32.3 45.7 27.1 15.2 4.4 7.7 13.6	6.2 7.3 5.1 1.9 46.5 9.6 7.7	0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	6.5 1.8 8.4 4.0 3.5 7.1 7.3	71.9 71.9 75.0 78.7 88.5 90.0 81.2	10.6 19.1 13.7 15.6 4.9 2.0 9.9	1.6 2.0 0.6 0.0 0.1 0.6 0.5	9.4 5.2 2.2 1.6 2.9 0.3 1.1	100.0 100.0 100.0 100.0 100.0 100.0 100.0	104 288 351 356 214 389 328
North East Adamawa Bauchi Borno Gombe Taraba Yobe	78.5 71.8 83.0 86.9 67.5 93.1	17.5 18.2 12.9 9.5 28.9 1.2	4.0 9.7 3.4 3.5 3.6 5.7	0.0 0.4 0.7 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	1.9 2.1 3.2 3.3 3.6 3.1	91.6 94.0 94.2 95.1 92.7 94.4	3.7 3.5 2.6 1.3 3.8 2.5	2.8 0.4 0.0 0.2 0.0	0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	215 703 491 144 303 647
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	98.3 93.4 97.7 92.6 30.7 84.4 63.6	0.1 5.5 0.7 2.9 0.0 0.3 2.4	1.6 1.1 1.5 4.4 69.3 15.3 34.0	0.0 0.0 0.1 0.1 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	3.0 4.8 2.7 3.7 0.5 31.6 3.8	95.3 83.7 93.2 95.7 99.5 68.1 95.1	1.0 11.0 3.9 0.5 0.0 0.3 0.0	0.8 0.5 0.1 0.0 0.0 0.0	0.0 0.0 0.1 0.1 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	835 1,369 1,289 913 387 385 326
South East Abia Anambra Ebonyi Enugu Imo	38.4 35.6 23.7 62.6 55.1	54.3 62.5 56.8 29.4 34.0	7.3 1.9 19.5 8.0 10.7	0.0 0.0 0.0 0.0 0.2	100.0 100.0 100.0 100.0 100.0	3.4 3.6 6.1 8.6 10.2	85.8 72.1 78.9 71.8 73.9	6.6 14.4 12.2 17.4 9.9	0.3 1.1 1.5 0.2 2.0	3.9 8.8 1.3 2.0 4.0	100.0 100.0 100.0 100.0 100.0	239 795 533 227 438
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	49.6 23.7 70.7 60.6 53.6 61.8	43.6 31.1 23.4 36.0 41.0 32.2	6.6 45.2 5.9 3.4 5.2 6.0	0.2 0.0 0.0 0.0 0.2 0.0	100.0 100.0 100.0 100.0 100.0 100.0	10.6 7.0 13.5 6.0 7.8 5.2	64.6 58.7 71.8 62.1 81.2 81.3	13.8 29.1 14.0 28.0 7.3 6.6	0.3 0.5 0.2 0.5 0.2 4.2	10.7 4.6 0.5 3.4 3.5 2.7	100.0 100.0 100.0 100.0 100.0 100.0	357 136 220 478 229 709
South West Ekiti Lagos Ogun Ondo Osun Oyo	63.7 84.0 49.9 69.5 87.4 68.7	30.3 11.2 34.9 28.6 10.0 29.0	6.0 4.8 15.2 1.9 2.6 2.3	0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	6.7 3.7 1.8 5.4 7.5 4.5	86.5 84.5 81.4 80.5 81.4 80.4	5.2 8.1 16.5 4.5 9.2 14.1	0.0 2.0 0.3 0.6 0.2 1.0	1.6 1.6 0.0 9.0 1.8 0.0	100.0 100.0 100.0 100.0 100.0 100.0	293 1,110 590 284 584 968

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	Perso		Wife's cash earnings compared with husband's cash earnings:									
Background characteristic	Mainly wife	Wife and husband jointly	Mainly husband	Other	Total	More	Less	About the same	Husband has no earnings	Don't know	Total	Number of women
Education												
No education	82.5	7.2	10.2	0.1	100.0	4.7	89.9	4.4	0.3	0.7	100.0	6,808
Primary	71.0	21.6	7.4	0.0	100.0	4.6	81.1	10.5	1.2	2.6	100.0	3,130
Secondary More than	65.2	28.4	6.3	0.0	100.0	5.3	81.0	10.3	1.0	2.5	100.0	6,073
secondary	62.0	31.2	6.8	0.0	100.0	7.5	78.6	11.6	0.9	1.3	100.0	2,214
Wealth quintile												
Lowest	80.4	7.9	11.6	0.1	100.0	4.4	91.1	3.8	0.2	0.6	100.0	2,970
Second	77.3	12.8	9.9	0.0	100.0	5.0	86.3	6.9	0.5	1.3	100.0	3,385
Middle	73.6	18.4	8.0	0.0	100.0	5.7	82.9	8.5	0.7	2.2	100.0	3,652
Fourth	68.4	24.9	6.6	0.1	100.0	5.6	81.0	10.1	0.8	2.6	100.0	3,928
Highest	65.0	29.6	5.4	0.0	100.0	5.2	81.2	10.7	1.3	1.6	100.0	4,289
Total	72.3	19.7	8.0	0.1	100.0	5.2	84.0	8.3	0.7	1.7	100.0	18,225

Table 15.2.2 Control over men's cash earnings

Percent distributions of currently married men age 15-49 who receive cash earnings and of currently married women age 15-49 whose husbands receive cash earnings, by person who decides how the husband's cash earnings are used, according to background characteristics, Nigeria DHS 2018

Background characteristic			М	en	•			_	Wor	men		-
	Mainly wife	Husband and wife jointly	Mainly husband	Other	Total	Number	Mainly wife	Husband and wife jointly	Mainly husband	Other	Total	Number
Age 15-19 20-24 25-29 30-34 35-39	* 14.5 13.5 11.0 13.6	7.5 18.5 21.6 24.0	* 76.7 67.6 67.3 62.4	1.3 0.3 0.1 0.0	100.0 100.0 100.0 100.0 100.0	3 195 698 1,281 1,558	5.2 5.4 6.2 6.2 6.7	9.1 14.8 20.8 22.3 22.8	85.0 79.7 72.9 71.4 70.4	0.7 0.1 0.1 0.1 0.1	100.0 100.0 100.0 100.0 100.0	1,918 4,354 6,025 5,391 4,820
40-44 45-49	16.3 16.2	22.0 23.0	61.6 60.7	0.1 0.0	100.0 100.0	1,387 1,008	6.1 8.5	24.0 24.2	69.7 67.0	0.2 0.2	100.0 100.0	3,424 2,978
Number of living children												
0 1-2 3-4 5+	14.7 12.1 14.4 16.2	20.1 24.0 23.7 17.1	65.0 63.7 61.9 66.6	0.3 0.2 0.1 0.1	100.0 100.0 100.0 100.0	436 2,146 1,843 1,706	5.1 6.2 6.3 6.7	17.9 21.8 22.2 18.0	76.6 71.8 71.3 75.1	0.5 0.2 0.1 0.1	100.0 100.0 100.0 100.0	2,322 9,309 8,562 8,716
Residence Urban Rural	12.9 15.2	26.8 16.9	60.2 67.6	0.0 0.2	100.0 100.0	2,965 3,166	6.3 6.3	26.9 16.1	66.7 77.4	0.1 0.2	100.0 100.0	11,687 17,222
Zone North Central North East North West South East South South South West	11.5 14.9 17.7 25.4 20.7 1.7	24.1 7.8 10.4 34.8 17.0 37.4	64.4 77.0 71.6 39.8 62.3 60.9	0.1 0.3 0.3 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	798 853 1,628 739 704 1,408	9.6 4.6 5.4 5.9 8.1 6.2	20.2 14.6 4.2 50.3 44.3 28.7	70.1 80.2 90.3 43.6 47.3 65.0	0.0 0.6 0.0 0.2 0.2 0.1	100.0 100.0 100.0 100.0 100.0 100.0	4,056 4,821 9,809 2,863 2,740 4,620
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	0.5 1.6 12.2 5.2 0.0 26.4 2.5	20.3 0.8 56.3 3.5 36.2 19.0 57.9	79.2 97.7 31.5 91.3 63.3 54.6 39.6	0.0 0.0 0.0 0.0 0.5 0.0	100.0 100.0 100.0 100.0 100.0 100.0	36 125 48 104 78 284 123	4.3 9.7 8.5 3.1 9.6 11.5 14.3	30.9 37.6 25.0 22.2 5.6 9.5 16.6	64.8 52.8 66.5 74.8 84.8 79.1 69.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	198 861 425 486 416 1,102 568
North East Adamawa Bauchi Borno Gombe Taraba Yobe	3.5 2.0 5.1 49.4 65.2 0.0	34.9 8.5 2.2 6.4 0.9 0.0	61.6 88.3 92.7 43.4 33.9 100.0	0.0 1.2 0.0 0.8 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	130 123 215 77 109 199	8.8 3.9 1.7 1.7 5.7 6.5	22.9 15.3 9.7 9.7 36.3 3.2	68.3 78.3 88.6 88.4 58.0 90.2	0.0 2.5 0.0 0.2 0.0 0.1	100.0 100.0 100.0 100.0 100.0 100.0	617 1,129 953 553 577 992
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	0.0 52.8 22.8 5.2 0.5 0.4 1.6	6.0 9.1 8.6 18.1 0.4 14.5 12.2	93.2 38.1 67.5 76.7 99.0 85.1 86.1	0.8 0.0 1.1 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	172 381 291 324 148 117	6.3 4.2 9.1 1.9 8.8 4.5 3.3	0.8 13.2 1.2 4.1 1.0 0.4 3.4	92.9 82.6 89.7 93.9 90.1 95.2 93.4	0.0 0.0 0.1 0.1 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	1,151 1,965 2,084 1,772 945 777 1,116
South East Abia Anambra Ebonyi Enugu Imo	9.1 53.3 3.1 1.8 17.5	80.3 29.9 47.3 16.1 22.5	10.7 16.8 49.6 82.0 59.9	0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0	68 275 145 85 165	1.8 6.6 5.0 4.6 9.8	65.1 63.1 57.7 26.0 31.1	33.1 30.0 37.3 69.2 58.6	0.0 0.2 0.0 0.2 0.5	100.0 100.0 100.0 100.0 100.0	375 896 592 454 545
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	32.2 0.5 33.7 1.3 0.0 33.3	31.4 39.1 14.3 9.8 44.7 5.3	36.3 60.4 52.0 88.8 55.3 61.3	0.0 0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0 100.0	129 59 55 172 41 249	8.5 5.6 17.3 5.8 6.9 7.1	49.1 33.5 69.3 36.4 46.6 38.8	42.3 60.9 13.4 57.6 45.7 54.0	0.2 0.0 0.0 0.3 0.8 0.1	100.0 100.0 100.0 100.0 100.0 100.0	489 194 317 547 369 824

Continued...

Background characteristic	Men							Women						
	Mainly wife	Husband and wife jointly	Mainly husband	Other	Total	Number	Mainly wife	Husband and wife jointly	Mainly husband	Other	Total	Number		
South West														
Ekiti	1.1	54.1	44.8	0.0	100.0	88	6.6	43.7	49.5	0.2	100.0	325		
Lagos	2.9	44.9	52.2	0.0	100.0	559	5.1	16.3	78.5	0.1	100.0	1,618		
Ogun	2.0	21.5	76.5	0.0	100.0	225	1.7	39.7	58.6	0.0	100.0	623		
Ondo	0.6	59.5	39.9	0.0	100.0	103	3.3	30.3	66.1	0.3	100.0	419		
Osun	0.0	12.2	87.8	0.0	100.0	135	10.4	13.0	76.6	0.0	100.0	624		
Oyo	0.5	34.0	65.6	0.0	100.0	299	9.1	46.0	44.8	0.0	100.0	1,011		
Education														
No education	13.0	8.9	77.8	0.2	100.0	1,457	5.8	7.3	86.7	0.2	100.0	12,917		
Primary	16.2	22.8	60.9	0.1	100.0	1,014	7.0	24.8	68.0	0.2	100.0	4,535		
Secondary	13.7	24.8	61.4	0.1	100.0	2,483	6.6	32.4	60.9	0.1	100.0	8,692		
More than secondary	14.5	30.3	55.3	0.0	100.0	1,177	6.6	37.3	55.9	0.1	100.0	2,765		
Wealth quintile														
Lowest	9.2	10.4	80.2	0.2	100.0	895	5.8	7.9	85.9	0.4	100.0	5,991		
Second	16.5	13.6	69.4	0.5	100.0	1,060	7.4	14.3	78.1	0.1	100.0	6,197		
Middle	16.0	21.3	62.7	0.0	100.0	1,214	6.1	20.6	73.2	0.1	100.0	5,562		
Fourth	14.8	24.5	60.8	0.0	100.0	1,342	6.5	26.8	66.6	0.1	100.0	5,561		
Highest	13.2	31.3	55.4	0.0	100.0	1,620	5.7	34.4	59.8	0.1	100.0	5,598		
Total 15-49	14.1	21.7	64.1	0.1	100.0	6,131	6.3	20.5	73.0	0.2	100.0	28,909		
50-59	13.8	21.9	64.3	0.1	100.0	1,221	na	na	na	na	na	na		
Total 15-59	14.0	21.8	64.1	0.1	100.0	7,352	na	na	na	na	na	na		

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed. na = Not applicable

Table 15.3 Women's control over their own earnings and over those of their husbands

Percent distribution of currently married women age 15-49 with cash earnings in the last 12 months by person who decides how the wife's cash earnings are used and percent distribution of currently married women age 15-49 whose husbands have cash earnings by person who decides how the husband's cash earnings are used, according to the relation between wife's and husband's cash earnings, Nigeria DHS 2018

	Person who decides how the wife's cash earnings are used:					Person who decides how the husband's cash earnings are used:						
Woman's earnings relative to husband's earnings	Mainly wife	Wife and husband jointly	Mainly husband	Other	Total	Number of women	Mainly wife	Wife and husband jointly	Mainly husband	Other	Total	Number of women
More than husband	73.0	21.9	5.0	0.1	100.0	951	11.4	29.2	59.1	0.2	100.0	951
Less than husband	75.0	16.3	8.6	0.1	100.0	15,318	5.2	21.4	73.3	0.1	100.0	15,318
Same as husband Husband has no cash earnings or did not	46.8	48.3	4.9	0.0	100.0	1,510	4.4	52.8	42.7	0.0	100.0	1,510
work Woman worked but has	56.3	39.3	4.4	0.0	100.0	134	na	na	na	na	na	0
no cash earnings	na	na	na	na	na	0	14.7	27.7	57.1	0.5	100.0	3,301
Woman did not work	na	na	na	na	na	0	4.5	7.5	87.8	0.2	100.0	7,518
Total ¹	72.3	19.7	8.0	0.1	100.0	18,225	6.3	20.5	73.0	0.2	100.0	28,909

na = Not applicable

1 Includes cases where a woman does not know whether she earned more or less than her husband

Table 15.4.1 Ownership of assets: Women

Percent distribution of women age 15-49 by ownership of housing and land, according to background characteristics, Nigeria DHS 2018

-	Per	centage w	ho own a hou			Pe	rcentage v	ho own la	and:		
Background characteristic	Alone	Jointly	Alone and jointly	Percent- age who do not own a house	Total	Alone	Jointly	Alone and jointly	Percent- age who do not own land	Total	Number
Age											
15-19	0.3	2.0	0.2	97.4	100.0	1.0	1.9	0.1	97.0	100.0	8,448
20-24 25-29	1.0 1.6	3.1 5.6	0.8 1.6	95.1 91.2	100.0 100.0	2.3 3.4	3.4 6.3	0.5 1.0	93.8 89.4	100.0 100.0	6,835 7,255
30-34	2.0	6.9	2.3	88.8	100.0	4.0	6.9	1.3	87.8	100.0	6,178
35-39	3.6	9.9	2.5	84.0	100.0	5.6	8.9	1.4	84.1	100.0	5,463
40-44	5.6	10.8	2.3	81.3	100.0	8.3	9.4	1.7	80.6	100.0	3,940
45-49	8.2	15.0	3.5	73.3	100.0	10.5	12.9	2.9	73.7	100.0	3,701
Residence											
Urban	2.3	7.4	1.8	88.5	100.0	2.8	7.2	8.0	89.2	100.0	19,163
Rural	2.7	5.9	1.5	89.9	100.0	5.4	5.4	1.3	87.9	100.0	22,658
Zone											
North Central	4.6	7.6	3.1	84.7	100.0	3.8	6.8	2.1	87.3	100.0	5,891
North East	1.6	3.9	0.6	93.9	100.0	5.9	2.0	1.2	90.8	100.0	6,636
North West	1.2	2.6	0.4	95.9	100.0	3.9	2.4	0.1	93.6	100.0	12,225
South East South South	4.9 3.8	18.6 9.7	3.2 2.0	73.3 84.5	100.0 100.0	5.4 5.3	23.2 8.4	2.4 1.3	68.9 85.0	100.0 100.0	4,963 4,840
South West	3.6 1.4	9.7 4.6	2.0	91.8	100.0	5.3 1.9	3.1	0.6	94.5	100.0	7,266
	1.7	7.0	£.£	51.0	100.0	1.5	5.1	0.0	J-1.J	.50.0	1,200
State											
North Central FCT-Abuja	1.7	2.9	13.1	82.3	100.0	1.3	1.0	7.7	90.1	100.0	319
Benue	15.7	2.3	2.4	79.6	100.0	5.5	2.6	1.6	90.3	100.0	1,354
Kogi	2.8	29.3	4.0	63.9	100.0	4.4	27.4	2.6	65.5	100.0	654
Kwara	0.4	6.2	4.9	88.5	100.0	1.6	4.9	3.1	90.3	100.0	684
Nasarawa	2.0	3.4	8.0	93.9	100.0	2.1	1.8	0.6	95.5	100.0	648
Niger	0.4	0.7	0.6	98.4	100.0	5.3	0.7	0.4	93.6	100.0	1,357
Plateau	1.6	15.9	4.3	78.2	100.0	2.2	14.4	3.4	79.9	100.0	875
North East											
Adamawa	3.2	13.4	1.0	82.4	100.0	4.5	4.7	7.3	83.5	100.0	903
Bauchi	1.2	3.2	0.7	94.9	100.0	5.0	2.4	0.3	92.4	100.0	1,343
Borno	0.9	2.0	0.3	96.8	100.0	1.4	0.8	0.0	97.8	100.0	1,469
Gombe	1.4	1.0	0.9	96.7	100.0	2.3	1.5	0.3	95.9	100.0	717
Taraba Yobe	1.9 1.7	1.9 3.0	0.7 0.6	95.5 94.7	100.0 100.0	3.1 16.7	1.0 2.1	0.8 0.2	95.2 80.9	100.0 100.0	877 1,327
North West											,-
Jigawa	1.0	0.5	0.0	98.5	100.0	5.7	1.6	0.0	92.8	100.0	1,382
Kaduna	0.8	3.2	1.2	94.8	100.0	4.7	2.3	0.4	92.7	100.0	2,493
Kano	1.4	1.7	0.1	96.9	100.0	3.7	2.1	0.0	94.1	100.0	2,692
Katsina	1.5	0.5	0.0	98.0	100.0	5.5	0.4	0.0	94.1	100.0	2,283
Kebbi	0.6	3.3	0.4	95.6	100.0	1.5	3.4	0.3	94.8	100.0	1,136
Sokoto	1.2	12.5	0.5	85.8	100.0	1.3	9.7	0.3	88.7	100.0	910
Zamfara	1.6	1.9	0.1	96.4	100.0	1.9	1.3	0.2	96.5	100.0	1,328
South East	. .	4 -	4.0	00.0	400.0	4 -	0.0	0.0	04 =	100.0	
Abia Anombro	5.3	1.5	4.2	89.0	100.0	4.7	0.9	2.8	91.5	100.0	630
Anambra Ebonyi	3.5 7.5	27.6 31.1	2.3 6.2	66.6 55.2	100.0 100.0	3.8 7.3	38.8 32.4	1.6 4.9	55.8 55.3	100.0 100.0	1,477 1,027
Enugu	7.5 7.9	15.8	2.4	73.8	100.0	7.3 10.1	32. 4 20.1	4.9 1.8	68.0	100.0	880
Imo	1.3	5.2	1.3	92.3	100.0	2.0	6.7	1.3	90.0	100.0	948
South South											
Akwa Ibom	3.2	11.4	2.0	83.4	100.0	6.5	12.0	1.7	79.8	100.0	948
Bayelsa	5.2	18.8	2.8	73.2	100.0	16.9	10.9	2.6	69.5	100.0	298
Cross River	16.4	4.5	3.6	75.5	100.0	13.0	3.0	0.8	83.3	100.0	574
Delta	1.3	8.4	3.3	87.0	100.0	1.8	7.8	1.8	88.5	100.0	931
Edo	2.7	10.1	1.4	85.8	100.0	4.6	7.4	0.4	87.5	100.0	555
Rivers	1.1	9.3	0.6	88.9	100.0	1.8	8.4	1.0	88.8	100.0	1,534
South West											
Ekiti	3.0	9.0	0.4	87.6	100.0	4.6	17.0	8.0	77.6	100.0	475
Lagos	0.8	2.6	1.0	95.7	100.0	0.5	1.4	0.0	98.1	100.0	2,891
Ogun	2.6	7.8	8.5	81.1	100.0	1.1	2.9	1.9	94.1	100.0	927
Ondo	2.4	5.5	1.5	90.6	100.0	5.8	6.1	1.4	86.8	100.0	683
Osun	1.9 0.7	4.3	1.4	92.5	100.0 100.0	3.8 1.1	1.2	1.2	93.8	100.0	938
Oyo	0.7	4.8	2.0	92.5	100.0	1.1	1.5	0.1	97.3	100.0	1,352
Education	0.4	4.0	0.0	00.0	400.0	F 4	0.0	0.0	00.5	400.0	44.000
No education	2.1	4.0	0.9	93.0	100.0	5.1	3.6	0.8	90.5	100.0	14,603
Primary Secondary	4.8 2.0	10.7 7.0	2.8 1.6	81.7 89.4	100.0 100.0	6.3 2.8	10.1 7.2	2.0 0.9	81.6 89.1	100.0 100.0	6,039 16,583
More than secondary	2.8	7.0 7.7	2.5	87.0	100.0	2.6 3.5	7.2 6.1	1.3	89.1	100.0	4,596
wore man secondary	2.0	1.1	۷.۵	01.0	100.0	0.0	0.1	1.5	00.1	100.0	₹,580

	Percentage who own a house:			ıse:		Pe	rcentage v	vho own l	and:		
Background characteristic	Alone	Jointly	Alone and jointly	Percent- age who do not own a house	Total	Alone	Jointly	Alone and jointly	Percent- age who do not own land	Total	Number
Wealth quintile											
Lowest	2.2	4.8	1.0	92.0	100.0	6.8	4.7	1.1	87.4	100.0	7,222
Second	2.6	6.3	1.3	89.8	100.0	4.8	5.9	1.2	88.0	100.0	8,045
Middle	3.4	7.6	1.7	87.2	100.0	4.8	8.2	1.2	85.8	100.0	8,207
Fourth	2.6	7.0	1.8	88.6	100.0	3.0	7.3	1.0	88.7	100.0	8,990
Highest	1.8	6.8	2.2	89.2	100.0	2.3	4.9	0.9	91.9	100.0	9,357
Total	2.5	6.6	1.6	89.3	100.0	4.2	6.2	1.1	88.5	100.0	41,821

<u>Table 15.4.2 Ownership of assets: Men</u>
Percent distribution of men age 15-49 by ownership of housing and land, according to background characteristics, Nigeria DHS 2018

	Per	centage w	ho own a hou	ıse:		Pe	ercentage w	ho own la	nd:		
Background		_	Alone and	Percent- age who do not own a				Alone and	Percent- age who do not		
characteristic	Alone	Jointly	jointly	house	Total	Alone	Jointly	jointly	own land	Total	Number
Age 15-19 20-24 25-29 30-34 35-39 40-44	1.8 7.9 19.7 25.4 28.0 34.3	7.0 11.4 15.1 15.6 15.9	0.6 0.7 2.0 3.8 4.6 4.3	90.5 79.9 63.2 55.3 51.5 45.3	100.0 100.0 100.0 100.0 100.0	1.8 10.5 23.8 28.8 34.6 38.5	7.0 11.4 13.9 12.8 13.1	0.4 0.5 1.7 3.0 3.8 3.1	90.9 77.5 60.6 55.4 48.5 45.4	100.0 100.0 100.0 100.0 100.0	2,415 1,472 1,599 1,792 1,832 1,569
45-49	41.4	14.7	3.4	40.5	100.0	45.0	11.1	3.6	40.2	100.0	1,188
Residence Urban Rural	12.4 28.2	9.8 16.3	2.6 2.7	75.1 52.9	100.0 100.0	13.0 33.8	7.8 14.7	2.0 2.3	77.2 49.1	100.0 100.0	5,512 6,356
North Central North East North West South East South South South West	18.6 32.7 31.1 14.7 12.1 7.0	20.4 15.7 17.9 14.2 7.1 2.6	5.0 2.1 2.2 5.7 1.0 1.5	56.0 49.5 48.9 65.4 79.8 88.9	100.0 100.0 100.0 100.0 100.0 100.0	24.6 34.4 34.2 18.6 16.6 8.8	14.2 14.7 15.7 15.2 5.7 2.1	4.5 1.8 1.1 6.8 0.5 0.7	56.7 49.1 49.0 59.4 77.2 88.4	100.0 100.0 100.0 100.0 100.0 100.0	1,704 1,936 3,195 1,355 1,438 2,240
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	12.3 31.1 13.0 10.9 12.9 17.8 19.2	9.0 1.9 48.5 5.4 35.8 37.5 2.7	0.5 0.9 1.6 0.0 4.6 5.8 17.7	78.3 66.1 36.9 83.7 46.7 39.0 60.4	100.0 100.0 100.0 100.0 100.0 100.0 100.0	9.2 30.1 39.1 19.1 9.9 29.9 21.2	5.2 2.7 34.6 2.5 18.8 27.5 3.1	0.8 1.0 1.6 0.0 6.7 4.0 15.3	84.8 66.2 24.7 78.4 64.6 38.5 60.4	100.0 100.0 100.0 100.0 100.0 100.0 100.0	96 351 156 208 206 442 246
North East Adamawa Bauchi Borno Gombe Taraba Yobe	55.9 22.7 20.8 32.8 38.7 38.7	8.6 41.1 6.0 25.4 10.5 1.6	1.6 3.7 4.4 1.0 0.0 0.2	33.9 32.5 68.7 40.8 50.8 59.5	100.0 100.0 100.0 100.0 100.0 100.0	55.6 29.7 16.6 44.9 34.2 38.5	10.8 40.7 5.6 17.9 8.2 2.2	1.5 2.5 4.6 0.2 0.0 0.4	32.1 27.2 73.2 37.0 57.7 58.9	100.0 100.0 100.0 100.0 100.0 100.0	218 420 398 240 187 472
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	31.6 13.0 27.1 48.1 14.2 24.9 52.7	25.3 32.8 8.9 2.1 60.1 6.9 6.1	1.0 1.1 1.1 2.6 0.0 11.4 2.6	42.0 53.1 62.9 47.3 25.7 56.8 38.6	100.0 100.0 100.0 100.0 100.0 100.0	35.1 25.8 26.5 42.6 26.0 44.0 46.2	21.9 29.4 6.5 4.7 46.4 4.5 7.9	0.3 1.1 0.7 1.2 0.0 1.4 2.7	42.7 43.7 66.4 51.5 27.6 50.2 43.2	100.0 100.0 100.0 100.0 100.0 100.0 100.0	291 636 676 687 291 218 396
South East Abia Anambra Ebonyi Enugu Imo	12.9 9.1 27.2 21.8 9.9	3.6 40.3 4.9 3.8 0.8	0.7 3.0 12.9 17.2 0.0	82.8 47.6 54.9 57.2 89.4	100.0 100.0 100.0 100.0 100.0	20.3 13.7 39.0 11.4 13.5	3.3 42.0 3.1 9.8 0.6	7.8 4.8 10.3 17.7 0.2	68.6 39.5 47.6 61.1 85.7	100.0 100.0 100.0 100.0 100.0	185 409 233 192 337
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	10.2 19.6 14.8 9.7 14.5 11.7	5.3 1.6 3.2 3.4 1.5 15.6	2.4 2.8 0.2 0.0 0.4 0.8	82.1 76.0 81.8 86.8 83.6 72.0	100.0 100.0 100.0 100.0 100.0 100.0	24.7 37.4 22.3 6.1 23.1 9.9	5.9 2.0 1.2 1.7 1.1 12.5	0.7 0.6 0.8 0.1 0.0 0.6	68.7 59.9 75.7 92.0 75.7 77.0	100.0 100.0 100.0 100.0 100.0 100.0	291 109 137 326 140 435
South West Ekiti Lagos Ogun Ondo Osun Oyo	9.5 6.0 5.1 10.3 5.5 8.3	1.9 6.2 0.9 0.2 0.0	1.6 2.2 3.0 0.7 0.0 0.4	87.0 85.6 91.0 88.8 94.5 91.2	100.0 100.0 100.0 100.0 100.0	24.2 2.0 8.8 21.2 10.0 9.4	3.3 2.3 1.3 3.7 3.7 0.0	1.4 0.4 0.6 2.2 0.6 0.2	71.1 95.3 89.4 72.9 85.6 90.4	100.0 100.0 100.0 100.0 100.0	139 845 309 247 269 432
Education No education Primary Secondary More than secondary	36.3 25.0 13.7 18.0	21.0 15.0 9.8 11.9	2.3 3.7 2.6 2.6	40.4 56.3 73.8 67.5	100.0 100.0 100.0 100.0	41.7 29.9 16.4 19.1	18.8 12.7 8.8 9.0	1.4 4.1 2.1 2.0	38.0 53.3 72.7 69.9	100.0 100.0 100.0 100.0	2,555 1,590 5,697 2,025

	Per	centage w	ho own a hou	ise:		Pe	ercentage v				
Background characteristic	Alone	Jointly	Alone and jointly	Percent- age who do not own a house	Total	Alone	Jointly	Alone and jointly	Percent- age who do not own land	Total	Number
Wealth quintile											
Lowest	36.0	16.9	2.4	44.7	100.0	39.8	16.7	1.4	42.0	100.0	1,991
Second	29.0	17.4	3.1	50.5	100.0	36.3	15.8	2.7	45.1	100.0	2,123
Middle	21.7	15.5	2.9	59.9	100.0	26.7	13.0	2.6	57.7	100.0	2,393
Fourth	12.7	11.6	2.7	73.0	100.0	15.4	8.9	2.7	73.0	100.0	2,590
Highest	10.5	7.2	2.4	79.9	100.0	9.5	5.5	1.5	83.4	100.0	2,770
Total 15-49	20.8	13.3	2.7	63.2	100.0	24.1	11.5	2.2	62.2	100.0	11,868
50-59	51.2	15.5	4.2	29.2	100.0	51.6	12.0	3.9	32.5	100.0	1,443
Total 15-59	24.1	13.5	2.8	59.5	100.0	27.1	11.6	2.4	58.9	100.0	13,311

Table 15.5.1 Ownership of title or deed for house: Women

Among women age 15-49 who own a house, percent distribution by whether the house owned has a title or deed and whether or not the woman's name appears on the title or deed, according to background characteristics, Nigeria DHS 2018

	House ha or deed	and:	_			
Background characteristic	Woman's name is on title/deed	Woman's name is not on title/deed	Does not have a title/deed	Don't know/ missing ¹	Total	Number who own a house ²
Age						
15-19	10.1	5.7	74.1	10.0	100.0	216
20-24	14.8	4.7	77.3	3.1	100.0	337
25-29 30-34	13.3 16.4	6.0 4.7	77.3	3.5 2.5	100.0	636 694
35-39	21.6	9.8	76.4 65.5	3.2	100.0 100.0	876
40-44	26.2	7.0	63.5	3.3	100.0	737
45-49	19.6	7.1	68.8	4.4	100.0	987
Residence						
Urban	18.2	7.4	71.4	3.1	100.0	2,200
Rural	19.6	6.4	69.7	4.3	100.0	2,282
Zone North Central	11.2	11.0	72.7	5.1	100.0	900
North East	57.0	2.3	40.1	0.6	100.0 100.0	900 407
North West	43.8	4.8	50.6	0.9	100.0	505
South East	2.0	2.6	94.9	0.6	100.0	1,327
South South	10.6	5.5	75.1	8.9	100.0	748
South West	31.4	16.7	45.2	6.7	100.0	595
State						
North Central						
FCT-Abuja	29.5	4.8	64.5	1.3	100.0	56
Benue	5.8	4.2	89.3	0.7	100.0	276
Kogi	14.0	25.0	46.5	14.5	100.0	236
Kwara Nasarawa	13.6 32.1	9.4 7.4	76.3 60.5	0.7 0.0	100.0 100.0	78 40
Niger	32. I *	7. 4 *	00.5 *	V.U *	100.0	22
Plateau	5.8	8.2	81.9	4.2	100.0	190
North East						
Adamawa	96.4	0.0	3.6	0.0	100.0	159
Bauchi	24.5	1.0	72.8	1.7	100.0	68
Borno	(31.8)	(2.0)	(63.5)	(2.7)	100.0	47
Gombe	(52.4)	(0.0)	(47.6)	(0.0)	100.0	23
Taraba Yobe	25.8 35.5	18.9 0.3	55.3 64.2	0.0 0.0	100.0 100.0	39 70
North West	00.0	0.0	01.2	0.0	100.0	7.0
Jigawa	*	*	*	*	*	20
Kaduna	18.9	10.3	70.0	0.9	100.0	129
Kano	58.2	4.5	37.3	0.0	100.0	85
Katsina	(72.0)	(0.0)	(28.0)	(0.0)	100.0	45
Kebbi	27.4	8.1	59.5	5.0	100.0	50
Sokoto Zamfara	45.8 66.0	2.3 0.0	51.2 34.0	0.7 0.0	100.0 100.0	129 47
South East	00.0	0.0	04.0	0.0	100.0	71
Abia	4.8	9.7	84.3	1.2	100.0	69
Anambra	0.8	0.2	98.5	0.5	100.0	494
Ebonyi	1.3	0.5	98.1	0.2	100.0	461
Enugu	2.2	4.3	92.4	1.1	100.0	230
Imo	10.9	19.5	68.0	1.6	100.0	73
South South Akwa Ibom	10.9	15.1	70.5	3.5	100.0	157
Bayelsa	16.7	3.0	66.9	13.4	100.0	80
Cross River	1.3	0.9	97.7	0.0	100.0	140
Delta	3.9	1.0	79.8	15.2	100.0	121
Edo	35.1	5.3	58.0	1.6	100.0	79
Rivers	8.5	4.8	68.9	17.8	100.0	170
South West						
Ekiti	14.4	24.9	59.8	0.8	100.0	59
Lagos	34.4	15.0	49.2	1.4	100.0	125
Ogun	32.4	3.3	54.7	9.6	100.0	175
Ondo	23.2	15.5	45.5	15.8	100.0	64
Osun Oyo	32.4 40.5	56.8 9.9	9.1 40.4	1.7 9.1	100.0 100.0	71 101
Education						
No education	24.2	4.0	69.3	2.5	100.0	1,026
Primary	14.9	6.6	74.9	3.7	100.0	1,102
Secondary	14.0	6.6	74.8	4.7	100.0	1,756
More than secondary	31.5	12.9	52.5	3.1	100.0	597

Table 1	15.5.1—Continued
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	House ha					
Background characteristic	Woman's name is on title/deed	Woman's name is not on title/deed	Does not have a title/deed	Don't know/ missing ¹	Total	Number who own a house ²
Wealth quintile						
Lowest	22.3	2.1	73.6	1.9	100.0	579
Second	15.3	5.7	76.8	2.3	100.0	821
Middle	14.6	5.8	76.3	3.3	100.0	1,051
Fourth	17.1	7.9	69.8	5.2	100.0	1,022
Highest	26.1	10.6	58.5	4.8	100.0	1,009
Total	18.9	6.8	70.6	3.7	100.0	4,482

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Includes women who have a house with a title/deed, but they do not know if their name is on it (or this information is missing), and women who do not know if there is a title/deed for the house (or this information is missing)
² Includes sole, joint, or sole and joint ownership

Table 15.5.2 Ownership of title or deed for house: Men

Among men age 15-49 who own a house, percent distribution by whether the house owned has a title or deed and whether or not the man's name appears on the title or deed, according to background characteristics, Nigeria DHS 2018

	House ha or deed		_			
Background characteristic	Man's name is on title/deed	Man's name is not on title/deed	Does not have a title/deed	Don't know/ missing ¹	Total	Number who own a house ²
Age 15-19 20-24 25-29 30-34 35-39 40-44	2.4 8.8 11.4 20.0 18.5 25.6	1.4 4.1 2.5 2.2 2.3 1.5	95.8 86.7 85.7 76.5 77.9 71.7	0.4 0.3 0.4 1.3 1.3	100.0 100.0 100.0 100.0 100.0 100.0	229 296 589 801 889 857
45-49 Residence Urban Rural	26.5 26.9 15.4	2.5 2.5 2.2	70.7 68.5 82.1	0.2 2.2 0.3	100.0 100.0 100.0	707 1,371 2,997
Zone North Central North East North West South East South South South West	6.8 14.8 22.3 16.5 24.8 48.6	4.0 2.1 1.9 1.1 2.6 2.2	89.1 83.0 75.5 81.8 68.4 42.5	0.3 0.1 0.3 0.7 4.3 6.8	100.0 100.0 100.0 100.0 100.0 100.0	749 978 1,633 469 291 248
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	24.0 6.0 5.1 (12.3) 5.4 4.3 12.2	2.1 0.9 4.6 (16.5) 5.3 3.8 2.2	73.9 93.1 90.3 (71.2) 88.9 91.8 85.6	0.0 0.0 0.0 (0.0) 0.4 0.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	21 119 99 34 110 270 97
North East Adamawa Bauchi Borno Gombe Taraba Yobe	51.1 4.6 33.2 5.9 4.9 1.9	5.4 0.5 4.1 2.7 1.4 0.7	43.5 94.9 62.6 90.9 93.8 97.5	0.0 0.0 0.0 0.4 0.0	100.0 100.0 100.0 100.0 100.0 100.0	144 284 124 142 92 191
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	16.3 8.4 18.8 45.6 1.1 12.9 35.2	2.6 0.4 3.7 0.7 0.8 3.8 3.4	81.1 91.2 77.5 53.7 97.8 82.9 60.1	0.0 0.0 0.0 0.0 0.4 0.4 1.3	100.0 100.0 100.0 100.0 100.0 100.0 100.0	169 298 251 362 217 94 243
South East Abia Anambra Ebonyi Enugu Imo	(23.2) 0.4 30.6 37.6 (16.8)	(1.4) 0.0 1.4 3.3 (1.3)	(67.3) 99.6 68.0 59.1 (80.5)	(8.2) 0.0 0.0 0.0 (1.3)	100.0 100.0 100.0 100.0 100.0	32 214 105 82 36
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	(32.6) 5.1 (63.0) (30.3) (66.9) 7.9	(8.6) 3.0 (8.9) (0.0) (0.0)	(58.8) 91.9 (28.0) (58.5) (33.1) 85.9	(0.0) 0.0 (0.0) (11.2) (0.0) 6.3	100.0 100.0 100.0 100.0 100.0 100.0	52 26 25 43 23 122
South West Ekiti Lagos Ogun Ondo Osun Oyo	(47.5) 39.8 * (40.9) * (69.4)	(7.4) 2.5 * (0.0) *	(45.2) 44.0 * (59.1) *	(0.0) 13.8 * (0.0) * (0.0)	100.0 100.0 * 100.0 *	18 122 28 28 15 38
Education No education Primary Secondary More than secondary	13.4 18.0 18.3 34.8	2.0 2.1 1.8 4.1	84.2 79.0 78.8 59.8	0.4 0.9 1.2 1.3	100.0 100.0 100.0 100.0	1,522 696 1,492 658

Table 15.5.2—Continued						
	House ha		_			
	_	Man's name is	_			
Background characteristic	Man's name is on title/deed	not on title/deed	Does not have a title/deed	Don't know/ missing ¹	Total	Number who own a house ²
Wealth quintile						
Lowest	10.0	2.3	87.6	0.0	100.0	1,101
Second	15.8	1.8	82.3	0.1	100.0	1,051
Middle	17.8	2.0	79.1	1.0	100.0	961
Fourth	21.8	3.3	73.4	1.6	100.0	698
Highest	41.5	2.3	53.5	2.7	100.0	556
Total 15-49	19.0	2.3	77.9	0.9	100.0	4,367

68.3

76.1

0.6

8.0

100.0

100.0

1,022

5,389

2.1

2.2

29.0

20.9

50-59

Total 15-59

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Includes men who have a house with a title/deed, but they do not know if their name is on it (or this information is missing), and men who do not know if there is a title/deed for the house (or this information is missing)

² Includes sole, joint, or sole and joint ownership

Table 15.6.1 Ownership of title or deed for land: Women

Among women age 15-49 who own land, percent distribution by whether the land owned has a title or deed and whether or not the woman's name appears on the title or deed, according to background characteristics, Nigeria DHS 2018

		as a title ed and:				
Background	Woman's name is on	Woman's name is not	Does not have a	Don't know/		Number who
characteristic	title/deed	on title/deed	title/deed	missing ¹	Total	own land ²
Age						
15-19	12.5	4.1	77.5	5.9	100.0	253
20-24	20.5	3.9	74.6	1.0	100.0	424
25-29	18.5	3.8	75.7	2.0	100.0	770
30-34	19.9	3.9	75.2	1.1	100.0	755
35-39	20.5	3.8	72.4	3.4	100.0	867
40-44	23.8	5.9	68.4	1.9	100.0	763
45-49	23.4	3.7	70.8	2.1	100.0	975
Residence						
Urban	18.1	4.7	75.6	1.6	100.0	2,073
Rural	22.8	3.7	70.8	2.7	100.0	2,735
Zone						
North Central	16.4	6.7	73.6	3.3	100.0	746
North East	37.6	2.3	58.9	1.2	100.0	610
North West	47.9	4.7	47.0	0.4	100.0	783
South East	2.2	1.4	96.1	0.4	100.0	1,542
South South	14.3	3.4	75.5	6.8	100.0	726
South West	33.5	13.2	49.4	3.9	100.0	402
State						
North Central						
FCT-Abuja	40.3	2.0	57.7	0.0	100.0	32
Benue	20.8	4.3	74.1	0.8	100.0	131
Kogi	15.7	16.7	59.4	8.2	100.0	225
Kwara	11.7	1.3	86.1	0.9	100.0	66
Nasarawa	35.3	7.4	57.3	0.0	100.0	29
Niger	12.8	0.0	86.3	0.9	100.0	86
Plateau	10.2	1.7	85.9	2.2	100.0	175
North East						
Adamawa	89.9	0.0	10.1	0.0	100.0	149
Bauchi	30.7	3.0	66.3	0.0	100.0	102
Borno	(24.6)	(1.9)	(73.5)	(0.0)	100.0	33
Gombe	`49.4	`7.0 [′]	`43.6 [´]	0.0	100.0	29
Taraba	38.4	13.3	48.3	0.0	100.0	42
Yobe	9.7	1.0	86.4	2.9	100.0	254
North West						
Jigawa	33.9	0.9	65.3	0.0	100.0	100
Kaduna	32.1	10.8	57.1	0.0	100.0	183
Kano	67.5	1.1	31.4	0.0	100.0	158
Katsina	43.5	7.3	49.2	0.0	100.0	135
Kebbi	36.7	4.1	53.3	5.9	100.0	59
Sokoto	63.7	1.9	34.4	0.0	100.0	103
Zamfara	66.0	0.0	34.0	0.0	100.0	46
South East Abia	12.4	6.0	81.7	0.0	100.0	53
Anambra	0.9	0.0	98.5	0.4	100.0	653
Ebonyi	1.8	0.5	97.6	0.2	100.0	459
Enugu	0.7	0.8	97.9	0.6	100.0	282
Imo	10.7	13.0	74.6	1.6	100.0	95
South South Akwa Ibom	13.8	5.3	76.4	4.5	100.0	191
Bayelsa Cross Bivor	14.5	3.1	82.4	0.0	100.0	91 06
Cross River	2.3	0.0	97.7	0.0	100.0	96 107
Delta Edo	11.4	0.0	80.6	8.0	100.0	107
Edo Bivors	48.8	4.1 5.1	45.4 67.4	1.7	100.0 100.0	69 172
Rivers	9.5	5.1	67.4	18.0	100.0	112
South West	44.0	00.5	0.1.0	0 -	400.0	400
Ekiti	11.6	23.6	64.3	0.5	100.0	106
Lagos	(46.3)	(12.8)	(32.8)	(8.0)	100.0	56
Ogun	46.8	3.8	49.5	0.0	100.0	55
Ondo	34.4	2.5	53.3	9.8	100.0	90
Osun	53.9	26.4	19.7	0.0	100.0	58
Oyo	(22.6)	(2.4)	(69.6)	(5.4)	100.0	36
Education						
No education	26.8	2.7	69.5	1.0	100.0	1,394
Primary	15.2	3.3	79.5	2.0	100.0	1,114
Secondary	15.9	4.8	75.8	3.5	100.0	1,800
occordary	10.0					

Background characteristic		as a title ed and:					
	Woman's name is on title/deed	Woman's name is not on title/deed	Does not have a title/deed	Don't know/ missing ¹	Total	Number who own land ²	
Wealth quintile							
Lowest	21.8	2.6	74.5	1.2	100.0	909	
Second	21.5	3.5	73.4	1.6	100.0	965	
Middle	17.4	4.0	76.9	1.7	100.0	1,163	
Fourth	16.8	5.3	74.3	3.6	100.0	1,015	
Highest	29.1	5.4	62.2	3.2	100.0	755	
Total	20.8	4.1	72.9	2.2	100.0	4,808	

Note: Figures in parentheses are based on 25-49 unweighted cases.

¹ Includes women who have land with a title/deed, but they do not know if their name is on it (or this information is missing), and women who do not know if there is a title/deed for the land (or this information is missing)

² Includes sole, joint, or sole and joint ownership

Table 15.6.2 Ownership of title or deed for land: Men

Among men age 15-49 who own land, percent distribution by whether the land owned has a title or deed and whether or not the man's name appears on the title or deed, according to background characteristics, Nigeria DHS 2018

	Land has a tit	le or deed and:				
	Man's name	Man's name	Does not			
Background characteristic	is on title/deed	is not on title/deed	have a title/deed	Don't know/ missing ¹	Total	Number who own land ²
Age						
15-19	1.4	0.9	97.7	0.0	100.0	221
20-24	11.7	4.5	83.8	0.0	100.0	331
25-29	13.8	1.1	85.1	0.0	100.0	631
30-34 35-39	20.3 19.6	2.0 1.6	77.7 78.6	0.0 0.3	100.0 100.0	799 943
40-44	27.3	0.9	71.6	0.3	100.0	856
45-49	25.3	1.5	73.1	0.2	100.0	710
Residence						
Urban	26.5	1.6	71.9	0.1	100.0	1,257
Rural	17.2	1.6	81.0	0.2	100.0	3,233
Zone	7.0	1.0	00.0	0.4	100.0	707
North Central North East	7.3 13.5	1.8 2.0	90.8	0.1 0.0	100.0	737 985
North West	25.0	1.6	84.5 73.3	0.0	100.0 100.0	1,629
South East	17.8	0.9	81.1	0.0	100.0	550
South South	25.6	0.6	72.8	1.0	100.0	328
South West	43.1	2.2	54.6	0.0	100.0	260
State						
North Central	46 -	2.2	67.5	2.2	400.0	4-
FCT-Abuja	12.5	0.0	87.5	0.0	100.0	15
Benue Kogi	1.4 14.0	0.0 0.8	98.6 85.2	0.0 0.0	100.0 100.0	119 118
Kwara	16.1	3.3	80.6	0.0	100.0	45
Nasarawa	3.9	5.1	90.5	0.5	100.0	73
Niger	4.7	2.0	93.4	0.0	100.0	271
Plateau	11.6	1.9	86.6	0.0	100.0	97
North East						
Adamawa	45.6	6.5	48.0	0.0	100.0	148
Bauchi	5.2	1.9	92.9	0.0	100.0	306
Borno	35.3	2.2	62.4	0.0	100.0	106
Gombe	5.8	1.3	92.9	0.0	100.0	151
Taraba Yobe	0.7 1.6	0.0 0.0	99.3 98.4	0.0 0.0	100.0 100.0	79 194
North West						
Jigawa	18.4	0.5	81.1	0.0	100.0	167
Kaduna	11.0	2.1	86.9	0.0	100.0	358
Kano	18.0	3.0	79.0	0.0	100.0	227
Katsina	46.2	0.7	53.1	0.0	100.0	333
Kebbi	2.5	0.4	96.7	0.4	100.0	211
Sokoto Zamfara	16.2 53.5	2.2 2.6	81.6 43.9	0.0 0.0	100.0 100.0	109 225
South East						
Abia	7.6	0.9	91.4	0.0	100.0	58
Anambra	0.9	0.4	98.7	0.0	100.0	247
Ebonyi	36.1	1.8	62.2	0.0	100.0	122
Enugu	42.0	1.8	56.2	0.0	100.0	75 40
Imo	32.7	0.0	65.0	2.3	100.0	48
South South Akwa Ibom	26.9	1.4	71.7	0.0	100.0	91
Bayelsa	3.0	0.0	97.0	0.0	100.0	44
Cross River	(31.0)	(1.8)	(67.2)	(0.0)	100.0	33
Delta	(28.3)	(0.0)	(71.7)	(0.0)	100.0	26
Edo	(87.3)	(0.0)	(12.7)	(0.0)	100.0	34
Rivers	10.7	0.0	85.9	3.4	100.0	100
South West						
Ekiti	29.4	2.1	68.4	0.0	100.0	40
Lagos	(42.9)	(1.4)	(55.7)	(0.0)	100.0	40
Ogun Ondo	(20.3)	(0.0)	(79.7) 45.1	(0.0) 0.0	100.0	33 67
Ondo Osun	54.9 (20.6)	0.0 (4.1)	45.1 (75.3)	(0.0)	100.0 100.0	67 39
Oyo	(76.5)	(6.9)	(16.6)	(0.0)	100.0	42
Education		•	•	-		
No education	16.2	1.8	81.9	0.0	100.0	1,584
Primary	19.7	1.0	79.1	0.2	100.0	743
Secondary	18.6	1.6	79.7	0.2	100.0	1,554
More than secondary	32.4	1.8	65.6	0.1	100.0	610

	Land has a titl	e or deed and:				
Background characteristic	Man's name is on title/deed	Man's name is not on title/deed	Does not have a title/deed	Don't know/ missing ¹	Total	Number who own land ²
Wealth quintile						
Lowest	13.2	1.5	85.3	0.0	100.0	1,154
Second	18.3	1.9	79.8	0.0	100.0	1,166
Middle	19.3	1.7	78.5	0.5	100.0	1,012
Fourth	22.7	1.1	76.1	0.1	100.0	699
Highest	36.9	1.7	61.4	0.0	100.0	459
Total 15-49	19.8	1.6	78.5	0.1	100.0	4,490
50-59	24.6	2.0	73.3	0.0	100.0	974
Total 15-59	20.7	1.7	77.5	0.1	100.0	5,464

Note: Figures in parentheses are based on 25-49 unweighted cases.

¹ Includes men who have land with a title/deed, but they do not know if their name is on it (or this information is missing), and men who do not know if there is a title/deed for the land (or this information is missing)

² Includes sole, joint, or sole and joint ownership

Table 15.7.1 Ownership and use of bank accounts and mobile phones: Women

Percentage of women age 15-49 who have and use an account in a bank or other financial institution and percentage who own a mobile phone, and among women who own a mobile phone, percentage who use it for financial transactions, according to background characteristics, Nigeria DHS 2018

Background characteristic	Have and use a bank account	Own a mobile phone	Number of women	Use mobile phone for financial transactions	Number of women who own a mobile phone
	barik account	PHONE	OI WOITIEII	แนกสนแบกร	Priorie
Age					
15-19	5.7	36.6	8,448	11.1	3,090
20-24	20.2	57.7	6,835	26.0	3,942
25-29	26.4	61.1	7,255	30.8	4,435
30-34	29.3	61.0	6,178	34.0	3,771
35-39	30.1	62.7	5,463	34.2	3,424
40-44	27.5	58.4	3,940	31.1	2,302
45-49	24.9	58.6	3,701	27.5	2,168
45-49	24.9	30.0	3,701	21.5	2,100
Residence					
Urban	36.8	74.4	19,163	36.7	14,249
Rural	9.6	39.2	22,658	14.3	8,884
Zone					
North Central	17.8	54.2	5,891	18.1	3,191
					,
North East	8.4	39.2	6,636	12.5	2,602
North West	6.9	34.7	12,225	12.4	4,242
South East	36.5	74.6	4,963	35.2	3,700
South South	36.6	70.6	4,840	29.4	3,419
South West	44.1	82.3	7,266	46.2	5,978
	•		,	- -	-,
State					
North Central					
FCT-Abuja	31.7	69.2	319	26.0	220
Benue	15.3	50.8	1,354	11.7	687
Kogi	22.4	69.9	654	8.8	457
Kwara	22.7	64.7	684	27.6	443
Nasarawa	26.6	65.9	648	13.7	427
Niger	8.3	37.3	1,357	17.0	506 451
Plateau	17.5	51.5	875	28.9	451
North East					
Adamawa	8.9	49.9	903	6.2	450
Bauchi	5.4	27.2	1,343	9.8	366
Borno	12.5	50.8	1,469	17.7	746
Gombe	8.0	31.5	717	17.0	226
Taraba	12.9	44.6	877	17.1	391
Yobe	3.8	31.9	1,327	6.0	424
North West					
Jigawa	5.9	28.3	1,382	7.8	392
Kaduna	13.9	44.6	2,493	22.3	1,111
Kano	9.4	40.6	2,692	16.9	1,093
Katsina	2.7	33.6	2,283	3.3	768
Kebbi	0.7	22.3	1,136	1.3	253
Sokoto	2.4	23.7	910	1.2	216
Zamfara	5.6	30.8	1,328	8.2	409
			,-		
South East					
Abia	35.8	82.6	630	25.4	521
Anambra	46.0	82.7	1,477	52.5	1,221
Ebonyi	11.5	51.9	1,027	17.0	533
Enugu	40.6	75.1	880	28.0	661
Imo	45.4	80.6	948	32.9	764
	го.т	55.0	J-10	JL.5	707
South South					
Akwa Ibom	34.2	69.2	948	24.0	656
Bayelsa	29.2	67.4	298	21.3	201
Cross River	32.7	58.1	574	30.7	333
Delta	35.1	72.4	931	28.0	675
Edo	33.1	72.2	555	39.5	401
Rivers	43.1	75.2	1,534	30.9	1,154
South West					
	22.7	70 5	175	25.0	272
Ekiti	33.7	78.5	475	25.0	373
Lagos	58.8	85.9	2,891	60.8	2,483
Ogun	32.0	81.1	927	36.0	752
Ondo	32.1	75.0	683	33.7	512
Osun	29.0	84.8	938	29.7	795
Oyo	41.0	78.6	1,352	44.8	1,063
-			,	****	,
Education					
No education	1.8	26.0	14,603	4.1	3,793
Primary	9.6	54.7	6,039	9.6	3,305
Secondary	26.6	69.7	16,583	25.6	11,553
More than secondary	86.8	97.5	4,596	68.5	4,482

Background characteristic	Have and use a bank account	Own a mobile phone	Number of women	Use mobile phone for financial transactions	Number of women who own a mobile phone
Wealth quintile					
Lowest	1.0	17.7	7,222	2.0	1,282
Second	2.7	32.1	8,045	4.5	2,580
Middle	11.7	54.4	8,207	11.8	4,461
Fourth	28.5	74.2	8,990	24.8	6,671
Highest	58.0	87.0	9,357	51.2	8,139
Total	22.1	55.3	41,821	28.1	23,133

Table 15.7.2 Ownership and use of bank accounts and mobile phones: Men

Percentage of men age 15-49 who have and use an account in a bank or other financial institution and percentage who own a mobile phone, and among men who own a mobile phone, percentage who use it for financial transactions, according to background characteristics, Nigeria DHS 2018

Background characteristic	Have and use a bank account	Own a mobile phone	Number of men	Use mobile phone for financial transactions	Number of men who own a mobile phone
Age					-
15-19	6.4	46.0	2,415	10.7	1,110
20-24	32.3	81.8	1,472	29.5	1,204
25-29	42.8	89.0	1,599	36.7	1,424
30-34	49.6	93.1	1,792	39.0	1,669
35-39	52.0	91.5	1,832	40.7	1,676
40-44	52.5	90.5	1,569	41.1	1,419
45-49	49.9	90.0	1,188	40.1	1,069
Residence			,		,
Urban	57.0	88.3	5,512	49.9	4,865
Rural	22.5	74.0	6,356	19.4	4,706
Zone					
North Central	33.7	78.2	1,704	28.5	1,333
North East	18.0	70.1	1,936	19.9	1,358
North West	19.1	75.1	3,195	19.2	2,398
South East	55.2	88.6	1,355	47.8	1,199
South South	56.6	85.9	1,438	37.5	1,236
South West	66.1	91.4	2,240	58.3	2,048
State					
North Central					
FCT-Abuja	51.3	83.3	96	36.1	80
Benue	30.7	75.0	351	26.6	263
Kogi	44.8	88.4	156	21.1	138
Kwara	34.5	79.4	208	36.8	165
Nasarawa	30.8	72.1	206	25.5	148
Niger	32.2	77.6	442	28.6	343
Plateau	28.2	79.4	246	28.6	195
North East					
Adamawa	14.3	61.8	218	15.8	135
Bauchi	13.4	70.0	420	16.4	294
Borno	27.0	81.1	398	29.9	323
Gombe	14.0	69.5	240	15.2	167
Taraba	22.6	71.3	187	12.0	134
Yobe	16.2	64.8	472	20.4	305
North West					
Jigawa	12.5	77.9	291	13.4	227
Kaduna	27.5	76.3	636	22.9	485
Kano	24.2	78.7	676	29.2	532
Katsina	17.6	81.9	687	13.5	563
Kebbi	8.8	63.2	291	8.5	184
Sokoto	15.8	75.1	218	17.4	164
Zamfara	13.5	61.4	396	18.4	243
South East					
Abia	46.7	91.2	185	46.6	169
Anambra	71.0	91.2	409	52.0	373
Ebonyi	36.0	79.5	233	38.6	185
Enugu	53.5	87.6	192	26.7	168
Imo	55.0	90.7	337	60.7	305
South South					
Akwa Ibom	49.2	85.4	291	18.5	249
Bayelsa	60.6	80.3	109	71.1	87
Cross River	48.7	71.0	137	28.0	97
Delta	55.5	91.1	326	28.5	297
Edo	50.4	83.8	140	49.2	117
Rivers	65.8	89.2	435	47.9	388
South West					
Ekiti	47.4	89.8	139	33.8	125
Lagos	81.3	95.1	845	80.8	803
Ogun	70.0	89.2	309	44.9	275
Ondo	44.2	84.8	247	25.7	209
Osun	51.0	89.6	269	44.3	241
Oyo	61.4	91.2	432	55.3	394
Education					
No education	4.4	65.8	2,555	4.2	1,680
Primary	25.0	78.1	1,590	16.2	1,242
	40.7	81.6	5,697	34.2	4,650
Secondary	40.7	01.0	5,097	34.2	₹,000

				Use mobile phone)
Background characteristic	Have and use a bank account	Own a mobile phone	Number of men	for financial transactions	Number of men who own a mobile phone
Wealth quintile					
Lowest	2.4	57.3	1,991	3.9	1,141
Second	12.6	74.5	2,123	9.9	1,581
Middle	28.9	82.1	2,393	21.4	1,964
Fourth	53.4	88.3	2,590	41.1	2,288
Highest	78.7	93.7	2,770	68.5	2,597
Total 15-49	38.5	80.6	11,868	34.9	9,571
50-59	44.8	85.8	1,443	34.7	1,238
Total 15-59	39.2	81.2	13,311	34.9	10,809

Table 15.8 Participation in decision making

Percent distribution of currently married women and currently married men age 15-49 by person who usually makes decisions about various issues, Nigeria DHS 2018

Decision	Mainly wife	Wife and husband jointly	Mainly husband	Someone else	Other	Total	Number of women
		WOM	1EN				
Own health care	11.2	33.0	55.5	0.3	0.0	100.0	29,090
Major household purchases	6.3	34.1	59.2	0.3	0.1	100.0	29,090
Visits to her family or relatives	14.6	44.9	40.2	0.2	0.0	100.0	29,090
		ME	N				
Own health care	17.8	24.8	57.2	0.1	0.1	100.0	6,786
Major household purchases	19.4	28.6	51.7	0.2	0.1	100.0	6,786

Table 15.9.1 Women's participation in decision making by background characteristics

Percentage of currently married women age 15-49 who usually make specific decisions either by themselves or jointly with their husband, according to background characteristics, Nigeria DHS 2018

	S	specific decision				
Background characteristic	Woman's own health care	Making major household purchases	Visits to her family or relatives	All three decisions	None of the three decisions	Number of women
Age						
15-19	19.8	19.8	40.7	12.5	56.1	1,927
20-24	32.2	28.5	51.0	22.4	45.8	4,362
25-29	41.3	38.0	57.5	31.1	38.7	6,060
30-34	47.2	43.0	61.8	36.4	34.3	5,417
35-39	52.8	47.2	64.6	40.3	31.2	4,841
40-44	51.9	48.3	65.5	40.8	29.8	3,457
45-49	54.7	51.3	68.8	42.9	26.7	3,026
Employment (past 12 months)						
Not employed	19.6	15.8	37.4	11.3	60.6	7,534
Employed for cash	53.6	49.7	68.1	42.4	27.4	18,225
Employed not for cash	48.5	45.6	62.5	34.6	31.9	3,330
lumber of living children						
0	34.8	32.6	52.7	25.8	43.8	2,333
1-2	46.6	41.9	60.9	35.3	34.9	9,363
3-4 5+	47.7 40.7	43.2 38.3	62.1 57.4	36.2 30.8	34.3 38.5	8,615 8,779
	40.7	00.0	07.4	00.0	00.0	0,770
Residence Urban	59.8	53.3	69.5	46.9	26.2	11,790
Rural	33.5	31.6	52.7	24.3	43.6	17,299
Zone						
North Central	39.5	41.7	60.8	29.6	33.9	4,086
North East	28.8	30.0	45.6	20.9	50.8	4,841
North West	19.9	15.8	44.2	11.0	53.7	9,826
South East	80.0	74.4	82.0	69.3	13.6	2,893
South South	74.2	70.5	75.4	61.7	16.2	2,777
South West	75.3	63.2	82.0	58.2	14.1	4,666
State North Central						
FCT-Abuja	63.0	65.1	75.9	55.8	20.9	202
Benue	38.7	43.5	76.7	23.9	16.4	876
Kogi	75.8	67.4	76.8	61.5	15.7	428
Kwara	54.3	51.8	74.1	46.3	23.7	486
Nasarawa	9.4	8.1	9.4	6.7	88.3	416
Niger	29.3	39.3	48.4	22.0	45.3	1,108
Plateau	34.2	31.8	69.0	22.6	26.3	570
North East	39.6	41.8	52.2	36.6	46.8	624
Adamawa Bauchi	19.3	19.7	38.1	12.3	57.2	1,134
Borno	36.2	30.4 22.7	51.4 44.2	22.5	46.6 52.6	953 554
Gombe	29.6			14.8		554 500
Taraba Yobe	51.9 12.0	61.9 19.5	76.4 27.1	46.5 7.7	18.6 67.8	580 996
North West	12.0	10.0	21		07.0	000
Jigawa	18.2	10.8	42.9	4.3	48.3	1,158
Kaduna	37.0	41.6	61.5	35.7	37.4	1,975
Kano	33.0	7.0	41.2	4.9	56.7	2,085
Katsina	10.2	14.1	59.7	7.5	39.9	1,772
Kebbi	4.4	12.9	54.3	3.4	44.2	945
Sokoto	1.6	2.3	9.9	0.3	88.8	777
Zamfara	8.2	5.8	10.8	4.6	88.2	1,116
South East						
Abia	89.3	84.0	91.3	82.2	6.9	376
Anambra	97.6	96.9	97.9	95.9	1.5	905
Ebonyi	71.9	76.6	74.9	65.6	17.9	600
Enugu	62.8	55.5	64.9	54.2	34.0	458
Imo	68.0	44.5	71.4	33.7	16.2	554
South South	04.4	00.0	00.7	04.0	2.4	400
Akwa Ibom	81.4	66.9	86.7	61.6	8.1	490
Bayelsa	40.6	38.5	39.6	37.5	58.4	195
Cross River	94.8	93.3	93.2	88.2	2.1	318
Delta	85.0	84.3	90.6	80.3	7.8	551
Edo	47.4	32.7	42.1	20.3	38.6	370
Rivers	74.5	78.7	75.2	63.2	12.3	855

Table 15.9.1—Continued						
	5	Specific decisions	5			
Background characteristic	Woman's own health care	Making major household purchases	Visits to her family or relatives	All three decisions	None of the three decisions	Number of women
South West Ekiti Lagos Ogun Ondo Osun Oyo	85.2 82.7 68.3 55.7 40.2 94.1	72.4 61.2 71.9 56.2 28.2 82.3	88.1 81.5 88.9 76.1 51.5 97.5	71.4 57.2 59.3 49.4 23.6 79.8	11.0 11.2 8.0 22.4 43.8 2.1	326 1,645 624 421 625 1,024
Education No education Primary Secondary More than secondary	22.8 52.1 62.4 73.1	20.5 48.6 57.4 66.2	43.3 66.5 73.2 80.6	13.7 41.6 50.2 59.2	53.4 29.3 22.2 14.8	12,955 4,580 8,767 2,788
Wealth quintile Lowest Second Middle Fourth Highest	21.7 30.4 42.6 57.0 72.1	19.1 29.3 40.3 52.1 63.8	39.5 53.0 59.2 68.9 79.1	12.5 21.6 33.0 45.2 57.5	57.1 43.7 36.5 26.9 16.3	6,008 6,224 5,601 5,599 5,657
Total	44.2	40.4	59.5	33.5	36.5	29,090

Table 15.9.2 Men's participation in decision making by background characteristics

Percentage of currently married men age 15-49 who usually make specific decisions either alone or jointly with their wife, according to background characteristics, Nigeria DHS 2018

	Specific	decisions			
Background characteristic	Man's own health	Making major household purchases	Both decisions	Neither of the two decisions	Number of men
Age					
15-19	*	*	*	*	7
20-24	83.7	81.1	79.7	14.9	233
25-29	82.7	82.4	79.2	14.1	790
30-34	85.3	83.5	80.3	11.6	1,412
35-39	81.2	80.2	77.0	15.6	1,693
40-44	80.5	77.8	75.5	17.2	1,502
45-49	80.0	78.4	76.7	18.3	1,150
Employment (past 12 months)					
Not employed	82.0	78.2	75.3	15.1	59
Employed for cash	81.0	79.5	76.8	16.2	6,131
Employed not for cash	92.0	88.9	87.2	6.2	596
Number of living children					
0	81.3	81.7	78.9	15.9	491
1-2	83.1	80.6	78.0	14.3	2,372
3-4	81.2	79.8	76.4	15.5	2,019
5+	81.5	80.3	78.2	16.4	1,904
Residence					
Urban	81.1	78.5	75.6	16.0	3,122
Rural	82.7	81.9	79.4	14.8	3,663
Zone					
North Central	89.0	89.0	87.5	9.6	968
North East	85.2	80.9	79.8	13.8	1,026
North West	77.7	78.7	75.1	18.8	1,703
South East	72.4	72.2	70.6	26.0	797
South South	72.1	64.0	60.2	24.0	782
South West	90.3	89.1	85.6	6.2	1,509
State					
North Central					
FCT-Abuja	98.9	99.6	98.9	0.4	58
Benue	99.5	99.5	99.5	0.5	216
Kogi	88.8	93.0	84.7	3.0	84
Kwara	84.5	81.4	79.6	13.7	106
Nasarawa	100.0	98.9	98.9	0.0	96
Niger	72.2	73.2	71.6	26.2	284
Plateau	99.6	98.0	97.7	0.0	125
North East					
Adamawa	92.9	94.0	92.2	5.2	131
Bauchi	97.5	95.4	94.9	2.1	238
Borno	91.3	74.7	74.4	8.4	229
Gombe	61.2	56.6	54.0	36.2	111
Taraba	36.2	38.3	34.8	60.3	115
Yobe	99.7	99.7	99.7	0.3	202
North West					
Jigawa	98.0	98.0	96.8	0.8	173
Kaduna	47.1	45.0	45.0	52.9	385
Kano	68.2	66.4	60.0	25.3	311
Katsina	87.2	90.6	87.2	9.4	325
Kebbi	84.7	96.7	82.9	1.5	171
Sokoto	98.5	97.3	96.7	0.9	124
Zamfara	97.8	97.9	96.4	0.7	214
South East					
Abia	81.1	88.3	81.1	11.7	93
Anambra	46.2	46.5	45.9	53.2	277
Ebonyi	94.5	95.6	94.1	4.0	154
Enugu	95.6	92.0	91.1	3.6	101
Imo	76.8	72.6	71.8	22.4	172
South South					
Akwa Ibom	63.6	63.7	60.6	33.3	147
Bayelsa	100.0	96.7	96.7	0.0	60
Cross River	47.4	40.9	36.8	48.4	73
Delta	88.1	85.3	76.8	3.4	185
Edo	98.1	35.7	35.7	1.9	65
Rivers	59.3	54.8	52.1	37.9	252

Table 15.9.2—Continued Specific decisions Making major Background Man's own household Both Neither of the Number characteristic health purchases decisions two decisions of men South West 99.4 94.2 94.2 0.6 95 Ekiti 76.4 78.5 Lagos 82.2 87.7 14.6 3.9 79.6 562 Ogun 86.9 236 Ondo 96.0 94.1 90.6 0.5 126 Osun 93.7 97.7 188 100.0 99.5 0.0 Oyo 99.5 302 Education No education 84.8 84.3 82.4 13.2 1,665 Primary 81.9 80.3 78.1 15.8 1,133 79.8 76.2 Secondary 81.6 76.6 15.2 2,752 More than secondary 79.0 73.2 18.1 1,235 Wealth quintile 89.6 89.3 87.4 8.5 1,106 Lowest 16.1 15.8 Second 81.7 80.9 78.7 1,203 79.4 1,360 Middle 82.1 77.4 79.8 75.3 Fourth 80.9 76.7 16.1 1,445 Highest 77.9 71.5 18.3 1,672 Total 15-49 82.0 80.3 77.7 15.3 6,786 50-59 82.5 82.2 78.9 14.2 1,395 Total 15-59 82.1 80.7 77.9 8,180 15.2

Note: An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 15.10.1 Attitude toward wife beating: Women

Percentage of all women age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, according to background characteristics, Nigeria DHS 2018

	Hus	band is justifie	d in hitting or be	eating his wife if	she:	Percentage	
			_		Refuses to	who agree with	
Dookground	D	Λ	Goes out	Noglast U	have sexual	at least one	
Background characteristic	Burns the food	Argues with him	without telling him	Neglects the children	intercourse with him	specified reason	Number
Age							
15-19	15.0	20.1	22.0	22.7	20.0	29.8	8,448
20-24	15.5	20.2	22.6	22.4	21.5	29.4	6,835
25-29	14.7	20.5	21.9	22.3	21.6	29.3	7,255
30-34 35-39	14.1 13.2	18.7 18.5	20.8 19.9	20.7 19.7	19.6 18.1	26.5 25.6	6,178
35-39 40-44	14.3	18.5	20.7	20.7	18.1	25.6 26.6	5,463 3,940
45-49	13.4	19.0	20.3	19.8	19.1	26.6	3,701
Employment (past 12 months)							, -
Not employed	18.3	22.6	25.3	25.1	24.4	31.8	13,214
Employed for cash	11.5	16.4	18.1	17.8	16.3	23.8	23,139
Employed not for cash	17.6	25.9	25.6	28.1	25.6	36.8	5,468
Number of living children							
0	11.2	15.5	17.3	17.8	15.1	24.4	12,271
1-2	13.5	18.6	20.1	20.2	19.3	26.4	10,731
3-4 5+	14.6 19.7	20.1 25.4	22.0	22.1 26.9	21.0	28.5	9,363
	19.7	25.4	27.4	20.9	26.6	34.1	9,457
Marital status	2.2	10.0	44-	45.0	40.0	04.0	40.550
Never married Married or living together	9.2 16.7	13.2 22.2	14.7 24.2	15.9 23.8	12.2 23.4	21.8 30.7	10,550 29,090
Divorced/separated/widowed	9.8	22.2 15.1	24.2 16.1	23.6 16.5	23.4 14.0	22.3	29,090
'	3.0	10.1	10.1	10.5	17.0	22.0	۲, ۱۰۱
Residence Urban	6.4	9.9	11.4	11.8	9.3	16.3	19,163
Rural	21.3	9.9 27.8	29.8	29.6	29.2	37.9	22,658
	21.0	27.0	20.0	20.0	20.2	01.0	22,000
Zone	11.1	22.2	04.5	24.0	25.4	24.0	E 001
North Central North East	14.4 23.7	23.2 33.2	21.5 34.8	24.0 32.3	25.1 35.0	34.8 45.2	5,891 6,636
North West	24.7	27.5	32.2	31.4	31.7	37.3	12,225
South East	5.9	12.2	12.0	13.4	5.1	17.2	4,963
South South	3.4	7.5	10.1	11.6	4.8	15.8	4,840
South West	2.2	3.9	4.6	4.7	3.3	6.8	7,266
State							
North Central							
FCT-Abuja	1.1	3.1	4.3	4.8	4.1	9.7	319
Benue	24.2	32.0	31.8	39.0	34.6	48.0	1,354
Kogi Kwara	1.9 3.0	5.2 3.1	4.9 4.5	7.3 6.5	2.9 2.6	10.1 8.4	654 684
Nasarawa	14.5	17.8	9.2	12.9	22.1	31.3	648
Niger	22.4	45.9	42.7	45.4	50.9	62.4	1,357
Plateau	9.7	15.0	13.7	8.7	14.6	22.6	875
North East							
Adamawa	0.7	1.9	2.3	1.1	0.8	4.7	903
Bauchi	47.7	61.0	64.4	63.4	61.6	73.9	1,343
Borno	8.3	9.6	10.3	9.0	5.8	16.6	1,469
Gombe	14.0	23.9	18.2	18.6	32.7	36.3	717
Taraba Yobe	28.4 34.0	45.0 49.9	38.8 60.5	43.5 48.1	44.7 58.8	57.0 72.4	877 1,327
	34.0	49.9	00.5	40.1	30.0	72.4	1,321
North West	0.6	4.7	4.7	1.0	2.0	2.0	1 202
Jigawa Kaduna	0.6 11.8	1.7 14.3	1.7 16.8	1.0 14.9	2.0 18.9	2.9 22.3	1,382 2,493
Kano	1.3	2.2	2.9	2.5	4.3	5.4	2,493
Katsina	64.8	62.1	71.9	76.2	73.0	80.6	2,283
Kebbi	66.9	73.7	81.6	76.7	82.4	87.4	1,136
Sokoto	8.3	13.6	16.4	10.3	20.2	25.0	910
Zamfara	27.5	41.1	52.6	51.4	35.5	57.0	1,328
South East							
Abia	20.6	23.7	29.0	31.2	10.4	31.9	630
Anambra Ebanyi	0.1	0.3	0.1	0.1	0.3	0.6	1,477
Ebonyi Enugu	11.5 1.6	29.5 4.4	28.1 4.1	30.1 4.6	13.7 1.2	39.6 5.4	1,027 880
Enugu Imo	3.0	4.4 11.7	4.1 9.3	4.6 12.2	3.6	20.0	948
	0.0	• • • •	0.0		0.0	_0.0	0.0
South South Akwa Ibom	3.0	9.6	10.3	10.5	4.6	15.8	948
Bayelsa	5.5	8.4	9.0	9.4	9.1	10.1	298
Cross River	1.9	9.5	11.2	10.9	4.0	22.4	574
Delta	3.3	2.5	11.8	17.3	3.3	18.7	931
Edo	3.4	6.3	5.8	8.1	3.1	9.2	555
Rivers	3.8	8.9	10.3	10.9	5.8	15.0	1,534

Table 15.10.1—Continued		·					·
	Hus	band is justifie	_ Percentage				
Background characteristic	Burns the food	Argues with him	Goes out without telling him	Neglects the children	Refuses to have sexual intercourse with him	who agree with at least one specified reason	Number
South West							
Ekiti	10.8	15.1	16.1	16.4	10.3	17.3	475
Lagos	0.3	0.7	0.7	1.8	1.2	2.9	2,891
Ogun	0.7	0.9	1.0	1.1	0.8	1.2	927
Ondo	4.0	10.2	12.9	9.6	8.4	16.3	683
Osun	1.7	4.3	5.3	5.4	2.6	9.0	938
Oyo	3.9	5.2	6.7	6.4	4.7	8.9	1,352
Education							
No education	25.4	32.2	34.9	33.5	35.2	42.7	14,603
Primary	15.4	20.7	22.6	22.7	20.5	29.4	6,039
Secondary	7.8	12.3	13.5	14.7	11.0	19.9	16,583
More than secondary	2.5	4.2	5.0	5.9	4.2	8.9	4,596
Wealth quintile							
Lowest	26.1	34.7	37.3	35.8	36.6	45.7	7,222
Second	23.9	30.4	32.7	32.4	32.4	40.8	8,045
Middle	14.7	21.0	22.5	22.6	20.8	30.1	8,207
Fourth	8.1	11.9	13.4	14.7	11.5	19.7	8,990
Highest	3.2	4.7	5.9	6.4	4.4	9.5	9,357
Total	14.5	19.6	21.4	21.4	20.1	28.0	41,821

Table 15.10.2 Attitude toward wife beating: Men

Percentage of all men age 15-49 who agree that a husband is justified in hitting or beating his wife for specific reasons, according to background characteristics, Nigeria DHS 2018

	Hus	band is justifie	d in hitting or be	eating his wife if	she:	Percentage	
Background characteristic	Burns the food	Argues with him	Goes out without telling him	Neglects the children	Refuses to have sexual intercourse with him	who agree with at least one specified reason	Number
Age							
15-19	12.3	16.8	16.4	15.6	15.4	26.2	2,415
20-24	8.3	14.7	13.5	12.9	14.4	24.9	1,472
25-29	8.1	12.7	10.8	12.8	12.6	23.1	1,599
30-34	5.9	10.8	9.5	9.6	9.6	17.8	1,792
35-39	4.1	9.3	8.8	9.8	7.8	16.1	1,832
40-44	6.1	11.4	10.6 9.0	9.5	8.3	16.9	1,569
45-49	3.7	9.5	9.0	8.6	7.4	16.1	1,188
Employment (past 12 months)	5.0	0.4	0.7	0.0	0.0	44.0	4 404
Not employed	5.6	9.1	9.7	8.3	8.8	14.9	1,431
Employed for cash	7.1	12.5	11.5	11.7	11.3	21.0	8,987
Employed not for cash	9.9	15.6	13.7	14.2	12.0	23.1	1,450
Number of living children							
0	9.2	14.3	13.3	13.2	13.6	23.3	5,410
1-2	5.9	10.1	8.9	9.4	7.8	17.1	2,488
3-4	4.8	11.1	10.1	9.7	8.7	17.0	2,050
5+	6.4	12.0	11.8	11.8	11.0	21.0	1,920
Marital status							
Never married	9.3	14.7	13.6	13.3	13.7	23.6	4,951
Married or living together	5.6	10.7	10.0	10.2	9.0	18.1	6,786
Divorced/separated/widowed	17.8	18.8	18.8	17.4	22.6	34.0	131
Residence							
Urban	4.6	10.1	9.2	9.3	7.6	16.4	5,512
Rural	9.6	14.6	13.7	13.6	14.1	24.2	6,356
Zone							
North Central	2.1	6.7	5.0	5.0	5.1	12.0	1,704
North East	17.8	20.3	19.2	21.1	22.9	33.5	1,936
North West	11.1	16.2	16.2	14.9	18.0	28.5	3,195
South East	2.8	9.6	7.3	6.1	3.7	12.7	1,355
South South	3.4	14.9	13.1	10.9	7.3	20.8	1,438
South West	2.0	5.1	5.1	7.4	2.5	9.1	2,240
							_,
State North Central							
FCT-Abuja	0.2	1.0	3.0	1.2	2.8	4.6	96
Benue	2.6	13.7	4.6	3.9	3.2	17.0	351
Kogi	4.6	5.3	9.5	6.8	3.9	14.2	156
Kwara	1.6	8.5	11.9	10.8	8.3	19.1	208
Nasarawa	1.9	10.5	6.1	9.9	4.8	13.9	206
Niger	1.7	3.0	2.8	2.8	8.2	9.6	442
Plateau	1.7	1.5	1.0	2.2	1.7	2.7	246
	1.7	1.0	1.0	2.2	1.7	2.7	240
North East Adamawa	4.7	22.7	14.2	17.5	15.4	29.6	218
Bauchi	12.1 46.7	21.5 49.0	25.3 48.2	24.5 57.3	21.0 52.4	32.3	420 398
Borno			48.2	57.3	52.4	66.5	
Gombe	1.4 1.9	11.0	5.4	2.8	11.8	19.8	240
Taraba Yobe	1.9	7.4 3.6	6.2 3.7	9.5 3.0	7.2 15.1	14.1 23.1	187 472
	13.4	5.0	5.1	5.0	10.1	20.1	712
North West	44.4	44.5	40.7	0.0	40.0	00.0	004
Jigawa	11.1	14.5	13.7	9.9	18.3	26.9	291
Kaduna	14.6	18.4	17.3	14.7	18.7	28.1	636
Kano	12.3	18.0	16.5	17.9	18.4	33.1	676
Katsina	2.1	6.8	8.5	7.5	4.6	12.9	687
Kebbi	27.8	31.9	41.6	36.6	52.9	62.0	291
Sokoto	10.0	18.2	23.6	16.9	23.9	34.9	218
Zamfara	7.8	14.2	6.0	9.2	10.6	21.3	396
South East							
Abia	10.1	13.8	15.3	14.2	11.5	17.4	185
Anambra	1.2	9.5	5.9	3.4	3.1	11.1	409
Ebonyi	3.0	12.8	4.3	4.2	2.5	15.1	233
Enugu	0.9	6.4	6.3	7.5	0.4	12.1	192
Imo	1.5	6.9	7.1	5.5	3.0	11.0	337
South South							
Akwa Ibom	1.0	3.0	3.7	3.5	1.0	7.7	291
Bayelsa	2.2	8.4	3.7	9.0	16.9	17.7	109
Cross River	3.7	5.8	12.0	10.3	4.3	15.2	137
Delta	5.5	27.9	25.0	19.8	17.3	37.1	326
Edo	0.0	8.0	1.7	9.3	1.3	11.2	140
Rivers	4.8	20.0	16.9	10.3	4.3	23.0	435

Table 15.10.2—Continued								
	Hus	Husband is justified in hitting or beating his wife if she:						
Background characteristic	Burns the food	Argues with him	Goes out without telling him	Neglects the children	Refuses to have sexual intercourse with him	Percentage who agree with at least one specified reason	Number	
South West								
Ekiti	6.0	9.2	10.1	10.7	8.2	14.1	139	
Lagos	0.5	1.5	0.8	2.6	0.4	3.2	845	
Ogun	0.0	6.5	6.3	14.3	2.8	15.5	309	
Ondo	12.6	24.0	26.8	29.8	13.1	39.4	247	
Osun	0.0	3.0	2.0	3.6	0.0	4.0	269	
Oyo	0.0	0.4	0.4	0.4	0.0	0.4	432	
Education								
No education	13.4	15.3	14.7	14.1	18.3	27.1	2,555	
Primary	7.1	14.1	15.1	14.3	11.7	23.1	1,590	
Secondary	6.3	13.2	11.4	11.7	9.9	20.6	5,697	
More than secondary	2.5	5.8	5.2	5.9	5.0	10.3	2,025	
Vealth quintile								
Lowest	14.2	17.1	15.1	14.9	19.4	29.9	1,991	
Second	10.7	16.3	15.6	15.3	16.3	26.0	2,123	
Middle	6.4	12.9	12.7	11.6	10.6	20.9	2,393	
Fourth	5.7	11.9	10.5	11.7	8.1	19.6	2,590	
Highest	2.0	6.4	6.0	6.2	4.4	10.3	2,770	
otal 15-49	7.3	12.5	11.6	11.6	11.1	20.5	11,868	
50-59	5.5	9.9	9.7	9.3	9.2	16.3	1,443	
otal 15-59	7.1	12.2	11.4	11.3	10.9	20.1	13,311	

Table 15.11 Attitudes toward negotiating safer sexual relations with husband

Percentage of women and men age 15-49 who believe that a woman is justified in refusing to have sexual intercourse with her husband if she knows that he has sexual intercourse with other women, and percentage who believe that a woman is justified in asking that they use a condom if she knows that her husband has a sexually transmitted infection (STI), according to background characteristics, Nigeria DHS 2018

		Women		Men			
Background characteristic	Refusing to have sexual intercourse with her husband if she knows he has sex with other women	Asking that they use a condom if she knows that her husband has an STI	Number of women	Refusing to have sexual intercourse with her husband if she knows he has sex with other women	Asking that they use a condom if she knows that her husband has an STI	Number of men	
\ge	20.0	70.0	45.004	04.0	00.4	0.000	
15-24 15-19	69.2 66.8	72.9 68.7	15,284 8,448	61.8 60.2	68.1 64.4	3,888 2,415	
20-24	72.2	78.2	6,835	64.3	74.2	1,472	
25-29	69.3	78.8	7,255	67.4	76.5	1,599	
30-39	69.0	79.3	11,641	66.3	76.8	3,624	
40-49	68.3	77.2	7,642	65.6	75.9	2,757	
larital status							
Never married	66.7	73.4	10,550	62.8	70.5	4,951	
Ever had sex	68.3	85.6	3,821	63.7	80.3	1,483	
Never had sex	65.8	66.5	6,730	62.3	66.3	3,468	
Married or living together	69.7	77.3	29,090	66.3	76.1	6,786	
Divorced/separated/widowed	70.7	80.4	2,181	64.0	71.7	131	
esidence							
Urban	69.0	80.4	19,163	63.9	75.4	5,512	
Rural	69.0	73.2	22,658	65.6	72.3	6,356	
one	·	74.4	F 664	04.0	70.0	4 =0 :	
North Central	57.4	74.1	5,891	61.0	73.0	1,704	
North East	74.1	70.0	6,636	60.5	56.0	1,936	
North West	76.0	76.0	12,225	76.3	81.0	3,195	
South East	68.9 64.8	82.2 80.3	4,963	70.6 54.6	86.8 79.4	1,355 1,438	
South South South West	64.8	78.8	4,840 7,266	54.6 58.1	79.4 67.6	2,240	
	04.0	70.0	7,200	30.1	07.0	2,240	
tate							
North Central FCT-Abuja	68.4	80.2	319	33.7	75.4	96	
Benue	69.3	92.6	1,354	80.6	84.5	351	
Kogi	62.6	92.0 84.1	654	74.4	91.3	156	
Kwara	59.8	78.3	684	61.1	71.0	208	
Nasarawa	46.0	43.2	648	30.7	80.2	206	
Niger	35.5	59.0	1,357	80.1	72.3	442	
Plateau	71.8	79.0	875	26.2	40.9	246	
North East							
Adamawa	85.3	87.2	903	44.9	59.0	218	
Bauchi	85.8	76.3	1,343	53.9	52.9	420	
Borno	60.8	62.4	1,469	80.2	51.7	398	
Gombe	55.3	69.4	717	58.7	61.3	240	
Taraba	62.0	71.0	877	55.3	79.9	187	
Yobe	87.6	60.1	1,327	59.8	49.0	472	
North West							
Jigawa	80.6	69.7	1,382	82.6	87.1	291	
Kaduna	72.9	77.4	2,493	87.3	87.6	636	
Kano	71.9	82.9	2,692	77.1	79.5	676	
Katsina	89.8	85.1	2,283	80.5	86.8	687	
Kebbi	60.4	49.0	1,136	70.2	61.3	291	
Sokoto Zamfara	53.8 90.7	46.4 93.5	910 1,328	45.3 66.6	62.3 83.1	218 396	
	30.7	55.5	1,020	50.0	00.1	330	
South East	94.4	22.2	630	64.2	75.5	10 <i>F</i>	
Abia Anambra	84.1 50.3	88.2 83.6	630 1,477	64.3 73.2	75.5 97.9	185 409	
Ebonyi	50.3 70.6	66.5	1,477	73.2 72.7	97.9 91.9	233	
Enugu	89.9	88.4	880	67.8	91.9	192	
Imo	66.3	87.4	948	71.1	73.5	337	
South South							
Akwa Ibom	68.0	87.5	948	32.5	84.3	291	
Bayelsa	60.9	48.9	298	28.7	50.0	109	
Cross River	56.5	52.1	574	76.1	79.0	137	
Delta	75.8	77.7	931	64.6	66.6	326	
Edo	60.3	84.8	555	62.8	90.0	140	
Rivers	61.7	92.5	1,534	58.9	89.6	435	

		Women			Men	
Background characteristic	Refusing to have sexual intercourse with her husband if she knows he has sex with other women	Asking that they use a condom if she knows that her husband has an STI	Number of women	Refusing to have sexual intercourse with her husband if she knows he has sex with other women	Asking that they use a condom if she knows that her husband has an STI	Number of men
South West						
Ekiti Lagos	63.5 51.8 76.5	75.6 89.1 67.8	475 2,891 927	72.4 21.7 92.4	61.0 47.9 86.4	139 845 309
Ogun Ondo Osun	69.1 79.2	80.4 82.9	683 938	85.9 63.7	89.0 72.1	247 269
Oyo	72.9	61.7	1,352	80.7	79.8	432
Education No education Primary Secondary More than secondary	67.3 67.7 69.4 74.9	68.1 76.3 80.7 88.4	14,603 6,039 16,583 4,596	65.0 63.9 64.2 66.9	64.6 73.2 76.2 78.7	2,555 1,590 5,697 2,025
Wealth quintile Lowest Second Middle Fourth Highest	69.5 67.9 69.1 68.7 69.8	66.5 72.1 76.6 80.0 84.6	7,222 8,045 8,207 8,990 9,357	61.8 67.1 68.3 64.8 62.2	62.7 71.8 76.8 77.3 77.0	1,991 2,123 2,393 2,590 2,770
Total 15-49	69.0	76.5	41,821	64.8	73.7	11,868
50-59	na	na	na	66.4	76.4	1,443
Total 15-59	na	na	na	65.0	74.0	13,311

Table 15.12 Ability to negotiate sexual relations with husband

Percentage of currently married women age 15-49 who can say no to their husband if they do not want to have sexual intercourse, and percentage who can ask their husband to use a condom, according to background characteristics, Nigeria DHS 2018

Background	Percentage who can say no to their husband if they do not want to have	Percentage who can ask their husband to use	Number
characteristic	sexual intercourse	a condom	of women
Age	47.0	04.0	0.000
15-24 15-19	47.3 41.0	34.3 28.2	6,289 1,927
20-24	50.1	37.0	4,362
25-29	55.5	44.0	6,060
30-39	59.7	45.3	10,258
40-49	58.6	39.4	6,483
Residence			
Urban	67.6	53.7	11,790
Rural	47.9	32.9	17,299
Zone			
North Central	54.6	43.2	4,086
North East	51.4	31.8	4,841
North West	36.9	26.2	9,826
South East	79.8	50.0	2,893
South South South West	79.9 72.5	65.7 61.4	2,777 4,666
	12.0	01.4	4,000
State			
North Central FCT-Abuja	64.9	54.5	202
Benue	69.7	54.5 50.3	202 876
Kogi	78.9	55.9	428
Kwara	66.9	62.5	486
Nasarawa	54.8	50.7	416
Niger	27.3	25.9	1,108
Plateau	52.2	30.4	570
North East			
Adamawa	51.3	47.9	624
Bauchi	46.1	21.4	1,134
Borno	70.3 52.9	43.0	953 554
Gombe Taraba	52.9 57.0	24.5 36.5	554 580
Yobe	35.6	24.4	996
North West			
Jigawa	40.7	23.2	1,158
Kaduna	53.7	45.8	1,975
Kano	38.7	16.2	2,085
Katsina	20.2	15.0	1,772
Kebbi	15.1	8.1	945
Sokoto Zamfara	29.4 50.0	30.5 43.8	777 1,116
	30.0	40.0	1,110
South East Abia	82.7	52.7	276
Anambra	62. <i>1</i> 61.2	36.0	376 905
Ebonyi	92.1	46.8	600
Enugu	89.4	81.8	458
Imo	87.0	48.2	554
South South			
Akwa Ibom	86.4	77.4	490
Bayelsa	62.5	61.9	195
Cross River	69.6	39.0	318
Delta	75.6	63.7	551 270
Edo Rivers	85.8 84.1	78.0 65.7	370 855
	•	± ± * *	- 50
South West Ekiti	64.0	64.9	326
Ekili Lagos	66.4	50.3	1,645
Ogun	81.8	76.1	624
Ondo	71.8	43.4	421
Osun	88.5	78.7	625
Oyo	69.8	66.0	1,024
Education			
No education	38.0	23.5	12,955
Primary	61.4	42.7	4,580
Secondary More than secondary	72.2 78.7	57.9 69.9	8,767 2,788
	10.1		2,750

Table 15.12—Continued			
Background characteristic	Percentage who can say no to their husband if they do not want to have sexual intercourse	Percentage who can ask their husband to use a condom	Number of women
Wealth quintile			
Lowest	38.1	21.8	6,008
Second	43.5	28.4	6,224
Middle	58.3	42.5	5,601
Fourth	67.1	53.1	5,599
Highest	75.0	63.4	5,657
Total	55.9	41.3	29,090

Table 15.13 Indicators of women's empowerment

Percentage of currently married women age 15-49 who participate in all decision making and percentage who disagree with all of the reasons justifying wife beating, according to value on each of the indicators of women's empowerment, Nigeria DHS 2018

Empowerment indicator	Percentage who participate in all decision making	Percentage who disagree with all of the reasons justifying wife beating	Number of women
Number of decisions in which women participate ¹			
0	na	63.1	10,627
1-2	na	62.7	8,730
3	na	81.9	9,733
Number of reasons for which wife beating is justified ²			
0	39.6	na	20,152
1-2	26.9	na	2,516
3-4	20.7	na	2,506
5	14.4	na	3,916

na = Not applicable

Table 15.14 Current use of contraception by women's empowerment

Percent distribution of currently married women age 15-49 by current contraceptive method, according to selected indicators of women's status, Nigeria DHS 2018

			M	odern method	ds	_			
Empowerment indicator	Any method	Any modern method ¹	Female sterilisation	Temporary modern female methods ²	Male condom	Any traditional method	Not currently using	Total	Number of women
Number of decisions in which women participate ³									
0	8.3	6.9	0.2	6.2	0.5	1.5	91.7	100.0	10,627
1-2	15.4	12.0	0.2	10.1	1.6	3.5	84.6	100.0	8,730
3	26.8	17.8	0.4	14.7	2.8	9.1	73.2	100.0	9,733
Number of reasons for which wife beating is justified ⁴									
0	20.4	14.4	0.3	12.1	2.1	6.0	79.6	100.0	20,152
1-2	12.8	10.2	0.2	9.3	0.8	2.6	87.2	100.0	2,516
3-4	8.7	7.3	0.4	6.3	0.6	1.4	91.3	100.0	2,506
5	4.7	4.2	0.1	3.8	0.3	0.6	95.3	100.0	3,916
Total	16.6	12.0	0.2	10.2	1.6	4.6	83.4	100.0	29,090

¹ See Table 15.9.1 for the list of decisions. ² See Table 15.10.1 for the list of reasons.

Note: If more than one method is used, only the most effective method is considered in this tabulation.

¹ Female sterilisation, male sterilisation, pill, IUD, injectables, implants, male condom, female condom, emergency contraception, standard days method (SDM), lactational amenorrhoea method (LAM), and other modern methods

² Pill, IUD, injectables, implants, female condom, emergency contraception, standard days method, lactational amenorrhoea method, and other

modern methods

3 See Table 15.9.1 for the list of decisions.
4 See Table 15.10.1 for the list of reasons.

Table 15.15 Ideal number of children and unmet need for family planning by women's empowerment

Mean ideal number of children for women age 15-49 and percentage of currently married women age 15-49 with an unmet need for family planning, according to indicators of women's empowerment, Nigeria DHS 2018

	Mean ideal		Percentage of currently married women with an unmet need for family planning ²			
Empowerment indicator	number of children ¹	Number of women	For spacing	For limiting	Total	Number of women
Number of decisions in which women participate ³						
0	7.3	10,416	12.7	5.7	18.4	10,627
1-2	7.0	8,412	12.0	6.3	18.3	8,730
3	5.4	9,422	11.5	8.4	19.9	9,733
Number of reasons for which wife beating is justified ⁴						
0	5.7	29,213	12.1	7.4	19.5	20,152
1-2	6.5	3,607	14.7	6.0	20.7	2,516
3-4	6.9	3,277	13.2	5.0	18.2	2,506
5	7.7	4,524	9.5	5.3	14.9	3,916
Total	6.1	40,621	12.1	6.8	18.9	29,090

¹ Mean excludes respondents who gave non-numeric responses.

Table 15.16 Reproductive health care by women's empowerment

Percentage of women age 15-49 with a live birth in the 5 years preceding the survey who received antenatal care, delivery assistance, and postnatal care from health personnel for the most recent birth, according to indicators of women's empowerment, Nigeria DHS 2018

Empowerment indicator	Percentage receiving antenatal care from a skilled provider ¹	Percentage receiving delivery care from a skilled provider ¹	Percentage with a postnatal check during the first 2 days after birth ²	Number of women with a child born in the last 5 years
Number of decisions in which women participate ³				
0	55.3	30.8	28.3	8,103
1-2	67.5	45.5	42.7	6,294
3	80.7	71.4	59.7	6,240
Number of reasons for which wife beating is justified ⁴				
0	73.7	56.3	49.5	14,984
1-2	62.3	42.7	37.4	1,922
3-4	53.6	33.5	30.3	1,942
5	45.9	22.8	21.8	3,064
Total	67.0	48.4	42.8	21,911

¹ Skilled provider includes doctor, nurse, midwife, or auxiliary nurse/midwife.

² Figures for unmet need correspond to the revised definition described in Bradley et al. 2012.

³ Restricted to currently married women. See Table 15.9.1 for the list of decisions.

⁴ See Table 15.10.1 for the list of reasons.

² Includes women who received a postnatal checkup from a doctor, nurse, midwife, community health worker, or traditional birth attendant (TBA) in the first 2 days after the birth. Includes women who gave birth in a health facility and those who did not give birth in a health facility.

Restricted to currently married women. See Table 15.9.1 for the list of decisions.

See Table 15.10.1 for the list of reasons.

Table 15.17 Early childhood mortality rates by women's status

Infant, child, and under-5 mortality rates for the 10-year period preceding the survey, according to indicators of women's empowerment, Nigeria DHS 2018 $\,$

Empowerment indicator	Infant mortality (1q0)	Child mortality (4q1)	Under-5 mortality (₅q₀)
Number of decisions in which women participate ¹			
0	74	85	153
1-2	68	81	143
3	52	37	86
Number of reasons for which wife beating is justified ²			
0	61	59	117
1-2	79	64	137
3-4	64	74	133
5	79	104	175

 $^{^{\}rm 1}$ Restricted to currently married women. See Table 15.9.1 for the list of decisions. $^{\rm 2}$ See Table 15.10.1 for the list of reasons.

Key Findings

- Experience of violence: Among women age 15-49, (31%) have experienced physical violence and 9% have experienced sexual violence; 6% of women have experienced physical violence during pregnancy.
- Spousal violence: 36% of ever-married women have experienced spousal physical, sexual, or emotional violence. The prevalence of one or more of these forms of spousal violence was higher in 2018 than in 2008 (31%) and 2013 (25%).
- Injuries due to spousal violence: 29% of ever-married women who have experienced spousal physical or sexual violence have sustained injuries; 26% reported cuts, bruises, or aches, and 9% reported deep wounds and other serious injuries.
- Help seeking: More than half of women (55%) who have experienced physical or sexual violence have never sought help to stop the violence; only 32% have sought help, approximately the same percentage as in 2013 (31%). Women's own families are the most common source of help.

ender-based violence against women has been acknowledged worldwide as a violation of basic human rights. Increasing research has highlighted the health burdens, intergenerational effects, and demographic consequences of such violence (United Nations 2006). Gender-based violence is defined by the United Nations as any act of violence that results in physical, sexual, or psychological harm or suffering to women, girls, men, and boys, as well as threats of such acts, coercion, or the arbitrary deprivation of liberty. This chapter focuses on domestic violence, mainly intimate partner violence, a significant component of gender-based violence.

In Nigeria, domestic violence is widely acknowledged to be of great concern not just from a human rights perspective but also from an economic and health perspective. In 2015, Nigeria passed the comprehensive Violence Against Persons Prohibition Act 2015, which aims to eliminate all forms of violence in both the private and public spheres and includes the right to assistance for victims of violence (Federal Ministry of Women Affairs and Social Development 2015). In addition, Nigeria is a signatory to the Convention on the Elimination of All Forms of Discrimination against Women (CEDAW). Nonetheless, despite legislation and ongoing efforts to protect women and vulnerable populations against violence, much remains to be done in protecting victims and prosecuting perpetrators. Nationally representative data on the prevalence of different forms of violence can help monitor progress towards the elimination of violence against persons in Nigeria.

Accordingly, the 2018 NDHS included a module of questions designed to obtain information on the extent to which women in Nigeria experience domestic violence, including both intimate partner violence and violence by perpetrators other than husbands or other intimate partners. The module on domestic violence

was administered in the subsample of households that were selected for the men's survey. In accordance with the World Health Organization (WHO) guidelines on the ethical collection of information on domestic violence, only one eligible woman age 15-49 per household was randomly selected for the module, and the module was not implemented if privacy could not be obtained (WHO 2001). In total, 10,678 women completed the module. Only 1% of women eligible for the domestic violence module could not be successfully interviewed with the module because privacy could not be obtained or for other reasons. Special weights were used to adjust for the selection of only one woman per household and to ensure that the domestic violence subsample was nationally representative.

This chapter presents findings for women age 15-49 on their experience of physical or sexual violence. It also provides detailed information for ever-married women on their experience of spousal physical, sexual, and emotional violence at any time and in the past 12 months; the physical consequences of the violence; and when the violence first began in the relationship. Finally, it documents whether and from whom help was sought to stop the violence.

16.1 MEASUREMENT OF VIOLENCE

In the Nigeria DHS, information was obtained from never-married women on their experience of violence committed by anyone and from ever-married women on their experience of violence committed by their current and former husbands/partners and by others. More specifically, violence committed by the current husband/partner (for currently married women) and by the most recent husband/partner (for formerly married women) was measured by asking all ever-married women if their husband/partner ever did the following to them:

Physical spousal violence: push you, shake you, or throw something at you; slap you; twist your arm or pull your hair; punch you with his fist or with something that could hurt you; kick you, drag you, or beat you up; try to choke you or burn you on purpose; or threaten or attack you with a knife, gun, or any other weapon

Sexual spousal violence: physically force you to have sexual intercourse with him even when you did not want to, physically force you to perform any other sexual acts you did not want to, or force you with threats or in any other way to perform sexual acts you did not want to

Emotional spousal violence: say or do something to humiliate you in front of others, threaten to hurt or harm you or someone close to you, or insult you or make you feel bad about yourself

In addition, information was obtained from all women (married and unmarried) about physical violence committed by anyone (other than a current or most recent husband/partner) since they were age 15 by asking if anyone had hit, slapped, kicked, or done something else to hurt them physically. Similarly, information was gathered on experiences of sexual violence committed by anyone (other than a current or most recent husband/partner) by asking women if at any time in their life, as a child or as an adult, they were forced in any way to have sexual intercourse or to perform any other sexual acts when they did not want to.

In this chapter, married women include both women who said they were married and women who said they were living with a man as if married. Correspondingly, husbands include both husbands of married women and partners of women who are not married but are living with a man as if married.

16.2 WOMEN'S EXPERIENCE OF PHYSICAL VIOLENCE

Physical violence by anyone

Percentage of women who have experienced any physical violence (committed by a husband or anyone else) since age 15 and in the 12 months before the survey.

Sample: Women age 15-49

Almost one in three (31%) women age 15-49 have ever experienced physical violence, and 14% experienced physical violence in the 12 months preceding the survey (**Table 16.1**).

Six percent of women who have ever been pregnant have experienced physical violence during pregnancy (**Table 16.2**).

Trends: The percentage of women who have experienced physical violence since age 15 increased from 28% in both 2008 and 2013 to 31% in 2018. After decreasing from 15% in 2008 to 11% in 2013, the percentage of women who had experienced physical violence in the past 12 months increased to 14% in 2018.

Patterns by background characteristic

- Experiences of physical violence vary greatly by religion. Forty-two percent of women in the other Christian category report physical violence since age 15, as compared with 38% of Catholic women and 22% of Muslim women (**Table 16.1**).
- Women who are divorced, separated, or widowed are most likely to have experienced physical violence (49%), followed by nevermarried women (36%). Currently married women are least likely (28%) to report experiencing physical violence since age 15 (Figure 16.1).
- A higher percentage of women who are employed but do not earn cash have experienced physical violence since age 15 (43%) than women who are employed for cash (32%) and women who are not employed (25%). Women who are employed but do not have cash earnings are also much more likely than women in the

violence by marital status ■ Never married ■ Married or Divorced/ living together separated/ widowed 49 36 28 15 8 Percentage who Percentage who have ever experienced have ever experienced physical violence since sexual violence age 15

Figure 16.1 Women's experience of

other employment categories to report having experienced violence in the past 12 months (23%).

- The percentage of women who have experienced physical violence since age 15 varies by zone, from a high of 46% in the South South to a low of 12% in the North West.
- The percentage of women who have ever experienced violence during pregnancy is highest in the North East (12%) and lowest in the North West (1%) (**Table 16.2**).
- Divorced, separated, or widowed women (15%) are more likely than currently married women (5%) and never-married women (9%) to have experienced violence during pregnancy.

16.2.1 Perpetrators of Physical Violence

Fifty-eight percent of ever-married women age 15-49 who have experienced physical violence since age 15 named their current husband/partner as the perpetrator of the violence. Never-married women who have experienced physical violence most often reported the perpetrator as their mother/stepmother (35%) or father/stepfather (26%). Notably, 10% of all women who have experienced physical violence mentioned a teacher as the perpetrator, including 17% of never-married women (**Table 16.3**).

16.3 EXPERIENCE OF SEXUAL VIOLENCE

Sexual violence

Percentage of women who have experienced any sexual violence (committed by a husband or anyone else) ever and in the 12 months before the survey.

Sample: Women age 15-49

16.3.1 Prevalence of Sexual Violence

Nine percent of women age 15-49 reported that they had ever experienced sexual violence, and 4% said that they had experienced sexual violence in the past 12 months (**Table 16.4**). Four percent of women first experienced sexual violence before age 18 (**Table 16.6**).

Patterns by background characteristics

- As was the case for physical violence, divorced, separated, or widowed women were more likely (15%) to have experienced sexual violence than currently married women (9%) and never-married women (8%) (**Table 16.4**).
- By zone, the prevalence of sexual violence ranges from 5% each in the North West and South West to 16% in the North East. By state, the percentage of women who have experienced sexual violence is highest in Gombe (45%) and lowest in Kebbi (less than 1%).
- Six percent of never-married women report having experienced sexual violence by age 18, as compared with 4% of ever-married women (**Table 16.6**).

16.3.2 Perpetrators of Sexual Violence

Ever-married women who reported having experienced sexual violence most often named their current or most recent husband/partner as the perpetrator (65%). Among never-married women, the most commonly reported perpetrators were strangers (28%), current or former boyfriends (27%), and friends or acquaintances (24%). Notably, 7% of currently married women reported a stranger as the perpetrator of the violence (**Table 16.5**).

16.4 EXPERIENCE OF DIFFERENT FORMS OF VIOLENCE

Physical violence and sexual violence may not occur in isolation; rather, women may experience a combination of different forms of violence. Overall, 33% of women age 15-49 in Nigeria have experienced physical or sexual violence: 24% have experienced only physical violence, 2% have experienced only sexual violence, and 7% have experienced both physical and sexual violence (**Table 16.7**).

16.5 MARITAL CONTROL BY HUSBAND

Marital control

Percentage of women whose current husband/partner (if currently married) or most recent husband/partner (if formerly married) demonstrates at least one of the following controlling behaviours: is jealous or angry if she talks to other men, frequently accuses her of being unfaithful, does not permit her to meet her female friends, tries to limit her contact with her family, and insists on knowing where she is at all times.

Sample: Ever-married women age 15-49

Marital control in the form of a husband trying to control or monitor his wife's activities can be a warning sign of the potential for violence in a relationship. With respect to the five specified controlling behaviours, ever-married women most often reported that their husband/partner is jealous or angry if they talk to other men (44%). An additional 41% of women reported that their husband insists on knowing where they are at all times, and 16% reported that their husband does not permit them to meet their female friends. Approximately 1 in 10 women said that their husband frequently accuses them of being unfaithful or tries to limit their contact with their family. Overall, 18% of women reported that their husband displays at least three of the specified marital control behaviours, and 42% said that their husband does not display any of the behaviours (**Table 16.8**).

Patterns by background characteristics

- By zone, women in the North East are most likely to report that their husband displays three or more of the specified behaviours (28%), while those in the South West and North West are least likely to do so (12% each) (**Table 16.8**).
- Women with more than a secondary education (13%) are less likely than women in the other education groups (18% each) to report that their husband displays three or more of the specified behaviours. The percentage of women whose husbands display at least three of the specified behaviours generally declines with increasing wealth, from 21% among women in the lowest wealth quintile to 14% among those in the highest wealth quintile.
- There is a strong correlation between whether women are afraid of their husband and whether the husband displays any of the specified controlling behaviours. Forty-three percent of women who say they are afraid of their husband most of the time report that their husband displays at least three of the specified behaviours, as compared with only 12% of women who say they are never afraid of their husband.

16.6 FORMS OF SPOUSAL VIOLENCE

Spousal violence

Percentage of women who have experienced any of the specified acts of physical, sexual, or emotional violence committed by their current husband/partner (if currently married) or most recent husband/partner (if formerly married), ever and in the 12 months preceding the survey.

Sample: Ever-married women age 15-49

16.6.1 Prevalence of Spousal Violence

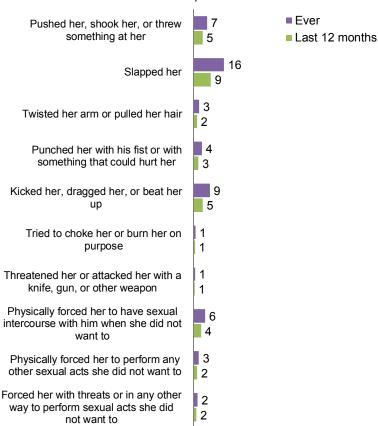
Thirty-six percent of ever-married women have experienced emotional, sexual, or physical violence from their current or most recent husband, and 30% experienced such violence in the 12 months preceding the survey (**Table 16.9**).

Women experiencing spousal physical violence most commonly reported that their husband slapped them (16%). Nine percent of women reported that their husband kicked, dragged, or beat them up; 7% reported that their husband pushed, shook, or threw something at them; 4% reported that their husband punched them with his fist or with something else that could hurt them; and 3% reported that their husband twisted their arm or pulled their hair. One percent each of women said that their husband tried to choke or burn them on purpose and that their husband threatened or attacked them with a knife, gun, or other weapon (Figure 16.2).

With respect to sexual violence, women most often reported that their husband used physical force to have sexual intercourse with them when they did not want to (6%). Three percent of women reported that their husband physically forced them to perform other sexual acts

Figure 16.2 Forms of spousal violence

Percentage of ever-married women age 15-49 who have ever experienced specfic acts of violence by their husband/partner



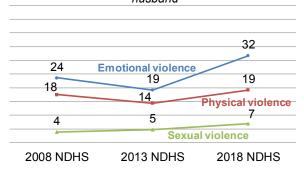
they did not want to, and 2% reported that their husband forced them with threats or in other ways to perform sexual acts they did not want to (**Figure 16.2**).

Women experiencing emotional violence were most likely to report that their husband insulted them or made them feel bad about themselves (28%) or that he said or did something to humiliate them in front of others (19%). Six percent of women said that their husband threatened to hurt or harm them or someone close to them (**Table 16.9**).

Women who have been married (or cohabited as if married with a partner) more than once were also asked about spousal violence committed by any previous husband or partner. Thirty-seven percent of women have ever experienced spousal physical, sexual, or emotional violence committed by any husband (**Table 16.9**).

Figure 16.3 Trends in women's experience of spousal violence

Percentage of ever-married women who have experienced specified forms of violence by their current or most recent husband



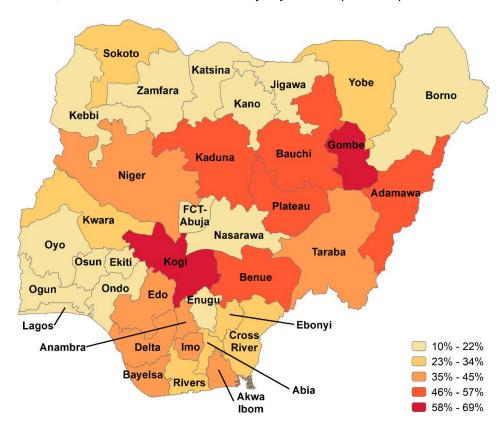
Trends: The prevalence of all forms of violence was higher in 2018 than in 2008 and 2013 (**Figure 16.3**). Overall, the prevalence of spousal physical, sexual, or emotional violence increased from 31% in 2008 and 25% in 2013 to 36% in 2018.

Patterns by background characteristics

- Women who are employed but do not earn cash are much more likely (49%) to have experienced spousal physical, sexual, or emotional violence than women who are employed for cash (36%) and women who are not employed (32%) (**Table 16.10**).
- Women who have more than a secondary education (26%) are less likely than women at lower educational levels (35%-40%) to have experienced spousal physical, sexual, or emotional violence. Similarly, women in the highest wealth quintile (29%) are less likely than women in the other wealth quintiles (36%-40%) to have experienced spousal violence.

Figure 16.4 Spousal violence by state

Percentage of ever-married women age 15-49 who have experienced physical, sexual, or emotional violence committed by any husband/partner in past 12 months



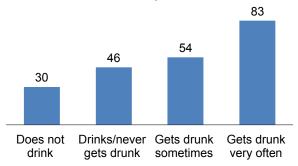
- The prevalence of spousal physical, sexual, or emotional violence ranges from a high of 50% in the North Central zone to a low of 20% in the South West.
- By state, the percentage of women who have experienced spousal physical, sexual, or emotional violence by any husband in the last 12 months is highest in Gombe (69%) and lowest in Jigawa (10%) (**Table 16.12** and **Figure 16.4**).

Patterns by husband's characteristics and empowerment indicators

- Husbands' alcohol consumption is highly correlated with women's likelihood of experiencing any form of violence. Overall, 83% of women whose husbands are often drunk have ever experienced physical, sexual, or emotional violence, as compared with 30% of women whose husbands do not drink alcohol (Table 16.11 and Figure 16.5).
- Intergenerational effects on the experience of spousal violence are evident in Nigeria. Women who report that their fathers beat their mothers are twice as likely (66%) as women who report that their fathers did not beat their mothers (32%) to have themselves experienced spousal physical, sexual, or emotional violence (**Table 16.11**).

Figure 16.5 Spousal violence by husband's alcohol consumption

Percentage of ever-married women who have ever experienced spousal (physical, sexual, or emotional) violence by their husband/partner



Experiences of spousal violence vary according to women's fear of their husband. Women who say that they are afraid of their husband most of the time are much more likely to have ever experienced spousal physical, sexual, or emotional violence (65%) than women who are sometimes afraid of their husband (43%) and women who are never afraid of their husband (26%).

16.6.2 Onset of Spousal Violence

Table 16.13 shows when spousal violence first occurred in relation to the start of marriage among women married only once. Among currently married women age 15-49 who have been married only once, 8% first experienced spousal physical or sexual violence within the first 2 years of marriage, 15% by 5 years of marriage, and 18% by 10 years of marriage.

16.7 Injuries to Women due to Spousal Violence

Injuries due to spousal violence

Percentage of women who have the following types of injuries from spousal violence: cuts, bruises, or aches; eye injuries, sprains, dislocations, or burns; or deep wounds, broken bones, broken teeth, or any other serious injury.

Sample: Ever-married women age 15-49 who have experienced physical or sexual violence committed by their current husband (if currently married) or most recent husband (if formerly married)

Among ever-married women who have experienced spousal physical or sexual violence, 29% have sustained injuries (**Table 16.14**). Those who have experienced spousal sexual violence are more likely to report having sustained injuries (37%) than those who have experienced spousal physical violence (31%). Cuts, bruises, or aches are the most common type of injury (26%) among women who have experienced physical or sexual violence. Ten percent of women reported that they have sustained eye injuries, sprains, dislocations, or burns, while 9% said that they have sustained deep wounds, broken bones, broken teeth, and other serious injuries.

16.8 VIOLENCE INITIATED BY WOMEN AGAINST HUSBANDS

Initiation of physical violence by wives

Percentage of women who have ever hit, slapped, kicked, or done anything else to physically hurt their current (if currently married) or most recent (if formerly married) husband at times when he was not already beating or physically hurting them.

Sample: Ever-married women age 15-49

Either spouse can play a role in instigating domestic violence. All ever-married women were asked if they had ever initiated acts of physical violence against their husbands. Two percent of women said that they had hit, slapped, kicked, or done anything else to physically hurt their husband at times when he was not already beating or physically hurting them (**Table 16.15**).

Trends: The percentage of women who have ever initiated physical violence against their husband has not changed since 2008 (2%).

Patterns by background characteristics

- Women's initiation of violence against their husband is highly correlated with their own experience of spousal violence. Eleven percent of women who have ever experienced spousal physical violence and 14% who have experienced spousal physical violence in the past 12 months have initiated violence against their husband, as compared with less than 1% of women who have never experienced spousal physical violence (Table 16.15).
- Given that women who have ever initiated violence are primarily those who have ever experienced it, variations in women's initiation of violence by background characteristics are largely the same as variations in women's own experiences of violence by background characteristics.
- Thirteen percent of women whose husbands are often drunk have initiated violence against their husbands (**Table 16.16**).
- The percentage of women who have initiated physical violence against their husbands increases sharply with the number of marital control behaviours that their husbands display, from 1% among women whose husbands do not display any of the specified marital control behaviours to 12% among those whose husbands display all five marital control behaviours.
- Nine percent of women who report that their father beat their mother have initiated violence against their husband, as compared with 2% of women who report that their father did not beat their mother.

16.9 HELP SEEKING AMONG WOMEN WHO HAVE EXPERIENCED VIOLENCE

Thirty-two percent of women who have ever experienced physical or sexual violence have sought help to stop the violence, while 55% have never sought help or told anyone about the violence (**Table 16.17**).

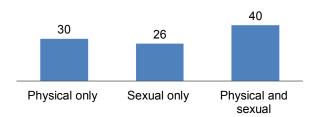
Trends: There was only a minimal change between 2013 and 2018 in the percentage of women who have experienced physical or sexual violence and sought help (31% and 32%, respectively).

Patterns by background characteristics

- Women who have experienced both physical and sexual violence are more likely to have sought help (40%) than women who have experienced only sexual violence (26%) and those who have experienced only physical violence (30%) (**Figure 16.6**).
- The percentage of women who have sought help varies by zone, from a high of 47% in the South South to a low of 18% in the South West.
- Help seeking does not vary consistently by education or wealth.

Figure 16.6 Help seeking by type of violence experienced

Percentage of women age 15-49 who have experienced physical or sexual violence and sought help



Sources for Help

Among women who have experienced physical or sexual violence and sought help, the most common sources for help were their own family (73%) and their husband's/partner's family (26%) (**Table 16.18**). Four percent of women sought help from a religious leader, and 1% each sought help from doctors or medical personnel, the police, or lawyers. A negligible proportion of women sought help from a social work organisation.

LIST OF TABLES

For more information on domestic violence, see the following tables:

•	Table 16.1	Experience of physical violence
•	Table 16.2	Experience of violence during pregnancy
•	Table 16.3	Persons committing physical violence
•	Table 16.4	Experience of sexual violence
•	Table 16.5	Persons committing sexual violence
•	Table 16.6	Age at first experience of sexual violence
•	Table 16.7	Experience of different forms of violence
•	Table 16.8	Marital control exercised by husbands
•	Table 16.9	Forms of spousal violence
•	Table 16.10	Spousal violence by background characteristics
•	Table 16.11	Spousal violence by husband's characteristics and empowerment indicators
•	Table 16.12	Violence by any husband/partner in the last 12 months
•	Table 16.13	Experience of spousal violence by duration of marriage
•	Table 16.14	Injuries to women due to spousal violence
•	Table 16.15	Violence by women against their husband by women's background
		characteristics
•	Table 16.16	Violence by women against their husband by husband's characteristics and
		empowerment indicators
•	Table 16.17	Help seeking to stop violence
	Table 16.18	Sources for help to stop the violence

Table 16.1 Experience of physical violence

Percentage of women age 15-49 who have experienced physical violence since age 15 and percentage who experienced physical violence during the 12 months preceding the survey, according to background characteristics, Nigeria DHS 2018

	Percentage who have experienced		Percentage who experienced physical violence in the past 12 months			
Background characteristic	physical violence since age 15 ¹	Often Sometimes		Often or sometimes ²	Number of women	
Age						
15-19	31.8	1.6	16.7	18.3	1,885	
20-24	31.1	2.0	13.5	15.5	1,655	
25-29	31.1	2.7	11.8	14.6	1,902	
30-39	31.9	2.5	10.3	12.9	3,296	
40-49	28.2	1.1	7.4	8.5	1,940	
Religion	20.2	1.1	7.4	0.0	1,040	
Catholic	38.4	3.1	13.8	17.0	1,102	
Other Christian	41.5	2.8	14.9	17.8	3,994	
Islam	21.9	1.3	8.9	10.2	5,525	
Traditionalist	(34.9)	(2.5)	(9.9)	(12.5)	39	
Other	(9.7)	(0.0)	(6.7)	(6.7)	18	
Residence						
Urban	32.3	2.1	10.7	12.7	4,970	
Rural	29.8	2.0	12.5	14.6	5,708	
one						
North Central	43.3	2.8	17.1	19.9	1,511	
North East	38.3	2.8	16.6	19.4	1,597	
North West	11.7	0.9	5.7	6.6	2,881	
South East	36.1	3.2	13.4	16.7	1,308	
South South	46.4	2.3	15.2	17.5	1,341	
South West	29.8	1.7	8.7	10.4	2,040	
state						
North Central FCT-Abuja	35.3	0.0	7.9	7.9	82	
Benue						
	48.2	4.2	27.0	31.3	354	
Kogi	40.3	1.0	13.8	14.7	157	
Kwara	42.5	2.3	13.2	15.5	184	
Nasarawa	19.1	4.0	9.0	13.1	171	
Niger	54.8	2.9	18.5	21.4	346	
Plateau	41.7	2.1	14.5	16.6	218	
North East	44.4	44.5	05.0	07.4	040	
Adamawa	44.4	11.5	25.6	37.1	210	
Bauchi	35.7	2.1	16.1	18.1	307	
Borno	35.4	1.5	15.6	17.1	374	
Gombe	59.3	3.2	24.6	27.8	174	
Taraba	67.6	1.2	23.9	25.1	209	
Yobe	10.2	0.3	3.3	3.6	324	
North West Jigawa	4.4	0.0	2.3	2.3	322	
Kaduna	28.7	1.4	14.5	15.9	607	
Kano	5.9 8.5	0.4	2.5	2.9	589 565	
Katsina	8.5	1.7	3.0	4.6	565	
Kebbi	9.0	1.6	5.0	6.6	284	
Sokoto Zamfara	8.6 7.1	0.0 0.0	2.2 6.3	2.2 6.3	210 305	
	1.1	0.0	0.5	0.5	303	
South East Abia	32.2	1.9	20.5	22.4	175	
Anambra	35.3	3.0	8.6	11.7	372	
Ebonyi	54.7	6.3	19.9	26.2	246	
	54.7 14.9	0.3 1.2	6.1	7.3	239	
Enugu Imo	41.4	3.4	16.0	7.3 19.4	239 277	
South South						
Akwa Ibom	45.4	3.2	15.6	18.8	255	
Bayelsa	30.9	3.4	22.1	25.5	86	
Cross River	35.7	0.5	12.1	12.7	163	
Delta	33.5	1.8	9.1	11.3	243	
Edo	33.5 64.7	6.9	16.8	23.7	139	
Rivers	55.0	6.9 1.1	17.4	23.7 18.5	455	
South West						
Ekiti	30.7	0.6	17.0	17.7	140	
Lagos	25.7	0.1	6.8	7.0	759	
Ogun	54.1	1.2	9.8	11.5	268	
Ondo	29.4	1.6	6.6	8.2	181	
Osun	36.9	3.7	18.8	22.5	267	
		0.1	10.0			

Table 16.1—Continued		D	proentage who ever arise	nood	
	Percentage who		ercentage who experier al violence in the past 1		
Background characteristic	have experienced physical violence since age 15 ¹	Often	Sometimes	Often or sometimes ²	Number of women
Marital status Never married Married or living	36.0	1.1	15.4	16.6	2,317
together Divorced/separated/	28.3	2.1	10.5	12.6	7,847
widowed	48.8	5.8	12.1	17.9	515
Employment Employed for cash Employed not for cash Not employed	31.5 42.7 25.0	1.9 2.6 2.1	9.6 19.9 12.2	11.5 22.5 14.3	6,116 1,355 3,206
Number of living children					
0	32.9	1.2	14.7	15.9	2,661
1-2	32.0	2.8	11.9	14.7	2,907
3-4 5+	31.0 27.7	2.2 1.9	10.7 9.2	12.9 11.2	2,544 2,567
Education					
No education	22.3	1.4	9.6	11.0	3,660
Primary	35.6	2.8	14.0	16.9	1,584
Secondary	35.9	2.6	13.4	16.0	4,344
More than secondary	33.6	0.9	8.2	9.2	1,090
Wealth quintile					
Lowest	22.8	1.5	10.2	11.7	1,726
Second	28.4	2.3	12.9	15.2	2,010
Middle	33.4	2.8	13.5	16.3	2,160
Fourth	33.8	2.5	12.5	15.0	2,324
Highest	33.9	1.2	9.3	10.5	2,458
Total	31.0	2.0	11.7	13.7	10,678

Note: Figures in parentheses are based on 25-49 unweighted cases.

¹ Includes violence in the past 12 months. For women who were married before age 15 and reported physical violence only by their husband/partner, the violence could have occurred before age 15.

² Includes women for whom frequency in the past 12 months is not known

Table 16.2 Experience of violence during pregnancy

Among women age 15-49 who have ever been pregnant, percentage who have ever experienced physical violence during pregnancy, according to background characteristics, Nigeria DHS 2018

Background characteristic	Percentage who experienced violence during pregnancy	Number of women who have ever been pregnant		
Age		p. og. o		
15-19	4.6	372		
20-24	5.7	1,175		
25-29	5.7 5.9	1,745		
30-39	6.2	3,172		
40-49	4.1	1,885		
	4.1	1,000		
Religion Catholic	7.5	832		
	7.5			
Other Christian	7.2	3,025		
Islam	4.0	4,446		
Traditionalist Other	(0.0) (6.4)	35 11		
	(6.1)	• • • • • • • • • • • • • • • • • • • •		
Residence Urban	5.9	3,718		
Rural	5.2	4,631		
		,,		
Zone North Central	5.7	1,155		
North East	12.0	1,155 1,255		
North West	0.6	2,362		
South East	9.5	2,362 988		
South South	8.0	972		
South West	3.6	1,618		
State		,		
North Central				
FCT-Abuja	1.3	60		
Benue	4.2	278		
Kogi	1.5	117		
Kwara	4.1	135		
Nasarawa	3.6	130		
Niger	13.3	279		
Plateau	3.1	157		
North East				
Adamawa	20.5	171		
Bauchi	3.5	265		
Borno	19.7	273		
Gombe	17.7	152		
Taraba	10.9	157		
Yobe	3.7	237		
North West				
Jigawa	0.0	270		
Kaduna	1.8	484		
Kano	0.0	473		
Katsina	0.5	460		
Kebbi	0.5	240		
Sokoto	0.7	177		
Zamfara	0.7	258		
South East				
Abia	5.0	119		
Anambra	9.3	306		
Ebonyi	11.1	207		
Enugu	4.9	149		
Imo	14.2	208		
South South				
Akwa Ibom	5.9	188		
	1.0	68		
Bayelsa Cross River	1.0 3.2	68 122		
Delta	3.2 2.0	169		
Delta Edo	2.0 12.4	169 113		
Rivers	12.4	313		
	14.5	313		
South West	47	110		
Ekiti	4.7	119		
Lagos	5.5	532		
Ogun	3.1	234		
Ondo				
Ondo Osun	2.7 1.7	145 204		

Table 16.2—Continued		
Background characteristic	Percentage who experienced violence during pregnancy	Number of women who have ever been pregnant
Marital status		
Never married	9.4	262
Married or living together	4.8	7,601
Divorced/separated/widowed	15.3	486
Number of living children		
0	2.3	332
1-2	5.5	2,907
3-4	5.5	2,544
5+	6.0	2,567
Education		
No education	4.6	3,299
Primary	6.6	1,386
Secondary	6.1	2,868
More than secondary	5.3	797
Wealth quintile		
Lowest	3.6	1.478
Second	5.9	1.651
Middle	6.3	1,731
Fourth	6.6	1,765
Highest	5.0	1,724
Total	5.5	8,349

Note: Figures in parentheses are based on 25-49 unweighted cases.

Table 16.3 Persons committing physical violence

Among women age 15-49 who have experienced physical violence since age 15, percentage who report specific persons who committed the violence, according to respondent's current marital status, Nigeria DHS 2018

_	Marita	l status	
Person	Ever married	Never married	Total
Current husband/partner	58.0	na	43.4
Former husband/partner	13.1	na	9.8
Current boyfriend	0.2	1.7	0.6
Former boyfriend	2.5	4.3	2.9
Father/stepfather	12.8	25.6	16.0
Mother/stepmother	19.4	35.4	23.4
Sister/brother	12.5	22.5	15.0
Daughter/son	0.2	0.2	0.2
Other relative	9.1	13.4	10.2
Mother-in-law	0.0	na	0.0
Father-in-law	0.0	na	0.0
Other in-law	0.9	na	0.9
Teacher	7.5	17.1	9.9
Employer/someone at work	0.2	0.8	0.3
Police/soldier	0.1	0.0	0.1
Other	4.8	9.4	5.9
Number of women who have experienced physical violence since age 15	2,472	833	3,305

Note: Women can report more than one person who committed the violence. na = Not applicable

Table 16.4 Experience of sexual violence

Percentage of women age 15-49 who have ever experienced sexual violence and percentage who experienced sexual violence in the 12 months preceding the survey, according to background characteristics, Nigeria DHS 2018

		Percentage who have experienced sexual violence:			
Background characteristic	Ever ¹	In the past 12 months	Number of women		
Age					
15-19	7.6	3.0	1,885		
20-24 25-29	10.3 9.2	6.3 4.2	1,655		
30-39	10.6	4.2	1,902 3,296		
40-49	7.2	2.9	1,940		
Religion			, -		
Catholic	11.4	4.4	1,102		
Other Christian	11.1	4.4	3,994		
Islam	7.3	3.8	5,525		
Traditionalist	(2.3)	(1.6)	39		
Other	(2.5)	(2.5)	18		
Residence					
Urban Rural	8.5 9.7	3.5 4.7	4,970 5,708		
	9.1	4.7	3,700		
Zone	0.7	2.0	1.514		
North Central North East	9.7 15.6	3.6 8.6	1,511 1,597		
North West	5.0	3.2	2,881		
South East	12.1	4.8	1,308		
South South	12.6	4.7	1,341		
South West	5.3	1.4	2,040		
State					
North Central					
FCT-Abuja	3.0	1.3	82		
Benue Kogi	6.5 15.1	2.9 3.1	354 157		
Kwara	3.6	1.5	184		
Nasarawa	3.7	1.9	171		
Niger	14.6	3.2	346		
Plateau	15.5	10.0	218		
North East					
Adamawa	18.8	9.6	210		
Bauchi	21.1	15.6	307		
Borno Gombe	6.9 44.9	3.1 22.0	374 174		
Taraba	12.5	4.5	209		
Yobe	4.7	3.3	324		
North West					
Jigawa	2.7	0.9	322		
Kaduna	13.8	7.9	607		
Kano	3.1	2.2	589		
Katsina Kebbi	4.1 0.4	3.2 0.4	565 284		
Sokoto	1.0	0.4	204 210		
Zamfara	2.5	2.5	305		
South East					
Abia	4.8	1.0	175		
Anambra	7.7	2.8	372		
Ebonyi	20.8	10.6	246		
Enugu Imo	8.6 18.0	2.5 6.5	239 277		
	10.0	0.5	211		
South South	40.4	0.0			
Akwa Ibom	16.1 4.4	8.2 4.4	255 86		
Bayelsa Cross River	4.4 3.2	4.4 0.6	86 163		
Delta	6.4	3.2	243		
Edo	13.6	4.9	139		
Rivers	18.7	4.9	455		
South West					
Ekiti	7.8	2.1	140		
Lagos	7.0	0.2	759		
Ogun	1.3	0.0	268		
Ondo	4.5	1.6 4.0	181 267		
Osun	6.6				

Table 16.4—Continued			
		ge who have sexual violence:	
Background characteristic	Ever ¹	In the past 12 months	Number of women
Marital status Never married Married or living together Divorced/separated/widowed	7.7 9.2 15.3	1.5 4.7 6.0	2,317 7,847 515
Employment Employed for cash Employed not for cash Not employed	9.3 11.7 7.7	4.0 5.0 4.0	6,116 1,355 3,206
Number of living children 0 1-2 3-4 5+	8.1 10.6 8.8 8.9	2.3 5.4 4.1 4.6	2,661 2,907 2,544 2,567
Education No education Primary Secondary More than secondary	8.8 9.5 9.9 6.7	4.8 4.6 4.1 1.2	3,660 1,584 4,344 1,090
Wealth quintile Lowest Second Middle Fourth Highest	9.5 9.4 9.6 9.8 7.7	5.8 5.4 4.3 4.0 1.7	1,726 2,010 2,160 2,324 2,458
Total	9.1	4.1	10,678

Note: Figures in parentheses are based on 25-49 unweighted cases. ¹ Includes violence in the past 12 months

Table 16.5 Persons committing sexual violence

Among women age 15-49 who have experienced sexual violence, percentage who report specific persons who committed the violence, according to respondent's current marital status, Nigeria DHS 2018

	Marital	status	
Person	Ever married	Never married	Total
Current husband/partner Former husband/partner Current/former boyfriend Father/stepfather Brother/stepbrother Other relative In-law Own friend/acquaintance Family friend Teacher Employer/someone at work Police/soldier Priest/religious leader	64.8 18.4 6.6 0.9 0.9 2.8 0.6 4.7 0.8 0.5 0.2 0.0	na na 26.7 0.0 0.2 12.0 na 24.2 2.9 3.9 1.8 0.0	53.0 15.0 10.3 0.7 0.8 4.2 0.8 8.2 1.1 1.2 0.5 0.0
Stranger Other	6.5 0.0	27.6 0.2	10.3
Number women who have experienced sexual violence	799	177	976

Note: Ever-married women can report up to three perpetrators: a current husband, former husband, or one other person who is not a current or former husband. Never-married women can report only the person who was the first to commit the violence.

na = Not applicable

Table 16.6 Age at first experience of sexual violence

Percentage of women age 15-49 who experienced sexual violence by specific exact ages, according to current age and current marital status, Nigeria DHS 2018

	Percentag	e who first exp	Percentage who have not				
Background characteristic	10	12	15	15 18		experienced sexual violence	Number of women
Age							
15-19	0.4	0.4	3.2	na	na	92.4	1,885
20-24	0.4	0.5	1.9	5.9	na	89.7	1,655
25-29	0.3	0.6	1.3	3.5	5.9	90.8	1,902
30-39	0.3	0.5	1.2	4.1	5.9	89.4	3,296
40-49	0.2	0.4	1.0	2.6	3.5	92.8	1,940
Marital status							
Never married	0.6	0.7	2.7	5.7	7.3	92.3	2,317
Ever married	0.2	0.4	1.3	4.1	5.8	90.4	8,361
Total	0.3	0.5	1.6	4.4	6.1	90.9	10,678

na = Not applicable

Table 16.7 Experience of different forms of violence

Percentage of women age 15-49 who have ever experienced different forms of violence according to current age, Nigeria DHS 2018 $\,$

Age	Physical violence only	Sexual violence only	Physical and sexual violence	Physical or sexual violence	Number of women
15-19	26.9	2.6	4.9	34.4	1,885
15-17	27.6	2.2	3.7	33.6	1,179
18-19	25.6	3.3	7.0	35.9	706
20-24	23.8	3.0	7.2	34.1	1,655
25-29	24.3	2.3	6.8	33.4	1,902
30-39	23.9	2.5	8.0	34.4	3,296
40-49	22.5	1.6	5.7	29.8	1,940
Total	24.2	2.4	6.7	33.4	10,678

Table 16.8 Marital control exercised by husbands

Percentage of ever-married women age 15-49 whose husbands/partners have ever demonstrated specific types of controlling behaviours, according to background characteristics, Nigeria DHS 2018

-			Percentag	e of women w	vhose husba	nd/partner:		
Background characteristic	Is jealous or angry if she talks to other men	Frequently accuses her of being unfaithful	Does not permit her to meet her female friends	Tries to limit her contact with her family	Insists on knowing where she is at all times	Displays 3 or more of the specific behaviours	Displays none of the specific behaviours	Number of ever- married women
Age								
15-19	51.2	7.7	17.3	17.0	43.8	19.1	34.4	453
20-24	49.9	11.4	15.5	11.5	42.4	18.2	37.3	1,139
25-29	46.2	11.5	16.6	10.1	42.9	19.0	40.3	1,720
30-39 40-49	42.9 39.5	11.0 9.6	17.6 13.5	10.1 8.2	41.6 35.6	18.2 14.5	41.6 47.2	3,149 1,900
	09.0	3.0	10.0	0.2	33.0	14.5	71.2	1,300
Religion Catholic	34.6	14.1	14.5	6.8	41.8	17.4	46.9	815
Other Christian	39.8	13.5	18.4	8.1	41.6	18.6	43.5	2,891
Islam	48.8	8.3	15.0	12.2	40.0	17.1	39.5	4,607
Traditionalist	(32.5)	(6.3)	(12.0)	(1.8)	(46.6)	(2.5)	(40.9)	36
Other	(39.7)	(11.4)	(16.3)	(22.0)	(18.0)	(14.0)	(42.1)	12
Residence								
Urban	39.6	9.8	15.2	7.8	36.0	15.5	47.1	3,625
Rural	47.7	11.3	16.9	12.1	44.3	19.2	37.4	4,737
Zone								
North Central	44.9	14.8	13.9	8.0	50.5	19.8	36.5	1,172
North East	63.6	11.6	23.7	20.6	51.9	28.3	24.8	1,290
North West	48.3	6.1	12.1	9.7	37.3	12.1	39.2	2,486
South East	32.9	16.7	17.6	7.4	40.2	19.2	49.3	965
South South	45.2	14.0	26.1	11.4	47.6	22.9	34.4	905
South West	27.6	8.3	11.2	5.2	25.8	11.6	62.8	1,543
State								
North Central			05 -	40 -	46.5	46.5	00 =	
FCT-Abuja	44.5	2.8	30.9	10.5	46.3	18.9	30.7	60
Benue	34.3	15.3	9.7	6.7	53.3	16.6	36.1	283
Kogi Kwara	53.5 56.5	14.0 13.5	37.0 7.7	6.2 2.2	84.5 51.5	32.8 12.5	13.0 31.4	119 133
Nasarawa	20.5	6.6	7.7 5.6	6.0	10.3	6.7	73.8	125
Niger	63.3	25.0	16.4	16.3	57.3	33.0	28.2	293
Plateau	33.2	7.8	4.9	1.9	40.3	8.2	47.5	160
North East								
Adamawa	92.1	15.0	33.7	25.2	82.0	39.1	3.8	168
Bauchi	62.2	8.9	16.8	26.3	56.5	28.2	20.2	277
Borno	56.6	4.9	7.0	8.7	20.9	9.5	40.6	287
Gombe	74.0	36.0	36.4	23.3	76.2	48.5	13.6	153
Taraba	41.4	8.0	17.6	6.9	42.5	16.1	43.1	155
Yobe	61.2	7.6	39.7	31.6	53.1	37.9	21.4	249
North West								
Jigawa	49.5	1.2	6.4	20.0	32.4	8.5	30.2	285
Kaduna	53.3	2.4	9.6	5.3	36.7	8.7	42.1	504
Kano	30.7	4.7	7.6	8.2	32.1	7.9	49.3	509
Katsina Kebbi	55.6 32.0	12.4 2.4	19.6 19.8	14.2 3.4	34.6 42.1	16.8 16.5	37.9 53.7	469 255
Sokoto	79.4	22.1	22.6	16.5	66.3	31.4	12.3	191
Zamfara	51.3	2.4	4.0	3.2	33.0	4.0	32.1	274
South East Abia	25.9	17.0	31.2	4.4	62.5	23.1	32.4	118
Anambra	25.9 33.8	17.0	13.6	4.4 7.5	62.5 39.4	20.0	32.4 49.7	298
Ebonyi	52.0	23.8	24.3	12.8	50.7	26.4	32.5	199
Enugu	16.8	8.6	5.5	5.9	19.1	9.2	75.6	143
Imo	28.3	11.7	17.7	4.9	33.1	15.8	56.1	207
South South								
Akwa Ibom	36.4	14.1	27.3	12.4	46.2	23.6	39.0	176
Bayelsa	45.5	16.0	24.5	9.4	47.0	19.7	26.9	68
Cross River	44.2	23.0	16.1	10.1	31.9	17.8	43.1	102
Delta	43.1	7.1	28.9	15.6	48.7	24.1	37.7	163
Edo	65.8	13.8	31.8	9.1	59.1	26.0	16.0	112
Rivers	43.9	14.3	25.6	10.2	49.1	23.2	35.6	284
South West								
Ekiti	51.6	9.3	14.3	4.7	51.7	16.9	35.9	111
Lagos	20.7	5.8	11.4	3.9	24.9	8.3	65.9	492
Ogun Ondo	21.1 46.7	6.4 8.1	8.8 23.7	4.5 7.4	10.4 60.3	7.9 21.4	73.3 27.3	225 134
Osun	40.7	8.7	10.0	7. 4 4.4	31.9	12.2	52.0	201
Oyo	19.3	12.3	7.7	7.2	13.1	12.9	78.9	379
-	-	-			•	-		-
Marital status Married or living together	43.9	99	15.7	10.0	40 4	17 0	41.8	7 847
Marital status Married or living together Divorced/separated/	43.9	9.9	15.7	10.0	40.4	17.0	41.8	7,847

Table 16.8—Continued													
			Percentag	je of women v	vhose husba	nd/partner:		of ever- married					
Background characteristic	Is jealous or angry if she talks to other men	Frequently accuses her of being unfaithful	Does not permit her to meet her female friends	Tries to limit her contact with her family	Insists on knowing where she is at all times	Displays 3 or more of the specific behaviours	Displays none of the specific behaviours	Numbe of ever- married women					
Number of living children 0 1-2 3-4 5+	49.3 43.2 42.3 46.2	8.3 11.0 10.8 10.7	17.6 16.7 16.5 14.9	10.6 10.7 9.5 10.3	46.3 39.8 39.0 42.2	18.2 18.0 17.0 17.5	34.7 43.0 43.5 39.8	2,729 2,527					
Employment Employed for cash Employed not for cash Not employed	43.6 44.0 46.1	10.2 14.5 10.0	16.3 16.9 15.3	9.9 12.2 10.2	39.9 49.1 39.0	17.2 21.5 16.6	42.7 36.7 41.0	5,348 972 2,042					
Education No education Primary Secondary More than secondary	49.2 44.7 41.0 33.3	9.8 11.3 12.7 6.5	14.9 16.2 17.0 18.5	12.9 9.9 8.5 5.2	41.7 41.5 41.3 33.0	17.9 17.5 18.4 13.1	38.1 41.7 43.2 51.4	3,440 1,387 2,740 794					
Wealth quintile Lowest Second Middle Fourth Highest	49.9 47.4 48.9 41.8 33.6	11.1 10.1 12.3 11.1 8.7	18.5 13.1 17.6 15.3 16.4	14.4 11.2 11.8 7.7 6.4	44.4 41.4 45.8 39.5 32.8	20.5 17.2 19.7 17.1 13.7	34.5 39.5 37.6 44.3 51.6	1,552 1,680 1,725 1,710 1,694					
Woman afraid of husband/partner Afraid most of the time Sometimes afraid Never afraid	74.5 51.5 33.6	28.0 11.6 7.4	35.5 17.7 11.9	26.0 11.6 6.7	70.4 45.9 32.0	43.3 20.1 11.7	12.1 35.8 50.9	614 3,556 4,190					
Total	44.2	10.7	16.1	10.2	40.7	17.6	41.6	8,361					

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

Table 16.9 Forms of spousal violence

Percentage of ever-married women age 15-49 who have experienced various forms of violence ever or in the 12 months preceding the survey committed by their current or most recent husband/partner, and percentage of ever-married women age 15-49 who have experienced various forms of violence ever or in the 12 months preceding the survey committed by any husband/partner, Nigeria DHS 2018

	_	Experienced	Frequency in t	he past 12 months
Type of violence experienced	Ever experienced	in the past 12 months	Often	Sometimes
Spousal violence committed by curre	ent or most recen	nt husband/partne	-1	
Physical violence				
Any physical violence	19.2	11.7	2.2	9.5
Pushed her, shook her, or threw something at her	7.2	4.8	1.0	3.8
Slapped her	16.2	9.2	1.5	7.8
Twisted her arm or pulled her hair	3.0	1.8	0.5	1.3
Punched her with his fist or with something that could hurt her	4.4	2.6	0.7	2.0
Kicked her, dragged her, or beat her up	8.6	4.9	1.0	3.9
Tried to choke her or burn her on purpose	1.0	0.7	0.2	0.4
Threatened her or attacked her with a knife, gun, or other weapon	0.8	0.5	0.1	0.4
Sexual violence				
Any sexual violence	7.0	4.7	8.0	3.9
Physically forced her to have sexual intercourse with him when she				
did not want to	6.2	4.0	0.6	3.3
Physically forced her to perform any other sexual acts she did not				
want to	2.8	1.9	0.4	1.5
Forced her with threats or in any other way to perform sexual acts				
she did not want to	2.1	1.5	0.3	1.2
Emotional violence				
Any emotional violence	31.7	26.7	4.6	22.1
Said or did something to humiliate her in front of others	19.0	15.2	2.7	12.4
Threatened to hurt or harm her or someone she cared about	6.3	4.8	0.9	4.0
Insulted her or made her feel bad about herself	27.5	22.7	3.4	19.3
Any form of physical and/or sexual violence	21.4	13.7	2.7	11.1
Any form of emotional and/or physical and/or sexual violence	36.2	29.5	5.7	23.7
Spousal violence committee	d by any husban	d/partner		
Physical violence	19.9	11.8	na	na
Sexual violence	7.7	4.7	na	na
Emotional violence	32.3	26.7	na	na
Any form of physical or sexual violence	22.3	13.8	na	na
Any form of emotional or physical or sexual violence	36.9	29.5	na	na
Number of ever-married women	8,361	8,361	8,361	8,361

¹ Includes current husband/partner for currently married women and most recent husband/partner for divorced, separated, or widowed women na = Not available

Table 16.10 Spousal violence by background characteristics

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/partner, according to background characteristics, Nigeria DHS 2018

Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical and sexual	Physical and sexual and emotional	Physical or sexual	Physical or sexual or emotional	Number of ever-married women
Age 15-19 20-24 25-29 30-39 40-49	18.8 32.1 33.8 33.0 30.6	11.4 18.4 19.3 20.7 18.9	8.3 9.2 6.2 7.4 5.5	5.0 5.3 4.0 5.2 4.1	4.6 4.9 3.8 5.0 3.7	14.7 22.2 21.5 22.8 20.3	23.4 37.2 37.9 37.8 34.6	453 1,139 1,720 3,149 1,900
Religion Catholic Other Christian Islam Traditionalist Other	40.3 36.3 27.3 (44.4) (4.9)	27.5 26.4 13.1 (27.0) (10.5)	6.5 7.7 6.7 (2.5) (3.9)	4.9 5.7 4.1 (2.5) (3.9)	4.2 5.2 4.0 (2.5) (3.9)	29.1 28.4 15.7 (27.0) (10.5)	46.0 42.4 30.6 (44.4) (11.4)	815 2,891 4,607 36 12
Residence Urban Rural	28.7 34.1	18.9 19.4	6.1 7.7	4.4 5.0	4.0 4.7	20.6 22.1	33.5 38.3	3,625 4,737
Zone North Central North East North West South East South South South West	43.3 42.7 25.3 38.5 38.5 16.0	28.1 23.0 8.6 28.2 31.5 13.3	7.5 15.7 3.5 8.2 9.4 2.8	4.8 9.7 2.1 6.3 7.0 2.4	4.6 9.3 2.0 5.5 6.0 2.3	30.8 29.1 10.0 30.0 33.9 13.7	50.1 47.2 26.8 44.7 46.6 20.3	1,172 1,290 2,486 965 905 1,543
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Nijger Plateau	12.7 45.9 73.6 34.2 12.4 42.8 60.2	7.4 35.6 24.4 26.0 8.5 36.9 26.4	1.4 2.3 6.3 2.7 2.7 13.1 17.3	0.4 2.3 4.1 2.7 2.4 8.1 8.8	0.0 1.7 3.7 2.7 2.4 8.1 8.8	8.3 35.6 26.6 26.0 8.8 41.8 34.9	16.4 52.6 75.4 36.5 14.3 56.8 66.7	60 283 119 133 125 293 160
North East Adamawa Bauchi Borno Gombe Taraba Yobe	58.1 57.3 21.6 69.1 42.0 24.4	38.7 21.7 14.4 47.9 22.5 9.0	17.2 22.7 5.8 45.9 8.4 4.3	15.8 10.1 3.0 35.3 3.0 1.2	15.8 9.1 3.0 35.0 2.8 1.0	40.1 34.3 17.2 58.6 27.8 12.1	59.6 63.6 24.7 74.1 50.3 28.0	168 277 287 153 155 249
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	12.3 58.6 17.2 12.7 14.2 32.8 19.7	2.2 21.4 4.3 5.9 7.4 4.8 7.8	1.9 8.5 2.7 3.3 0.5 1.1 2.7	0.5 6.0 0.9 2.3 0.5 0.2	0.5 5.9 0.9 2.3 0.5 0.0	3.7 23.9 6.1 6.9 7.4 5.7 9.4	13.2 59.4 17.4 14.7 15.6 35.4 23.3	285 504 509 469 255 191 274
South East Abia Anambra Ebonyi Enugu Imo	29.8 46.9 44.4 21.0 37.8	26.0 28.1 41.5 16.6 24.7	3.9 6.0 15.6 5.7 8.2	1.2 5.0 12.5 5.7 5.6	0.8 4.8 10.6 4.7 5.0	28.7 29.1 44.7 16.6 27.3	38.8 53.2 53.9 22.9 42.2	118 298 199 143 207
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	30.1 29.0 35.4 48.8 59.0 33.1	31.5 27.4 20.7 27.0 37.4 36.6	14.9 5.5 2.1 7.6 8.6 10.8	12.0 2.6 1.2 3.8 7.7 8.6	8.4 2.2 0.9 3.8 7.7 8.0	34.4 30.4 21.6 30.8 38.3 38.8	41.9 37.4 39.4 49.5 60.3 47.1	176 68 102 163 112 284
South West Ekiti Lagos Ogun Ondo Osun Oyo	23.2 17.7 15.6 13.5 15.6 13.0	17.0 13.1 11.1 17.4 16.8 10.6	3.2 2.2 1.1 2.8 4.7 3.5	2.5 1.8 1.1 2.8 3.4 3.5	2.3 1.8 1.1 2.4 2.9 3.5	17.6 13.5 11.1 17.4 18.1 10.6	28.5 22.6 18.0 21.4 23.7 14.2	111 492 225 134 201 379
Marital status Married or living together Divorced/separated/widowed	30.9 44.6	18.1 35.5	6.6 13.3	4.3 11.1	4.0 10.3	20.4 37.7	35.4 49.2	7,847 515

Table 16.10—Continued								
Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical and sexual	Physical and sexual and emotional	Physical or sexual	Physical or sexual or emotional	Number of ever-married women
Number of living children								
0	27.4	11.0	8.1	3.7	3.6	15.3	31.8	549
1-2	29.7	18.7	6.8	4.5	4.1	21.1	34.1	2,729
3-4	33.8	20.8	6.1	4.4	4.2	22.5	38.4	2,527
5+	32.8	19.8	7.8	5.5	5.1	22.1	37.3	2,556
Employment								
Employed for cash	31.1	18.8	6.5	4.3	3.9	21.1	35.7	5,348
Employed not for cash	41.0	29.7	9.1	6.9	6.5	31.8	48.5	972
Not employed	29.0	15.1	7.2	4.8	4.7	17.5	31.6	2,042
Education								
No education	31.6	16.4	7.3	4.7	4.6	19.0	35.0	3,440
Primary	35.8	24.0	7.3	5.3	4.6	25.9	40.4	1,387
Secondary	32.7	22.5	7.6	5.3	4.9	24.8	38.7	2,740
More than secondary	22.0	11.6	3.0	1.9	1.6	12.7	25.6	794
Wealth quintile								
Lowest	32.8	15.9	8.5	5.2	5.0	19.2	36.4	1,552
Second	34.3	19.4	7.7	5.4	5.2	21.6	38.5	1,680
Middle	36.0	22.0	7.9	5.6	5.2	24.3	39.8	1,725
Fourth	32.0	22.0	6.9	4.6	4.1	24.2	37.5	1,710
Highest	23.6	16.3	4.1	2.7	2.6	17.7	28.9	1,694
Total	31.7	19.2	7.0	4.7	4.4	21.4	36.2	8,361

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

Table 16.11 Spousal violence by husband's characteristics and empowerment indicators

Percentage of ever-married women age 15-49 who have ever experienced emotional, physical, or sexual violence committed by their current or most recent husband/partner, according to the husband's characteristics and women's empowerment indicators, Nigeria DHS 2018

Background characteristic Husband's/partner's education No education	Emotional violence	Physical violence	Sexual	Physical and	sexual and	Physical or	sexual or	
education ¹			violence	sexual	emotional	sexual	emotional	ever-married women
No education	20.7	110	77	4.0	4.0	16.0	22.6	0.450
D.1	29.7	14.0	7.7	4.9	4.8	16.8	32.6	2,458
Primary	36.5	23.7	6.8	4.9	4.3	25.7	41.7	1,162
Secondary	32.6	21.9	6.5	4.5	4.3	23.9	38.3	2,844
More than secondary	24.7	12.3	4.3	2.1	1.7	14.6	28.6	1,264
Don't know/missing	26.9	18.7	7.9	4.8	4.4	21.7	32.9	118
Husband's/partner's alcohol consumption								
Does not drink alcohol	26.3	13.6	5.8	3.5	3.4	15.9	30.2	6,432
Drinks alcohol but is never								ŕ
drunk	39.4	25.7	5.6	3.5	2.7	27.9	45.7	521
Is sometimes drunk	46.9	35.9	10.1	8.3	7.6	37.7	53.6	1,090
Is often drunk	77.5	63.3	22.3	18.2	17.5	67.4	82.9	319
	77.0	00.0	22.0	10.2	11.0	07.1	02.0	0.10
Spousal education difference ¹ Husband better educated	32.5	19.3	6.4	4.1	3.7	21.6	37.1	2,880
Wife better educated	32.7	21.5	6.8	5.0	4.7	23.3	38.6	970
Both equally educated	28.9	19.3	5.5	3.5	3.2	21.3	34.3	1,670
Neither educated	29.9	14.0	7.6	4.9	4.8	16.7	32.7	2,155
Don't know/missing	26.2	17.9	6.4	4.9	3.9	20.1	31.5	2, 195 171
ŭ	20.2	17.9	0.4	4.1	3.9	20.1	31.3	171
Spousal age difference ¹	33.9	15.5	5.0	4.4	3.8	16.2	35.6	89
Wife in a second								
Wife is same age	25.7	12.4	2.0	1.1	0.7	13.3	27.9	98
Wife 1-4 years younger	31.1	21.5	5.6	4.0	3.4	23.1	37.0	1,360
Wife 5-9 years younger Wife 10 or more years younger	33.0 29.2	19.0 16.3	6.9 6.9	4.8 4.1	4.5 3.9	21.2 19.0	37.3 33.4	2,804 3,496
Number of marital control behaviours displayed by husband/partner ² 0	14.6	8.3	2.0	0.9	0.8	9.4	18.3	3.480
1-2	35.0	19.0	6.4	3.7	3.3	21.7	40.1	3,460 3,412
3-4	63.0	43.2	18.2	3.7 14.1	13.6	47.3	68.7	1,257
5	75.8	4 3.2 57.7	32.3	27.4	27.2	47.3 62.6	76.3	213
Number of decisions in which women participate ³	75.0	37.7	32.3	21.7	21.2	02.0	70.5	213
0	28.6	13.8	6.2	4.0	3.8	16.0	31.9	2,723
1-2	31.2	19.1	7.6	4.9	4.6	21.9	36.2	2,380
3	32.9	21.4	6.1	4.1	3.8	23.4	38.1	2,743
Number of reasons for which wife beating is justified ⁴								
0	29.7	18.0	6.2	4.3	4.0	19.9	33.7	5,952
1-2	40.9	25.5	10.8	7.3	6.9	29.0	47.5	711
3-4	38.3	26.8	9.0	6.4	6.2	29.3	46.3	708
5	32.8	16.5	7.5	4.4	3.7	19.6	36.2	990
Father beat mother								
Yes	58.8	42.0	14.3	10.9	10.3	45.4	65.5	827
No	27.7	15.7	5.5	3.6	3.3	17.6	31.7	7,110
Don't know/missing	46.7	33.4	17.2	11.5	11.0	39.1	54.4	425
Woman afraid of husband/partner								
Afraid most of the time	60.3	49.4	23.7	22.0	21.8	51.0	65.2	614
Sometimes afraid	38.7	21.3	7.8	4.8	4.4	24.4	43.1	3,556
Never afraid	21.6	12.9	3.9	2.1	1.9	14.6	26.1	4,190
Total	31.7	19.2	7.0	4.7	4.4	21.4	36.2	8,361

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women.

1 Includes only currently married women

2 According to the wife's report. See Table 16.8 for list of behaviours.

3 According to the wife's report. Includes only currently married women. See Table 15.9.1 for list of decisions.

4 According to the wife's report. See Table 15.10.1 for list of reasons.

Table 16.12 Violence by any husband/partner in the last 12 months

Percentage of ever-married women who experienced emotional, physical, or sexual violence by any husband/partner in the past 12 months, according to background characteristics, Nigeria DHS 2018

Background characteristic	Emotional violence	Physical violence	Sexual violence	Physical and sexual	Physical and sexual and emotional	Physical or sexual	Physical or sexual or emotional	Number of ever-married women
Age 15-19 20-24 25-29 30-39 40-49	17.4 29.4 30.9 27.9 21.7	9.4 15.5 13.8 12.1 7.9	7.4 8.5 4.3 4.3 2.7	4.2 4.6 2.6 2.6 1.5	3.8 4.3 2.4 2.5 1.3	12.6 19.4 15.5 13.8 9.0	21.4 33.6 33.1 30.6 23.8	453 1,139 1,720 3,149 1,900
Residence Urban Rural	22.8 29.7	10.5 12.8	4.1 5.1	2.5 2.9	2.2 2.8	12.1 15.0	25.1 32.8	3,625 4,737
Zone North Central North East North West South East South South South West	35.8 38.4 22.5 29.8 30.5 12.7	18.3 15.0 5.9 14.9 18.9 7.6	4.2 9.9 3.3 5.5 6.2 1.5	2.0 5.2 1.7 3.6 4.2 1.3	1.8 5.0 1.7 3.0 3.7 1.3	20.4 19.7 7.5 16.8 20.9 7.8	41.5 41.3 23.6 32.6 35.2 14.6	1,172 1,290 2,486 965 905 1,543
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	11.3 42.9 58.9 27.1 9.8 33.3 47.5	5.0 30.9 9.5 11.6 7.8 21.4 15.4	1.4 2.3 2.8 2.0 2.3 3.8 13.5	0.4 2.3 1.3 2.0 2.1 0.6 5.0	0.0 1.7 1.3 2.0 2.1 0.6 5.0	6.0 30.9 11.0 11.6 7.9 24.6 24.0	13.8 49.4 59.8 27.3 11.4 45.3 52.5	60 283 119 133 125 293 160
North East Adamawa Bauchi Borno Gombe Taraba Yobe	55.9 50.2 18.9 66.6 32.7 22.1	32.2 14.6 11.0 25.6 13.2 3.0	11.0 17.0 4.1 24.1 3.5 3.2	11.0 6.9 1.3 14.1 0.9 1.1	11.0 6.3 1.3 13.9 0.9 0.9	32.2 24.7 13.7 35.6 15.8 5.1	55.9 56.2 21.2 69.2 37.1 23.7	168 277 287 153 155 249
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	9.7 53.3 14.2 10.8 13.4 30.3 17.7	1.8 13.8 2.7 3.9 7.2 1.8 6.9	1.0 7.9 2.5 3.3 0.5 0.8 2.7	0.0 5.3 0.4 2.3 0.5 0.0	0.0 5.1 0.4 2.3 0.5 0.0	2.8 16.4 4.8 5.0 7.2 2.6 8.8	10.2 54.4 14.7 11.2 14.9 30.8 21.6	285 504 509 469 255 191 274
South East Abia Anambra Ebonyi Enugu Imo	28.0 35.2 29.3 13.2 35.1	20.3 12.8 18.5 8.8 15.8	1.4 3.3 10.1 3.9 7.8	0.4 2.5 6.7 3.9 3.9	0.4 2.1 5.7 2.9 3.3	21.3 13.6 21.8 8.8 19.6	33.7 37.4 33.1 14.1 37.5	118 298 199 143 207
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	24.2 27.4 27.0 39.4 41.1 27.1	22.9 26.6 12.6 11.8 21.6 20.0	11.7 5.5 0.9 4.8 6.1 5.8	8.3 2.6 0.0 1.0 5.2 5.1	7.3 2.2 0.0 1.0 4.5 4.4	26.2 29.6 13.4 15.6 22.5 20.6	34.8 35.3 30.4 40.6 42.8 31.1	176 68 102 163 112 284
South West Ekiti Lagos Ogun Ondo Osun Oyo	15.6 13.8 12.6 10.3 14.2 10.6	11.0 4.5 5.5 8.5 14.8 7.6	2.2 0.1 0.0 2.1 3.9 2.6	1.9 0.1 0.0 1.7 2.6 2.6	1.3 0.1 0.0 1.7 2.6 2.6	11.4 4.5 5.5 8.9 16.1 7.6	19.0 15.1 12.6 13.2 21.3 10.8	111 492 225 134 201 379
Education No education Primary Secondary More than secondary	27.6 27.8 27.2 19.2	10.3 13.7 14.4 5.9	4.9 4.5 5.5 1.3	2.5 3.2 3.4 0.4	2.4 2.8 3.1 0.4	12.7 15.0 16.4 6.8	30.3 30.4 30.6 20.7	3,440 1,387 2,740 794
Wealth quintile Lowest Second Middle Fourth Highest	28.8 29.5 30.1 26.4 19.1	10.1 12.6 14.3 13.8 8.1	6.2 5.4 5.1 4.8 2.1	2.8 3.4 3.2 3.1 1.1	2.6 3.2 3.0 2.8 1.0	13.5 14.6 16.1 15.5 9.1	31.6 32.8 32.8 29.5 20.7	1,552 1,680 1,725 1,710 1,694
Total	26.7	11.8	4.7	2.7	2.5	13.8	29.5	8,361

Note: Any husband/partner includes all current, most recent, and former husbands/partners.

Table 16.13 Experience of spousal violence by duration of marriage

Among currently married women age 15-49 who have been married only once, percentage who first experienced physical or sexual violence committed by their current husband/partner by specific exact years since marriage, according to marital duration, Nigeria DHS 2018

Years since marriage		Percentage who first experienced spousal physical or sexual Perc violence by exact marital duration				
	Before marriage	2 years	5 years	10 years	experienced sexual or physical violence	women who have been married only once
<2	0.3	na	na	na	88.0	492
2-4	1.5	11.5	na	na	81.7	1,019
5-9	1.6	9.2	19.5	na	77.7	1,628
10+	0.9	6.1	13.6	17.9	79.1	3,869
Total	1.1	7.9	15.3	18.4	79.8	7,009

Table 16.14 Injuries to women due to spousal violence

Among ever-married women age 15-49 who have experienced violence committed by their current or most recent husband/partner, percentage who have been injured as a result of the violence, by types of injuries, according to type of violence, Nigeria DHS 2018

Type of violence experienced	Cuts, bruises, or aches	Eye injuries, sprains, dislocations, or burns	Deep wounds, broken bones, broken teeth, or any other serious injury	Any of these injuries	Number of ever- married women who have experienced physical or sexual violence
Physical violence ¹					
Ever ²	28.2	11.2	9.4	31.4	1,603
Past 12 months	29.7	13.6	10.2	33.4	982
Sexual violence					
Ever ²	32.8	12.6	13.5	36.8	585
Past 12 months	31.8	12.7	10.9	33.8	389
Physical or sexual violence ¹					
Ever ²	26.0	10.0	8.5	29.1	1,793
Past 12 months	27.0	12.1	9.1	30.1	1,146

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women

separated, or widowed women.

1 Excludes women who reported violence only in response to a direct question on violence during pregnancy

² Includes in the past 12 months

Table 16.15 Violence by women against their husband by women's background characteristics

Percentage of ever-married women who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to women's own experience of spousal violence and background characteristics, Nigeria DHS 2018

characteristic Ever Past 12 months womer Women's experience of spousal physical violence violence violence Ever 10,7 10,7 1,603 1,603 In the past 12 months 13,5 11,6 982 Never 0,4 0,2 6,758 Age 15-19 2,0 1,9 453 25-29 2,0 1,5 1,720 30-39 2,9 2,0 3,149 40-49 2,0 2,2 2,0 3,149 40-49 2,0 1,2 1,900 Religion Catholic 3,2 2,0 815 Other Christian 4,0 2,8 2,891 Islam 1,3 1,0 4,807 Teaditionalist (0,3) (0,3) 36 2,891 Islam 1,3 1,0 4,802 4,81 Revidence Urban 2,1 1,4 3,625 Worth Central 1,9 1,3		physical viol	e who committed ence against their and/partner	Number of
violence Ever' 10.7 7.9 1,60 982 Never 0.4 0.2 6,758 Never 0.4 0.2 6,758 Age 15-19 2.0 1.9 453 20-24 2.6 1.9 1,139 25-29 2.0 1.5 1,720 30-39 2.9 2.0 1,24 1,900 Religion Catholic 3.2 2.0 1,24 1,900 Religion Catholic 3.2 2.0 815 1,720 3.0 3.1 40,49 2.8 2,891 3.1 1,00 40,49 2.2 2.0 3,149 40,49 2.0 1,2 1,900 Religion Catholic 3.2 2.0 815 1,900 40,49 2.2 2.0 3,149 40,49 2.2 1,15 1,170 1,19 1,1 3,12 1,17 1,19 1,2 3,1 1,2 1,2 1,2 <th></th> <th>Ever¹</th> <th>Past 12 months</th> <th>ever-married women</th>		Ever ¹	Past 12 months	ever-married women
Ever				
Age 15-19 2.0 1.9 453 20-24 2.6 1.9 1,139 25-29 2.0 1.5 1,720 30-39 2.9 2.0 3,149 40-49 2.0 1.2 1,900 Religion Catholic 3.2 2.0 815 Other Christian 4.0 2.8 2.89 Islam 1.3 1.0 4,607 Traditionalist (0.3) (0.3) (0.3) 3.3 Other Christian 4.0 2.8 2.89 Islam 1.3 1.0 4,607 Traditionalist (0.3) (0.3) (0.3) 3.3 36 Other Christian 1.3 1.0 4,607 4,607 4 4.737 4.737 200 4 7.37 200 2.1 1.4 3,625 5.1 3.7 1,220 Noth Christian 5.5 3.4 9.05 5.0 4 4,288 <t< td=""><td></td><td>10.7</td><td>7.9</td><td>1,603</td></t<>		10.7	7.9	1,603
Age 15-19	In the past 12 months			
15-19 2.0 1.9 453 20-24 2.6 1.9 1.138 25-29 2.0 1.5 1.720 30-39 2.9 2.0 3.149 40-49 2.0 1.2 1.900 Religion Catholic 3.2 2.0 815 Other Christian 4.0 2.8 2.891 Islam 1.3 1.0 4.607 Traditionalist (0.3) (0.3) (0.3) Other (0.0) (0.0) (0.0) 12 Residence Urban 2.1 1.4 3.625 Rural 2.6 1.9 4.737 Zone Worth Central 1.9 1.3 1.172 North Central 1.9 1.3 1.172 North Central 1.9 1.3 1.172 FCT-Abuja 1.6 1.4 60 Benue 3.2 1.7	Never	0.4	0.2	6,758
20-24 2.6 1.9 1.139 2.5-29 2.0 1.5 1.720 30-39 2.9 2.0 3.149 40-49 2.0 1.2 1.900 3.149 40-49 2.0 3.2 2.0 3.149 40-49 3.2 2.0 3.149 40-49 3.2 2.0 3.149 40-49 3.2 2.0 815 0.164 0.164 0.2 8 2.891 1.818m 3.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.3 1.0 4.607 1.0 4.0			4.0	4=0
25-29 2.0 1.5 1,720 30-39 2.9 2.0 3.148 40-49 2.0 1.2 1,900 Religion Catholic 3.2 2.0 815 Other Christian 4.0 2.8 2,891 Islaam 1.3 1.0 4,607 Traditionalist (0.3) (0.3) 36 Other (0.0) (0.0) (0.0) 12 Residence Urban 2.1 1.4 3,625 Rural 2.6 1.9 4,737 Zone North Central 1.9 1.3 1,172 North Central 1.9 1.3 1,172 North Central 1.9 1.3 1,172 State 3.4 2.7 965 South South 5.5 3.4 9.05 South South 5.5 3.4 9.05 State North Central 1.6				
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Other Christian Islam 4.0 2.8 2.891 Islam Islam 1.3 1.0 4.607 Traditionalist (0.3) (0.3) 3.6 Other (0.0) (0.0) 12 Residence Urban 2.1 1.4 3.625 Rural 2.6 1.9 4.737 Zone North Central 1.9 1.3 1,172 North East 5.1 3.7 1,290 North West 0.5 0.4 2,486 South South 5.5 3.4 905 South West 1.2 0.9 1,543 State North Central 1.6 1.4 60 Benue 3.2 1.7 283 Kogi 2.1 1.7 119 Kwara 0.6 0.3 133 Nasarawa 1.9 1.7 125 Niger 0.7 0.4 293	Religion			
Islam				
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Combor Combo Com				
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Urban 2.1	Residence			
North Central 1.9	Urban			
North Central North East North West South East South South South West South East Adamawa South East Adamawa South East Adamawa South West South West South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South West Jigawa South East Abia Anambra South East Abia Anambra South East Abia Anambra Ana	Rural	2.6	1.9	
North East 5.1 3.7 1,290 North West 0.5 0.4 2,486 South South East 3.4 2.7 965 South South 5.5 3.4 905 South West 1.2 0.9 1,543 State North Central FCT-Abuja 1.6 1.4 60 Benue 3.2 1.7 283 Kogi 2.1 1.7 119 Kwara 0.6 0.3 133 Nasarawa 1.9 1.7 125 Niger 0.7 0.4 293 Plateau 3.1 2.2 160 North East Adamawa 14.6 14.6 14.6 168 Bauchi 3.1 2.1 277 Borno 2.1 1.5 287 Gombe 12.7 4.9 153 Taraba 3.6 2.7 155 Yobe 0.5 0.5 249 North West Jigawa 0.0 0.0 285 Kaduna 1.3 1.1 504 Kano 0.7 0.5 509 Katsina 0.3 0.3 469 Kebbi 0.0 0.0 0.0 255 Sokoto 0.0 0.0 255 Sokoto 0.0 0.0 0.0 255 Sokoto 0.0 0.0 255 Sokoto 0.0 0.0 0.0 255 Sokoto 0.0 0.0 255 Sokoto 0.0 0.0 255 Sokoto 0.0 0.0 0.0 255 Sokoto 0.0 0.0 0.0 255 Sokoto 0.0 0.0 255 Sokoto 0.0 0.0 0.0 255 So				
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North Central FCT-Abuja 1.6	South West	1.2	0.9	1,543
FCT-Abuja 1.6 1.4 60 Benue 3.2 1.7 283 Kogi 2.1 1.7 119 Kwara 0.6 0.3 133 Nasarawa 1.9 1.7 125 Niger 0.7 0.4 293 Plateau 3.1 2.2 160 North East Adamawa 14.6 14.6 168 Bauchi 3.1 2.1 2.7 Borno 2.1 1.5 287 Gombe 12.7 4.9 153 Taraba 3.6 2.7 155 Yobe 0.5 0.5 249 North West Jigawa 0.0 0.0 285 Kaduna 1.3 1.1 504 Kano 0.7 0.5 509 Katsina 0.3 0.3 23 Kebbi 0.0 0.0 255 Sokoto 0.0 0.0	State			
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Niger Plateau 0.7 0.4 293 Plateau North East Adamawa 14.6 14.6 168 Plateau Adamawa 14.6 14.6 168 Plateau Bauchi 3.1 2.1 277 Plateau Borno 2.1 1.5 287 Plateau Gombe 12.7 4.9 153 Plateau Taraba 3.6 2.7 155 Plateau Yobe 0.5 0.5 249 Plateau North West Jigawa 0.0 0.0 285 Plateau Kaduna 1.3 1.1 504 Plateau Kano 0.7 0.5 509 Plateau Katsina 0.3 0.3 469 Plateau Kebbi 0.0 0.0 0.0 255 Plateau Sokoto 0.0 0.0 0.0 191 Plateau Zamfara 0.3 0.3 274 Plateau South East 4.9 4.4 118 Plateau Anambra 1.7 0.9 298 Plateau Ebonyi 8.1 7.0 199 Plateau Enugu <				
Plateau 3.1 2.2 160 North East Adamawa 14.6 14.6 168 Bauchi 3.1 2.1 277 Borno 2.1 1.5 287 Gombe 12.7 4.9 153 Taraba 3.6 2.7 155 Yobe 0.5 0.5 249 North West Jigawa 0.0 0.0 285 Kaduna 1.3 1.1 504 Kano 0.7 0.5 509 Katsina 0.3 0.3 469 Kebbi 0.0 0.0 255 Sokoto 0.0 0.0 191 Zamfara 0.3 0.3 274 South East Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
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Bauchi 3.1 2.1 277 Borno 2.1 1.5 287 Gombe 12.7 4.9 153 Taraba 3.6 2.7 155 Yobe 0.5 0.5 249 North West Use of the colspan="2">Use		44.0	44.0	400
Borno 2.1 1.5 287 Gombe 12.7 4.9 153 Taraba 3.6 2.7 155 Yobe 0.5 0.5 249 North West Staduna 0.0 0.0 285 Kaduna 1.3 1.1 504 Kano 0.7 0.5 509 Katsina 0.3 0.3 469 Kebbi 0.0 0.0 0.0 255 Sokoto 0.0 0.0 0.0 191 Zamfara 0.3 0.3 274 South East Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
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North West Jigawa 0.0 0.0 285 Kaduna 1.3 1.1 504 Kano 0.7 0.5 509 Katsina 0.3 0.3 469 Kebbi 0.0 0.0 0.0 255 Sokoto 0.0 0.0 0.0 191 Zamfara 0.3 0.3 274 South East Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 1.0 1.0 0.6 207 South South Akwa Ibom Akwa Ibom Akwa Ibom Bayelsa Cross River 3.8 0.0 0.0 0.0 0.0 1.0 0.0 255 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0				
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Kaduna 1.3 1.1 504 Kano 0.7 0.5 509 Katsina 0.3 0.3 469 Kebbi 0.0 0.0 255 Sokoto 0.0 0.0 191 Zamfara 0.3 0.3 274 South East 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102	l'	0.0	0.0	205
Kano 0.7 0.5 509 Katsina 0.3 0.3 469 Kebbi 0.0 0.0 0.0 191 Zamfara 0.3 0.3 274 South East Xouth East Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
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Zamfara 0.3 0.3 274 South East Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
South East Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
Abia 4.9 4.4 118 Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102		0.0	0.0	-···
Anambra 1.7 0.9 298 Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102		4.9	4.4	118
Ebonyi 8.1 7.0 199 Enugu 3.0 2.1 143 Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102		1.7		
Imo 1.0 0.6 207 South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
South South Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102				
Akwa Ibom 4.6 2.0 176 Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102		1.0	0.0	201
Bayelsa 5.0 5.0 68 Cross River 3.8 2.3 102		4.6	2.0	176
Cross River 3.8 2.3 102				
B #				102
	Delta	7.2	2.4	163
Edo 3.1 3.1 112 Rivers 6.9 5.1 284				112

Table 16.15—Continued				
	physical viole	who committed ence against their and/partner	Number of	
Background characteristic	Ever ¹	Past 12 months	ever-married women	
South West Ekiti Lagos Ogun Ondo Osun Oyo	0.9 0.6 1.0 2.0 0.9 2.0	0.6 0.0 1.0 1.3 0.6 2.0	111 492 225 134 201 379	
Marital status Married or living together Divorced/separated/widowed	2.3 4.6	1.6 3.2	7,847 515	
Employment Employed for cash Employed not for cash Not employed	2.4 4.3 1.6	1.7 2.7 1.2	5,348 972 2,042	
Number of living children 0 1-2 3-4 5+	2.7 2.7 2.1 2.4	2.2 1.8 1.5 1.7	549 2,729 2,527 2,556	
Education No education Primary Secondary More than secondary	1.8 3.0 3.3 1.2	1.3 2.1 2.3 0.6	3,440 1,387 2,740 794	
Wealth quintile Lowest Second Middle Fourth Highest	2.0 2.2 3.7 2.4 1.7	1.7 1.1 2.7 2.1 1.0	1,552 1,680 1,725 1,710 1,694 8,361	

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women. Figures in parentheses are based on 25-49 unweighted cases.

¹ Includes in the past 12 months

Table 16.16 Violence by women against their husband by husband's characteristics and empowerment indicators

Percentage of ever-married women who have committed physical violence against their current or most recent husband/partner when he was not already beating or physically hurting them, ever and in the past 12 months, according to their husband's characteristics and women's empowerment indicators, Nigeria DHS 2018

	Percentage v physical vio their husb	_ Number of	
Background characteristic	Ever ¹	Past 12 months	ever-married women
Husband's/partner's education ²			
No education	1.6	1.3	2,458
Primary	3.2	2.0	1,162
Secondary	2.8	1.9	2,844
More than secondary Don't know/missing	1.7 0.0	1.4 0.0	1,264 118
Husband's/partner's alcohol consumption			
Does not drink alcohol	1.2	8.0	6,432
Drinks alcohol but is never drunk	3.2	2.3	521
Is sometimes drunk	6.3	4.1	1,090
Is often drunk	13.1	11.6	319
Spousal education difference ²			
Husband better educated	2.6	1.8	2,880
Wife better educated	3.1	2.3	970
Both equally educated	2.4	1.6	1,670
Neither educated	1.5	1.1	2,155
Don't know/missing	0.4	0.4	171
Spousal age difference ²			
Wife older	0.4	0.4	89
Wife is same age	3.1	2.8	98
Wife 1-4 years younger	2.4	1.9	1,360
Wife 5-9 years younger Wife 10 or more years younger	2.6 2.0	1.7 1.4	2,804 3,496
Number of marital control behaviours	2.0	1.4	3,490
displayed by husband/partner ³			
0	0.6	0.3	3,480
1-2	1.8	1.3	3,412
3-4 5	7.4 12.3	5.4 9.3	1,257 213
5	12.3	9.3	213
Number of decisions in which women participate ⁴			
0	1.7	1.3	2,723
1-2	2.2	1.5	2,380
3	2.9	2.0	2,743
Number of reasons for which wife beating is justified ⁵			
0	2.4	1.8	5,952
1-2	4.5	2.7	711
3-4	1.6	0.8	708
5	1.6	0.9	990
Father beat mother	0.0	0.0	007
Yes No	8.6 1.5	6.3 1.1	827 7,110
No Don't know/missing	5.0	3.1	7,110 425
Woman afraid of husband/partner			
Afraid most of the time	8.6	6.5	614
Sometimes afraid	2.6	1.9	3,556
Never afraid	1.4	0.9	4,190
Total	2.4	1.7	8,361

Note: Husband/partner refers to the current husband/partner for currently married women and the most recent husband/partner for divorced, separated, or widowed women.

¹ Includes in the past 12 months

² Includes only currently married women

According to the wife's report. See Table 16.8 for list of behaviours.
 According to the wife's report. Includes only currently married women. See Table 15.9.1 for list of decisions.

⁵ According to the wife's report. See Table 15.10.1 for list of reasons.

Table 16.17 Help seeking to stop violence

Percent distribution of women age 15-49 who have ever experienced physical or sexual violence by their help-seeking behaviour, according to type of violence and background characteristics, Nigeria DHS 2018

Type of violence/ background characteristic	Sought help to stop violence	Never sought help but told someone	Never sought help, never told anyone	Total	Number of women who have ever experienced any physical or sexual violence
Type of violence experienced Physical only Sexual only Both physical and sexual	29.9 26.4 39.5	12.5 15.5 17.7	57.5 58.1 42.8	100.0 100.0 100.0	2,586 257 719
Age 15-19 20-24 25-29 30-39 40-49	29.7 30.7 30.2 33.4 32.6	12.8 12.2 12.6 14.5 16.4	57.5 57.1 57.1 52.1 51.0	100.0 100.0 100.0 100.0 100.0	649 565 636 1,135 577
Religion Catholic Other Christian Islam Traditionalist Other	37.1 34.3 26.1	10.0 12.7 16.7	53.0 53.0 57.2 *	100.0 100.0 100.0 100.0 100.0	462 1,757 1,328 14 2
Residence Urban Rural	31.7 31.5	13.1 14.4	55.2 54.1	100.0 100.0	1,706 1,856
Zone North Central North East North West South East South South South West	21.2 32.1 27.9 45.7 46.5 17.6	12.9 18.7 21.5 9.1 13.6 8.8	66.0 49.1 50.6 45.2 39.9 73.6	100.0 100.0 100.0 100.0 100.0 100.0	696 682 384 517 654 629
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	11.3 27.1 27.6 14.3 46.3 17.9 12.5	15.2 5.9 15.0 20.6 8.9 20.5 3.3	73.5 66.9 57.5 65.1 44.9 61.6 84.1	100.0 100.0 100.0 100.0 100.0 100.0 100.0	30 182 69 78 34 202
North East Adamawa Bauchi Borno Gombe Taraba Yobe	35.8 16.4 58.2 32.4 23.7 (16.6)	28.2 9.7 17.1 26.2 14.7 (24.4)	36.0 73.8 24.7 41.3 61.7 (58.9)	100.0 100.0 100.0 100.0 100.0 100.0	100 136 140 116 148 43
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	28.6 (52.4) (21.4) (11.8)	18.9 (20.2) (35.6) (9.3)	52.5 (27.4) (42.9) (78.8)	100.0 100.0 100.0 100.0 100.0 100.0 100.0	22 187 46 58 25 20 26
South East Abia Anambra Ebonyi Enugu Imo	40.9 33.8 61.9 (33.4) 46.4	16.1 4.3 0.8 (24.5) 15.0	43.0 61.9 37.4 (42.1) 38.6	100.0 100.0 100.0 100.0 100.0	61 137 147 44 128
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	38.8 7.5 47.6 57.8 64.2 44.4	14.3 10.1 7.2 9.5 4.3 19.5	47.0 82.3 45.2 32.7 31.5 36.2	100.0 100.0 100.0 100.0 100.0 100.0	121 28 59 84 91 271

Table 16.17—Continued					
Type of violence/ background characteristic	Sought help to stop violence	Never sought help but told someone	Never sought help, never told anyone	Total	Number of women who have ever experienced any physical or sexual violence
South West					
Ekiti Lagos Ogun Ondo Osun Oyo	36.2 16.6 7.9 28.1 16.4 22.2	4.6 14.1 3.3 10.1 2.3 14.8	59.2 69.3 88.8 61.8 81.3 63.0	100.0 100.0 100.0 100.0 100.0 100.0	46 210 145 55 100 73
Marital status					
Never married Married or living together Divorced/separated/widowed	26.5 31.4 50.2	15.2 13.6 10.9	58.2 55.0 38.9	100.0 100.0 100.0	890 2,410 262
Number of living children					
0 1-2 3-4 5+	27.5 32.4 34.2 32.8	14.0 12.5 14.8 14.1	58.5 55.1 50.9 53.1	100.0 100.0 100.0 100.0	955 1,003 836 769
Employment					
Employed for cash Employed not for cash Not employed	32.9 31.2 28.7	13.6 11.3 16.1	53.5 57.5 55.2	100.0 100.0 100.0	2,068 620 875
Education					
No education Primary Secondary More than secondary	28.9 34.5 32.2 30.7	16.5 10.3 14.1 11.4	54.6 55.2 53.7 57.9	100.0 100.0 100.0 100.0	904 608 1,667 384
Wealth quintile					
Lowest Second Middle Fourth Highest	28.7 32.5 32.8 35.7 27.5	15.0 13.7 13.5 11.3 15.8	56.3 53.8 53.7 53.0 56.7	100.0 100.0 100.0 100.0 100.0	445 624 773 838 882

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

54.6

100.0

3,562

13.8

Table 16.18 Sources for help to stop the violence

31.6

Percentage of women age 15-49 who have experienced physical or sexual violence and sought help by sources from which they sought help, according to the type of violence that women reported, Nigeria DHS 2018

	erienced	Physical or		
Source	Physical only	Sexual only	Both physical and sexual	sexual violence
Own family	74.0	82.5	68.3	73.1
Husband/partner's family	27.6	5.7	25.6	25.8
Husband/partner	1.3	1.3	2.4	1.6
Boyfriend	11.5	5.6	12.0	11.3
Friend	11.2	5.6	12.0	11.0
Neighbour	9.7	7.7	2.8	7.8
Religious leader	2.1	1.4	8.3	3.6
Doctor/medical personnel	0.4	0.0	1.9	0.8
Police	0.5	7.4	0.9	1.0
Lawyer	0.0	0.0	1.9	0.5
Social work organisation	0.1	0.0	0.0	0.1
Other	1.1	0.0	0.4	0.9
Number of women who have				
sought help	774	68	284	1,126

Note: Women can report more than one source from which they sought help.

Total

Key Findings

- Disability by domain: 7% of household members age 5 or above have some level of difficulty in at least one functional domain, while 1% have a lot of difficulty or cannot function at all in at least one domain.
- Disability by age: The proportion of household members who have difficulty in each domain generally rises with increasing age. For instance, 1% of household members below age 40 have a lot of difficulty or cannot function at all in at least one domain, as compared with 9% of those age 60 and above.
- Disability by marital status: Widowed women and men are more likely to have difficulty in each of the domains than their counterparts in the other marital status categories. For example, 30% of women and 37% of men who are widowed have difficulty in seeing, while 19% of widowed women and 20% of widowed men have difficulty in walking or climbing steps.

he 2018 NDHS included The DHS Program's disability module, a series of questions based on the Washington Group on Disability Statistics (WG) questions, which in turn are based on the framework of the World Health Organization's International Classification of Functioning, Disability, and Health. The questions address six core functional domains—seeing, hearing, communication, cognition, walking, and self-care—and provide basic necessary information on disability comparable to that being collected worldwide via the WG disability tools. Nigeria has passed into law the Discrimination Against Persons with Disability (Prohibition) Act 2018, which states, among other things, that an individual with a disability shall not be discriminated against on the grounds of his or her disability by any person or institution in any manner or circumstance. This act provides for full integration of persons with disabilities into society, establishes the National Commission for Persons with Disabilities, and vests that commission with responsibilities for the education, health care, and social, economic, and civil rights of persons with disabilities (Human Rights Watch 2019).

17.1 DISABILITY BY DOMAIN AND AGE

The respondent to the Household Questionnaire provided information for all household members and visitors on whether they had no difficulty, some difficulty, a lot of difficulty, or no ability at all in the specified domain. The results, based on more than 101,000 people, are presented in **Table 17.1** for the de facto household population age 5 and older.

Functional domains

Seeing, hearing, communicating, remembering or concentrating, walking or climbing steps, and washing all over or dressing.

Sample: De facto household population age 5 or above

More than 9 in 10 (92%) de facto household members age 5 or older have no difficulty in any of the functional domains. Seven percent have some level of difficulty in at least one domain (**Figure 17.1**), while 1% either have a lot of difficulty or cannot function at all in at least one domain.

One-third of the population age 60 or older is reported to have some difficulty in at least one domain, while 7% have a lot of difficulty in at least one domain. Disability generally rises with increasing age. For instance, 1% of household members below age 40 have a lot of difficulty or cannot function at all in at least one domain, as compared with 9% of those age 60 and above.

Percent distribution of de facto household population age 5 and over

No difficulty 92%

A lot of difficulty 1%

Cannot do at all <1%

17.2 DISABILITY AMONG ADULTS BY OTHER BACKGROUND CHARACTERISTICS

Functional domains

Seeing, hearing, communicating, remembering or concentrating, walking or climbing steps, and washing all over or dressing.

Sample: De facto household population age 15 or above

Tables 17.2.1 and **17.2.2** present disability data for de facto household members age 15 and older by background characteristics. Eighty-nine percent of women and 88% of men have no difficulty in any domain. Eight percent of women and 9% of men have difficulty seeing, the most prominent type of difficulty in the population. Overall, 9% of women and 10% of men have some difficulty in at least one domain (**Figure 17.2**).

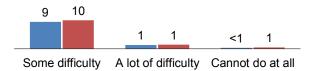
Figure 17.2 Level of difficulty in at least one domain

Percent distribution of women and men age 15 and above

Women Men

Patterns by background characteristics

The data show that 30% of widowed women and 37% of widowed men have difficulty seeing. Thirty-one percent of widowed women and 35% of widowed men have some difficulty in at least one domain (**Tables 17.2.1** and **17.2.2**).



- Sixteen percent of women in the South South have difficulty seeing, while 17% have some difficulty in at least one domain, the highest percentage among the zones.
- Women in Imo (29%) and Akwa Ibom (24%) are most likely to have difficulty seeing. Similarly, 19% of men in Imo and 17% each in Cross River and Ondo have difficulty seeing.

- Women with more than a secondary education (13%) are more likely to have difficulty seeing than women at other educational levels (6%-10%). By contrast, women with more than a secondary education are least likely to have difficulty hearing.
- Women in the highest wealth quintile are more likely to have difficulty seeing (11%) than those in the lowest wealth quintile (5%).
- Five percent of women in Enugu, Imo, Bayelsa, and Cross River have a lot of difficulty in at least one domain or cannot function at all, a percentage that is higher than among the other states and higher than the national average. The percentage of men who have a lot of difficulty in at least one domain or cannot function at all is highest in Enugu (Tables 17.2.1 and 17.2.2).

LIST OF TABLES

For more information on disability, see the following tables:

- Table 17.1 Disability by domain and age
- Table 17.2.1 Disability among adults according to background characteristics: Women
- Table 17.2.2 Disability among adults according to background characteristics: Men

Table 17.1 Disability by domain and age

Percent distribution of the de facto household population age 5 and over by degree of difficulty in functioning according to domain, and percent distribution by highest degree of difficulty in functioning in at least one domain by age, Nigeria DHS 2018

			Degree o	of difficulty			A lot of		
Domain and age	No difficulty	Some difficulty	A lot of difficulty	Cannot do at all	Don't know/ missing	Total	difficulty or cannot do at all	Number of persons	
Domain									
Difficulty seeing	94.3	5.1	0.5	0.1	0.0	100.0	0.5	101,481	
Difficulty hearing	98.7	1.1	0.1	0.1	0.0	100.0	0.2	101,481	
Difficulty communicating Difficulty remembering or	99.0	8.0	0.1	0.1	0.0	100.0	0.2	101,481	
concentrating	99.1	0.7	0.2	0.0	0.0	100.0	0.2	101,481	
Difficulty walking or climbing steps Difficulty washing all over or	97.6	1.9	0.4	0.1	0.0	100.0	0.5	101,481	
dressing	98.6	1.0	0.2	0.2	0.0	100.0	0.4	101,481	
Difficulty in at least one domain ¹									
5-9	97.9	1.4	0.2	0.5	0.0	100.0	0.6	19,505	
10-14	97.7	1.8	0.3	0.1	0.0	100.0	0.4	14,735	
15-19	96.8	2.7	0.3	0.2	0.0	100.0	0.5	11,544	
20-29	96.6	2.9	0.2	0.3	0.0	100.0	0.5	16,995	
30-39	94.5	4.8	0.5	0.2	0.0	100.0	0.7	14,551	
40-49	87.2	11.6	0.9	0.3	0.0	100.0	1.1	9,742	
50-59	77.5	20.0	2.1	0.4	0.0	100.0	2.5	6,940	
60+	58.3	32.8	7.2	1.8	0.0	100.0	9.0	7,451	
Age 15 and over	88.6	9.6	1.3	0.4	0.0	100.0	1.8	67,223	
Total	91.7	6.9	1.0	0.4	0.0	100.0	1.4	101,481	

Note: Total includes 19 persons with missing information on status of difficulty in at least one domain.

¹ If a person was reported to have difficulty in more than one domain, only the highest level of difficulty is shown.

Table 17.2.1 Disability among adults according to background characteristics: Women

Percentage of de facto female household members age 15 and over who have difficulty in functioning according to domain, and by highest degree of difficulty in at least one domain, and percentage who have a lot of difficulty or cannot function at all in more than one domain, according to background characteristics, Nigeria DHS 2018

				Do	main			Difficu	ulty in at le	ast one do	omain ¹	A lot of difficulty or cannot	
Background characteristic	No difficulty in any domain	Seeing	Hearing	Com- muni- cating	Remem- bering or concen- trating	Walking or climbing steps	Washing all over or dressing	Some difficulty	A lot of difficulty	Cannot do at all	A lot of difficulty or cannot do at all	function at all in more than one domain	Number of women
Marital status Never married	95.3	2.9	0.8	0.8	0.4	0.8	0.4	4.0	0.5	0.2	0.7	0.2	7,180
Married/living together Divorced or	91.5	6.1	1.1	0.7	0.7	2.1	0.9	7.6	0.7	0.2	0.9	0.3	22,793
separated Widowed	83.3 60.4	11.8 29.6	2.7 7.2	1.7 4.6	1.7 7.1	4.3 19.3	1.8 11.5	13.7 31.4	2.2 6.8	0.7 1.3	3.0 8.2	0.6 2.5	825 3,424
Residence Urban Rural	88.3 89.6	8.8 7.2	1.3 2.0	0.9 1.3	1.1 1.4	3.5 3.7	1.9 1.9	10.3 8.6	1.2 1.4	0.2 0.4	1.4 1.8	0.4 0.6	15,682 18,540
Zone													
North Central	90.1	6.7	1.7	1.3	1.8	3.2	2.0	8.6	0.9	0.3	1.3	0.5	4,703
North East	89.4	7.1	2.8	1.3	1.1	2.9	1.1	8.7	1.6	0.3	1.9	0.3	5,400
North West South East	94.2 83.0	2.8 14.4	1.4 1.9	0.9 1.1	0.8 1.6	2.7 4.7	1.6 2.5	4.4 14.4	0.9 2.1	0.5 0.4	1.4 2.6	0.6 0.7	9,755 4,347
South South	80.4	15.5	2.5	1.8	2.6	6.7	3.0	17.1	2.3	0.4	2.6	0.7	3,968
South West	89.2	8.1	0.7	0.7	0.6	3.3	1.8	10.0	0.7	0.1	0.8	0.2	6,049
State													
North Central FCT-Abuja	88.7	10.4	0.7	0.1	0.0	0.5	0.5	11.0	0.3	0.0	0.3	0.0	233
Benue	88.8	7.6	2.6	3.0	3.6	3.6	2.9	9.7	0.9	0.6	1.5	0.7	1,034
Kogi	87.1	8.6	2.0	0.5	1.5	3.4	1.2	11.5	1.3	0.1	1.4	0.2	567
Kwara	89.8	5.8	1.5	8.0	1.9	5.4	3.5	8.6	1.1	0.4	1.6	8.0	588
Nasarawa	89.8	8.1	2.2	0.9	8.0	1.7	0.6	8.3	1.3	0.5	1.9	0.5	494
Niger Plateau	96.6 86.3	2.3 9.1	0.3 2.3	0.7 1.7	0.0 3.1	0.9 5.7	0.7 3.5	3.2 11.8	0.2 1.5	0.0 0.4	0.2 2.0	0.0 0.8	1,038 749
North East Adamawa	94.4	3.3	2.1	2.7	1.0	1.6	0.9	4.2	1.3	0.1	1.4	0.1	728
Bauchi	95.5	1.6	1.3	0.7	1.3	1.9	0.8	3.6	0.5	0.4	0.9	0.5	1,147
Borno	82.0	12.8	4.2	1.4	1.9	4.6	1.1	14.5	3.2	0.3	3.5	0.3	1,174
Gombe	93.5	3.9	0.2	0.4	0.2	2.7	0.8	4.9	1.1	0.5	1.6	0.2	577
Taraba Yobe	84.4 88.8	12.7 7.5	4.2 3.6	2.0 0.7	1.7 0.3	3.2 3.1	1.3 1.6	13.0 9.8	2.1 1.1	0.5 0.3	2.6 1.4	0.7 0.2	697 1,078
North West													
Jigawa	90.7	4.5	2.3	1.6	1.0	3.9	2.3	6.2	2.0	1.0	3.0	1.8	1,118
Kaduna	95.7	2.2	1.5	1.0	1.3	2.4	1.8	2.9	1.0	0.3	1.4	0.7	1,836
Kano Katsina	90.5 95.0	4.3 2.2	1.5 1.6	1.0 0.6	0.9 0.4	5.2 1.9	2.3 1.7	7.4 3.7	1.3 0.8	0.7 0.4	2.0 1.3	0.7 0.3	2,286 1,858
Kebbi	98.6	1.0	0.1	0.4	0.1	0.4	0.3	1.1	0.1	0.1	0.3	0.1	846
Sokoto	94.9	3.1	1.6	0.9	1.3	1.0	0.7	4.7	0.1	0.3	0.4	0.0	757
Zamfara	97.5	1.2	0.7	0.9	0.4	0.6	0.7	1.7	0.2	0.5	0.7	0.1	1,054
South East	07.0	11.0	1.0	0.6	0.4	4.4	0.0	11.1	4.4	0.5	1.6	0.0	FC1
Abia Anambra	87.0 87.3	11.8 11.5	1.0 0.6	0.6 0.7	0.4 0.9	1.1 2.1	0.8 1.5	11.4 12.4	1.1 0.3	0.5 0.0	1.6 0.3	0.2 0.0	561 1,290
Ebonyi	93.1	3.6	1.2	0.7	1.5	4.0	2.2	5.3	1.4	0.0	1.7	0.0	876
Enugu	78.1	17.6	2.6	1.8	1.8	8.9	4.3	16.6	4.7	0.4	5.1	0.9	782
Imo	67.8	29.0	4.4	2.3	3.3	7.6	3.9	27.0	4.0	1.2	5.2	2.3	838
South South	71.1	00.0	4.0	0.0	0.5	0.0	0.0	00.0	0.0	0.4	0.0	0.7	000
Akwa Ibom	71.1	23.6	4.9	2.0	2.5	8.3	3.8	26.0	2.8	0.1	2.9	0.7	829
Bayelsa Cross River	82.3 73.6	13.4 21.8	3.1 2.9	1.1 1.3	2.3 2.0	8.3 9.3	3.1 2.1	12.7 21.6	4.8 4.3	0.2 0.5	5.0 4.8	1.0 1.1	253 443
Delta	85.5	9.8	2.6	2.2	5.6	6.0	4.4	13.3	1.0	0.2	1.2	0.7	833
Edo	86.3	10.2	1.0	8.0	0.6	6.1	1.4	12.8	0.5	0.4	0.9	0.3	520
Rivers	82.9	14.2	0.9	2.4	1.8	4.8	2.5	14.5	2.5	0.2	2.7	0.9	1,090
South West Ekiti	93.2	4.6	0.8	0.7	0.3	1.7	1.5	6.6	0.2	0.0	0.2	0.0	422
Lagos	93.2 90.5	9.0	0.8	0.7	0.3	0.9	0.4	8.9	0.2	0.0	0.2	0.0	2,285
Ogun	92.8	5.8	0.4	0.3	0.2	2.5	1.9	6.1	0.9	0.2	1.1	0.0	767
Ondo	73.7	18.4	3.0	2.2	3.4	8.8	1.3	23.9	1.7	0.7	2.4	0.7	600
Osun	93.4	5.8	0.6	0.7	0.9	1.2	0.9	5.9	0.7	0.0	0.7	0.3	832
Oyo	87.8	5.6	0.4	8.0	0.3	7.5	5.5	11.8	0.4	0.0	0.4	0.1	1,142

		nued

				main			Difficulty in at least one domain ¹				A lot of difficulty		
Background characteristic	No difficulty in any domain	Seeing	Hearing	Com- muni- cating	Remem- bering or concen- trating	Walking or climbing steps	Washing all over or dressing	Some	A lot of difficulty	Cannot do at all	A lot of difficulty or cannot do at all	or cannot function at all in more than one domain	Number of women
Education													
No education	87.3	7.9	3.1	2.0	2.4	6.0	3.7	9.7	2.3	0.7	3.0	1.0	13,227
Primary	87.0	9.7	1.4	0.9	1.2	4.2	1.8	11.5	1.3	0.2	1.5	0.3	5,791
Secondary More than	92.9	5.6	0.7	0.4	0.3	1.2	0.4	6.5	0.4	0.1	0.5	0.1	11,613
secondary	85.7	12.9	0.6	0.4	0.4	1.6	0.4	13.9	0.4	0.1	0.4	0.1	3,585
Wealth quintile													
Lowest	91.0	5.3	2.4	1.5	1.4	3.5	1.9	6.9	1.6	0.5	2.1	0.7	6,232
Second	89.9	6.2	2.3	1.3	1.6	4.4	2.3	8.0	1.7	0.5	2.2	0.5	6,609
Middle	87.6	8.5	1.9	1.3	1.6	4.7	2.5	10.4	1.5	0.4	2.0	0.6	6,831
Fourth	89.2	8.4	1.4	1.0	1.0	3.2	1.7	9.5	1.1	0.2	1.3	0.4	7,148
Highest	87.5	10.7	0.8	0.5	8.0	2.3	1.1	11.7	0.7	0.1	0.8	0.2	7,402
Total	89.0	7.9	1.7	1.1	1.3	3.6	1.9	9.4	1.3	0.3	1.7	0.5	34,222

Note: Total includes 6 women with missing information on education.

¹ If a person was reported to have difficulty in more than one domain, only the highest level of difficulty is shown.

Table 17.2.2 Disability among adults according to background characteristics: Men

Percentage of de facto male household members age 15 and over who have difficulty in functioning according to domain, and by highest degree of difficulty in at least one domain, and percentage who have a lot of difficulty or cannot function at all in more than one domain, according to background characteristics, Nigeria DHS 2018

				Do	main			Difficulty in at least one domain ¹				A lot of difficulty or cannot	
Background characteristic	No difficulty in any domain	Seeing	Hearing	Com- muni- cating	Remem- bering or concen- trating	Walking or climbing steps	Washing all over or dressing	Some difficulty	A lot of difficulty	Cannot do at all	A lot of difficulty or cannot do at all	function at all in more than one domain	Number of men
Marital status Never married Married/living	96.3	1.9	0.8	0.8	0.4	0.7	0.4	3.0	0.4	0.3	0.7	0.3	12,456
together Divorced or	84.1	11.8	2.2	1.5	1.4	4.5	2.4	13.5	1.8	0.5	2.3	0.7	19,488
separated Widowed	83.7 54.6	11.3 37.4	2.8 8.6	3.5 5.5	3.1 9.0	5.5 19.7	3.8 14.5	12.1 34.8	3.1 8.3	1.1 2.2	4.2 10.6	2.0 3.4	520 537
Residence Urban Rural	88.2 88.3	9.0 8.0	1.3 2.1	1.2 1.5	1.0 1.4	2.9 3.7	1.7 2.1	10.3 9.5	1.1 1.6	0.3 0.6	1.5 2.2	0.5 0.7	15,188 17,812
Zone North Central North East North West South East South South South West	89.0 88.0 90.6 83.7 85.5 88.6	7.9 8.4 5.3 13.3 11.6 8.9	1.5 3.2 2.0 1.4 1.7 0.6	1.5 2.2 1.2 1.3 1.4 0.9	1.6 1.8 0.9 1.8 1.3	3.0 3.1 3.6 4.0 3.8 2.7	1.8 1.6 1.9 2.7 2.0 1.8	9.5 9.4 7.5 13.0 12.8 10.6	1.0 2.0 1.3 2.5 1.4 0.7	0.5 0.6 0.7 0.7 0.3 0.1	1.5 2.6 2.0 3.2 1.7 0.9	0.5 0.8 0.6 0.9 0.5 0.2	4,679 5,468 9,252 3,278 4,113 6,209
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	86.7 86.6 85.7 88.9 88.1 94.7 87.3	12.1 9.8 9.7 7.2 9.1 4.2 8.3	0.7 2.0 1.6 0.7 2.3 0.8 2.2	0.9 2.3 0.9 1.6 0.9 0.6 2.9	0.5 2.8 2.1 1.6 0.3 0.6 2.2	1.3 3.4 4.0 4.3 1.4 1.4	0.9 2.3 2.0 2.7 0.5 1.0 2.7	12.3 12.1 12.0 9.1 9.4 4.8 11.1	0.5 0.9 0.9 1.6 1.8 0.4 1.1	0.5 0.4 1.4 0.4 0.6 0.2 0.5	1.0 1.3 2.3 2.0 2.5 0.6 1.6	0.1 0.3 1.2 1.1 0.4 0.3 0.5	244 1,020 473 562 517 1,142 721
North East Adamawa Bauchi Borno Gombe Taraba Yobe	93.6 93.1 80.3 90.7 83.3 87.8	3.5 3.8 12.3 7.0 15.1 9.3	2.1 2.4 6.3 0.7 3.5 2.8	3.9 1.3 3.0 0.7 1.8 2.3	1.3 1.9 3.3 0.4 1.4 1.4	1.7 3.2 4.8 2.9 2.9 2.6	1.1 2.2 0.9 1.6 1.6 1.9	5.1 4.5 16.6 6.2 13.8 9.4	1.2 1.6 2.9 2.3 2.0 1.9	0.1 0.9 0.2 0.7 1.0 0.9	1.3 2.4 3.1 3.0 2.9 2.8	0.5 1.2 0.7 0.5 0.6 0.9	748 1,178 1,159 630 628 1,125
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	81.8 94.5 85.8 92.0 96.3 92.2 95.1	9.1 2.4 8.6 4.5 1.5 6.2 3.1	3.0 1.2 1.9 2.6 1.0 3.1 1.1	1.6 1.4 1.4 0.6 1.1 0.9	1.2 0.6 1.2 0.9 0.1 2.3 0.4	8.9 2.0 6.0 2.6 0.9 1.7	3.5 1.3 2.6 2.3 0.6 0.7 0.5	13.3 4.2 11.6 6.4 2.9 6.7 4.1	4.1 1.0 1.4 1.0 0.4 0.8 0.3	0.9 0.3 1.1 0.7 0.3 0.3	5.0 1.3 2.6 1.7 0.8 1.1	1.4 0.4 1.0 0.3 0.4 0.7 0.3	1,048 1,703 2,180 1,776 804 726 1,015
South East Abia Anambra Ebonyi Enugu Imo	88.3 85.7 90.6 77.4 77.7	10.2 12.9 6.4 16.4 18.9	0.6 0.4 1.0 2.7 2.6	0.9 0.5 0.4 2.6 2.2	0.4 1.6 1.3 2.7 2.5	1.5 2.4 3.7 8.6 4.5	0.8 2.3 2.2 5.3 3.0	9.6 13.7 6.4 15.7 17.4	1.5 0.6 2.1 5.7 3.3	0.6 0.0 0.9 1.0 1.4	2.1 0.6 3.0 6.7 4.7	0.4 0.2 1.2 1.9 1.4	506 950 541 573 708
South South Akwa Ibom Bayelsa Cross River Delta Edo Rivers	80.5 84.7 79.0 89.3 87.3 88.4	15.5 11.5 17.2 8.3 9.3 10.2	3.3 2.8 1.6 1.2 1.5 0.8	1.9 1.1 0.9 2.2 1.1 0.9	1.6 1.5 1.5 2.4 0.3 0.4	4.3 5.5 6.9 3.2 3.8 2.1	2.9 2.3 2.5 2.1 1.0 1.4	17.8 12.5 17.5 10.0 11.1 10.3	1.7 2.6 3.4 0.3 1.0 1.1	0.0 0.3 0.1 0.5 0.6 0.2	1.7 2.8 3.5 0.8 1.6 1.3	0.7 0.6 0.4 0.4 0.6 0.5	776 297 499 889 520 1,133
South West Ekiti Lagos Ogun Ondo Osun Oyo	92.9 89.4 90.2 77.2 94.2 85.9	5.1 9.6 6.9 17.2 5.4 8.8	0.7 0.3 0.0 2.5 0.4 0.7	1.0 1.0 0.6 1.4 0.3 0.8	0.5 0.3 0.4 2.3 0.5 0.2	1.1 0.9 4.1 5.3 0.9 6.0	1.3 0.7 3.3 1.3 0.8 3.9	6.8 10.0 8.7 19.8 5.1 13.6	0.1 0.6 0.8 2.2 0.6 0.4	0.1 0.3 0.8 0.0 0.0	0.3 0.7 1.1 3.0 0.6 0.4	0.3 0.1 0.6 0.5 0.1	422 2,403 774 569 817 1,224

Tabla	47 2 2	 ntinued

			Domain							Difficulty in at least one domain ¹			
Background characteristic	No difficulty in any domain	Seeing	Hearing	Com- muni- cating	Remem- bering or concen- trating		Washing all over or dressing	Some difficulty	A lot of difficulty	Cannot do at all	A lot of difficulty or cannot do at all	or cannot function at all in more than one domain	Number of men
Education													
No education	84.6	9.7	3.7	2.5	2.5	6.5	4.2	11.5	2.8	1.2	4.0	1.5	8,335
Primary	83.1	12.2	2.0	1.8	1.8	4.8	2.5	14.3	2.1	0.6	2.6	0.4	5,361
Secondary More than	93.0	5.1	0.9	0.7	0.4	1.4	0.6	6.2	0.7	0.1	8.0	0.2	13,674
secondary	87.0	11.2	8.0	0.9	0.5	1.8	8.0	12.3	0.5	0.3	0.7	0.3	5,606
Wealth quintile													
Lowest	87.1	8.1	3.2	2.0	1.9	4.8	2.6	9.5	2.4	0.9	3.3	1.1	6,059
Second	88.8	7.0	2.2	1.6	1.6	4.0	2.3	9.1	1.5	0.6	2.1	8.0	6,006
Middle	89.3	7.3	1.6	1.4	1.2	3.2	2.0	8.8	1.5	0.3	1.8	0.4	6,270
Fourth	89.2	8.1	1.4	1.1	1.1	2.9	1.6	9.4	1.0	0.3	1.4	0.4	6,976
Highest	86.9	11.0	0.7	1.0	0.5	2.1	1.1	12.0	8.0	0.3	1.1	0.3	7,690
Total	88.2	8.5	1.8	1.4	1.2	3.3	1.9	9.9	1.4	0.5	1.9	0.6	33,000

Note: Total includes 25 men with missing information on education.

¹ If a person was reported to have difficulty in more than one domain, only the highest level of difficulty is shown.

Key Findings

- Prevalence of female genital mutilation (FGM): 20% of women age 15-49 are circumcised, a decrease from the figure of 25% reported in 2013.
- Age at circumcision: 86% of circumcised women age 15-49 were circumcised before age 5, while 5% were circumcised at age 15 or older.
- Attitudes towards FGM: Among women who have heard of FGM, 78% believe that female genital mutilation is not required by their religion and 67% believe that it should not be continued.

emale genital mutilation (FGM), also known as female genital cutting or female circumcision, is defined by the World Health Organization (WHO) as any procedure that involves partial or total removal of the external genitalia and/or injury to the female genital organs whether for cultural or any other non-therapeutic reasons (WHO, UNICEF, and UNFPA 1997). FGM, widely recognized as a violation of human rights, is deeply rooted in beliefs and perceptions over decades and generations. In May 2015, the Federal Government of Nigeria passed the Violence Against Persons Prohibition Act 2015 (VAPP), a law banning FGM and other harmful traditional practices; however, this legislation applied only to the Federal Capital Territory (FCT) of Abuja. While three more states, Anambra, Ekiti, and Oyo, have adopted the law, there remains a need for all states to pass similar legislation (28 Too Many 2016).

WHO classifies female genital mutilation into four main categories:

Type I: Excision of the prepuce with or without excision of part or all of the clitoris.

Type II: Excision of the clitoris with partial or total excision of the labia minora.

Type III: Excision of part or all of the external genitalia and stitching or narrowing of the vaginal opening (infibulation).

Type IV: Other forms, including pricking, piercing, or incising of the clitoris and/or labia; stretching of the clitoris and/or labia; cauterization by burning of the clitoris and surrounding tissue; scraping of tissue surrounding the opening of the vagina (angurya cuts) or cutting of the vagina (gishiri cuts); and introduction of corrosive substances or herbs into the vagina to cause bleeding or to tighten or narrow the vagina.

According to researchers, three major forms of FGM are practiced in Nigeria: female circumcision, hymenectomy (angurya), and gishiri cuts (Mandara 2004). The 2018 NDHS collected information on FGM from all women age 15-49 in two-thirds of the survey households. The topics covered included knowledge and prevalence of FGM, type of circumcision, age at circumcision, and attitudes towards the practice of circumcision.

18.1 RESPONDENTS' KNOWLEDGE OF FEMALE GENITAL MUTILATION

Table 18.1 shows that 61% of all women and 63% of ever-married women in Nigeria have heard of FGM.

Patterns by background characteristics

- Younger women age 15-19 are less likely to have heard of FGM than women age 45-49 (48% versus 71%).
- Women in urban areas are more likely than those in rural areas to have heard of FGM (69% versus 54%).
- Forty percent of women in the North Central zone have heard of FGM, as compared with 77% of women in the South East and 73% in the South West.
- Women in the highest wealth quintile (70%) and those with more than a secondary education (75%) are more knowledgeable about FGM than those in the second wealth quintile (52%) and those with no education (56%).

18.2 PREVALENCE OF FEMALE GENITAL MUTILATION

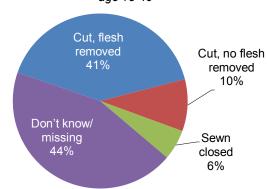
18.2.1 Prevalence and Type of Circumcision

Table 18.2 shows that 20% of women age 15-49 are circumcised. The most common type of FGM in Nigeria is Type II (some flesh removed), with 41% of women undergoing this procedure. Ten percent of women underwent a Type I procedure (clitoris nicked, no flesh removed), and 6% underwent a Type III procedure (also known as infibulation) (**Figure 18.1**).

Trends: Although the prevalence of FGM in the 2018 NDHS cannot be compared with the prevalence in NDHS surveys before 2013 due to variations in definitions, a comparison can be made with the results of the 2013 NDHS as both surveys used the same definition. Overall, the proportion of women who are circumcised decreased from 25% in 2013 to 20% in 2018 (**Figure 18.2**).

Figure 18.1 Types of FGM

Percentage among circumcised women age 15-49

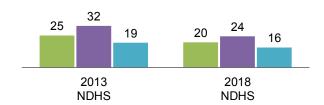


Note: Figures may not add to 100% due to rounding.

Figure 18.2 Trends in FGM by residence

Percentage of women age 15-49 who are circumcised

■ Total ■ Urban ■ Rural



Patterns by background characteristics

- The prevalence of circumcision seems to be decreasing in Nigeria. Only 14% of women age 15-19 have been circumcised, as compared with 31% of women age 45-49 (**Figure 18.3**).
- By ethnic group, the prevalence of FGM is highest among Yoruba women (35%) and lowest among Tiv and Igala women (1% each).
- Urban women are more likely than rural women to have experienced FGM (24% and 16%, respectively).
- The prevalence of FGM is highest in the South East (35%) and South West (30%) and lowest in the North East (6%).

Figure 18.3 FGM by age

Percentage of women age 15-49 who are circumcised

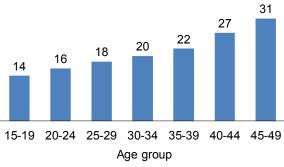
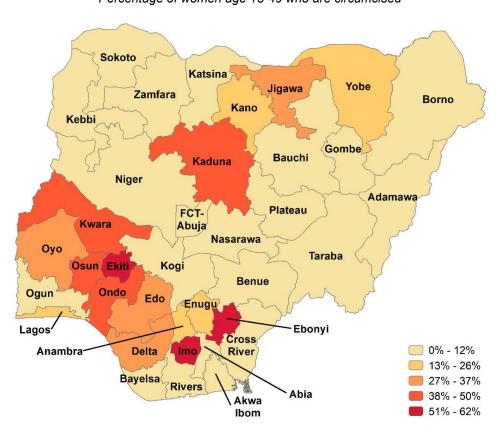


Figure 18.4 FGM by state

Percentage of women age 15-49 who are circumcised



Sixty-two percent of women in Imo have experienced FGM, as compared with less than 1% of women in Adamawa and Gombe (**Table 18.2** and **Figure 18.4**).

18.2.2 Unclassified Types of Female Circumcision

The 2018 NDHS collected additional information on different types of circumcision procedures women have undergone, particularly procedures that are unclassified. All women who had been circumcised were asked whether they had experienced angurya, gishiri, or use of corrosive methods to narrow the virginal

tract. The findings showed that 40% of women who had been circumcised had angurya performed, while 13% had gishiri cuts and 7% experienced use of corrosive substances (**Table 18.3**).

Patterns by background characteristics

- Angurya is most common in the North East (91%) and North West (81%) and least common in the South West (5%).
- Women in rural areas are more likely to have had angurya cuts (59%) than women in urban areas (26%).
- The percentage of women who have had angurya cuts declines with increasing education, from 71% among those with no education to 18% among those with more than a secondary education.

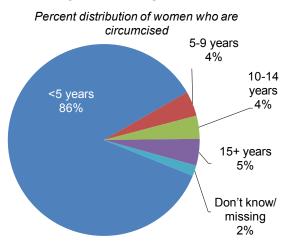
18.2.3 Age at Circumcision

In Nigeria, female circumcision occurs mostly during infancy; 86% of women age 15-49 were circumcised at less than age 5 (**Table 18.4** and **Figure 18.5**).

Patterns by background characteristics

- Women less than age 25 are more likely than women age 45-49 to have been circumcised before age 5 (91%-92% versus 79%).
- Nine in 10 women (92%) of Islamic faith were circumcised before age 5, as compared with 77% of women of Catholic faith.
- By zone, the proportion of women circumcised before age 5 is highest in the North West (97%) and lowest in the South South (59%). A quarter (24%) of circumcised women in the South South had the procedure done at age 15 or later.

Figure 18.5 Age at FGM



Note: Figures may not add to 100% due to rounding.

18.3 CIRCUMCISION OF DAUGHTERS

The 2018 NDHS asked women with female children whether their daughters age 0-14 had been circumcised and, if so, at what age. Eighty-one percent of daughters have not been circumcised, while 17% were circumcised before they celebrated their first birthday (**Table 18.5**).

Patterns by background characteristics

- Twenty-five percent of girls age 0-4 whose mothers are Muslims have been circumcised (Table 18.6).
- Daughters of women with more than a secondary education (8%) are less likely than daughters of women with no education (24%) to have been circumcised.
- Daughters of women who are circumcised are more likely to be circumcised themselves; 56% of girls
 age 0-14 whose mothers are circumcised are also circumcised, as compared with only 17% of girls
 whose mothers are not circumcised.

The 2018 NDHS also included questions to ascertain the prevalence of various types of FGM among daughters. Women who said their daughter was circumcised were asked whether her genital area had been sewn closed (a process known as infibulation). **Table 18.7** shows that 4% of girls in Nigeria have been

infibulated. Girls from the Kanuri and Beriberi ethnic groups are most likely to have been infibulated (10%). Girls whose mothers had experienced infibulation were more likely to have undergone the procedure themselves (44%) than girls whose mothers were circumcised but not infibulated (2%) and girls whose mothers are not circumcised (4%).

18.4 Person Who Performed the Circumcision

The survey included questions on the person who performed the circumcision. **Table 18.8** shows the percentage of circumcised girls age 0-14 by current age and women age 15-49 according to the person performing the circumcision and the type of circumcision.

Traditional providers such as traditional circumcisers (82% for girls and 76% for women) and traditional birth attendants (8% each for girls and women) perform the majority of female circumcisions in Nigeria. Seven percent of girls and 9% of women were circumcised by medical professionals, with nurses and midwives playing an important role (7% for girls and 8% for women). Four percent of girls age 0-14 had their genital area sewn closed, as compared with 6% of women age 15-49.

18.5 ATTITUDES TOWARDS FEMALE CIRCUMCISION

Women age 15-49 who have heard of female circumcision were asked whether this practice is a requirement of their religion. More than three-quarters of women (78%) believe that it is not a requirement (**Table 18.9**). Similarly, 67% believe that female circumcision should not be continued (**Table 18.10**).

Patterns by background characteristics

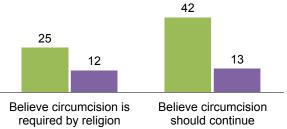
- Women who are circumcised are more likely than those who are not to believe that FGM is required by their religion (25% and 12%, respectively). Similarly, women who are circumcised are more likely to believe that FGM should be continued than those who are not circumcised (42% and 13%, respectively) (Figure 18.6).
- Rural women are more likely than urban women to believe that FGM is required by their religion (22% and 12%, respectively) and that FGM should be continued (31% and 16%, respectively).

their religion.

Education and wealth have strong influences on beliefs regarding whether FGM is required by one's religion. Women with more than a secondary education and those in the highest wealth quintile are least likely to believe that FGM is required by

Figure 18.6 Attitudes about FGM by circumcision status

Percentage of women age 15-49
■ Circumcised ■ Not circumcised



LIST OF TABLES

For more information on female genital mutilation, see the following tables:

Table 18.1	Knowledge of female circumcision
Table 18.2	Prevalence of female circumcision
Table 18.3	Unclassified types of female circumcision
Table 18.4	Age at circumcision
Table 18.5	Prevalence of circumcision and age at circumcision: Girls age 0-14
Table 18.6	Circumcision of girls age 0-14 by mother's background characteristics
Table 18.7	Infibulation among circumcised girls age 0-14
Table 18.8	Aspects of circumcision among circumcised girls age 0-14 and women age 15-49
Table 18.9	Opinions of women about whether circumcision is required by religion
Table 18.10	Opinions of women about whether the practice of circumcision should continue

Table 18.1 Knowledge of female circumcision

Percentage of women age 15-49 who have heard of female circumcision, according to background characteristics, Nigeria DHS 2018 $\,$

	All we	omen	Ever-married women		
	Have heard of		Have heard of		
Background characteristic	female circumcision	Number of respondents	female circumcision	Number of respondents	
Age					
15-19	48.2	5,627	51.3	1,309	
20-24	58.9	4,458	57.6	2,915	
25-29	61.4	4,509	60.3	3,824	
30-34	63.9	3,794	63.1	3,484	
35-39	66.2	3,317	65.7	3,171	
40-44	69.1	2,589	69.0	2,541	
45-49	70.9	2,413	70.9	2,368	
Religion					
Catholic	64.5	2,765	67.7	1,754	
Other Christian	63.5	9,241	67.6	5,960	
Islam	58.4	14,560	60.1	11,793	
Traditionalist	65.2	90	64.6	70	
Other	30.6	50	38.3	34	
Ethnic group Ekoi	47.0	148	48.9	87	
Fulani	58.0	1,728	59.6	1,536	
Hausa	56.2	8,232	58.1	6,866	
Ibibio	64.6	6,232 479	72.7	290	
Igala	31.1	230	33.8	290 154	
	75.5	4,052	33.6 80.4	2,516	
lgbo liaw/lzon	75.5 57.8	4,052 470	63.1	2,516 302	
Kanuri/Beriberi		622		478	
Tiv	65.1 49.6	643	68.7 48.9	478 476	
Yoruba					
Other	74.9 51.1	3,919 6,167	80.4 53.6	2,554 4,339	
Residence	• • • • • • • • • • • • • • • • • • • •	3, . 3 .	00.0	.,000	
Urban	69.0	12,106	72.4	7,912	
Rural	53.9	14,599	56.8	11,699	
Zone		,		,	
North Central	39.8	3,761	41.6	2,769	
North East	62.1	4,355	66.3	3,421	
North West	55.1	8,143	56.7	6,768	
South East	77.3	3,098	83.0	1,935	
South South	65.1	2,951	69.8	1,882	
South West	73.2	4,397	77.1	2,836	
State					
North Central					
FCT-Abuja	50.9	201	56.7	135	
Benue	53.0	858	52.5	615	
Kogi	39.5	426	42.9	312	
Kwara	68.9	427	71.0	316	
Nasarawa	17.9	405	18.0	271	
Niger	32.9	873	35.6	718	
Plateau	20.7	571	22.3	401	
North East					
Adamawa	63.0	601	68.1	449	
Bauchi	74.1	897	77.0	781	
Borno	57.9	944	58.8	697	
Gombe	34.7	469	36.7	380	
Taraba	52.8	577	61.2	415	
Yobe	74.8	866	79.8	700	
North West					
Jigawa	96.1	926	97.4	801	
Kaduna	76.3	1,637	79.8	1,340	
Kano	62.6	1,862	63.7	1,482	
Katsina	8.2	1,475	8.6	1,196	
Kebbi	55.2	736	58.1	636	
Sokoto	13.7	610	13.6	536	
Zamfara	63.9	897	64.3	776	
South East					
Abia	59.1	391	65.6	246	
Anambra	81.0	948	88.1	598	
Ebonyi	78.9	675	84.9	413	
Enugu	67.8	539	74.0	331	
Imo	91.3	546	93.0	346	

Continued...

Table 18.1—Continued All women Ever-married women Have heard of Have heard of Background characteristic Number of female female Number of circumcision respondents circumcision respondents South South 63.0 37.2 58.7 70.9 Akwa Ibom 592 73.5 352 176 343 592 38.2 61.0 74.6 120 223 372 Bayelsa Cross River Delta Edo 79.6 357 82.9 253 Rivers 64.9 891 68.5 564 South West Ekiti 81.1 81.5 40.2 276 87.2 194 1,058 1,817 86.1 Lagos 555 47.4 389 Ogun Ondo 71.8 425 78.4 284 Osun 90.6 565 367 759 Oyo 62.7 65.0 544 Education No education 55.5 9,573 56.4 8,884 62.5 60.9 3,752 10,369 65.5 67.5 3,181 Primary Secondary 5,674 More than secondary 74.9 3,011 76.9 1,872 Wealth quintile 57.9 4,791 60.0 Lowest 4,153 Second 51.8 5,203 54.0 4,254 3,794 3,751 Middle 57.7 5,142 61.2 Fourth 64.6 5,681 68.0 Highest 70.0 5,887 73.9 3,659 60.8 26,705 63.1 19,611 Total

Note: Total includes 15 women with missing information on ethnic group.

Table 18.2 Prevalence of female circumcision

Percentage of women age 15-49 who have been circumcised, and percent distribution of circumcised women by type of circumcision, according to background characteristics, Nigeria DHS 2018

	Percentage			Type of cir	cumcision			Number of
Background characteristic	of women circumcised	Number of women	Cut, no flesh removed	Cut, flesh removed	Sewn closed	Don't know/ missing	Total	circumcised women
Age								
15-19	13.7	5,627	10.6	30.6	3.4	55.3	100.0	770
20-24	15.9	4,458	10.9	35.8	4.2	49.1	100.0	708
25-29	18.0	4,509	10.4	40.9	5.1	43.6	100.0	813
30-34	19.7	3,794	11.5	41.0	4.1	43.3	100.0	749
35-39	21.9	3,317	7.9	46.5	7.5	38.1	100.0	726
40-44	26.7	2,589	8.4	42.6	6.1	42.9	100.0	690
45-49	31.0	2,413	7.0	47.8	8.6	36.5	100.0	747
	01.0	2,110	7.0	11.0	0.0	00.0	100.0	
Religion	a				40.0	20.0	400.0	
Catholic	24.5	2,765	5.6	50.9	13.9	29.6	100.0	677
Other Christian	19.4	9,241	5.3	50.8	8.8	35.1	100.0	1,790
Islam	18.7	14,560	13.4	31.5	1.3	53.7	100.0	2,723
Traditionalist Other	11.9 2.2	90 50	*	*	*	*	100.0 100.0	11 1
Other	2.2	50					100.0	· ·
Ethnic group								
Ekoi	11.6	148	*	*	*	*	100.0	17
Fulani	12.6	1,728	22.8	29.2	0.5	47.5	100.0	218
Hausa	19.7	8,232	13.6	23.4	1.0	61.9	100.0	1,624
Ibibio	9.3	479	(2.6)	(59.4)	(11.7)	(26.4)	100.0	44
Igala	0.9	230	*	*	*	*	100.0	2
Igbo	30.7	4,052	5.9	48.9	12.2	33.0	100.0	1,242
ljaw/lzon	6.9	470	(5.4)	(50.1)	(26.5)	(18.1)	100.0	32
Kanuri/Beriberi	5.6	622	(42.0)	(15.3)	(1.7)	(41.0)	100.0	35
Tiv	0.8	643	- 4	*	*	*	100.0	5
Yoruba	34.7	3,919	7.1	46.2	2.4	44.3	100.0	1,361
Other	10.0	6,167	6.4	59.1	11.5	23.0	100.0	620
Residence								
Urban	24.2	12,106	6.4	42.8	6.2	44.5	100.0	2,932
Rural	15.6	14,599	13.6	38.0	4.7	43.6	100.0	2,270
Zone								
North Central	9.9	3,761	7.7	59.0	6.7	26.6	100.0	373
North East	6.1	4,355	12.6	38.8	1.1	47.4	100.0	264
North West	20.2	8,143	15.7	20.0	0.9	63.4	100.0	1,643
South East	35.0	3,098	6.3	48.7	13.0	32.1	100.0	1,083
South South	17.7	2,951	2.7	68.0	14.2	15.1	100.0	522
South West	30.0	4,397	7.2	44.4	2.4	45.9	100.0	1,318
State North Central								
	5.1	201	(3.7)	(42.3)	(24.0)	(30.0)	100.0	10
FCT-Abuja Benue	5.3	858	(3.3)	(4 2.3) (51.4)	(36.7)	(8.6)	100.0	46
Kogi	1.0	426	(3.3)	(31.4)	(30.7)	(0.0)	100.0	40
Kwara	46.0	427	12.4	50.4	0.4	36.9	100.0	196
Nasarawa	1.8	405	12.4	30. 4 *	V. 4	30.9 *	100.0	7
Niger	10.5	873	1.7	89.2	1.3	7.8	100.0	92
Plateau	3.0	571	*	*	*	*	100.0	17
	0.0	071					100.0	• • • • • • • • • • • • • • • • • • • •
North East	0.0	004	*	*	*	*	400.0	0
Adamawa	0.0	601					100.0	0
Bauchi	10.7	897	17.3	30.4	0.5	51.7	100.0	96
Borno	2.4	944	*	*	*	*	100.0	22
Gombe	0.1	469					100.0	1
Taraba Yobe	3.9 14.2	577 866	(0.0) 12.4	(34.0) 39.3	(2.5) 1.6	(63.5) 46.7	100.0 100.0	23 123
robe	14.2	000	12.4	39.3	1.0	40.7	100.0	123
North West								
Jigawa	34.1	926	73.8	1.5	0.4	24.3	100.0	316
Kaduna	48.8	1,637	0.3	9.8	0.0	90.0	100.0	799
Kano	22.2	1,862	2.3	51.8	0.7	45.3	100.0	414
Katsina	1.4	1,475	*	*	*	*	100.0	21
Kebbi	1.6	736	*	*	*	*	100.0	12
Sokoto	5.4	610	(0.0)	(21.1)	(7.7)	(71.3)	100.0	33
Zamfara	5.3	897	(18.0)	(25.2)	(0.0)	(56.8)	100.0	48
South East								
Abia	12.2	391	2.3	5.0	70.5	22.2	100.0	48
Anambra	21.4	948	0.9	23.9	0.0	75.2	100.0	203
Ebonyi	53.2	675	0.2	50.8	15.1	33.9	100.0	359
Enugu	25.3	539	0.0	36.4	37.9	25.8	100.0	136
Imo	61.7	546	19.1	72.5	0.4	8.1	100.0	337

Continued...

Table 18.2—Continued								
	Percentage			Type of cir		Number of		
Background characteristic	of women circumcised	Number of women	Cut, no flesh removed	Cut, flesh removed	Sewn closed	Don't know/ missing	Total	circumcised women
South South								
Akwa Ibom	10.2	592	1.4	80.4	13.9	4.4	100.0	60
Bayelsa	6.7	176	(5.4)	(14.9)	(60.7)	(19.0)	100.0	12
Cross River	11.9	343	0.0	83.3	9.6	` 7.1 [′]	100.0	41
Delta	33.7	592	0.6	69.4	24.2	5.8	100.0	199
Edo	35.5	357	5.0	60.8	2.5	31.7	100.0	127
Rivers	9.3	891	6.5	66.4	3.7	23.3	100.0	83
South West								
Ekiti	57.9	276	2.8	21.4	1.2	74.6	100.0	160
Lagos	23.7	1,817	10.9	48.0	2.3	38.8	100.0	431
Ogun	8.2	555	(33.0)	(24.5)	(11.8)	(30.7)	100.0	45
Ondo	43.7	425	0.3	26.5	0.4	72.8	100.0	186
Osun	45.9	565	10.8	33.4	0.6	55.2	100.0	259
Oyo	31.1	759	0.0	83.7	5.3	11.0	100.0	236
Education								
No education	17.2	9,573	14.3	30.0	3.7	52.0	100.0	1,643
Primary	25.6	3,752	7.9	47.3	6.2	38.6	100.0	962
Secondary	19.4	10,369	7.4	44.7	6.1	41.7	100.0	2,010
More than secondary	19.5	3,011	6.5	46.3	7.6	39.6	100.0	587
Wealth quintile								
Lowest	16.4	4,791	19.2	36.6	4.8	39.5	100.0	785
Second	17.8	5,203	9.5	30.3	3.6	56.5	100.0	928
Middle	20.0	5,142	8.6	39.3	5.7	46.3	100.0	1,028
Fourth	22.6	5,681	5.8	47.0	5.2	42.0	100.0	1,286
Highest	20.0	5,887	8.1	46.1	7.9	38.0	100.0	1,176
Total	19.5	26,705	9.6	40.7	5.6	44.1	100.0	5,202

Note: Total includes 15 women with missing information on ethnic group. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 18.3 Unclassified types of female circumcision

Percentage of circumcised women age 15-49 who experienced any unclassified types of circumcision, according to background characteristics, Nigeria DHS 2018 $\,$

	Unclassifie	d types of female	e circumcision	Number of
Background characteristic	Angurya	Gishiri	Use of corrosive substances	circumcised women
Age				
15-19	54.0	7.2	5.6	770
20-24	50.7	8.0	5.0	708
25-29	43.8	12.9	7.4	813
30-34	37.7	13.1	6.9	749
35-39	33.6	16.0	8.0	726
40-44	34.4	16.5	6.5	690
45-49	28.0	17.5	6.2	747
Religion				
Catholic	18.1	23.6	10.7	677
Other Christian	18.4	19.1	5.2	1,790
Islam	60.5	6.3	6.4	2,723
Traditionalist	*	*	*	11
Other	*	*	*	1
Ethnic group				
Ekoi	*	*	*	17
Fulani	73.8	7.8	5.6	218
Hausa	83.3	3.9	8.1	1,624
Ibibio	(31.0)	(38.5)	(1.8)	44
Igala	*	*	*	2
Igbo	16.8	20.2	7.4	1,242
ljaw/Izon	(38.8)	(43.1)	(39.1)	32
Kanuri/Beriberi	52.5	12.1	5.7	35
Tiv	J2.J *	12.1	3. <i>1</i> *	5
	F 2	11.4	4.5	
Yoruba Other	5.3 39.4	11.4 21.8	1.5 9.5	1,361 620
Residence				
Urban	26.4	13.4	5.6	2,932
Rural	58.6	12.5	7.8	2,932
	30.0	12.5	7.0	2,270
Zone	20.0	44.4	0.0	272
North Central	32.0	11.4	8.2	373
North East	91.1	9.4	10.0	264
North West	81.4	4.1	8.0	1,643
South East	16.3	21.0	7.9	1,083
South South	32.3	29.2	9.0	522
South West	4.6	12.3	1.6	1,318
Education				
No education	70.8	7.7	7.8	1,643
Primary	32.9	14.0	4.9	962
Secondary	25.9	15.8	6.2	2,010
More than secondary	17.7	16.7	6.9	587
Wealth quintile				
Lowest	62.3	11.5	5.6	785
Second	63.6	10.1	7.6	928
Middle	41.0	13.5	8.7	1,028
Fourth	26.5	13.0	5.3	1,286
Highest	22.3	15.9	6.0	1,176
Total	40.4	13.0	6.6	
ıvlaı	40.4	13.0	0.0	5,202

Note: Total includes 1 woman with missing information on ethnic group. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 18.4 Age at circumcision

Percent distribution of circumcised women age 15-49 by age at circumcision, according to background characteristics, Nigeria DHS 2018

	Age at circumcision						Number of	
Background					Don't know/		circumcised	
characteristic	<5 ¹	5-9	10-14	15+	missing	Total	women	
Age								
15-19	91.3	3.7	2.9	0.9	1.3	100.0	770	
20-24	92.2	2.5	2.1	2.0	1.2	100.0	708	
25-29	85.2	3.5	4.2	4.0	3.1	100.0	813	
30-34	85.5	4.7	3.4	5.2	1.2	100.0	749	
35-39	83.2	5.1	3.8	5.6	2.2	100.0	726	
40-44	82.5	4.2	4.8	6.3	2.2	100.0	690	
45-49	79.3	5.3	6.1	7.9	1.4	100.0	747	
Religion								
Catholic	77.0	7.4	10.4	3.6	1.6	100.0	677	
Other Christian	78.8	5.3	5.2	7.6	3.2	100.0	1,790	
Islam	92.3	2.6	1.4	2.8	0.9	100.0	2,723	
Traditionalist	*	*	*	*	*	100.0	11	
Other	*	*	*	*	*	100.0	1	
Ethnic group								
Ekoi	*	*	*	*	*	100.0	17	
Fulani	86.2	2.0	1.7	10.1	0.0	100.0	218	
Hausa	96.6	0.5	0.6	2.1	0.2	100.0	1,624	
Ibibio	(59.2)	(12.7)	(13.0)	(9.3)	(5.9)	100.0	44	
lgala	*	*	*	*	*	100.0	2	
Igbo	83.8	3.8	8.1	2.5	1.9	100.0	1,242	
ljaw/lzon	(24.7)	(0.0)	(9.6)	(62.9)	(2.8)	100.0	32	
Kanuri/Beriberi	(86.9)	(0.0)	(2.6)	(10.5)	(0.0)	100.0	35	
Tiv	*	*	*	*	*	100.0	5	
Yoruba	88.6	5.1	2.0	0.6	3.7	100.0	1,361	
Other	61.4	11.3	7.3	18.1	2.0	100.0	620	
Residence								
Urban	85.0	4.7	4.2	3.4	2.7	100.0	2,932	
Rural	86.5	3.5	3.4	6.0	0.6	100.0	2,270	
	00.5	3.3	5.4	0.0	0.0	100.0	2,270	
Zone								
North Central	77.0	12.3	7.6	1.2	1.9	100.0	373	
North East	74.8	6.7	3.6	14.9	0.0	100.0	264	
North West	97.1	0.7	0.4	1.7	0.1	100.0	1,643	
South East	82.9	4.1	8.8	2.5	1.8	100.0	1,083	
South South	58.9	7.7	8.0	23.5	1.9	100.0	522	
South West	88.8	4.4	1.6	1.0	4.3	100.0	1,318	
Education								
No education	89.5	2.6	2.9	4.4	0.6	100.0	1,643	
Primary	78.0	4.7	8.8	6.3	2.2	100.0	962	
Secondary	85.6	4.9	2.9	4.3	2.4	100.0	2,010	
More than secondary	87.5	5.2	2.2	2.9	2.2	100.0	587	
•	00	5.–						
Wealth quintile Lowest	83.7	2.9	7.8	5.4	0.2	100.0	785	
Second	88.4	3.3	4.5	3.3	0.4	100.0	928	
Middle	84.8	4.9	3.6	4.9	1.9	100.0	1,028	
Fourth	85.2	4.6	2.7	5.5	2.0	100.0	1,286	
Highest	85.9	4.6	2.3	3.5	3.6	100.0	1,176	
Total	85.6	4.2	3.9	4.5	1.8	100.0	5,202	

Note: Total includes 1 woman with missing information on ethnic group. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 18.5 Prevalence of circumcision and age at circumcision: Girls age 0-14

Percent distribution of girls age 0-14 by age at circumcision, and percentage of girls circumcised according to current age, Nigeria DHS 2018

			Age at ci	rcumcision					
Current age	<1	1-4	5-9	10-14	Don't know/ missing	Percentage not circumcised	Total	Number of girls	Percentage circumcised
0-4	17.3	0.9	na	na	0.1	81.2	100.0	9,165	19.0
5-9	17.3	1.1	0.8	na	0.1	80.7	100.0	8,422	19.3
10-14	17.1	1.5	0.5	0.1	0.2	80.6	100.0	6,556	19.5
Total	17.2	1.1	0.7	0.0	0.1	80.9	100.0	24,143	19.2

Note: The circumcision status of girls is reported by their mothers. na = Not applicable due to censoring

¹ Includes women who reported they were circumcised during infancy but did not provide a specific age

Table 18.6 Circumcision of girls age 0-14 by mother's background characteristics

Percentage of girls age 0-14 who are circumcised, according to age and mother's background characteristics, Nigeria DHS 2018

	Current age of girls						
Background characteristic	0-4	5-9	10-14	All 0-14			
Religion Catholic Other Christian Islam Traditionalist Other	8.8 6.9 24.9 (0.0) (0.0)	9.0 8.0 25.4 (2.8) (0.0)	12.9 9.8 25.0 (2.3)	10.0 8.1 25.1 1.8 0.0			
Ethnic group Ekoi Fulani Hausa Ibibio Igala Igbo Kanuri/Beriberi Tiv Yoruba Other Residence Urban	(0.0) 24.0 30.2 4.2 0.0 12.7 14.5 0.7 10.1 8.9	(3.2) 27.2 29.0 0.0 1.2 12.8 9.9 0.0 17.9 9.0	(0.0) 25.3 27.5 3.2 0.0 15.3 13.7 0.0 23.7 9.3	1.2 25.4 29.1 2.5 0.4 13.5 12.7 0.3 17.2 9.0			
Rural Zone North Central North East North West South East South South South West	21.5 6.1 21.6 29.2 14.8 4.3 8.2	21.4 8.2 21.1 28.7 14.8 5.2 12.6	9.0 18.9 27.4 17.1 6.7 18.9	7.6 20.7 28.6 15.5 5.3 13.2			
State North Central FCT-Abuja Benue Kwara Nasarawa Niger Plateau	0.6 0.0 9.8 2.2 14.2 4.0	1.7 0.5 27.3 1.9 10.9 5.7	7.2 0.0 36.7 2.0 13.8 4.4	2.6 0.2 22.7 2.0 12.9 4.8			
North East Bauchi Borno Gombe Taraba Yobe	38.7 0.0 0.4 12.9 52.6	33.2 1.8 0.0 9.8 54.6	31.6 1.8 0.0 7.4 46.7	34.9 1.1 0.2 10.5 51.8			
North West Jigawa Kaduna Kano Katsina Kebbi Sokoto Zamfara	68.5 63.5 27.8 2.8 5.7 2.3 19.1	62.9 64.1 29.2 2.8 7.1 1.8 15.7	58.5 61.1 25.2 2.3 6.4 3.6 17.8	63.8 63.1 27.6 2.6 6.3 2.4 17.5			
South East Abia Anambra Ebonyi Enugu Imo	8.3 7.7 2.2 0.0 64.7	7.2 7.5 3.5 1.9 60.6	10.3 7.6 10.8 2.7 63.1	8.5 7.6 5.2 1.5 62.8			
South South Akwa Ibom Cross River Delta Edo Rivers	2.4 0.8 4.7 13.7 2.1	0.0 0.0 7.4 17.9 2.0	2.6 0.0 6.3 25.1 2.2	1.7 0.2 6.1 18.7 2.1			
South West Ekiti Lagos Ondo Osun Oyo	28.1 6.7 15.6 10.7 3.5	27.8 9.2 23.9 19.7 11.0	34.2 22.5 28.5 21.5 10.1	30.0 12.7 22.8 17.5 8.2			

Continued...

Table 18.6—Continued				
	Cur	rent age of	girls	
Background characteristic	0-4	5-9	10-14	All 0-14
Mother's education				
No education Primary	24.8 17.8	24.4 16.2	23.9 16.1	24.4 16.7
Secondary More than secondary	12.9 7.8	14.4 7.6	15.9 6.7	14.1 7.5
Mother's circumcision status				
Circumcised Not circumcised	57.9 18.1	56.2 16.4	53.3 14.9	55.9 16.6
Wealth quintile				
Lowest	27.0	26.4	26.3	26.6
Second	21.1	20.5	20.5	20.8
Middle	18.2	19.8	18.2	18.8
Fourth	14.0	17.1	18.6	16.4
Highest	9.8	9.0	10.8	9.8
Total	19.0	19.3	19.5	19.2

Note: The circumcision status of girls is reported by their mothers. Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 18.7 Infibulation among circumcised girls age 0-14

Percent distribution of girls age 0-14 who are circumcised by whether or not they are infibulated, according to mother's background characteristics, Nigeria DHS 2018

	Infibulat	ion status		
Background characteristic	Sewn closed	Not sewn closed	Total	Number
-	ciosea	ciosed	Total	Number
Religion Catholic	3.8	96.2	100.0	192
Other Christian	8.3	91.7	100.0	524
Islam	2.9	97.1	100.0	3,922
Traditionalist	*	*	100.0	2
Ethnic group				
Ekoi	*	*	100.0	1
Fulani	3.3	96.7	100.0	524
Hausa	2.5	97.5	100.0	2,710
Ibibio	*	*	100.0	7
Igala	*	*	100.0	1
lgbo	8.3	91.7	100.0	392
Kanuri/Beriberi	10.0	90.0	100.0	89
Tiv	*	*	100.0	2
Yoruba	3.7	96.3	100.0	442
Other	4.1	95.9	100.0	472
Residence				
Urban	5.1	94.9	100.0	1,520
Rural	2.8	97.2	100.0	3,120
Zone				
North Central	8.3	91.7	100.0	245
North East	4.1	95.9	100.0	957
North West	1.9	98.1	100.0	2,608
South East	8.2	91.8	100.0	343
South South	10.3 4.4	89.7	100.0	110
South West	4.4	95.6	100.0	377
Mother's education	0.0	07.0	400.0	0.054
No education	2.8	97.2	100.0	2,954
Primary Secondary	3.8 5.1	96.2 94.9	100.0 100.0	669 887
More than secondary	9.2	90.8	100.0	130
	9.2	90.0	100.0	130
Mother's circumcision status			400.0	
Infibulated	44.4	55.6	100.0	44
Circumcised, not infibulated	2.4	97.6	100.0	2,782
Not circumcised	4.3	95.7	100.0	1,814
Wealth quintile	0.0	07.7	400.0	4 545
Lowest	2.3	97.7	100.0	1,515
Second	2.9	97.1	100.0	1,121
Middle	2.2	97.8 05.4	100.0	905
Fourth	4.6 12.1	95.4 87.9	100.0 100.0	729
Highest				369
Total	3.5	96.5	100.0	4,640

Note: The circumcision status of girls is reported by their mothers. Total includes 1 woman with missing information on ethnic group. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

Table 18.8 Aspects of circumcision among circumcised girls age 0-14 and women age 15-49

Percent distribution of circumcised girls age 0-14 by current age and women age 15-49, according to person performing the circumcision and type of circumcision, Nigeria DHS 2018 $\,$

	Cur	rent age o	f girls		
Background characteristic	0-4	5-9	10-14	Girls age 0-14	Women age 15-49
Person who performed the circumcision					
Traditional agent	94.4	93.0	90.4	92.8	85.4
Traditional circumciser	83.2	82.8	80.9	82.4	75.7
Traditional birth attendant	7.6	7.4	7.4	7.5	8.4
Other traditional agent	3.6	2.8	2.0	2.9	1.3
Medical professional	5.6	6.7	9.5	7.0	8.6
Doctor	0.4	0.3	8.0	0.5	0.8
Nurse/midwife	5.1	6.3	8.7	6.5	7.7
Other health professional	0.0	0.0	0.0	0.0	0.1
Don't know/missing	0.0	0.3	0.1	0.1	6.0
Total	100.0	100.0	100.0	100.0	100.0
Type of circumcision					
Sewn closed	3.5	4.0	2.9	3.5	5.6
Not sewn closed	96.5	96.0	97.1	96.5	77.7
Don't know/missing	0.0	0.0	0.0	0.0	16.8
Total	100.0	100.0	100.0	100.0	100.0
Number	1,730	1,633	1,278	4,640	5,202

Note: The circumcision status of girls is reported by their mothers.

Table 18.9 Opinions of women about whether circumcision is required by religion

Percentage of women age 15-49 who have heard of female circumcision by opinion on whether their religion requires female circumcision, according to background characteristics, Nigeria DHS 2018

Background characteristic	Required	Not required	Don't know/ missing	Total	Number of respondents
Female circumcision status					
Circumcised Not circumcised	24.9 12.2	68.6 84.1	6.5 3.7	100.0 100.0	5,202 10,203
Age					
15-19	16.1	75.8	8.1	100.0	2,712
20-24	19.0	75.7	5.3	100.0	2,623
25-29	17.9	77.2	5.0	100.0	2,770
30-34	15.8	79.2	5.0	100.0	2,425
35-39 40-44	15.8 15.5	81.0 80.5	3.3 4.1	100.0 100.0	2,196 1,789
45-49	15.5	80.3	4.2	100.0	1,712
Religion Catholic	7.5	85.0	7.5	100.0	1,783
Other Christian	8.4	86.3	5.3	100.0	5,867
Islam	24.1	71.4	4.5	100.0	8,503
Traditionalist	46.9	46.1	7.0	100.0	58
Other	(0.0)	(100.0)	(0.0)	100.0	15
Ethnic group Ekoi	10.2	97 E	2.2	100.0	70
EKOI Fulani	10.2 26.6	87.5 65.9	2.3 7.6	100.0 100.0	70 1,003
Hausa	25.7	71.7	2.6	100.0	4,627
Ibibio	4.1	90.7	5.2	100.0	310
lgala	1.9	91.7	6.4	100.0	72
lgbo	7.6	83.8	8.6	100.0	3,060
ljaw/lzon Kanuri/Beriberi	11.5	85.5	3.0	100.0	272
Tiv	12.7 0.7	85.8 98.9	1.4 0.4	100.0 100.0	405 319
Yoruba	12.8	79.2	8.0	100.0	2,937
Other	16.8	80.0	3.2	100.0	3,149
Residence					
Urban	12.0	81.7	6.4	100.0	8,358
Rural	21.6	74.6	3.8	100.0	7,869
Zone North Central	20.0	76.4	3.6	100.0	1,497
North East	20.4	75.1	4.5	100.0	2,705
North West	24.8	73.0	2.2	100.0	4,487
South East	7.5	82.7	9.8	100.0	2,395
South South South West	11.0 10.9	86.5 80.6	2.5 8.5	100.0 100.0	1,923 3,220
State	10.9	80.0	0.5	100.0	3,220
North Central					
FCT-Abuja	15.9	82.9	1.2	100.0	102
Benue	5.4	94.6	0.0	100.0	455
Kogi	1.9	98.1	0.0	100.0	168
Kwara	23.4	70.2	6.4	100.0	294
Nasarawa Niger	7.1 50.0	92.9 39.9	0.0 10.1	100.0 100.0	72 287
Plateau	32.0	64.4	3.6	100.0	118
North East					
Adamawa	0.0	100.0	0.0	100.0	379
Bauchi	8.9	79.6	11.5	100.0	664
Borno Gombe	3.4 17.1	95.8 69.4	0.8 13.5	100.0 100.0	547 163
Taraba	21.4	74.3	4.3	100.0	305
Yobe	58.8	40.2	1.0	100.0	647
North West					
Jigawa	12.2	87.6	0.1	100.0	891
Kaduna	30.5	65.2	4.3	100.0	1,249
Kano Katsina	4.8 12.6	93.2 83.8	2.0 3.6	100.0 100.0	1,166 120
Kebbi	67.7	31.3	3.6 1.1	100.0	406
Sokoto	26.3	64.7	9.0	100.0	83
Zamfara	44.2	55.0	0.8	100.0	573
South East	4	00.0	4.	400.0	22.4
Abia Anambra	15.4	83.2 78.0	1.4	100.0	231
Anambra Ebonyi	4.0 2.8	78.0 95.8	18.0 1.3	100.0 100.0	768 532
Enugu	1.6	95.5	2.9	100.0	365
Imo	18.5	66.3	15.2	100.0	499

Continued...

Background		Not	Don't know/		Number of
characteristic	Required	required	missing	Total	respondents
South South					
Akwa Ibom	3.4	92.7	3.9	100.0	373
Bayelsa	20.2	73.4	6.4	100.0	66
Cross River	8.2	87.9	3.9	100.0	201
Delta	4.8	92.7	2.5	100.0	420
Edo	24.5	73.6	1.9	100.0	284
Rivers	13.7	85.3	1.0	100.0	578
South West					
Ekiti	46.7	50.2	3.1	100.0	224
Lagos	7.6	78.8	13.6	100.0	1,480
Ogun	3.8	94.9	1.4	100.0	223
Ondo	20.1	62.7	17.2	100.0	305
Osun	8.1	90.3	1.6	100.0	511
Oyo	4.5	94.8	0.7	100.0	476
Education					
No education	27.7	68.8	3.5	100.0	5,310
Primary	14.5	79.9	5.5	100.0	2,346
Secondary	11.1	82.6	6.3	100.0	6,316
More than secondary	8.6	86.3	5.1	100.0	2,256
Wealth quintile					
Lowest	29.3	67.5	3.2	100.0	2,775
Second	21.0	75.2	3.9	100.0	2,695
Middle	15.7	79.9	4.5	100.0	2,965
Fourth	13.9	80.1	6.1	100.0	3,668
Highest	8.5	84.6	6.9	100.0	4,124
Total	16.6	78.2	5.1	100.0	16,227

Note: Total includes 3 women with missing information on ethnic group. Figures in parentheses are based on 25-49 unweighted cases.

Table 18.10 Opinions of women about whether the practice of circumcision should continue

Percent distribution of women age 15-49 who have heard of female circumcision by opinion on whether the practice of circumcision should be continued, according to background characteristics, Nigeria DHS 2018

Background characteristic	Continued	Not continued	Don't know/ missing/ depends	Total	Number of respondents
Female circumcision status					
Circumcised	41.7	46.2	12.1	100.0	5,202
Not circumcised	13.2	79.2	7.7	100.0	10,203
Age					
15-19	22.4	65.7	11.9	100.0	2,712
20-24	25.5	63.6	10.9	100.0	2,623
25-29	25.3	66.2	8.5	100.0	2,770
30-34 35-39	22.6 21.4	67.3 70.1	10.0 8.5	100.0 100.0	2,425 2,196
40-44	21.9	70.1	7.3	100.0	1,789
45-49	20.8	70.5	8.7	100.0	1,712
Religion					
Catholic	10.5	86.2	3.3	100.0	1,783
Other Christian	10.7	83.2	6.1	100.0	5,867
Islam	34.2	52.5	13.3	100.0	8,503
Traditionalist	39.1	57.7	3.2	100.0	58
Other	(0.0)	(100.0)	(0.0)	100.0	15
Ethnic group	F 0	00.0	4.0	100.0	70
Ekoi Fulani	5.2 35.7	90.0 53.4	4.8 10.9	100.0 100.0	70 1,003
Hausa	35. <i>1</i> 42.1	46.0	12.0	100.0	4,627
Ibibio	5.0	90.7	4.3	100.0	310
Igala	5.4	89.5	5.1	100.0	72
Igbo	12.6	84.3	3.1	100.0	3,060
ljaw/lzon	1.7	96.7	1.6	100.0	272
Kanuri/Beriberi Tiv	19.4 1.0	58.8 98.4	21.9 0.6	100.0 100.0	405 319
Yoruba	1.0	90. 4 71.1	14.1	100.0	2,937
Other	16.2	75.4	8.4	100.0	3,149
Residence					
Urban	16.0	74.4	9.6	100.0	8,358
Rural	30.6	59.9	9.5	100.0	7,869
Zone					
North Central	19.1	72.7	8.2	100.0	1,497
North East	24.7	62.1	13.2	100.0	2,705
North West	42.4	46.2	11.4	100.0	4,487
South East South South	13.9 9.1	84.0 86.4	2.0 4.5	100.0	2,395
South West	11.8	75.0	13.2	100.0 100.0	1,923 3,220
					-,
State North Central					
FCT-Abuja	6.2	87.9	5.9	100.0	102
Benue	0.2	99.8	0.0	100.0	455
Kogi	1.3	95.8	2.9	100.0	168
Kwara	30.1	53.1	16.7	100.0	294
Nasarawa Nigor	11.2 52.6	86.5 28.8	2.3 18.6	100.0 100.0	72 287
Niger Plateau	24.0	69.0	7.0	100.0	118
North East Adamawa	0.0	99.9	0.1	100.0	379
Bauchi	21.4	69.4	9.2	100.0	664
Borno	5.0	64.3	30.7	100.0	547
Gombe	6.6	80.2	13.2	100.0	163
Taraba	23.8	64.0	12.2	100.0	305
Yobe	64.2	25.1	10.8	100.0	647
North West	40.0	00.0	46.0	400.0	22.1
Jigawa	49.6	36.6	13.8	100.0	891
Kaduna Kano	57.9 22.8	26.0 68.3	16.1 8.9	100.0 100.0	1,249 1,166
Katsina	20.6	73.1	6.3	100.0	1,100
Kebbi	31.5	68.4	0.1	100.0	406
Sokoto	27.3	17.0	55.6	100.0	83
Zamfara	51.5	43.1	5.4	100.0	573
South East					
Abia	4.7	93.3	2.0	100.0	231
Anambra Ebonyi	11.9 7.3	85.2 92.1	3.0 0.6	100.0 100.0	768 532
Enugu	1.2	98.2	0.5	100.0	365
Imo	37.9	59.0	3.1	100.0	499

Continued...

Table 18.10—Continued					
			Don't know/		
Background	0	Not	missing/	T-4-1	Number of
characteristic	Continued	continued	depends	Total	respondents
South South					
Akwa Ibom	3.6	92.1	4.3	100.0	373
Bayelsa	2.3	97.0	0.7	100.0	66
Cross River	3.7	93.1	3.2	100.0	201
Delta	13.5	78.1	8.4	100.0	420
Edo	26.0	69.5	4.5	100.0	284
Rivers	3.8	93.7	2.5	100.0	578
South West					
Ekiti	44.6	49.3	6.1	100.0	224
Lagos	7.4	75.0	17.6	100.0	1,480
Ogun	6.3	87.1	6.5	100.0	223
Ondo	25.1	48.1	26.8	100.0	305
Osun	10.2	82.9	6.9	100.0	511
Oyo	5.7	90.0	4.2	100.0	476
Education					
No education	40.5	46.9	12.7	100.0	5,310
Primary	19.5	70.8	9.7	100.0	2,346
Secondary	15.2	76.7	8.1	100.0	6,316
More than secondary	7.9	85.8	6.3	100.0	2,256
Wealth quintile					
Lowest	42.1	47.5	10.4	100.0	2,775
Second	33.0	56.7	10.2	100.0	2,695
Middle	22.7	68.7	8.6	100.0	2,965
Fourth	16.2	73.6	10.2	100.0	3,668
Highest	10.2	81.1	8.8	100.0	4,124
Total 15-49	23.1	67.4	9.6	100.0	16,227

Note: Total includes 3 women with missing information on ethnic group. Figures in parentheses are based on 25-49 unweighted cases.

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SAMPLE DESIGN



A.1 Introduction

his section describes the objectives of the survey, the overall sample size, survey domains, and subsamples used. The 2018 Nigeria Demographic and Health Survey (2018 NDHS) is a nationwide survey with a nationally representative sample of approximately 42,000 selected households. All women age 15-49 who are usual members of the selected households or who spent the night before the survey in the selected households were eligible for individual interviews. In addition, a male survey was conducted at the same time in every third household selected for the female survey. In these households, all men age 15-49 who are usual members of the selected households or spent the night before the survey in the selected households were eligible for individual interviews.

The survey was designed to produce reliable estimates for key indicators at the national level as well as urban and rural areas, each of the country's six geographical zones, and each of the 36 states and the Federal Capital Territory (FCT).

A.2 SAMPLE FRAME

The sampling frame used for the 2018 NDHS is the Population and Housing Census of the Federal Republic of Nigeria (NPHC), which was conducted in 2006 by the National Population Commission (NPC). Administratively, Nigeria is divided into states. Each state is subdivided into local government areas (LGAs), and each LGA is divided into localities. In addition to these administrative units, during the 2006 NPHC, each locality was subdivided into convenient areas called census enumeration areas (EAs). The primary sampling unit (PSU), referred to as a cluster for the 2018 NDHS, is defined on the basis of EAs from the 2006 EA census frame.

Although the 2006 NPHC did not provide the number of households and population for each EA, population estimates were published for more than 800 LGA units. A combination of information from cartographic material demarcating each EA and the LGA population estimates from the census was used to identify the list of EAs, estimate the number of households, and distinguish EAs as urban or rural for the survey sample frame. Before the sample selection, all localities were classified separately into urban and rural areas based on the predetermined minimum size of urban areas (cut point); consistent with the official definition in 2017, any locality with more than a minimum size of 20,000 populations was classified as an urban locality. According to the 2006 census, Lagos was predominantly urban; however, some EAs in Lagos were defined as rural according to the 2017 official definition.

Table A.1 shows the state population growth rates, the distribution of the population in each state by residence based on the 2006 NPHC, and the forecasted 2017 population percentage distribution after applying the growth rates and the forecasted distribution of the urban population and after applying the urban/rural cut point. Table A.2 shows the distribution and number of EAs from the sampling frame after taking the 2017 urban/rural cut point into consideration.

Table A.1 Population distribution

Distribution of population in the census frame by state and residence

		Р	opulation in fra	ıme	Percent of total population	Percent urban (forecasted in
Zone/state	Growth rate	Urban	Rural	Total	2017)	2017)
North Central		6,306,370	14,066,404	20,372,774	15.21	35.28
FCT-Abuja	9.30	899,703	506,682	1,406,385	1.96	70.97
Benue	3.00	463,094	3,790,515	4,253,609	2.96	10.89
Kogi	3.00	1,110,418	2,204,910	3,315,328	2.31	36.76
Kwara	3.00	1,619,155	745,731	2,364,886	1.65	69.76
Nasarawa	3.00	411,089	1,459,609	1,870,698	1.30	22.84
Niger	3.40	931,288	3,023,387	3,954,675	2.88	25.80
Plateau	2.70	871,623	2,335,570	3,207,193	2.16	28.64
North East		4,170,827	14,814,133	18,984,960	13.57	23.10
Adamawa	2.90	783,977	2,395,523	3,179,500	2.19	26.15
Bauchi	3.40	611,908	4,039,764	4,651,672	3.38	14.39
Borno	3.40	1,387,434	2,784,113	4,171,547	3.03	34.66
Gombe	3.20	539,899	1,825,601	2,365,500	1.68	23.51
Taraba	2.90	355,091	1,940,734	2,295,825	1.58	16.17
Yobe	3.50	492,518	1,828,398	2,320,916	1.71	21.89
North West		10,073,745	25,846,767	35,920,512	25.26	30.07
Jigawa	2.90	452,462	3,909,329	4,361,791	3.00	11.07
Kaduna	3.00	2,799,079	3,315,487	6,114,566	4.25	47.31
Kano	3.30	3,925,245	5,478,986	9,404,231	6.76	45.37
Katsina	3.00	1,093,024	4,709,805	5,802,829	4.04	20.19
Kebbi	3.10	496,745	2,761,395	3,258,140	2.29	16.68
Sokoto	3.00	733,481	2,968,623	3,702,104	2.58	21.49
Zamfara	3.20	573,709	2,703,142	3,276,851	2.33	18.46
South East		9,861,839	6,534,453	16,396,292	11.31	63.51
Abia	2.70	551,090	2,293,502	2,844,592	1.92	20.46
Anambra	2.80	3,387,426	790,919	4,178,345	2.84	83.70
Ebonyi	2.80	1,827,862	348,889	2,176,751	1.48	86.86
Enugu	3.00	2,282,713	986,361	3,269,074	2.27	72.64
Imo	3.20	1,812,748	2,114,782	3,927,530	2.79	52.66
South South	0.40	7,085,129	13,963,895	21,049,024	14.89	36.79
Akwa Ibom	3.40	119,472	3,782,844	3,902,316	2.84	4.21
Bayelsa	2.90	410,562	1,293,325	1,703,887	1.17	28.61
Cross River	2.90	398,369	2,495,235	2,893,604	1.99	14.27
Delta	3.20	1,920,210	2,194,864	4,115,074	2.93	51.42
Edo	2.70	1,824,233	1,409,735	3,233,968	2.18	58.81
Rivers	3.40	2,412,283	2,787,892	5,200,175	3.78	51.63
South West	0.40	20,947,122	6,773,844	27,720,966	19.76	76.52
Ekiti	3.10	1,783,711	615,371	2,399,082	1.69	80.25
Lagos	3.20	9,112,690	4 005 407	9,112,690	6.48	100.00
Ogun	3.30	1,866,997	1,885,127	3,752,124	2.70	50.57
Ondo	3.00	1,608,673	1,852,151	3,460,824	2.41	47.80
Osun	3.20	2,605,526	810,424	3,415,950	2.43	76.71
Oyo	3.40	3,969,525	1,610,771	5,580,296	4.06	71.66
Nigeria		58,445,032	81,999,496	140,444,528	100.00	43.88

Source: The 2006 NPHC, conducted by the National Population Commission $\label{eq:conducted}$

Table A.2 Enumeration areas

Distribution of enumeration areas in the census frame by state and residence

Zone/state North Central	Urban	Rural	
North Control		Ruidi	Total
North Central	32,748	74,358	107,106
FCT-Abuja	2,452	1,138	3,590
Benue	2,006	20,850	22,856
Kogi	5,492	10,354	15,846
Kwara	11,715	4,556	16,271
Nasarawa	2,008	7,211	9,219
Niger	5,126	18,319	23,445
Plateau	3,949	11,930	15,879
North East	20,044	71,752	91,796
Adamawa	2,820	9,988	12,808
Bauchi	2,761	17,124	19,885
Borno	7,798	16,288	24,086
Gombe	1,955	7,539	9,494
Taraba	1,657	8,943	10,600
Yobe	3,053	11,870	14,923
North West	43,912	115,200	159,112
Jigawa	2,293	18,900	21,193
Kaduna	9,529	12,263	21,792
Kano	16,957	19,402	36,359
Katsina	6,874	26,442	33,316
Kebbi	2,621	14,020	16,641
Sokoto	2,548	10,231	12,779
Zamfara	3,090	13,942	17,032
South East	52,206	28,728	80,934
Abia	2,106	9,463	11,569
Anambra	18,409	3,498	21,907
Ebonyi	11,911	1,977	13,888
Enugu	9,774	4,223	13,997
Imo	10,006	9,567	19,573
South South	34,398	63,907	98,305
Akwa Ibom	908	16,205	17,113
Bayelsa	2,628	6,379	9,007
Cross River	1,410	14,912	16,322
Delta	9,008	9,201	18,209
Edo	7,964	4,829	12,793
Rivers	12,480	12,381	24,861
South West	92,750	34,996	127,746
Ekiti	9,438	2,123	11,561
Lagos	25,424		25,424
Ogun	7,085	7,408	14,493
Ondo	8,588	10,667	19,255
Osun	19,810	6,097	25,907
Oyo	22,405	8,701	31,106
Nigeria	276,058	388,941	664,999

Source: The 2006 NPHC, conducted by the National Population Commission

A.3 SAMPLE DESIGN AND IMPLEMENTATION

The sample for the 2018 NDHS is a stratified sample selected in two stages. Stratification was achieved by separating each of the 37 states into urban and rural areas. In total, 74 sampling strata were identified. Samples were selected independently in every stratum through a two-stage selection. Implicit stratifications were achieved at each of the lower administrative levels by sorting the sampling frame before sample selection according to administrative order and by using a probability proportional to size selection at the first sampling stage.

In the first stage, 1,400 EAs were selected with probability proportional to EA size. EA size is the number of households in the EA. A household listing operation were carried out in all selected EAs, and the resulting lists of households served as the sampling frame for selection of households in the second stage. In the second stage's selection, a fixed number of 30 households were selected in every cluster by an equal probability systematic sampling.

During the household listing operation, about 11 clusters were dropped; these clusters were found to be insecure or vacated due to high levels of insurgency. In addition, due to extreme security issues in Borno, 11 LGAs where about 39% of Borno households reside were dropped from the survey. Clusters selected from the dropped LGAs were replaced with other clusters from the remaining 16 LGAs in Borno. Consequently, provincial level estimates for Borno are not representative for the dropped LGAs.

Table A.3 shows the distribution of sample EAs by urban and rural residence for each state and for each of the six geographic zones. **Table A.4** shows the distribution of the expected number of completed interviews with women age 15-49 and men 15-49 by urban and rural residence for each state and for each of the six geographic zones.

Table A.3 Sample allocation of clusters and households by state

Sample allocation of clusters and households by state, according to residence, Nigeria 2018

	Allo	cation of clu	sters	Alloca	ation of hous	eholds
Zone/state	Urban	Rural	Total	Urban	Rural	Total
North Central	92	160	252	2,760	4,800	7,560
FCT-Abuja	22	13	35	660	390	1,050
Benue	5	33	38	150	990	1,140
Kogi	12	24	36	360	720	1,080
Kwara	24	11	35	720	330	1,050
Nasarawa	9	26	35	270	780	1,050
Niger	10	28	38	300	840	1,140
Plateau	10	25	35	300	750	1,050
North East	52	165	217	1,560	4,950	6,510
Adamawa	10	25	35	300	750	1,050
Bauchi	6	33	39	180	990	1,170
Borno	13	25	38	390	750	1,140
Gombe	9	26	35	270	780	1,050
Taraba	6	29	35	180	870	1,050
Yobe	8	27	35	240	810	1,050
North West	77	208	285	2,310	6,240	8,550
Jigawa	5	34	39	150	1,020	1,170
Kaduna	20	23	43	600	690	1,290
Kano	22	31	53	660	930	1,590
Katsina	9	33	42	270	990	1,260
Kebbi	6	29	35	180	870	1,050
Sokoto	8	29	37	240	870	1,110
Zamfara	7	29	36	210	870	1,080
South East	113	73	186	3,390	2,190	5,580
Abia	8	28	36	240	840	1,080
Anambra	32 30	7 6	39 36	960 900	210 180	1,170
Ebonyi	25	11	36		330	1,080
Enugu	25 18	21	39	750	630	1,080 1,170
Imo South South	75	146	221	540 2,250		6,630
Akwa Ibom	3	34	37	2,250 90	4,380 1,020	1,110
	9	26	35	270	780	1,110
Bayelsa Cross River	6	29	35	180	870	1,050
Delta	18	20	38	540	600	1,140
Edo	20	15	35	600	450	1,050
Rivers	19	22	41	570	660	1,030
South West	171	68	239	5,130	2,040	7,170
Ekiti	26	9	35	780	270	1,050
Lagos	50 50	3	53	1,500	90	1,590
Ogun	18	19	37	540	570	1,110
Ondo	17	19	36	510	570	1,080
Osun	27	9	36	810	270	1,080
Oyo	30	12	42	900	360	1,260
Nigeria	580	820	1,400	17,310	24,690	42,000
11190114	000	020	1,700	17,010	24,000	72,000

Table A.4 Sample allocation of expected completed interviews with women and men

Sample allocation of expected completed interviews with women and men by state, according to residence, Nigeria 2018

		Women			Men	
Zone/state	Urban	Rural	Total	Urban	Rural	Total
North Central	2,568	4,754	7,322	788	1,384	2,172
FCT-Abuja	615	386	1,001	188	112	300
Benue	139	981	1,120	43	286	329
Kogi	335	714	1,049	103	208	311
Kwara	670	327	997	205	95	300
Nasarawa	251	772	1,023	77	225	302
Niger	279	832	1,111	86	242	328
Plateau	279	742	1,021	86	216	302
North East	1,452	4,901	6,353	444	1,428	1,872
Adamawa	279	742	1,021	86	216	302
Bauchi	168	981	1,149	51	286	337
Borno	363	742	1,105	111	216	327
Gombe	251	772	1,023	77	225	302
Taraba	168	862	1,030	51	251	302
Yobe	223	802	1,025	68	234	302
North West	2,150	6,182	8,332	658	1,800	2,458
Jigawa	139	1,010	1,149	43	294	337
Kaduna	559	684	1,243	171	199	370
Kano	615	921	1,536	188	268	456
Katsina	251	981	1,232	77	286	363
Kebbi	168	862	1,030	51	251	302
Sokoto	223	862	1,085	68	251	319
Zamfara	195	862	1,057	60	251	311
South East	3,156	2,170	5,326	967	631	1,598
Abia	223	832	1,055	68	242	310
Anambra	894	208	1,102	274	60	334
Ebonyi	838	179	1,017	257	52	309
Enugu	698	327	1,025	214	95	309
Imo	503	624	1,127	154	182	336
South South	2,094	4,339	6,433	641	1,263	1,904
Akwa Ibom	83	1,010	1,093	26	294	320
Bayelsa	251	772	1,023	77	225	302
Cross River	168	862	1,030	51	251	302
Delta	503	595	1,098	154	173	327
Edo	559	446	1.005	171	130	301
Rivers	530	654	1,184	162	190	352
South West	4,692	2,109	6,801	1,438	614	2,052
Ekiti	726	267	993	223	78	301
Lagos	1,397	89	1,486	428	26	454
Ogun	503	565	1,068	154	164	318
Ondo	474	565	1,039	145	164	309
Osun	754	267	1,021	231	78	309
Oyo	838	356	1,194	257	104	361
Nigeria	16,112	24,455	40,567	4,936	7,120	12,056

The above sample allocation is calculated based on data obtained in the 2013 Nigeria Demographic and Health Survey (2013 NDHS): there are 1.007 and 1.056 women age 15-49 per household in urban and rural areas, respectively, and there are 0.953 and 0.942 men age 15-49 per household in urban and rural areas, respectively. The household completion rate is 95%; response rates are 97% for women and 95% for men.

Table A.5 and Table A.6 present response rates for women and men, respectively, by urban and rural areas and by zones. The male subsample constituted one in three of the households selected for the women's sample.

Table A.5 Sample implementation: Women

Percent distribution of households and eligible women age 15-49 by results of the household and individual interviews, and household, eligible women, and overall women response rates, according to residence and zone (unweighted), Nigeria DHS 2018

	Res	idence			Zo	one				
Result	Urban	Rural	North Central	North East	North West	South East	South South	South West	Total	
Selected households										
Completed (C)	97.1	97.0	97.3	97.9	97.8	96.7	93.4	98.7	97.0	
Household present but no competent										
respondent at home (HP)	0.2	0.2	0.1	0.1	0.1	0.3	8.0	0.1	0.2	
Postponed (P)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Refused (R)	0.5	0.2	0.1	0.2	0.1	0.3	0.9	0.3	0.3	
Dwelling not found (DNF)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	
Household absent (HA)	1.4	1.5	1.5	8.0	1.1	1.7	3.5	0.4	1.5	
Dwelling vacant/address not a dwelling										
(DV)	0.7	0.8	0.9	0.5	0.7	0.9	1.2	0.4	8.0	
Dwelling destroyed (DD)	0.1	0.1	0.0	0.3	0.1	0.0	0.1	0.1	0.1	
Other (O)	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Number of sampled households	17,282	24,386	7,560	6,510	8,249	5,580	6,629	7,140	41,668	
Household response rate (HRR) ¹	99.3	99.5	99.8	99.7	99.7	99.3	98.1	99.6	99.4	
Eligible women										
Completed (EWC)	99.2	99.4	99.7	99.2	99.3	98.7	99.1	99.6	99.3	
Not at home (EWNH)	0.2	0.2	0.1	0.3	0.2	0.4	0.3	0.1	0.2	
Refused (EWR)	0.2	0.1	0.0	0.2	0.2	0.2	0.3	0.1	0.2	
Incapacitated (EWI)	0.2	0.1	0.1	0.2	0.1	0.4	0.1	0.1	0.2	
Other (EWO)	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Number of women	17,127	24.994	7.795	7.704	10.201	5,646	5,125	5.650	42,121	
Eligible women response rate (EWRR) ²	99.2	99.4	99.7	99.2	99.3	98.7	99.1	99.6	99.3	
Overall women response rate (ORR) ³	98.4	98.9	99.5	98.8	99.0	98.0	97.3	99.3	98.7	

¹ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

 $^{^2}$ The eligible women response rate (EWRR) is equivalent to the percentage of interviews completed (EWC). 3 The overall women response rate (OWRR) is calculated as:

OWRR = HRR * EWRR/100

Table A.6 Sample implementation: Men

Percent distribution of households and eligible men age 15-59 by results of the household and individual interviews, and household, eligible men, and overall men response rates, according to urban-rural residence and zone (unweighted), Nigeria DHS 2018

	Resi	dence			Z	one			
Result	Urban	Rural	North Central	North East	North West	South East	South South	South West	Total
Selected households									
Completed (C)	97.4	97.2	97.5	98.0	97.4	97.8	94.2	98.7	97.3
Household present but no competent	0.0	0.0	0.4	0.4	0.0	0.0	4.0	0.4	0.0
respondent at home (HP)	0.3	0.3	0.1	0.1	0.2	0.2	1.0	0.1	0.3
Postponed (P)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Refused (R)	0.5	0.2	0.1	0.1	0.1	0.2	1.2	0.3	0.3
Dwelling not found (DNF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Household absent (HA)	1.2	1.6	1.5	1.2	1.5	1.2	2.5	0.6	1.4
Dwelling vacant/address not a dwelling									
(DV)	0.6	0.5	0.6	0.2	0.7	0.5	1.0	0.2	0.5
Dwelling destroyed (DD)	0.0	0.1	0.0	0.3	0.1	0.0	0.0	0.1	0.1
Other (O)	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of sampled households	5,762	8,131	2,521	2,170	2,750	1,860	2,210	2,382	13,893
Household response rate (HRR) ¹	99.2	99.4	99.7	99.7	99.7	99.5	97.7	99.6	99.3
Eligible men									
Completed (EMC)	99.3	99.1	98.9	99.6	99.1	98.2	99.2	100.0	99.2
Not at home (EMNH)	0.3	0.4	0.2	0.2	0.4	1.0	0.4	0.0	0.3
Refused (EMR)	0.2	0.1	0.2	0.0	0.1	0.4	0.2	0.0	0.1
Partly completed (EMPC)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Incapacitated (EMI)	0.3	0.2	0.5	0.1	0.2	0.3	0.2	0.0	0.2
Other (EMO)	0.0	0.2	0.3	0.1	0.1	0.1	0.0	0.0	0.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of men	5,547	7,875	2,443	2,458	2,986	1.787	1.710	2,038	13,422
Eligible men response rate (EMRR) ²	99.3	99.1	98.9	99.6	99.1	98.2	99.2	100.0	99.2
Overall men response rate (ORR) ³	98.5	98.5	98.6	99.3	98.8	97.7	97.0	99.6	98.5

¹ Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

OMRR = HRR * EMRR/100

² The eligible men response rate (EMRR) is equivalent to the percentage of interviews completed (EMC).
³ The overall men response rate (OMRR) is calculated as:

A.4 SAMPLE PROBABILITIES AND SAMPLING WEIGHTS

Due to the non-proportional allocation of the sample to the different states and the possible differences in response rates, sampling weights are required for any analysis using the 2018 NDHS data to ensure the actual representative of the survey results at the national level as well as the domain level. Since the 2018 NDHS sample is a two-stage stratified cluster sample selected from the sampling frame, sampling weights were calculated based on sampling probabilities separately for each sampling stage and for each cluster. The following notations were used:

 P_{1hi} : first-stage sampling probability of the i^{th} cluster in stratum h

 P_{2hi} : second-stage sampling probability within the i^{th} cluster (households)

Let a_h be the number of clusters selected in stratum h, M_{hi} the number of households according to the sampling frame in the ith cluster, and $\sum M_{hi}$ the total number of households in the stratum. The probability of selecting the ith cluster in the NDHS sample is calculated as follows:

$$\frac{a_h M_{hi}}{\sum M_{hi}}$$

Let b_{hi} be the proportion of households in the selected segment relative to the total number of households in EA i in stratum h if the EA is segmented; otherwise, $b_{hi} = 1$. Then the probability of selecting cluster i in the sample is:

$$P_{lhi} = \frac{a_h M_{hi}}{\sum M_{hi}} \times b_{hi}$$

Let L_{hi} be the number of households listed in the household listing operation in cluster i in stratum h, and let g_{hi} be the number of households selected in the cluster. The second stage's selection probability for each household in the cluster is calculated as follows:

$$P_{2hi} = \frac{g_{hi}}{L_{hi}}$$

The overall selection probability of each household in cluster *i* of stratum *h* is therefore the product of the selection probabilities:

$$P_{hi} = P_{1hi} \times P_{2hi}$$

The design weight for each household in cluster i of stratum h is the inverse of its overall selection probability:

$$W_{hi} = 1/P_{hi}$$

The design weights were adjusted for household non-response and individual non-response to obtain the sampling weights for households and for women and men, respectively. Non-response is adjusted at the sampling stratum level. For the household sampling weight, the household design weight is multiplied by the inverse of the household response rate by stratum. For women's individual sampling weight, the household sampling weight is multiplied by the inverse of women's individual response rate by stratum. After adjusting for non-response, the sampling weights are normalized to obtain the final standard weights that appear in the data files. The normalization process is done to obtain a total number of unweighted cases equal to the total number of weighted cases at the national level for the total number of households, women, and men. Normalization is done by multiplying the sampling weight by the estimated sampling fraction obtained from the survey for the household weight and the individual women's and men's weights. The normalized weights are relative weights that are valid for estimating means, proportions, ratios, and rates but are not valid for estimating population totals or for pooled data. A special weight for domestic violence was calculated that accounts for the selection of one woman per household.

ESTIMATES OF SAMPLING ERRORS

he estimates from a sample survey are affected by two types of errors: nonsampling errors and sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the 2018 Nigeria Demographic and Health Survey (NDHS) to minimise this type of error, nonsampling errors are impossible to avoid and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the 2018 NDHS is only one of many samples that could have been selected from the same population, using the same design and expected size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability among all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

Sampling error is usually measured in terms of the *standard error* for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in 95% of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2018 NDHS sample is the result of a multistage stratified design, and, consequently, it was necessary to use more complex formulas. Sampling errors are computed in SAS, using programs developed by ICF. These programs use the Taylor linearisation method to estimate variances for survey estimates that are means, proportions, or ratios. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearisation method treats any percentage or average as a ratio estimate, r = y/x, where y represents the total sample value for variable y and x represents the total number of cases in the group or subgroup under consideration. The variance of r is computed using the formula given below, with the standard error being the square root of the variance:

$$SE^{2}(r) = var(r) = \frac{1 - f}{x^{2}} \sum_{h=1}^{H} \left[\frac{m_{h}}{m_{h} - 1} \left(\sum_{i=1}^{m_{h}} z_{hi}^{2} - \frac{z_{h}^{2}}{m_{h}} \right) \right]$$

in which

$$z_{hi} = y_{hi} - rx_{hi}$$
 and $z_h = y_h - rx_h$

where h represents the stratum, which varies from 1 to H;

 m_h is the total number of clusters selected in the h^{th} stratum;

 y_{hi} is the sum of the weighted values of variable y in the i^{th} cluster in the h^{th} stratum;

 x_{hi} is the sum of the weighted number of cases in the i^{th} cluster in the h^{th} stratum; and

f is the overall sampling fraction, which is so small that it is ignored.

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample and calculates standard errors for these estimates using simple formulas. Each replication considers *all but one* cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the 2018 NDHS, there were 1,389 non-empty clusters. Hence, 1,389 replications were created. The variance of a rate *r* is calculated as follows:

$$SE^{2}(r) = var(r) = \frac{1}{k(k-1)} \sum_{i=1}^{k} (r_{i} - r)^{2}$$

in which

$$r_i = kr - (k-1)r_{(i)}$$

where r is the estimate computed from the full sample of 1,389 clusters,

 $r_{(i)}$ is the estimate computed from the reduced sample of 1,388 clusters (i^{th} cluster excluded), and

k is the total number of clusters.

In addition to the standard error, the design effect (DEFT) for each estimate is calculated. The design effect is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design. Relative standard errors and confidence limits for the estimates are also calculated.

Sampling errors for the 2018 NDHS are calculated for selected variables considered to be of primary interest. The results are presented in this appendix for the country as a whole, for urban and rural areas, for each of the six zones, and for each of the 36 states and the Federal Capital Territory. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in **Table B.1**. **Tables B.2** through **B.47** present the value of the statistic (R), its standard error (SE), the number of unweighted (N) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95% confidence limits (R±2SE) for each selected variable. The DEFT is considered undefined when the standard error considering a simple random sample is zero (when the estimate is close to 0 or 1).

The confidence interval (e.g., as calculated for *ideal number of children*) can be interpreted as follows: the overall average from the national sample is 6.087, and its standard error is 0.042. Therefore, to obtain the 95% confidence limits, one adds and subtracts twice the standard error to the sample estimate, that is, $6.087 \pm 2 \times 0.042$. There is a high probability (95%) that the true ideal number of children is between 6.003 and 6.171.

For the total sample, the value of the DEFT, averaged over all variables, is 1.8. This means that, due to multi-stage clustering of the sample, the average standard error is increased by a factor of 1.8 over that in an equivalent simple random sample.

Table B.1 List of selected variables for sampling errors, Nige Variable		Rasa nonulation
	Estimate DUSEHOLDS AND PO	Base population
Ownership of at least one ITN	Proportion Proportion	Households
Ownership of at least one HN De facto population with access to an ITN	Proportion Proportion	De facto household population
Household population that slept under an ITN last night	Proportion	De facto household population
	WOMEN	
Jrban residence	Proportion	Women 15-49 Women 15-49
Literacy No education	Proportion Proportion	Women 15-49 Women 15-49
Secondary education or higher	Proportion	Women 15-49
Never married/never in union	Proportion	Women 15-49
Currently married/in union	Proportion	Women 15-49
Married before age 18	Proportion	Women 20-49
lad sexual intercourse before age 18	Proportion	Women 20-49
Currently pregnant	Proportion	Women 15-49
Know any contraceptive method	Proportion	Currently married women 15-49
Know a modern method	Proportion	Currently married women 15-49
Currently using any method	Proportion	Currently married women 15-49
Currently using a modern method	Proportion	Currently married women 15-49
Currently using pill	Proportion	Currently married women 15-49
Currently using male condoms	Proportion	Currently married women 15-49
Currently using injectables	Proportion	Currently married women 15-49
Currently using implants	Proportion	Currently married women 15-49
Currently using female sterilisation	Proportion	Currently married women 15-49
Currently using withdrawal	Proportion	Currently married women 15-49
Currently using rhythm	Proportion	Currently married women 15-49
Jsed public sector source	Proportion	Current users of modern method Currently married women 15-49
Nant no more children Nant to delay next birth at least 2 years	Proportion Proportion	•
deal number of children	Mean	Currently married women 15-49 Women 15-49
deal number of children Nothers protected against tetanus for last birth	Proportion	Women with a live birth in last 5 years
Births with skilled attendant at delivery	Proportion	Births occurring 1-59 months before survey
Received 3+ doses of SP/Fansidar	Proportion	Last birth of women 15-49 with live births in the last 2 years
Freated with ORS	Proportion	Children under 5 with diarrhoea in past 2 weeks
Sought medical treatment for diarrhoea	Proportion	Children under 5 with diarrhoea in past 2 weeks
Ever had vaccination card	Proportion	Children 12-23 months
Received BCG vaccination	Proportion	Children 12-23 months
Received birth dose HepB vaccination	Proportion	Children 12-23 months
Received DPT-HepB-Hib vaccination (3 doses)	Proportion	Children 12-23 months
Received birth dose polio 0 vaccination	Proportion	Children 12-23 months
Received polio vaccination (3 doses)	Proportion	Children 12-23 months
Received pneumococcal vaccination (3 doses)	Proportion	Children 12-23 months
Received measles 1 vaccination	Proportion	Children 12-23 months
Received all basic vaccinations (12-23 months)	Proportion	Children 12-23 months
Received all age-appropriate vaccinations (12-23 months)	Proportion	Children 12-23 months
Received measles 2 vaccination	Proportion	Children 24-35 months
Received all age-appropriate vaccinations (24-35 months)	Proportion	Children 24-35 months
Height-for-age (-2SD)	Proportion	Children under 5 who were measured
Weight-for-height (-2SD)	Proportion	Children under 5 who were measured
Weight-for-age (-2SD)	Proportion	Children under 5 who were measured
Body mass index (BMI) <18.5	Proportion	Women 15-49 who were measured
3ody mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	Proportion Proportion	Women 15-49 who were measured Children 6-59 months who were tested
Prevalence of anaemia (children 6-39 months)	Proportion	Children 6-59 months tested (on microscopy) for malaria
Prevalence of malaria (based on microscopy test)	Proportion	Children 6-59 months tested (on microscopy) for malaria
Prevalence of malaria (based of rapid test)	Proportion	Women 15-49 who were tested
Had 2+ sexual partners in past 12 months	Proportion	Women 15-49
Torrada paranoro ar paot 12 montro	oportion	Women 15-49 with non-marital, non-cohabiting partner in past 12
Condom use at last sex	Proportion	months
Abstinence among young people (never had sex)	Proportion	Never-married women 15-24
Discriminatory attitudes towards people with HIV	Proportion	Women who have heard of HIV/AIDS
Prevalence of sickle cell disease among children 6-59 months	Proportion	Children 6-59 months who were tested
Total fertility rate (3 years)	Rate	Women-years of exposure to childbearing
Neonatal mortality rate ¹	Rate	Children exposed to the risk of mortality
Postneonatal mortality rate ¹	Rate	Children exposed to the risk of mortality
nfant mortality rate ¹	Rate	Children exposed to the risk of mortality
Child mortality rate ¹	Rate	Children exposed to the risk of mortality
Jnder-5 mortality rate ¹	Rate	Children exposed to the risk of mortality
	MEN	
Jrban residence	Proportion	Men 15-49
iteracy	Proportion	Men 15-49
No education	Proportion	Men 15-49
Secondary education or higher	Proportion	Men 15-49
Never married/never in union	Proportion	Men 15-49
Currently married/in union	Proportion	Men 15-49
lad sexual intercourse before age 18	Proportion	Men 20-49
Know any contraceptive method	Proportion	Currently married men 15-49
Know a modern method	Proportion	Currently married men 15-49
Vant no more children	Proportion	Currently married men 15-49
Vant to delay next birth at least 2 years	Proportion	Currently married men 15-49
deal number of children	Mean	Men 15-49
Had 2+ sexual partners in past 12 months	Proportion	Men 15-49
Condom use at last sex	Proportion	Men 15-49 with non-marital, non-cohabiting partner in past 12 mont
Abstinence among young people (never had sex)	Proportion	Never-married men 15-24
Paid for sexual intercourse in past 12 months Discriminatory attitudes towards people with HIV	Proportion Proportion	Men 15-49 Men who have heard of HIV/AIDS

¹ Mortality rates are calculated for the 5 years before the survey for the national, urban, and rural samples and for the 10 years before the survey for the regional samples.

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ownership of at least one ITN	0.606	0.006	POPULATION 40,427	40,427	2.515	0.010	0.594	0.619
De facto population with access to an ITN	0.475	0.005	186,327	187,974	2.230	0.011	0.465	0.485
Household population that slept under an ITN last night	0.432	0.005	186,327	187,974	2.186	0.012	0.422	0.443
Urban residence	0.458	0.009	N 41,821	41,821	3.774	0.020	0.440	0.477
Literacy	0.531	0.008	41,821	41,821	3.172	0.015	0.515	0.546
No education Secondary or higher education	0.349 0.506	0.008 0.008	41,821 41,821	41,821 41,821	3.473 3.171	0.023 0.015	0.333 0.491	0.365 0.522
Never married (never in union)	0.252	0.005	41,821	41,821	2.172	0.018	0.243	0.262
Currently married (in union) Married before age 18	0.696 0.431	0.005 0.007	41,821 33,398	41,821 33,373	2.219 2.595	0.007 0.016	0.686 0.417	0.706 0.445
Had sexual intercourse before age 18	0.431	0.007	33,398	33,373	2.393	0.010	0.558	0.583
Currently pregnant	0.101 0.945	0.002	41,821	41,821	1.417	0.021 0.003	0.097 0.939	0.105 0.952
Know any contraceptive method Know a modern method	0.945	0.003 0.003	28,888 28,888	29,090 29,090	2.313 2.362	0.003	0.939	0.932
Currently using any method	0.166	0.005	28,888	29,090	2.342	0.031	0.156	0.177
Currently using a modern method Currently using pill	0.120 0.014	0.004 0.001	28,888 28,888	29,090 29,090	1.835 1.705	0.029 0.085	0.113 0.011	0.127 0.016
Currently using male condoms	0.016	0.001	28,888	29,090	1.449	0.067	0.014	0.018
Currently using injectables Currently using implants	0.032 0.034	0.002 0.002	28,888 28,888	29,090 29,090	1.550 1.602	0.050 0.050	0.029 0.030	0.036 0.037
Currently using female sterilisation	0.002	0.000	28,888	29,090	1.247	0.150	0.002	0.003
Currently using withdrawal Currently using rhythm	0.026 0.014	0.002 0.001	28,888 28,888	29,090 29,090	1.707 1.421	0.062 0.069	0.022 0.012	0.029 0.016
Using public sector source	0.540	0.013	3,929	4,050	1.600	0.024	0.515	0.565
Want no more children Want to delay next birth at least 2 years	0.245 0.300	0.004 0.004	28,888 28,888	29,090 29,090	1.452 1.569	0.015 0.014	0.237 0.291	0.252 0.308
Ideal number of children	6.087	0.042	40,670	40,621	2.879	0.007	6.003	6.171
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.617 0.434	0.008 0.008	21,792 33,924	21,911 34,193	2.410 2.496	0.013 0.019	0.601 0.417	0.632 0.451
Received 3+ doses of SP/Fansidar	0.434	0.005	12,818	12,935	1.508	0.019	0.417	0.431
Treated with ORS	0.400 0.676	0.012	3,956	3,950	1.495	0.031	0.376	0.425
Sought medical treatment for diarrhoea Ever had vaccination card	0.682	0.010 0.010	3,956 6,059	3,950 6,143	1.346 1.720	0.015 0.015	0.655 0.661	0.696 0.702
Received BCG vaccination	0.667	0.011	6,059	6,143	1.778	0.016	0.645	0.688
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.524 0.501	0.011 0.011	6,059 6,059	6,143 6,143	1.685 1.750	0.021 0.023	0.503 0.478	0.546 0.523
Received birth dose polio 0 vaccination	0.545	0.011	6,059	6,143	1.680	0.020	0.524	0.567
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.472 0.473	0.010 0.011	6,059 6,059	6,143 6,143	1.505 1.725	0.021 0.023	0.453 0.451	0.492 0.496
Received measles 1 vaccination	0.540	0.010	6,059	6,143	1.632	0.019	0.519	0.561
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.313 0.228	0.009 0.008	6,059 6,059	6,143 6,143	1.490 1.495	0.029 0.036	0.295 0.212	0.331 0.245
Received measles 2 vaccination	0.156	0.007	5,834	5,835	1.392	0.043	0.142	0.169
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.049 0.367	0.004 0.006	5,834 12,360	5,835 12,564	1.397 1.339	0.082 0.017	0.041 0.355	0.057 0.380
Weight-for-height (-2SD)	0.068	0.003	12,397	12,613	1.217	0.042	0.062	0.073
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.217 0.121	0.005 0.004	12,458 12,904	12,670 12,728	1.330 1.432	0.025 0.034	0.206 0.113	0.228 0.129
Body mass index (BMI) >10.5 Body mass index (BMI) ≥25	0.282	0.006	12,904	12,728	1.380	0.020	0.271	0.293
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.679 0.226	0.007 0.007	11,206 8,127	11,391 8,298	1.522 1.408	0.011 0.033	0.664 0.211	0.693 0.241
Prevalence of malaria (based on rapid test)	0.362	0.007	11,173	11,351	1.539	0.033	0.346	0.241
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.578 0.013	0.006 0.001	14,750 41,821	14,617 41,821	1.434 1.585	0.010 0.067	0.566 0.011	0.590 0.015
Condom use at last sex	0.013	0.001	535	553	1.360	0.083	0.011	0.013
Abstinence among young people (never had sex)	0.734	0.007	8,886	8,763	1.479	0.009	0.720	0.748
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.594	0.006	39,257	39,433	2.470	0.010	0.582	0.607
months Total fertility rate (last 3 years)	0.013 5.288	0.002 0.067	11,206 116,888	11,391 116,876	1.470 1.854	0.125 0.013	0.010 5.153	0.017 5.422
Neonatal mortality (last 0-4 years)	5.288 39.259	1.899	33,936	34,178	1.854	0.013	35.461	5.422 43.057
Postneonatal mortality (last 0-4 years)	28.032	1.213	33,949	34,187	1.263	0.043	25.606	30.459
Infant mortality (last 0-4 years) Child mortality (last 0-4 years)	67.291 69.411	2.289 2.898	34,013 34,285	34,255 34,597	1.454 1.597	0.034 0.042	62.714 63.615	71.869 75.208
Under-5 mortality (last 0-4 years)	132.032	4.060	34,872	35,203	1.737	0.031	123.911	140.153
Urban residence	0.464	0.009	11,845	11,868	1.961	0.019	0.446	0.482
Literacy	0.720	0.008	11,845	11,868	1.963	0.011	0.704	0.736
No education Secondary or higher education	0.215 0.651	0.008 0.009	11,845 11,845	11,868 11,868	2.151 1.961	0.038 0.013	0.199 0.633	0.232 0.668
Never married (in union)	0.417	0.007	11,845	11,868	1.496	0.016	0.404	0.431
Currently married (in union)	0.572 0.144	0.007 0.005	11,845	11,868	1.494	0.012 0.032	0.558	0.585 0.154
Had first sexual intercourse before age 18 Knows any contraceptive method	0.144	0.005	9,371 6,611	9,453 6,786	1.287 1.301	0.032	0.135 0.977	0.154
Knows any modern contraceptive method	0.978	0.002	6,611	6,786	1.349	0.002	0.973	0.983
Want no more children Want to delay birth at least 2 years	0.191 0.292	0.006 0.007	6,611 6,611	6,786 6,786	1.318 1.266	0.033 0.024	0.178 0.277	0.203 0.306
Ideal number of children	7.166	0.081	11,181	11,240	1.583	0.011	7.004	7.328
Had 2+ sexual partners in past 12 months Condom use at last sex	0.128 0.227	0.004 0.013	11,845 1,490	11,868 1,524	1.273 1.199	0.030 0.057	0.121 0.201	0.136 0.253
Abstinence among young people (never had sex)	0.813	0.008	3,778	3,642	1.303	0.010	0.796	0.830
Had paid sex in past 12 months Discriminatory attitudes towards people with HIV	0.027 0.581	0.002 0.007	11,845 11,191	11,868 11,275	1.251 1.526	0.069 0.012	0.023 0.567	0.030 0.596

Table B.3 Sampling errors: Urban sample, Nigeria DHS			Number	of cases			Confidence limits		
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper	
	(R)	(SE)	(N) POPULATION	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)	
Ownership of at least one ITN	0.528	0.010	16,780	18,940	2.465	0.018	0.509	0.547	
De facto population with access to an ITN	0.413	0.008	72,015	81,686	2.174	0.019	0.398	0.428	
Household population that slept under an ITN last night	0.356	0.008	72,015	81,686	2.107	0.022	0.341	0.372	
Trouserrole population that slept under all TTV last high	0.000	WOME	-	01,000	2.107	0.022	0.041	0.072	
Urban residence	1.000	0.000	16,984	19,163	0.000	0.000	1.000	1.000	
Literacy	0.740	0.010	16,984	19,163	2.916	0.013	0.720	0.759	
No education	0.156	0.008	16,984	19,163	3.032	0.054	0.139	0.173	
Secondary or higher education	0.710	0.010	16,984	19,163	2.952	0.014	0.690	0.731	
Never married (never in union) Currently married (in union)	0.322	0.007	16,984	19,163	1.895	0.021	0.309	0.336	
	0.615	0.007	16,984	19,163	1.878	0.011	0.601	0.629	
Married before age 18	0.268	0.009	13,608	15,349	2.422	0.034	0.250	0.286	
Had sexual intercourse before age 18	0.416	0.009	13,608	15,349	2.145	0.022	0.398	0.434	
Currently pregnant	0.079	0.003	16,984	19,163	1.389	0.036	0.073	0.085	
Know any contraceptive method Know a modern method	0.979	0.003	10,403	11,790	2.122	0.003	0.973	0.985	
	0.977	0.003	10,403	11,790	2.068	0.003	0.971	0.983	
Currently using any method Currently using a modern method	0.264	0.009	10,403	11,790	2.102	0.034	0.245	0.282	
	0.182	0.006	10,403	11.790	1.506	0.031	0.171	0.194	
Currently using pill	0.023	0.003	10,403	11,790	1.739	0.112	0.017	0.028	
Currently using male condoms Currently using injectables	0.029	0.002	10,403	11,790	1.450	0.083	0.024	0.033	
	0.043	0.003	10,403	11,790	1.570	0.073	0.037	0.049	
Currently using implants	0.048 0.003	0.003	10,403	11,790	1.398	0.061	0.042	0.054 0.004	
Currently using female sterilisation Currently using withdrawal	0.003	0.001 0.003	10,403 10,403	11,790 11,790	1.334 1.599	0.248 0.071	0.001 0.040	0.004	
Currently using rhythm Using public sector source	0.025	0.002	10,403	11,790	1.389	0.084	0.021	0.030	
	0.517	0.018	2,127	2,476	1.644	0.035	0.481	0.552	
Want no more children	0.296	0.006	10,403	11,790	1.310	0.020	0.284	0.308	
Want to delay next birth at least 2 years Ideal number of children	0.279	0.007	10,403	11,790	1.601	0.025	0.265	0.293	
	5.191	0.054	16,546	18,594	2.801	0.010	5.084	5.298	
Mothers protected against tetanus for last birth	0.774	0.010	7,710	8,712	2.008	0.012	0.755	0.793	
Births with skilled attendant at delivery	0.662	0.013	11,699	13,170	2.470	0.020	0.635	0.689	
Received 3+ doses of SP/Fansidar	0.207	0.008	4,363	4,979	1.335	0.039	0.191	0.223	
Treated with ORS Sought medical treatment for diarrhoea	0.500	0.020	1,098	1,171	1.197	0.039	0.461	0.539	
	0.702	0.016	1,098	1,171	1.052	0.022	0.671	0.734	
Ever had vaccination card	0.832	0.014	2,100	2,428	1.682	0.016	0.805	0.859	
Received BCG vaccination Received birth dose HepB vaccination	0.833	0.014	2,100	2,428	1.713	0.017	0.805	0.860	
	0.724	0.015	2,100	2,428	1.589	0.021	0.693	0.755	
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.679	0.017	2,100	2,428	1.673	0.025	0.645	0.713	
	0.744	0.015	2,100	2,428	1.602	0.020	0.714	0.775	
Received polio vaccination (3 doses)	0.558	0.015	2,100	2,428	1.383	0.027	0.528	0.588	
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.654	0.017	2,100	2,428	1.657	0.026	0.620	0.688	
	0.691	0.016	2,100	2,428	1.596	0.023	0.659	0.723	
Received all basic vaccinations (12-23 months)	0.444	0.015	2,100	2,428	1.428	0.035	0.413	0.475	
	0.361	0.015	2,100	2,428	1.462	0.042	0.330	0.391	
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.207	0.013	2,159	2,398	1.426	0.062	0.181	0.232	
Received all age-appropriate vaccinations (24-35 months)	0.083	0.008	2,159	2,398	1.361	0.100	0.066	0.100	
Height-for-age (-2SD)	0.267	0.010	4,835	5,555	1.424	0.037	0.247	0.287	
Weight-for-height (-2SD)	0.053	0.004	4,838	5,561	1.179	0.073	0.045	0.061	
Weight-for-age (-2SD)	0.150	0.008	4,852	5,577	1.393	0.050	0.135	0.165	
Body mass index (BMI) <18.5	0.096	0.006	5,450	6,051	1.377	0.058	0.085	0.107	
Body mass index (BMI) ≥25	0.364	0.009	5,450	6,051	1.317	0.024	0.346	0.381	
Prevalence of anaemia (children 6-59 months)	0.620	0.012	4,368	5,014	1.539	0.019	0.596	0.643	
Prevalence of malaria (based on microscopy test)	0.129	0.009	3,419	3,936	1.386	0.068	0.112	0.147	
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.223	0.011	4,358	5,004	1.540	0.049	0.201	0.245	
	0.536	0.009	6,084	6,786	1.404	0.017	0.518	0.554	
Had 2+ sexual partners in past 12 months	0.016	0.002	16,984	19,163	1.617	0.098	0.013	0.019	
	0.368	0.043	250	305	1.404	0.117	0.282	0.454	
Condom use at last sex Abstinence among young people (never had sex)	0.736	0.009	4,418	4,970	1.422	0.013	0.717	0.755	
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.574	0.010	16,437	18,539	2.606	0.018	0.554	0.594	
months Total fertility rate (last 3 years)	0.015	0.003	4,368	5,014	1.660	0.212	0.009	0.021	
	4.498	0.089	47,535	53,606	1.738	0.020	4.319	4.676	
Neonatal mortality (last 0-4 years)	35.650	2.350	47,535 11,695	13,153	1.242	0.020	30.951	40.349	
Postneonatal mortality (last 0-4 years) Infant mortality (last 0-4 years)	20.537	1.805	11,715	13,186	1.297	0.088	16.928	24.147	
	56.188	2.751	11,717	13,181	1.191	0.049	50.686	61.689	
Child mortality (last 0-4 years)	37.707	3.208	11,866	13,330	1.529	0.085	31.292	44.123	
Under-5 mortality (last 0-4 years)	91.776	4.614 MEN	11,882	13,378	1.479	0.050	82.549	101.004	
Urban residence	1.000	0.000	4,900	5,512	0.000	0.000	1.000	1.000	
Literacy	0.864	0.009	4,900	5,512	1.786	0.010	0.847	0.882	
No education	0.080	0.008	4,900	5,512	2.010	0.098	0.064	0.095	
Secondary or higher education Never married (in union)	0.808	0.010	4,900	5,512	1.744	0.012	0.788	0.828	
	0.426	0.011	4,900	5,512	1.622	0.027	0.403	0.449	
Currently married (in union)	0.567	0.011	4,900	5,512	1.610	0.020	0.544	0.589	
Had first sexual intercourse before age 18	0.148	0.007	3,924	4,474	1.293	0.050	0.133	0.162	
Knows any contraceptive method	0.992	0.002	2,642	3,122	1.070	0.002	0.989	0.996	
Knows any modern contraceptive method	0.990	0.002	2,642	3,122	1.144	0.002	0.985	0.994	
Want no more children Want to delay birth at least 2 years	0.243	0.011	2,642	3,122	1.318	0.045	0.221	0.265	
	0.244	0.011	2,642	3,122	1.289	0.044	0.223	0.266	
Ideal number of children	5.908	0.111	4,693	5,292	1.701	0.019	5.686	6.131	
Had 2+ sexual partners in past 12 months	0.107	0.006	4,900	5,512	1.265	0.052	0.096	0.118	
Condom use at last sex	0.338	0.025	527	590	1.214	0.074	0.287	0.388	
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.773	0.015	1,532	1,608	1.393	0.019	0.744	0.803	
	0.031	0.003	4,900	5,512	1.270	0.101	0.025	0.037	
Discriminatory attitudes towards people with HIV	0.571	0.011	4,733	5,355	1.470	0.019	0.550	0.592	

		01 : :	Number	of cases	Б.	D. 1. "	Confidence limits		
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper	
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE	
			POPULATION						
Ownership of at least one ITN De facto population with access to an ITN	0.675 0.522	0.007 0.006	23,647 114,312	21,487 106,288	2.215 2.155	0.010 0.012	0.662 0.509	0.689 0.534	
Household population that slept under an ITN last night	0.491	0.006	114,312	106,288	2.106	0.013	0.478	0.504	
		WOME	N						
Jrban residence	0.000	0.000	24,837	22,658	0.000	0.000	0.000	0.000	
Literacy No education	0.354 0.512	0.009 0.011	24,837 24,837	22,658 22,658	3.068 3.395	0.026 0.021	0.335 0.491	0.372 0.534	
Secondary or higher education	0.334	0.009	24,837	22,658	3.117	0.028	0.315	0.353	
Never married (never in union)	0.193 0.763	0.005 0.006	24,837 24,837	22,658 22,658	2.024 2.198	0.026 0.008	0.183 0.752	0.203 0.775	
Currently married (in union) Married before age 18	0.703	0.008	19,790	18,024	2.216	0.008	0.752	0.775	
Had sexual intercourse before age 18	0.702	0.007	19,790	18,024	2.050	0.009	0.689	0.715	
Currently pregnant Know any contraceptive method	0.120 0.922	0.003 0.005	24,837 18,485	22,658 17,299	1.343 2.388	0.023 0.005	0.115 0.913	0.126 0.932	
Know a modern method	0.913	0.005	18,485	17,299	2.421	0.006	0.903	0.923	
Currently using any method Currently using a modern method	0.100 0.078	0.004 0.004	18,485 18.485	17,299 17,299	1.854 1.891	0.041 0.048	0.092 0.071	0.108 0.086	
Currently using pill	0.008	0.001	18,485	17,299	1.177	0.097	0.006	0.009	
Currently using male condoms Currently using injectables	0.007 0.025	0.001 0.002	18,485 18,485	17,299 17,299	1.145 1.426	0.099 0.065	0.006 0.022	0.009 0.028	
Currently using implants	0.024	0.002	18,485	17,299	1.796	0.084	0.020	0.028	
Currently using female sterilisation Currently using withdrawal	0.002 0.011	0.000 0.001	18,485 18,485	17,299 17,299	1.116 1.377	0.177 0.097	0.001 0.009	0.003 0.013	
Currently using withdrawar Currently using rhythm	0.011	0.001	18,485	17,299	1.109	0.097	0.009	0.013	
Using public sector source	0.577	0.017	1,802	1,574	1.422	0.029	0.544	0.610	
Want no more children Want to delay next birth at least 2 years	0.210 0.314	0.004 0.005	18,485 18,485	17,299 17,299	1.441 1.489	0.021 0.016	0.201 0.303	0.219 0.324	
Ideal number of children	6.843	0.052	24,124	22,027	2.577	0.008	6.740	6.947	
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.513 0.291	0.010 0.009	14,082 22,225	13,199 21,023	2.459 2.352	0.020 0.030	0.492 0.274	0.533 0.309	
Received 3+ doses of SP/Fansidar	0.140	0.006	8,455	7,956	1.590	0.042	0.128	0.152	
Treated with ORS Sought medical treatment for diarrhoea	0.358 0.664	0.015 0.013	2,858 2,858	2,779 2,779	1.682 1.490	0.043 0.020	0.327 0.638	0.389 0.691	
Ever had vaccination card	0.584	0.013	3,959	3,715	1.704	0.020	0.557	0.610	
Received BCG vaccination	0.558	0.014	3,959	3,715	1.771	0.025	0.530	0.586	
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.394 0.384	0.013 0.013	3,959 3,959	3,715 3,715	1.616 1.685	0.032 0.034	0.369 0.358	0.419 0.410	
Received birth dose polio 0 vaccination	0.415	0.012	3,959	3,715	1.566	0.030	0.391	0.440	
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.417 0.355	0.013 0.012	3,959 3,959	3,715 3,715	1.601 1.634	0.030 0.035	0.391 0.330	0.442 0.380	
Received measles 1 vaccination	0.442	0.012	3,959	3,715	1.528	0.027	0.418	0.466	
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.227 0.142	0.010 0.008	3,959 3,959	3,715 3,715	1.490 1.374	0.044 0.054	0.207 0.127	0.247 0.158	
Received measles 2 vaccination	0.120	0.007	3,675	3,437	1.253	0.056	0.107	0.134	
Received all age-appropriate vaccinations (24-35 months)	0.026 0.447	0.003 0.008	3,675 7,525	3,437 7,009	1.251 1.261	0.126 0.018	0.019 0.431	0.032 0.463	
Height-for-age (-2SD) Weight-for-height (-2SD)	0.447	0.004	7,559	7,009	1.264	0.010	0.431	0.403	
Weight-for-age (-2SD)	0.269	0.007	7,606	7,094	1.325	0.027	0.255	0.284	
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.144 0.207	0.006 0.006	7,454 7,454	6,677 6,677	1.471 1.350	0.042 0.031	0.132 0.194	0.156 0.220	
Prevalence of anaemia (children 6-59 months)	0.725	0.009	6,838	6,377	1.515	0.012	0.707	0.743	
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.314 0.472	0.011 0.010	4,708 6,815	4,362 6,347	1.395 1.494	0.034 0.022	0.293 0.452	0.335 0.492	
Prevalence of anaemia (women 15-49)	0.615	0.007	8,666	7,831	1.405	0.012	0.600	0.629	
Had 2+ sexual partners in past 12 months Condom use at last sex	0.011 0.288	0.001 0.032	24,837 285	22,658 248	1.435 1.183	0.087 0.110	0.009 0.225	0.013 0.352	
Abstinence among young people (never had sex)	0.731	0.010	4,468	3,793	1.537	0.014	0.710	0.751	
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.612	0.008	22,820	20,894	2.359	0.012	0.597	0.628	
months	0.012	0.002	6,838	6,377	1.156	0.132	0.009	0.015	
Total fertility rate (last 3 years)	5.944	0.082	69,353	63,270	1.735	0.014 0.065	5.781	6.107	
Neonatal mortality (last 0-4 years) Postneonatal mortality (last 0-4 years)	41.521 32.756	2.703 1.571	22,241 22,234	21,025 21,001	1.729 1.257	0.065	36.116 29.614	46.926 35.898	
Infant mortality (last 0-4 years)	74.277	3.214	22,296	21,074	1.583	0.043	67.850	80.705	
Child mortality (last 0-4 years) Under-5 mortality (last 0-4 years)	89.652 157.270	3.881 5.416	22,419 22,990	21,267 21,824	1.619 1.814	0.043 0.034	81.889 146.439	97.414 168.102	
		MEN							
Urban residence	0.000	0.000	6,945	6,356	0.000	0.000	0.000	0.000	
Literacy No education	0.595 0.333	0.012 0.013	6,945 6,945	6,356 6,356	2.102 2.234	0.021 0.038	0.570 0.308	0.620 0.358	
Secondary or higher education	0.514	0.013	6,945	6,356	2.132	0.025	0.489	0.540	
Never married (in union) Currently married (in union)	0.410 0.576	0.008 0.008	6,945 6,945	6,356 6,356	1.334 1.345	0.019 0.014	0.394 0.560	0.425 0.592	
Had first sexual intercourse before age 18	0.141	0.006	5,447	4,979	1.264	0.042	0.129	0.153	
Knows any contraceptive method Knows any modern contraceptive method	0.972 0.968	0.004 0.004	3,969 3,969	3,663 3,663	1.397 1.448	0.004 0.004	0.965 0.960	0.980 0.976	
Want no more children	0.146	0.004	3,969	3,663	1.252	0.048	0.960	0.160	
Want to delay birth at least 2 years	0.332	0.009	3,969	3,663	1.187	0.027	0.314	0.350	
ldeal number of children Had 2+ sexual partners in past 12 months	8.284 0.147	0.107 0.005	6,488 6,945	5,948 6,356	1.459 1.252	0.013 0.036	8.071 0.136	8.498 0.158	
Condom use at last sex	0.156	0.013	963	934	1.132	0.085	0.130	0.183	
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.844 0.023	0.009 0.002	2,246 6,945	2,034 6,356	1.169 1.187	0.011 0.093	0.826 0.019	0.862 0.027	
Discriminatory attitudes towards people with HIV	0.591	0.002	6,458	5,921	1.573	0.093	0.572	0.610	

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ownership of at least one ITN	0.583	0.012	7,354	5,697	2.120	0.021	0.559	0.607
De facto population with access to an ITN	0.419	0.011	32,870	25,648	2.048	0.026	0.397	0.440
Household population that slept under an ITN last night	0.390	0.011	32,870	25,648	2.008	0.029	0.367	0.412
Urban residence	0.337	0.016	7,772	E 901	2.956	0.047	0.306	0.369
Literacy	0.496	0.016	7,772	5,891 5,891	2.752	0.032	0.464	0.527
No education Secondary or higher education	0.318 0.498	0.016 0.016	7,772 7,772	5,891 5,891	2.951 2.859	0.049 0.033	0.286 0.466	0.349 0.531
Never married (never in union)	0.253	0.008	7,772	5,891	1.590	0.031	0.237	0.268
Currently married (in union) Married before age 18	0.694 0.402	0.009 0.012	7,772 6,175	5,891 4,708	1.733 1.873	0.013 0.029	0.675 0.378	0.712 0.425
Had sexual intercourse before age 18	0.553	0.012	6,175	4,708	1.950	0.029	0.528	0.423
Currently pregnant	0.106 0.909	0.005 0.010	7,772 5,268	5,891 4,086	1.382 2.634	0.046 0.012	0.096 0.888	0.115 0.930
Know any contraceptive method Know a modern method	0.909	0.010	5,268	4,086	2.628	0.012	0.885	0.930
Currently using any method	0.162	0.008	5,268	4,086	1.590	0.050	0.146	0.178
Currently using a modern method Currently using pill	0.138 0.013	0.008 0.002	5,268 5,268	4,086 4,086	1.586 1.185	0.055 0.141	0.123 0.009	0.153 0.017
Currently using male condoms	0.018	0.003	5,268	4,086	1.390	0.140	0.013	0.024
Currently using injectables Currently using implants	0.045 0.047	0.004 0.004	5,268 5,268	4,086 4,086	1.338 1.354	0.085 0.084	0.037 0.039	0.053 0.055
Currently using female sterilisation	0.002	0.001	5,268	4,086	0.990	0.278	0.001	0.004
Currently using withdrawal Currently using rhythm	0.014 0.005	0.002 0.001	5,268 5,268	4,086 4,086	1.187 1.122	0.139 0.209	0.010 0.003	0.017 0.008
Using public sector source	0.589	0.019	907	664	1.163	0.032	0.551	0.627
Want no more children Want to delay next birth at least 2 years	0.257 0.313	0.009 0.009	5,268 5,268	4,086 4,086	1.511 1.404	0.035 0.029	0.238 0.295	0.275 0.331
Ideal number of children	5.698	0.067	7,520	5,715	2.382	0.029	5.565	5.832
Mothers protected against tetanus for last birth	0.579	0.016	3,875	3,031	2.007	0.027	0.548	0.611
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.538 0.148	0.017 0.010	5,875 2,254	4,619 1,787	2.180 1.338	0.032 0.066	0.504 0.128	0.572 0.167
Treated with ORS	0.383	0.033	554	486	1.630	0.085	0.317	0.448
Sought medical treatment for diarrhoea Ever had vaccination card	0.572 0.741	0.031 0.025	554 1,061	486 864	1.519 1.878	0.055 0.033	0.509 0.692	0.634 0.791
Received BCG vaccination	0.744	0.026	1,061	864	1.955	0.034	0.693	0.795
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.596 0.544	0.024 0.029	1,061 1,061	864 864	1.610 1.966	0.040 0.054	0.549 0.485	0.644 0.603
Received birth dose polio 0 vaccination	0.574	0.025	1,061	864	1.665	0.043	0.524	0.623
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.470 0.511	0.022 0.028	1,061 1,061	864 864	1.491 1.886	0.048 0.055	0.425 0.454	0.515 0.568
Received measles 1 vaccination	0.542	0.031	1,061	864	2.100	0.058	0.479	0.605
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.310 0.215	0.024 0.018	1,061 1,061	864 864	1.700 1.474	0.077 0.085	0.262 0.179	0.357 0.252
Received measles 2 vaccination	0.159	0.014	1,021	788	1.184	0.086	0.132	0.186
Received all age-appropriate vaccinations (24-35 months)	0.038 0.285	0.007 0.016	1,021 2,183	788 1 797	1.122 1.574	0.175 0.057	0.025	0.052 0.317
Height-for-age (-2SD) Weight-for-height (-2SD)	0.265	0.016	2,183	1,787 1,788	1.260	0.057	0.252 0.044	0.069
Weight-for-age (-2SD)	0.145	0.012	2,191	1,793	1.461	0.080	0.122	0.168
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.092 0.258	0.007 0.012	2,416 2,416	1,823 1,823	1.231 1.294	0.079 0.045	0.077 0.235	0.106 0.281
Prevalence of anaemia (children 6-59 months)	0.659	0.015	1,975	1,620	1.370	0.023	0.628	0.689
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.212 0.370	0.017 0.020	1,417 1,973	1,162 1,618	1.425 1.644	0.078 0.054	0.179 0.330	0.245 0.410
Prevalence of anaemia (women 15-49)	0.552	0.013	2,749	2,093	1.418	0.024	0.525	0.579
Had 2+ sexual partners in past 12 months Condom use at last sex	0.013 0.378	0.002 0.060	7,772 90	5,891 75	1.751 1.157	0.175 0.158	0.008 0.259	0.017 0.497
Abstinence among young people (never had sex)	0.672	0.014	1,822	1,314	1.284	0.021	0.644	0.700
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.557	0.012	6,805	5,046	1.947	0.021	0.534	0.581
months	0.013	0.003	1,975	1,620	1.096	0.214	0.007	0.019
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	5.029 32.361	0.120 2.078	21,695 11,358	16,471 8,796	1.543 1.112	0.024 0.064	4.790 28.205	5.268 36.516
Postneonatal mortality (last 0-9 years)	25.783	2.076	11,368	8,799	1.296	0.081	21.631	29.936
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	58.144 39.289	2.840 3.257	11,371 11,189	8,807 8,638	1.133 1.460	0.049 0.083	52.464 32.775	63.824 45.803
Under-5 mortality (last 0-9 years)	95.149	4.484	11,448	8,863	1.299	0.047	86.180	104.117
Haban assidance	0.007	MEN	0.400	4.704	4.044	0.050	0.000	0.405
Urban residence Literacy	0.367 0.729	0.019 0.018	2,186 2,186	1,704 1,704	1.841 1.874	0.052 0.024	0.329 0.693	0.405 0.764
No education	0.186	0.017	2,186	1,704	2.040	0.091	0.152	0.220
Secondary or higher education Never married (in union)	0.697 0.425	0.017 0.016	2,186 2,186	1,704 1,704	1.770 1.484	0.025 0.037	0.662 0.394	0.732 0.457
Currently married (in union)	0.568	0.015	2,186	1,704	1.460	0.027	0.537	0.599
Had first sexual intercourse before age 18 Knows any contraceptive method	0.112 0.979	0.009 0.006	1,742 1,222	1,369 968	1.235 1.567	0.083 0.007	0.094 0.966	0.131 0.992
Knows any modern contraceptive method	0.977	0.007	1,222	968	1.537	0.007	0.964	0.990
Want no more children Want to delay birth at least 2 years	0.170 0.445	0.014 0.019	1,222 1,222	968 968	1.326 1.343	0.084 0.043	0.141 0.407	0.198 0.484
Ideal number of children	6.858	0.161	2,114	1,655	1.689	0.024	6.535	7.180
Had 2+ sexual partners in past 12 months Condom use at last sex	0.126 0.156	0.009 0.023	2,186 261	1,704 215	1.240 1.026	0.070 0.148	0.108 0.109	0.144 0.202
Abstinence among young people (never had sex)	0.804	0.019	684	522	1.257	0.024	0.765	0.842
Had paid sex in past 12 months	0.028	0.004	2,186	1,704	1.173	0.147	0.020	0.037

	DHS 2018		Number	of cases			Confide	ence limits	
		Standard	Un-	J. 04303	Design	Relative	Connide		
Variable	Value	error	weighted	Weighted	effect	error	Lower	Upper	
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE	
		HOLDS AND F							
Ownership of at least one ITN De facto population with access to an ITN	0.673 0.464	0.014 0.012	6,374 36,640	5,694 32,436	2.300 2.290	0.020 0.027	0.646 0.439	0.701 0.489	
Household population that slept under an ITN last night	0.432	0.012	36,640	32,436	2.290	0.027	0.406	0.459	
3		WOMEN	-						
Irban racidanas	0.007			6.636	2.704	0.060	0.247	0.226	
Jrban residence Literacy	0.287 0.318	0.020 0.017	7,639 7,639	6,636 6,636	3.784 3.277	0.068 0.055	0.247 0.283	0.326 0.353	
No education	0.591	0.019	7,639	6,636	3.406	0.032	0.553	0.630	
Secondary or higher education	0.282	0.017	7,639	6,636	3.299	0.060	0.248	0.316	
Never married (never in union) Currently married (in union)	0.217 0.729	0.010 0.014	7,639 7,639	6,636 6,636	2.172 2.663	0.047 0.019	0.196 0.702	0.237 0.757	
Married before age 18	0.626	0.014	5,978	5,139	2.247	0.013	0.702	0.757	
Had sexual intercourse before age 18	0.708	0.012	5,978	5,139	2.024	0.017	0.684	0.732	
Currently pregnant	0.120	0.005	7,639	6,636	1.266	0.039	0.111	0.130	
Know any contraceptive method Know a modern method	0.917 0.904	0.010 0.011	5,668 5,668	4,841 4,841	2.634 2.758	0.011 0.012	0.897 0.883	0.936 0.926	
Currently using any method	0.904	0.006	5,668	4,841	1.542	0.012	0.083	0.320	
Currently using a modern method	0.078	0.005	5,668	4,841	1.535	0.070	0.067	0.089	
Currently using pill	0.010	0.002	5,668	4,841	1.521	0.197	0.006	0.014	
Currently using male condoms Currently using injectables	0.002 0.023	0.001 0.003	5,668 5,668	4,841 4,841	1.913 1.411	0.522 0.121	0.000 0.018	0.005 0.029	
Currently using injectables Currently using implants	0.023	0.003	5,668 5,668	4,841 4,841	1.411	0.121	0.018	0.029	
Currently using female sterilisation	0.005	0.002	5,668	4,841	1.209	0.236	0.002	0.021	
Currently using withdrawal	0.004	0.001	5,668	4,841	1.375	0.294	0.002	0.006	
Currently using rhythm	0.009	0.001	5,668	4,841	1.136	0.157	0.006	0.012	
Using public sector source Want no more children	0.705 0.160	0.032 0.007	441 5,668	364 4,841	1.491 1.350	0.046 0.041	0.640 0.147	0.770 0.173	
Want to delay next birth at least 2 years	0.401	0.010	5,668	4,841	1.537	0.025	0.381	0.421	
Ideal number of children	7.904	0.082	7,235	6,319	2.150	0.010	7.740	8.068	
Mothers protected against tetanus for last birth	0.540	0.017	4,506	3,862	2.325	0.032	0.506	0.575	
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.277 0.140	0.015 0.011	7,211 2,751	6,213 2,350	2.348 1.602	0.055 0.076	0.246 0.119	0.307 0.161	
Treated with ORS	0.140	0.011	1,580	1,378	1.966	0.076	0.119	0.101	
Sought medical treatment for diarrhoea	0.686	0.017	1,580	1,378	1.378	0.024	0.653	0.719	
Ever had vaccination card	0.580	0.023	1,303	1,133	1.707	0.040	0.533	0.627	
Received BCG vaccination	0.570	0.024	1,303	1,133	1.726	0.042	0.523	0.618	
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.373 0.372	0.021 0.022	1,303 1,303	1,133 1,133	1.547 1.645	0.056 0.060	0.331 0.328	0.415 0.416	
Received birth dose polio 0 vaccination	0.404	0.021	1,303	1,133	1.546	0.052	0.361	0.446	
Received polio vaccination (3 doses)	0.433	0.018	1,303	1,133	1.319	0.042	0.396	0.469	
Received pneumococcal vaccination (3 doses)	0.329	0.021	1,303	1,133	1.595	0.064	0.287	0.371	
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.433 0.229	0.019 0.017	1,303 1,303	1,133 1,133	1.349 1.468	0.043 0.076	0.396 0.194	0.471 0.264	
Received all age-appropriate vaccinations (12-23 months)	0.229	0.017	1,303	1,133	1.391	0.070	0.109	0.204	
Received measles 2 vaccination	0.157	0.015	1,244	1,071	1.421	0.095	0.127	0.186	
Received all age-appropriate vaccinations (24-35 months)	0.032	0.006	1,244	1,071	1.239	0.193	0.020	0.044	
Height-for-age (-2SD)	0.491	0.014	2,213	1,958	1.259	0.029	0.462	0.519	
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.095 0.298	0.007 0.013	2,230 2,247	1,975 1,988	1.105 1.238	0.076 0.043	0.081 0.272	0.110 0.323	
Body mass index (BMI) <18.5	0.233	0.015	2,169	1,878	1.660	0.045	0.203	0.264	
Body mass index (BMI) ≥25	0.151	0.010	2,169	1,878	1.260	0.064	0.131	0.170	
Prevalence of anaemia (children 6-59 months)	0.704	0.014	2,034	1,807	1.339	0.020	0.675	0.732	
Prevalence of malaria (based on microscopy test)	0.199 0.356	0.015 0.017	1,436	1,265 1,791	1.252 1.328	0.078 0.048	0.168 0.322	0.230 0.390	
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.583	0.017	2,023 2,553	2,222	1.469	0.046	0.522	0.390	
Had 2+ sexual partners in past 12 months	0.013	0.002	7,639	6,636	1.356	0.137	0.009	0.016	
Condom use at last sex	0.402	0.062	112	83	1.324	0.154	0.279	0.526	
Abstinence among young people (never had sex)	0.843	0.016	1,434 7 153	1,296 6.218	1.702	0.019 0.032	0.810 0.388	0.875	
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.415	0.013	7,153	6,218	2.291	0.032	0.388	0.442	
months	0.012	0.003	2,034	1,807	1.311	0.279	0.005	0.018	
Total fertility rate (last 3 years)	6.057	0.149	21,147	18,341	1.787	0.025	5.759	6.354	
Neonatal mortality (last 0-9 years)	36.839	2.430	14,047	12,193	1.357	0.066	31.979	41.700	
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	36.537 73.377	2.426 3.511	14,046 14,068	12,205 12,215	1.360 1.376	0.066 0.048	31.685 66.354	41.389 80.399	
Child mortality (last 0-9 years)	65.117	4.522	14,003	12,213	1.570	0.048	56.073	74.161	
Under-5 mortality (last 0-9 years)	133.716	6.380	14,211	12,333	1.704	0.048	120.955	146.476	
		MEN							
Urban residence	0.291	0.022	2,196	1,936	2.259	0.075	0.247	0.335	
Literacy	0.505	0.024	2,196	1,936	2.209	0.047	0.458	0.552	
No education	0.462	0.025	2,196	1,936	2.318	0.053	0.413	0.511	
Secondary or higher education Never married (in union)	0.443 0.456	0.024 0.015	2,196 2,196	1,936 1,936	2.254 1.379	0.054 0.032	0.396 0.427	0.491 0.485	
Currently married (in union)	0.430	0.013	2,196	1,936	1.343	0.032	0.427	0.465	
Had first sexual intercourse before age 18	0.099	0.009	1,685	1,483	1.282	0.094	0.080	0.117	
Knows any contraceptive method	0.947	0.009	1,156	1,026	1.309	0.009	0.930	0.965	
Knows any modern contraceptive method	0.941	0.009	1,156	1,026	1.358	0.010	0.922	0.959	
Want no more children Want to delay birth at least 2 years	0.104 0.375	0.014 0.019	1,156 1,156	1,026 1,026	1.597 1.357	0.138 0.052	0.076 0.336	0.133 0.413	
Ideal number of children	10.409	0.019	2,057	1,832	1.455	0.032	9.997	10.822	
Had 2+ sexual partners in past 12 months	0.132	0.010	2,196	1,936	1.335	0.073	0.113	0.152	
Condom use at last sex	0.168	0.028	280	256	1.262	0.168	0.112	0.225	
Abstinence among young people (never had sex)	0.878	0.014	801 2 196	685 1 936	1.217 1.458	0.016	0.850	0.906	
Had paid sex in past 12 months	0.022 0.471	0.005 0.017	2,196 2,009	1,936 1,770	1.458 1.501	0.206 0.036	0.013 0.437	0.032 0.504	

Table B.7 Sampling errors: North West sample, Nigeria	DHS 2018							_ _
			Number	of cases	·		Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	١				
Ownership of at least one ITN De facto population with access to an ITN	0.873 0.649	0.007 0.009	8,064 47,862	9,841 58,409	1.905 2.201	0.008 0.014	0.859 0.630	0.887 0.667
Household population that slept under an ITN last night	0.638	0.009	47,862	58,409	2.009	0.014	0.619	0.656
		WOMEN	١					
Urban residence	0.307	0.015	10,129	12,225	3.290	0.049	0.277	0.337
Literacy No education	0.290 0.638	0.017 0.018	10,129 10,129	12,225 12,225	3.725 3.753	0.058 0.028	0.257 0.602	0.324 0.674
Secondary or higher education	0.030	0.016	10,129	12,225	3.722	0.028	0.002	0.074
Never married (never in union) Currently married (in union)	0.166 0.804	0.008 0.010	10,129 10,129	12,225 12,225	2.291 2.459	0.051 0.012	0.149 0.784	0.183 0.823
Married before age 18	0.723	0.012	7,876	9,488	2.401	0.017	0.698	0.747
Had sexual intercourse before age 18 Currently pregnant	0.771 0.136	0.012 0.004	7,876 10,129	9,488 12,225	2.566 1.304	0.016 0.033	0.747 0.127	0.795 0.145
Know any contraceptive method	0.936	0.006	8,115	9,826	2.157	0.006	0.925	0.948
Know a modern method Currently using any method	0.927 0.068	0.006 0.006	8,115 8,115	9,826 9,826	2.165 2.262	0.007 0.093	0.915 0.055	0.940 0.080
Currently using a modern method	0.062	0.006	8,115	9,826	2.341	0.101	0.050	0.075
Currently using pill Currently using male condoms	0.007 0.001	0.001 0.000	8,115 8,115	9,826 9,826	1.272 1.091	0.166 0.342	0.005 0.000	0.010 0.002
Currently using injectables	0.022	0.003	8,115	9,826	1.586	0.118	0.017	0.027
Currently using implants Currently using female sterilisation	0.026 0.002	0.004 0.001	8,115 8,115	9,826 9,826	2.056 1.517	0.140 0.394	0.019 0.000	0.033 0.003
Currently using withdrawal	0.001	0.000	8,115	9,826	1.050	0.362	0.000	0.002
Currently using rhythm Using public sector source	0.001 0.799	0.000 0.026	8,115 478	9,826 635	1.002 1.413	0.326 0.032	0.000 0.747	0.002 0.851
Want no more children	0.165	0.005	8,115	9,826	1.331	0.033	0.154	0.176
Want to delay next birth at least 2 years Ideal number of children	0.317 7.525	0.008 0.087	8,115 10,026	9,826 12,063	1.565 2.711	0.026 0.012	0.300 7.352	0.333 7.699
Mothers protected against tetanus for last birth	0.457	0.015	6,309	7,644	2.371	0.032	0.428	0.487
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.190 0.108	0.011 0.008	10,305 3,824	12,558 4,649	2.373 1.518	0.059 0.070	0.168 0.093	0.213 0.123
Treated with ORS	0.412	0.018	1,234	1,505	1.234	0.044	0.376	0.448
Sought medical treatment for diarrhoea Ever had vaccination card	0.717 0.507	0.018 0.019	1,234 1,697	1,505 2,036	1.338 1.582	0.025 0.038	0.682 0.468	0.752 0.546
Received BCG vaccination	0.450	0.020	1,697	2,036	1.631	0.044	0.410	0.490
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.326 0.291	0.018 0.018	1,697 1,697	2,036 2,036	1.569 1.585	0.055 0.061	0.290 0.255	0.362 0.326
Received birth dose polio 0 vaccination	0.354	0.018	1,697	2,036	1.532	0.051	0.318	0.390
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.400 0.274	0.019 0.017	1,697 1,697	2,036 2,036	1.618 1.580	0.049 0.063	0.361 0.239	0.439 0.309
Received measles 1 vaccination	0.391	0.017	1,697	2,036	1.395	0.043	0.358	0.424
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.199 0.131	0.014 0.011	1,697 1,697	2,036 2,036	1.454 1.373	0.072 0.087	0.170 0.108	0.228 0.154
Received measles 2 vaccination	0.093	0.011	1,644	2,013	1.489	0.117	0.071	0.114
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.035 0.567	0.006 0.012	1,644 2,891	2,013 3,560	1.303 1.245	0.171 0.021	0.023 0.543	0.047 0.592
Weight-for-height (-2SD)	0.090	0.007	2,914	3,598	1.251	0.074	0.077	0.103
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.345 0.169	0.013 0.009	2,937 2,692	3,621 3,238	1.336 1.282	0.037 0.055	0.320 0.151	0.371 0.188
Body mass index (BMI) ≥25	0.164	0.010	2,692	3,238	1.379	0.060	0.144	0.183
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.699 0.338	0.016 0.017	2,612 1,876	3,216 2,313	1.622 1.323	0.023 0.050	0.666 0.304	0.731 0.372
Prevalence of malaria (based on rapid test)	0.495	0.017	2,605	3,209	1.541	0.035	0.460	0.530
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.588 0.002	0.013 0.001	3,229 10,129	3,906 12,225	1.463 1.763	0.022 0.376	0.563 0.001	0.614 0.004
Condom use at last sex	0.300	0.137	17	26	1.185	0.458	0.025	0.575
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.956 0.582	0.010 0.012	1,618 9,632	1,929 11,742	1.961 2.422	0.010 0.021	0.937 0.558	0.976 0.607
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.012 6.602	0.002 0.116	2,612 28,104	3,216 33,925	1.043 1.749	0.202 0.017	0.007 6.370	0.016 6.833
Neonatal mortality (last 0-9 years)	45.542	2.622	20,411	24,599	1.473	0.058	40.298	50.786
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	34.705 80.247	1.853 3.384	20,466 20,453	24,635 24,647	1.290 1.450	0.053 0.042	30.999 73.479	38.411 87.015
Child mortality (last 0-9 years)	116.606	4.755	20,608	24,728	1.594	0.041	107.097	126.116
Under-5 mortality (last 0-9 years)	187.496	6.052	20,825	25,091	1.723	0.032	175.391	199.600
Urban residence	0.318	0.016	2,622	3,195	1.769	0.051	0.286	0.350
Literacy	0.590	0.020	2,622	3,195	2.108	0.034	0.550	0.631
No education Secondary or higher education	0.376 0.477	0.020 0.022	2,622 2,622	3,195 3,195	2.156 2.239	0.054 0.046	0.335 0.433	0.417 0.521
Never married (in union)	0.455	0.014	2,622	3,195	1.488	0.032	0.426	0.484
Currently married (in union) Had first sexual intercourse before age 18	0.533 0.054	0.015 0.007	2,622 1,972	3,195 2,402	1.494 1.420	0.027 0.134	0.504 0.039	0.562 0.068
Knows any contraceptive method	0.976	0.005	1,386	1,703	1.269	0.005	0.966	0.987
Knows any modern contraceptive method Want no more children	0.973 0.055	0.006 0.007	1,386 1,386	1,703 1,703	1.343 1.185	0.006 0.132	0.962 0.040	0.985 0.069
Want to delay birth at least 2 years	0.337	0.014	1,386	1,703	1.082	0.041	0.309	0.364
Ideal number of children Had 2+ sexual partners in past 12 months	9.789 0.144	0.180 0.008	2,252 2,622	2,808 3,195	1.269 1.184	0.018 0.056	9.430 0.128	10.148 0.160
Condom use at last sex	0.045	0.012	360	460	1.072	0.262	0.021	0.068
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.964 0.017	0.007 0.003	978 2,622	1,169 3,195	1.207 1.249	0.007 0.185	0.950 0.011	0.979 0.023
Discriminatory attitudes towards people with HIV	0.554	0.016	2,501	3,060	1.627	0.029	0.522	0.587

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
valiable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	١				
Ownership of at least one ITN	0.479	0.013	5,398	4,752	1.903	0.027	0.453	0.505
De facto population with access to an ITN Household population that slept under an ITN last night	0.373 0.295	0.013 0.013	23,042 23,042	20,484 20,484	2.040 2.055	0.033 0.043	0.348 0.269	0.398 0.320
		WOMEN						
Urban residence	0.729	0.015	5,571	4,963	2.592	0.021	0.698	0.760
Literacy	0.793	0.014	5,571	4,963	2.539	0.017	0.765	0.820
No education Secondary or higher education	0.042 0.772	0.005 0.014	5,571 5,571	4,963 4,963	1.973 2.554	0.126 0.019	0.032 0.744	0.053 0.801
Never married (never in union)	0.337	0.009	5,571	4,963	1.485	0.028	0.319	0.356
Currently married (in union) Married before age 18	0.583 0.161	0.010 0.009	5,571 4,505	4,963 4,035	1.560 1.553	0.018 0.053	0.562 0.144	0.604 0.178
Had sexual intercourse before age 18	0.332	0.012	4,505	4,035	1.670	0.035	0.308	0.355
Currently pregnant	0.078 0.975	0.005	5,571	4,963	1.423	0.066	0.068	0.088
Know any contraceptive method Know a modern method	0.975	0.003 0.004	3,207 3,207	2,893 2,893	1.199 1.196	0.003 0.004	0.968 0.963	0.982 0.978
Currently using any method	0.281	0.012	3,207	2,893	1.473	0.042	0.258	0.305
Currently using a modern method Currently using pill	0.129 0.013	0.008 0.002	3,207 3,207	2,893 2,893	1.306 1.219	0.060 0.191	0.113 0.008	0.144 0.017
Currently using male condoms	0.028	0.003	3,207	2,893	1.120	0.117	0.021	0.034
Currently using injectables Currently using implants	0.021 0.029	0.003 0.004	3,207 3,207	2,893 2,893	1.257 1.259	0.151 0.128	0.015 0.022	0.028 0.037
Currently using implants Currently using female sterilisation	0.029	0.004	3,207	2,893	0.763	0.126	0.022	0.037
Currently using withdrawal	0.078	0.006	3,207	2,893	1.212	0.073	0.067	0.090
Currently using rhythm Using public sector source	0.071 0.370	0.006 0.027	3,207 494	2,893 453	1.368 1.250	0.087 0.074	0.059 0.315	0.084 0.424
Want no more children	0.358	0.010	3,207	2,893	1.177	0.028	0.338	0.378
Want to delay next birth at least 2 years Ideal number of children	0.202 4.994	0.009 0.053	3,207 5,524	2,893 4,926	1.251 2.332	0.044 0.011	0.184 4.887	0.220 5.101
Mothers protected against tetanus for last birth	0.920	0.006	2,365	2,138	1.152	0.007	0.907	0.933
Births with skilled attendant at delivery	0.843	0.015	3,798	3,428	2.048	0.018	0.813	0.873
Received 3+ doses of SP/Fansidar Treated with ORS	0.378 0.437	0.016 0.040	1,412 232	1,304 196	1.268 1.142	0.043 0.092	0.346 0.357	0.410 0.517
Sought medical treatment for diarrhoea	0.616	0.039	232	196	1.153	0.064	0.537	0.695
Ever had vaccination card Received BCG vaccination	0.929 0.934	0.013 0.012	698 698	641 641	1.347 1.305	0.014 0.013	0.903 0.910	0.955 0.958
Received birth dose HepB vaccination	0.764	0.027	698	641	1.672	0.035	0.711	0.818
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.831 0.840	0.018 0.020	698 698	641 641	1.279 1.446	0.022 0.024	0.795 0.800	0.868 0.880
Received billin dose polio o vaccination Received polio vaccination (3 doses)	0.688	0.020	698	641	1.232	0.024	0.645	0.732
Received pneumococcal vaccination (3 doses)	0.796	0.021	698	641	1.334	0.026	0.754	0.837
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.748 0.570	0.022 0.026	698 698	641 641	1.355 1.371	0.030 0.045	0.704 0.518	0.793 0.621
Received all age-appropriate vaccinations (12-23 months)	0.434	0.031	698	641	1.618	0.070	0.373	0.495
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.232 0.097	0.024 0.020	717 717	637 637	1.487 1.785	0.102 0.207	0.184 0.057	0.279 0.136
Height-for-age (-2SD)	0.184	0.013	1,840	1,665	1.330	0.068	0.159	0.209
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.045 0.104	0.005 0.009	1,840 1,842	1,667 1,668	1.000 1.206	0.112 0.088	0.035 0.086	0.055 0.123
Body mass index (BMI) <18.5	0.104	0.009	1,842	1,630	1.206	0.088	0.038	0.123
Body mass index (BMI) ≥25	0.395	0.014	1,875	1,630	1.263	0.037	0.366	0.424
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.699 0.157	0.019 0.017	1,670 1,262	1,496 1,151	1.542 1.505	0.026 0.109	0.662 0.123	0.736 0.191
Prevalence of malaria (based on rapid test)	0.261	0.019	1,664	1,490	1.560	0.073	0.223	0.299
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.660 0.013	0.014 0.002	2,091 5,571	1,823 4,963	1.332 1.067	0.021 0.123	0.632 0.010	0.688 0.017
Condom use at last sex	0.244	0.051	78	66	1.046	0.123	0.142	0.347
Abstinence among young people (never had sex)	0.667	0.018	1,458	1,258	1.457	0.027	0.631	0.703
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.629	0.011	5,494	4,888	1.742	0.018	0.606	0.651
months	0.011	0.003	1,670	1,496	1.050	0.256	0.006	0.017
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	4.718 26.567	0.118 2.476	15,590 7,311	13,926 6,530	1.390 1.142	0.025 0.093	4.483 21.614	4.954 31.519
Postneonatal mortality (last 0-9 years)	21.704	2.565	7,305	6,521	1.360	0.118	16.574	26.833
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	48.271 28.592	3.925 3.221	7,319 7,177	6,537 6,376	1.374 1.397	0.081 0.113	40.420 22.149	56.121 35.035
Under-5 mortality (last 0-9 years)	75.482	6.148	7,352	6,565	1.663	0.081	63.186	87.779
		MEN						
Urban residence	0.703	0.020	1,509	1,355	1.693	0.028	0.663	0.743
Literacy No education	0.867 0.017	0.010 0.005	1,509 1,509	1,355 1,355	1.143 1.369	0.012 0.266	0.847 0.008	0.887 0.026
Secondary or higher education	0.784	0.015	1,509	1,355	1.447	0.020	0.754	0.815
Never married (in union) Currently married (in union)	0.408 0.588	0.020 0.020	1,509 1,509	1,355 1,355	1.574 1.595	0.049 0.034	0.368 0.548	0.448 0.629
Had first sexual intercourse before age 18	0.156	0.014	1,206	1,100	1.363	0.091	0.128	0.185
Knows any contraceptive method	0.997	0.002	850	797	1.116	0.002	0.993	1.001
Knows any modern contraceptive method Want no more children	0.997 0.240	0.002 0.019	850 850	797 797	1.116 1.268	0.002 0.077	0.993 0.203	1.001 0.277
Want to delay birth at least 2 years	0.252	0.019	850	797	1.254	0.074	0.215	0.290
Ideal number of children Had 2+ sexual partners in past 12 months	4.749 0.096	0.074 0.010	1,489 1,509	1,336 1,355	1.360 1.361	0.016 0.107	4.602 0.076	4.897 0.117
Condom use at last sex	0.472	0.057	130	130	1.291	0.121	0.358	0.586
Abstinence among young people (never had sex)	0.681	0.024	441 1 500	368 1 355	1.090	0.036	0.633	0.729
Had paid sex in past 12 months Discriminatory attitudes towards people with HIV	0.035 0.595	0.006 0.019	1,509 1,506	1,355 1,352	1.334 1.486	0.180 0.032	0.022 0.557	0.048 0.632

· · · · · · · · · · · · · · · · · · ·			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.458 0.357	0.014 0.012	6,191 22,070	5,729 20,579	2.186 2.100	0.030 0.034	0.430 0.333	0.485 0.381
Household population that slept under an ITN last night	0.272	0.012	22,070	20,579	2.059	0.044	0.248	0.295
		WOME	٧					
Urban residence Literacy	0.417 0.790	0.021 0.011	5,080 5,080	4,840 4,840	3.009 1.971	0.050 0.014	0.375 0.767	0.458 0.812
No education	0.047	0.004	5,080	4,840	1.485	0.094	0.038	0.055
Secondary or higher education Never married (never in union)	0.795 0.348	0.010 0.009	5,080 5,080	4,840 4,840	1.745 1.294	0.012 0.025	0.776 0.331	0.815 0.365
Currently married (in union)	0.574	0.010	5,080	4,840	1.407	0.017	0.554	0.593
Married before age 18 Had sexual intercourse before age 18	0.209 0.511	0.008 0.014	4,151 4,151	3,952 3,952	1.324 1.760	0.040 0.027	0.192 0.484	0.225 0.538
Currently pregnant	0.065	0.004	5,080	4,840	1.191	0.063	0.057	0.073
Know any contraceptive method Know a modern method	0.974 0.971	0.003	2,962	2,777	1.148	0.003 0.004	0.967	0.981
Currently using any method	0.971	0.004 0.010	2,962 2,962	2,777 2,777	1.203 1.286	0.004	0.964 0.198	0.979 0.237
Currently using a modern method	0.158	0.009	2,962	2,777	1.312	0.056	0.140	0.175
Currently using pill Currently using male condoms	0.022 0.031	0.003 0.003	2,962 2,962	2,777 2,777	1.130 1.045	0.139 0.107	0.016 0.025	0.028 0.038
Currently using injectables	0.035	0.005	2,962	2,777	1.405	0.136	0.025	0.044
Currently using implants Currently using female sterilisation	0.046 0.003	0.006 0.001	2,962 2,962	2,777 2,777	1.453 1.220	0.122 0.431	0.035 0.000	0.057 0.005
Currently using withdrawal	0.036	0.004	2,962	2,777	1.310	0.125	0.027	0.045
Currently using rhythm	0.018	0.004	2,962	2,777	1.467	0.197	0.011	0.026
Using public sector source Want no more children	0.350 0.331	0.025 0.010	652 2,962	715 2,777	1.335 1.110	0.071 0.029	0.300 0.312	0.400 0.350
Want to delay next birth at least 2 years	0.233	0.010	2,962	2,777	1.350	0.045	0.212	0.254
Ideal number of children Mothers protected against tetanus for last birth	4.586 0.757	0.038 0.013	5,028 2,174	4,795 2,019	1.657 1.441	0.008 0.018	4.510 0.730	4.662 0.783
Births with skilled attendant at delivery	0.604	0.018	3,202	2,968	1.711	0.031	0.567	0.641
Received 3+ doses of SP/Fansidar Treated with ORS	0.237 0.433	0.015 0.042	1,249 162	1,160 170	1.240 1.076	0.063 0.097	0.207 0.349	0.267 0.517
Sought medical treatment for diarrhoea	0.692	0.040	162	170	1.165	0.058	0.611	0.773
Ever had vaccination card Received BCG vaccination	0.830 0.839	0.019 0.020	637 637	596 596	1.279 1.341	0.023 0.023	0.792 0.800	0.868 0.878
Received birth dose HepB vaccination	0.661	0.024	637	596	1.258	0.023	0.614	0.709
Received DPT-HepB-Hib vaccination (3 doses)	0.696	0.023	637	596	1.267	0.033	0.650	0.743
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.675 0.531	0.025 0.026	637 637	596 596	1.336 1.285	0.037 0.048	0.625 0.480	0.725 0.582
Received pneumococcal vaccination (3 doses)	0.683	0.023	637	596	1.227	0.033	0.638	0.729
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.711 0.418	0.021 0.024	637 637	596 596	1.179 1.220	0.030 0.057	0.668 0.371	0.754 0.466
Received all age-appropriate vaccinations (12-23 months)	0.309	0.023	637	596	1.238	0.074	0.264	0.355
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.183 0.044	0.017 0.011	552 552	514 514	1.036 1.243	0.095 0.246	0.149 0.022	0.218 0.066
Height-for-age (-2SD)	0.197	0.013	1,370	1,300	1.180	0.068	0.170	0.223
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.043 0.100	0.006 0.010	1,371 1,375	1,297 1,303	1.084 1.185	0.144 0.099	0.031 0.080	0.055 0.120
Body mass index (BMI) <18.5	0.100	0.010	1,745	1,655	1.366	0.099	0.042	0.120
Body mass index (BMI) ≥25	0.429	0.016	1,745	1,655	1.307	0.036	0.398	0.460
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.732 0.156	0.016 0.019	1,247 898	1,192 861	1.225 1.395	0.022 0.120	0.700 0.119	0.763 0.194
Prevalence of malaria (based on rapid test)	0.254	0.019	1,246	1,191	1.404	0.075	0.216	0.292
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.601 0.038	0.016 0.005	1,915 5,080	1,813 4,840	1.458 1.701	0.027 0.120	0.568 0.029	0.634 0.047
Condom use at last sex	0.383	0.046	160	183	1.202	0.121	0.290	0.476
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.525 0.629	0.019 0.013	1,261 4,852	1,224 4,685	1.323 1.924	0.035 0.021	0.488 0.602	0.563 0.655
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.003 4.026	0.001 0.153	1,247 14,366	1,192 13,666	0.887 1.713	0.435 0.038	0.000 3.720	0.006 4.333
Neonatal mortality (last 0-9 years)	27.404	2.925	6,168	5,641	1.191	0.107	21.554	33.254
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	21.155 48.559	1.986 3.857	6,169 6,173	5,639 5,644	1.027 1.226	0.094 0.079	17.184 40.845	25.127 56.273
Child mortality (last 0-9 years)	25.244	3.706	6,107	5,573	1.525	0.079	17.832	32.655
Under-5 mortality (last 0-9 years)	72.577	5.390	6,194	5,667	1.340	0.074	61.797	83.358
Urban residence	0.408	0.022	1,520	1,438	1.774	0.055	0.364	0.453
Literacy	0.885	0.011	1,520	1,438	1.359	0.013	0.863	0.907
No education Secondary or higher education	0.018 0.850	0.004 0.012	1,520 1,520	1,438 1,438	1.094 1.343	0.206 0.014	0.011 0.825	0.026 0.875
Never married (in union)	0.437	0.017	1,520	1,438	1.359	0.040	0.402	0.471
Currently married (in union)	0.544	0.018	1,520	1,438	1.377	0.032	0.508	0.579
Had first sexual intercourse before age 18 Knows any contraceptive method	0.370 0.999	0.017 0.001	1,247 814	1,183 782	1.223 0.737	0.045 0.001	0.336 0.998	0.403 1.001
Knows any modern contraceptive method	0.995	0.003	814	782	1.306	0.003	0.988	1.001
Want no more children Want to delay birth at least 2 years	0.279 0.165	0.020 0.015	814 814	782 782	1.245 1.118	0.070 0.088	0.240 0.136	0.318 0.194
Ideal number of children	4.903	0.068	1,489	1,410	1.312	0.014	4.768	5.039
Had 2+ sexual partners in past 12 months Condom use at last sex	0.186 0.451	0.012 0.039	1,520 275	1,438 267	1.247 1.292	0.067 0.086	0.161 0.373	0.211 0.529
Abstinence among young people (never had sex)	0.553	0.030	446	414	1.278	0.054	0.493	0.614
Had paid sex in past 12 months	0.058	0.007	1,520	1,438	1.228	0.126	0.044	0.073

			Number	of cases			Confide	nce limits
		Standard	Un-		Design	Relative		
Variable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE
	` '	HOLDS AND F	` ′		(52.1)	(02/11)	(202)	(202
Ownership of at least one ITN	0.444	0.015	7,046	8,714	2.512	0.034	0.414	0.474
De facto population with access to an ITN	0.346	0.013	23,843	30,418	2.143	0.034	0.323	0.369
Household population that slept under an ITN last night	0.276	0.010	23,843	30,418	1.863	0.037	0.255	0.296
		WOMEN						
Jrban residence	0.810	0.015	5,630	7,266	2.883	0.019	0.779	0.840
Literacy	0.806	0.013	5,630	7,266	2.405	0.016	0.781	0.831
No education Secondary or higher education	0.079 0.775	0.007 0.014	5,630 5,630	7,266 7,266	1.879 2.588	0.085 0.019	0.066 0.746	0.093 0.804
Never married (never in union)	0.308	0.013	5,630	7,266	2.149	0.043	0.282	0.335
Currently married (in union)	0.642	0.011	5,630	7,266	1.797	0.018	0.619	0.665
Married before age 18 Had sexual intercourse before age 18	0.156 0.352	0.008 0.013	4,713 4,713	6,051 6,051	1.558 1.819	0.053 0.036	0.140 0.326	0.173 0.377
Currently pregnant	0.062	0.004	5,630	7,266	1.240	0.064	0.054	0.070
Know any contraceptive method	0.990	0.002	3,668	4,666	1.291	0.002	0.986	0.995
Know a modern method	0.989	0.002 0.016	3,668	4,666 4,666	1.361 1.975	0.002 0.044	0.984 0.320	0.994 0.383
Currently using any method Currently using a modern method	0.351 0.244	0.010	3,668 3,668	4,666 4,666	1.221	0.044	0.320	0.363
Currently using pill	0.028	0.005	3,668	4,666	1.961	0.192	0.017	0.038
Currently using male condoms	0.042	0.005	3,668	4,666	1.577	0.125	0.031	0.052
Currently using injectables Currently using implants	0.059 0.052	0.006 0.005	3,668 3,668	4,666 4,666	1.616 1.252	0.107 0.088	0.046 0.043	0.071 0.061
Currently using female sterilisation	0.002	0.003	3,668	4,666	0.979	0.354	0.043	0.004
Currently using withdrawal	0.071	0.007	3,668	4,666	1.571	0.094	0.058	0.084
Currently using rhythm	0.018	0.003	3,668	4,666	1.306	0.160	0.012	0.024
Using public sector source Want no more children	0.504 0.370	0.028 0.008	957 3,668	1,220 4,666	1.747 1.044	0.056 0.023	0.448 0.353	0.561 0.386
Want to delay next birth at least 2 years	0.246	0.010	3,668	4,666	1.377	0.040	0.227	0.266
deal number of children	4.024	0.029	5,337	6,802	1.644	0.007	3.967	4.082
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.832 0.810	0.012 0.016	2,563 3,533	3,218 4,407	1.582 2.035	0.014 0.020	0.809 0.778	0.856 0.842
Received 3+ doses of SP/Fansidar	0.166	0.014	1,328	1,685	1.350	0.020	0.178	0.193
Treated with ORS	0.508	0.037	194	216	0.938	0.073	0.433	0.582
Sought medical treatment for diarrhoea	0.594	0.042	194	216	1.041	0.071	0.510	0.678
Ever had vaccination card Received BCG vaccination	0.879 0.906	0.018 0.014	663 663	874 874	1.444 1.286	0.021 0.016	0.843 0.877	0.915 0.935
Received birth dose HepB vaccination	0.843	0.020	663	874	1.392	0.023	0.804	0.883
Received DPT-HepB-Hib vaccination (3 doses)	0.738	0.028	663	874	1.659	0.038	0.682	0.795
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.842 0.497	0.019 0.026	663 663	874 874	1.326 1.333	0.022 0.052	0.804 0.445	0.879 0.548
Received policy vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.709	0.020	663	874	1.610	0.032	0.443	0.766
Received measles 1 vaccination	0.755	0.026	663	874	1.564	0.034	0.703	0.807
Received all basic vaccinations (12-23 months)	0.430	0.024	663	874	1.281	0.057	0.381	0.478
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.382 0.230	0.024 0.023	663 656	874 811	1.299 1.352	0.064 0.099	0.334 0.185	0.431 0.276
Received all age-appropriate vaccinations (24-35 months)	0.083	0.014	656	811	1.235	0.166	0.056	0.111
Height-for-age (-2SD)	0.247	0.014	1,863	2,294	1.338	0.059	0.218	0.275
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.049 0.148	0.007 0.012	1,858 1,866	2,287 2,297	1.293 1.413	0.136 0.083	0.036 0.124	0.063 0.173
Body mass index (BMI) <18.5	0.146	0.012	2,007	2,503	1.413	0.083	0.124	0.173
Body mass index (BMI) ≥25	0.378	0.014	2,007	2,503	1.227	0.036	0.351	0.405
Prevalence of anaemia (children 6-59 months)	0.596	0.020	1,668	2,060	1.603	0.033	0.557	0.635
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.184 0.289	0.016 0.019	1,238 1,662	1,546 2,051	1.390 1.530	0.089 0.065	0.151 0.252	0.217 0.326
Prevalence of anaemia (women 15-49)	0.511	0.014	2,213	2,759	1.295	0.027	0.483	0.539
Had 2+ sexual partners in past 12 months	0.016	0.002	5,630	7,266	1.409	0.146	0.012	0.021
Condom use at last sex Abstinence among young people (never had sex)	0.234 0.647	0.068 0.013	78 1,293	119 1,741	1.393 0.995	0.289 0.020	0.098 0.620	0.369 0.673
Discriminatory attitudes towards people with HIV	0.758	0.013	5,321	6,854	2.169	0.020	0.020	0.073
Prevalence of sickle cell disease among children 6-59								
months Total fortility rate (last 3 years)	0.024	0.007	1,668	2,060	1.795	0.289	0.010	0.038
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	3.857 30.692	0.115 2.392	15,987 6,879	20,547 8,572	1.485 1.007	0.030 0.078	3.627 25.908	4.087 35.476
Postneonatal mortality (last 0-9 years)	12.284	1.940	6,874	8,589	1.310	0.158	8.404	16.164
Infant mortality (last 0-9 years)	42.976	2.913	6,884	8,578	1.050	0.068	37.150	48.801
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	20.165 62.274	2.336 3.566	6,825 6,909	8,516 8,606	1.234 1.039	0.116 0.057	15.493 55.142	24.838 69.407
S. S mortality (last 6 6 years)	VE. 21 T	MEN	3,303	3,000	1.000	0.001	55.172	55.407
Urban residence	0.789	0.015	1,812	2,240	1.548	0.019	0.759	0.819
Literacy	0.890	0.012	1,812	2,240	1.611	0.013	0.867	0.914
No education	0.042	0.006	1,812	2,240	1.230	0.138	0.030	0.054
Secondary or higher education Never married (in union)	0.833 0.317	0.013 0.015	1,812 1,812	2,240 2,240	1.503 1.386	0.016 0.048	0.807 0.286	0.859 0.347
Currently married (in union)	0.674	0.015	1,812	2,240	1.371	0.048	0.260	0.704
Had first sexual intercourse before age 18	0.169	0.011	1,519	1,916	1.190	0.068	0.146	0.192
Knows any contraceptive method	0.995	0.002	1,183	1,509	0.952	0.002	0.991	0.999
Knows any modern contraceptive method Want no more children	0.991 0.344	0.003 0.018	1,183 1,183	1,509 1,509	1.171 1.335	0.003 0.054	0.984 0.307	0.997 0.381
Want to delay birth at least 2 years	0.172	0.012	1,183	1,509	1.109	0.071	0.147	0.196
ldeal number of children	4.264	0.072	1,780	2,198	1.393	0.017	4.121	4.408
Had 2+ sexual partners in past 12 months	0.087	0.008	1,812	2,240	1.205	0.092	0.071	0.103
Condom use at last sex Abstinence among young people (never had sex)	0.338 0.688	0.037 0.034	184 428	195 484	1.067 1.497	0.110 0.049	0.263 0.620	0.412 0.755
Had paid sex in past 12 months	0.017	0.004	1,812	2,240	1.166	0.206	0.010	0.024
Discriminatory attitudes towards people with HIV	0.705	0.016	1,746	2,181	1.420	0.022	0.674	0.736

Table B.11 Sampling errors: FCT-Abuja sample, Nigeria	DHS 2018							
			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	١				
Ownership of at least one ITN	0.395 0.244	0.028 0.018	1,040	287 1,296	1.849 1.540	0.071 0.075	0.339	0.452 0.280
De facto population with access to an ITN Household population that slept under an ITN last night	0.244	0.018	4,708 4,708	1,296	1.540	0.075	0.207 0.200	0.280
		WOMEN	N					
Urban residence	0.675	0.046	1,186	319	3.355	0.068	0.584	0.767
Literacy	0.678 0.186	0.043 0.034	1,186	319 319	3.177 2.978	0.064 0.182	0.591 0.118	0.764 0.253
No education Secondary or higher education	0.160	0.034	1,186 1,186	319	3.085	0.162	0.116	0.233
Never married (never in union)	0.311 0.635	0.023 0.028	1,186 1,186	319 319	1.689 1.980	0.073 0.044	0.265 0.580	0.356 0.691
Currently married (in union) Married before age 18	0.033	0.028	947	255	2.105	0.112	0.300	0.031
Had sexual intercourse before age 18	0.475 0.062	0.029 0.007	947 1,186	255 319	1.762 1.056	0.060 0.119	0.418 0.048	0.533 0.077
Currently pregnant Know any contraceptive method	0.956	0.007	753	202	1.568	0.012	0.933	0.980
Know a modern method Currently using any method	0.954 0.239	0.012 0.032	753 753	202 202	1.543 2.037	0.012 0.133	0.930 0.175	0.978 0.302
Currently using a modern method	0.203	0.032	753 753	202	1.981	0.133	0.173	0.302
Currently using pill	0.032 0.038	0.011 0.010	753 753	202 202	1.747 1.364	0.352	0.009 0.019	0.054 0.057
Currently using male condoms Currently using injectables	0.036	0.010	753 753	202	1.253	0.250 0.167	0.019	0.037
Currently using implants	0.043	0.009	753 753	202	1.173	0.202	0.026	0.060
Currently using female sterilisation Currently using withdrawal	0.005 0.024	0.003 0.007	753 753	202 202	1.063 1.341	0.552 0.314	0.000 0.009	0.010 0.039
Currently using rhythm	0.005	0.002	753 202	202	0.922	0.461 0.104	0.000 0.370	0.010
Using public sector source Want no more children	0.467 0.354	0.048 0.023	202 753	56 202	1.374 1.305	0.104	0.370	0.563 0.399
Want to delay next birth at least 2 years	0.118	0.012	753	202	0.985	0.098	0.095	0.141
Ideal number of children Mothers protected against tetanus for last birth	4.732 0.708	0.099 0.032	1,115 538	300 148	1.964 1.637	0.021 0.045	4.535 0.645	4.930 0.772
Births with skilled attendant at delivery	0.717	0.052	803	225	2.727	0.073	0.612	0.822
Received 3+ doses of SP/Fansidar Treated with ORS	0.270 0.414	0.050 0.071	311 60	87 17	2.015 1.150	0.184 0.172	0.171 0.272	0.369 0.556
Sought medical treatment for diarrhoea	0.875	0.051	60	17	1.232	0.058	0.773	0.976
Ever had vaccination card Received BCG vaccination	0.811 0.877	0.048 0.032	141 141	41 41	1.519 1.216	0.060 0.037	0.714 0.812	0.907 0.942
Received birth dose HepB vaccination	0.830	0.036	141	41	1.178	0.043	0.759	0.902
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.735 0.770	0.033 0.038	141 141	41 41	0.916 1.117	0.045 0.049	0.670 0.694	0.801 0.847
Received polio vaccination (3 doses)	0.570	0.046	141	41	1.149	0.081	0.478	0.662
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.731 0.739	0.033 0.037	141 141	41 41	0.915 1.041	0.045 0.050	0.665 0.665	0.796 0.813
Received all basic vaccinations (12-23 months)	0.496	0.049	141	41	1.216	0.099	0.397	0.594
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.431 0.191	0.054 0.044	141 143	41 40	1.351 1.355	0.126 0.228	0.323 0.104	0.540 0.278
Received all age-appropriate vaccinations (24-35 months)	0.092	0.035	143	40	1.486	0.382	0.022	0.162
Height-for-age (-2SD) Weight-for-height (-2SD)	0.212 0.030	0.036 0.012	298 297	87 87	1.460 1.275	0.172 0.399	0.139 0.006	0.285 0.054
Weight-for-age (-2SD)	0.121	0.025	298	87	1.363	0.208	0.071	0.172
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.094 0.375	0.024 0.043	384 384	105 105	1.593 1.732	0.251 0.114	0.047 0.289	0.141 0.460
Prevalence of anaemia (children 6-59 months)	0.588	0.041	268	80	1.325	0.070	0.506	0.671
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.201 0.313	0.035 0.047	199 269	59 80	1.133 1.487	0.174 0.150	0.131 0.219	0.270 0.407
Prevalence of anaemia (women 15-49)	0.503	0.026	405	112	1.043	0.051	0.452	0.555
Had 2+ sexual partners in past 12 months Condom use at last sex	0.023 0.784	0.011 0.1 4 0	1,186 27	319 7	2.498 1.675	0.479 0.179	0.001 0.503	0.044 1.064
Abstinence among young people (never had sex)	0.742	0.039	301	81	1.556	0.053	0.664	0.821
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.486	0.020	1,134	304	1.354	0.041	0.446	0.526
months	0.000	0.000	268	80	0.000	0.000	0.000	0.000
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	4.322 26.773	0.297 5.047	3,333 1,594	896 437	1.974 1.215	0.069 0.189	3.728 16.679	4.916 36.867
Postneonatal mortality (last 0-9 years)	19.511	5.913	1,597	438	1.458	0.303	7.684	31.338
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	46.284 29.647	7.903 5.490	1,594 1,566	437 426	1.340 1.060	0.171 0.185	30.477 18.667	62.090 40.627
Under-5 mortality (last 0-9 years)	74.559	9.619	1,605	440	1.311	0.129	55.320	93.797
		MEN						
Urban residence	0.682	0.042	353 353	96 96	1.680	0.061	0.599	0.766 0.910
Literacy No education	0.847 0.086	0.031 0.028	353 353	96 96	1.622 1.861	0.037 0.323	0.785 0.031	0.910
Secondary or higher education	0.779	0.041	353	96	1.840	0.052	0.697	0.861
Never married (in union) Currently married (in union)	0.389 0.602	0.050 0.047	353 353	96 96	1.929 1.797	0.129 0.078	0.288 0.508	0.489 0.696
Had first sexual intercourse before age 18	0.094	0.029	278	77	1.630	0.305	0.037	0.151
Knows any contraceptive method Knows any modern contraceptive method	1.000 1.000	0.000 0.000	199 199	58 58	0.000 0.000	0.000 0.000	1.000 1.000	1.000 1.000
Want no more children	0.388	0.042	199	58	1.220	0.109	0.304	0.473
Want to delay birth at least 2 years Ideal number of children	0.297 5.080	0.033 0.229	199 348	58 94	1.019 1.839	0.112 0.045	0.230 4.621	0.363 5.539
Had 2+ sexual partners in past 12 months	0.066	0.015	353	96	1.134	0.228	0.036	0.096
Condom use at last sex Abstinence among young people (never had sex)	0.321 0.936	0.120 0.023	24 108	6 27	1.218 0.971	0.373 0.025	0.082 0.890	0.561 0.982
Had paid sex in past 12 months	0.008	0.006	353	96	1.172	0.690	0.000	0.019
Discriminatory attitudes towards people with HIV	0.457	0.046	340	92	1.708	0.102	0.364	0.549

		0.	Number	of cases		5	Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.641 0.484	0.025 0.026	1,140 4,917	1,230 5,263	1.785 1.987	0.040 0.053	0.591 0.433	0.692 0.535
Household population that slept under an ITN last night	0.520	0.028	4,917	5,263	1.998	0.055	0.463	0.577
		WOMEN	١					
Jrban residence	0.166	0.034	1,278	1,354	3.219	0.203	0.098	0.233
Literacy No education	0.558 0.218	0.024 0.018	1,278 1,278	1,354 1,354	1.703 1.560	0.042 0.083	0.510 0.182	0.605 0.254
Secondary or higher education	0.546	0.017	1,278	1,354	1.958	0.050	0.492	0.601
Never married (never in union)	0.258	0.016	1,278	1,354	1.294 1.479	0.061 0.031	0.227 0.607	0.290 0.686
Currently married (in union) Married before age 18	0.647 0.385	0.020 0.023	1,278 1,010	1,354 1,075	1.479	0.051	0.807	0.666
Had sexual intercourse before age 18	0.628	0.025	1,010	1,075	1.655	0.040	0.578	0.678
Currently pregnant Know any contraceptive method	0.099 0.990	0.013 0.004	1,278 836	1,354 876	1.527 1.084	0.129 0.004	0.073 0.982	0.124 0.997
Know a modern method	0.990	0.004	836	876	1.084	0.004	0.982	0.997
Currently using any method Currently using a modern method	0.171 0.155	0.015 0.015	836 836	876 876	1.139 1.206	0.087 0.097	0.141 0.125	0.201 0.185
Currently using a modern method Currently using pill	0.133	0.013	836	876	1.032	0.037	0.123	0.020
Currently using male condoms	0.028	0.009	836	876	1.562	0.316	0.010	0.046
Currently using injectables Currently using implants	0.031 0.064	0.009 0.010	836 836	876 876	1.491 1.195	0.288 0.159	0.013 0.044	0.049 0.084
Currently using female sterilisation	0.005	0.002	836	876	0.946	0.453	0.000	0.010
Currently using withdrawal Currently using rhythm	0.006 0.007	0.003 0.003	836 836	876 876	1.048 0.936	0.457 0.387	0.001 0.002	0.012 0.012
Using public sector source	0.520	0.040	138	152	0.936	0.077	0.440	0.600
Want no more children	0.308	0.023	836	876	1.448	0.075	0.262	0.355
Want to delay next birth at least 2 years Ideal number of children	0.336 5.082	0.017 0.087	836 1,276	876 1,351	1.015 1.835	0.049 0.017	0.303 4.907	0.370 5.257
Mothers protected against tetanus for last birth	0.685	0.032	607	637	1.720	0.047	0.620	0.749
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.711 0.176	0.032 0.026	908 355	949 370	1.848 1.266	0.045 0.145	0.647 0.125	0.774 0.227
Treated with ORS	0.388	0.020	97	101	1.376	0.176	0.251	0.525
Sought medical treatment for diarrhoea	0.924	0.027	97	101	0.994	0.029	0.870	0.977
Ever had vaccination card Received BCG vaccination	0.777 0.820	0.058 0.043	186 186	194 194	1.854 1.528	0.074 0.053	0.661 0.733	0.893 0.906
Received birth dose HepB vaccination	0.677	0.048	186	194	1.401	0.071	0.581	0.774
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.587 0.641	0.050 0.043	186 186	194 194	1.376 1.203	0.085 0.066	0.487 0.556	0.687 0.727
Received polio vaccination (3 doses)	0.400	0.050	186	194	1.367	0.124	0.300	0.499
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.526 0.641	0.051 0.055	186 186	194 194	1.381 1.530	0.098 0.086	0.423 0.531	0.629 0.752
Received illeasies i vaccination Received all basic vaccinations (12-23 months)	0.041	0.033	186	194	1.324	0.060	0.331	0.732
Received all age-appropriate vaccinations (12-23 months)	0.196	0.035	186	194	1.186	0.179	0.126	0.266
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.217 0.010	0.034 0.008	169 169	180 180	1.086 1.068	0.157 0.791	0.149 0.000	0.285 0.027
Height-for-age (-2SD)	0.205	0.023	373	414	1.036	0.113	0.159	0.252
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.090 0.123	0.017 0.017	376 379	415 419	1.107 1.040	0.189 0.139	0.056 0.089	0.123 0.157
Body mass index (BMI) <18.5	0.123	0.017	410	431	1.128	0.139	0.036	0.137
Body mass index (BMI) >25	0.223	0.025	410	431	1.203	0.111	0.173	0.273
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.620 0.127	0.025 0.022	340 236	377 265	0.923 1.046	0.041 0.170	0.569 0.084	0.671 0.170
Prevalence of malaria (based on rapid test)	0.260	0.035	339	376	1.259	0.133	0.191	0.329
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.488 0.023	0.027 0.007	468 1,278	496 1,354	1.182 1.595	0.056 0.293	0.434 0.009	0.543 0.036
Condom use at last sex	0.478	0.090	27	31	0.922	0.188	0.298	0.658
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.630 0.450	0.033 0.026	277 1,274	299 1,350	1.139 1.895	0.053 0.059	0.563 0.397	0.696 0.503
Prevalence of sickle cell disease among children 6-59	0.400	0.020	1,414	1,550	1.050	0.008	บ.วฮเ	0.303
months	0.011	0.006	340	377	1.002	0.506	0.000	0.022
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	4.524 25.047	0.231 3.976	3,554 1,674	3,770 1,702	1.103 0.898	0.051 0.159	4.063 17.094	4.986 32.999
Postneonatal mortality (last 0-9 years)	15.251	4.028	1,671	1,700	1.241	0.264	7.194	23.307
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	40.297 19.396	5.762 4.221	1,676 1,627	1,704 1,651	1.059 1.116	0.143 0.218	28.774 10.954	51.820 27.838
Under-5 mortality (last 0-9 years)	58.911	7.400	1,684	1,713	1.129	0.126	44.112	73.711
		MEN						
Urban residence	0.172	0.032	321	351	1.500	0.184	0.109	0.236
Literacy No education	0.809 0.075	0.033 0.022	321 321	351 351	1.489 1.509	0.041 0.297	0.743 0.030	0.874 0.120
Secondary or higher education	0.795	0.030	321	351	1.324	0.038	0.735	0.855
Never married (in union) Currently married (in union)	0.373 0.614	0.029 0.028	321 321	351 351	1.071 1.014	0.078 0.045	0.315 0.559	0.431 0.670
Had first sexual intercourse before age 18	0.014	0.028	261	289	1.014	0.229	0.559	0.670
Knows any contraceptive method	1.000	0.000	198	216	0.000	0.000	1.000	1.000
Knows any modern contraceptive method Want no more children	1.000 0.234	0.000 0.036	198 198	216 216	0.000 1.207	0.000 0.156	1.000 0.161	1.000 0.307
Want to delay birth at least 2 years	0.427	0.038	198	216	1.075	0.089	0.352	0.503
ldeal number of children Had 2+ sexual partners in past 12 months	4.246 0.084	0.189 0.019	320 321	350 351	1.277 1.240	0.044 0.229	3.868 0.046	4.623 0.123
Condom use at last sex	0.064	0.019	27	30	0.982	0.229	0.046	0.123
Abstinence among young people (never had sex)	0.901	0.026	80	82	0.774	0.029	0.849	0.953
Had paid sex in past 12 months Discriminatory attitudes towards people with HIV	0.011 0.206	0.005 0.026	321 274	351 301	0.931 1.083	0.492 0.129	0.000 0.153	0.022 0.259

Table B.13 Sampling errors: Kogi sample, Nigeria DHS	2018							
			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
O continue of all hours and a second			POPULATION		0.40-	0.04-	0.005	0 = 1=
Ownership of at least one ITN De facto population with access to an ITN	0.685 0.555	0.031 0.031	988 3,577	707 2,596	2.103 2.017	0.045 0.056	0.623 0.493	0.747 0.618
Household population that slept under an ITN last night	0.482	0.033	3,577	2,596	2.043	0.069	0.415	0.548
		WOMEN	١					
Urban residence Literacy	0.355 0.577	0.044 0.044	907 907	654 654	2.764 2.700	0.124 0.077	0.267 0.488	0.443 0.666
No education	0.128	0.029	907	654	2.648	0.231	0.069	0.187
Secondary or higher education Never married (never in union)	0.611 0.260	0.036 0.019	907 907	654 654	2.227 1.337	0.059 0.075	0.539 0.221	0.683 0.299
Currently married (in union)	0.653	0.019	907	654	1.196	0.029	0.616	0.691
Married before age 18 Had sexual intercourse before age 18	0.396 0.586	0.029 0.037	700 700	506 506	1.569 1.973	0.073 0.063	0.338 0.512	0.455 0.660
Currently pregnant	0.110	0.018	907	654	1.697	0.161	0.074	0.145
Know any contraceptive method Know a modern method	0.949 0.946	0.015 0.015	589 589	428 428	1.662 1.626	0.016 0.016	0.919 0.916	0.979 0.976
Currently using any method	0.183	0.022	589	428	1.375	0.120	0.139	0.227
Currently using a modern method Currently using pill	0.118 0.012	0.020 0.004	589 589	428 428	1.533 0.954	0.173 0.363	0.078 0.003	0.159 0.020
Currently using male condoms	0.034	0.008	589	428	1.057	0.234	0.018	0.049
Currently using injectables Currently using implants	0.029 0.024	0.008 0.007	589 589	428 428	1.217 1.184	0.292 0.311	0.012 0.009	0.046 0.039
Currently using female sterilisation	0.004	0.003	589	428	0.941	0.588	0.000	0.009
Currently using withdrawal Currently using rhythm	0.041 0.019	0.006 0.007	589 589	428 428	0.768 1.178	0.154 0.346	0.028 0.006	0.053 0.033
Using public sector source	0.269	0.038	102	78	0.861	0.141	0.193	0.344
Want no more children Want to delay next birth at least 2 years	0.308 0.339	0.020 0.028	589 589	428 428	1.047 1.433	0.065 0.083	0.268 0.283	0.347 0.395
Ideal number of children	4.765	0.091	852	615	1.918	0.019	4.583	4.947
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.673 0.776	0.040 0.028	412 620	299 451	1.715 1.376	0.059 0.036	0.594 0.720	0.752 0.831
Received 3+ doses of SP/Fansidar	0.298	0.037	228	167	1.247	0.126	0.223	0.373
Treated with ORS Sought medical treatment for diarrhoea	0.325 0.389	0.110 0.095	38 38	26 26	1.256 1.066	0.337 0.245	0.106 0.199	0.544 0.580
Ever had vaccination card	0.807	0.071	103	80	1.860	0.087	0.666	0.948
Received BCG vaccination Received birth dose HepB vaccination	0.800 0.631	0.053 0.051	103 103	80 80	1.392 1.100	0.067 0.081	0.693 0.528	0.907 0.734
Received DPT-HepB-Hib vaccination (3 doses)	0.556	0.069	103	80	1.414	0.123	0.419	0.694
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.582 0.434	0.068 0.066	103 103	80 80	1.408 1.346	0.118 0.151	0.445 0.303	0.719 0.565
Received pneumococcal vaccination (3 doses)	0.495	0.060	103	80	1.232	0.122	0.374	0.616
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.447 0.262	0.064 0.058	103 103	80 80	1.305 1.302	0.143 0.221	0.320 0.146	0.575 0.377
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.108 0.217	0.036 0.041	103 99	80 72	1.209 0.967	0.332 0.190	0.036 0.135	0.180 0.299
Received measies 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.093	0.041	99	72	1.118	0.190	0.133	0.299
Height-for-age (-2SD) Weight-for-height (-2SD)	0.200 0.039	0.030 0.013	214 213	159 158	1.008 1.071	0.148 0.338	0.141 0.013	0.259 0.065
Weight-for-age (-2SD)	0.039	0.021	214	159	0.866	0.211	0.013	0.005
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.102 0.267	0.023 0.032	267 267	189 189	1.217 1.175	0.224 0.120	0.056 0.203	0.147 0.331
Prevalence of anaemia (children 6-59 months)	0.636	0.047	194	143	1.333	0.074	0.541	0.730
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.254 0.460	0.047 0.056	140 194	105 143	1.222 1.418	0.185 0.122	0.160 0.348	0.347 0.572
Prevalence of anaemia (women 15-49)	0.582	0.039	312	224	1.386	0.067	0.504	0.660
Had 2+ sexual partners in past 12 months Condom use at last sex	0.006 0.198	0.003 0.214	907 5	654 4	1.117 1.057	0.475 1.078	0.000 0.000	0.012 0.626
Abstinence among young people (never had sex)	0.577	0.028	220	156	0.833	0.048	0.521	0.632
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.778	0.030	770	555	2.020	0.039	0.718	0.839
months	0.024	0.012	194	143	1.159	0.520	0.000	0.049
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	4.756 50.338	0.277 7.162	2,517 1,236	1,819 889	1.194 0.990	0.058 0.142	4.201 36.014	5.310 64.663
Postneonatal mortality (last 0-9 years)	43.093	6.058	1,237	890	0.976	0.141	30.977	55.208
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	93.431 60.061	9.152 10.360	1,238 1,224	890 880	1.051 1.173	0.098 0.172	75.127 39.341	111.735 80.781
Under-5 mortality (last 0-9 years)	147.881	14.195	1,250	898	1.145	0.096	119.491	176.270
		MEN						
Urban residence Literacy	0.438 0.759	0.066 0.034	191 191	156 156	1.819 1.104	0.150 0.045	0.306 0.691	0.570 0.828
No education	0.042	0.023	191	156	1.561	0.546	0.000	0.087
Secondary or higher education Never married (in union)	0.858 0.450	0.032 0.051	191 191	156 156	1.267 1.416	0.037 0.114	0.794 0.348	0.922 0.553
Currently married (in union)	0.538	0.050	191	156	1.373	0.093	0.438	0.637
Had first sexual intercourse before age 18 Knows any contraceptive method	0.356 0.987	0.032 0.012	156 105	127 84	0.829 1.132	0.089 0.013	0.292 0.962	0.419 1.012
Knows any modern contraceptive method	0.987	0.012	105	84	1.132	0.013	0.962	1.012
Want no more children Want to delay birth at least 2 years	0.191 0.407	0.036 0.050	105 105	84 84	0.924 1.039	0.186 0.123	0.120 0.307	0.262 0.507
Ideal number of children	5.472	0.268	183	149	1.353	0.049	4.935	6.008
Had 2+ sexual partners in past 12 months Condom use at last sex	0.172 0.110	0.028 0.050	191 36	156 27	1.022 0.950	0.163 0.456	0.116 0.010	0.227 0.211
Abstinence among young people (never had sex)	0.423	0.091	60	52	1.399	0.214	0.242	0.605
Had paid sex in past 12 months Discriminatory attitudes towards people with HIV	0.039 0.650	0.013 0.038	191 169	156 138	0.927 1.041	0.332 0.059	0.013 0.573	0.065 0.727

	<u>3 2018</u>		Number	of cases			Confide	ence limits	
		Standard	Un-	01 00000	Design	Relative	Comido	noo minto	
Variable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE	
	` ′	HOLDS AND F	` ′		(DLI I)	(SL/K)	(N-23L)	(N+ZSL	
Ownership of at least one ITN	0.655	0.027	1,016	771	1.795	0.041	0.602	0.709	
De facto population with access to an ITN	0.033	0.027	4,164	3,271	1.734	0.051	0.445	0.709	
Household population that slept under an ITN last night	0.304	0.025	4,164	3,271	1.810	0.082	0.254	0.354	
		WOMEN							
Urban residence	0.752	0.033	906	684	2.294	0.044	0.686	0.818	
Literacy No education	0.537 0.319	0.067 0.071	906 906	684 684	4.036 4.560	0.126 0.224	0.402 0.176	0.672 0.462	
Secondary or higher education	0.497	0.071	906	684	4.056	0.224	0.170	0.633	
Never married (never in union)	0.263	0.024	906	684	1.671	0.093	0.214	0.312	
Currently married (in union) Married before age 18	0.710 0.287	0.025 0.042	906 713	684 543	1.662 2.464	0.035 0.146	0.660 0.204	0.760 0.371	
Had sexual intercourse before age 18	0.431	0.047	713	543	2.498	0.108	0.338	0.524	
Currently pregnant	0.100 0.907	0.011	906	684	1.091	0.109 0.052	0.079	0.122 1.002	
Know any contraceptive method Know a modern method	0.893	0.047 0.049	636 636	486 486	4.043 3.931	0.052	0.813 0.796	0.991	
Currently using any method	0.224	0.029	636	486	1.730	0.128	0.167	0.282	
Currently using a modern method Currently using pill	0.171 0.025	0.023 0.007	636 636	486 486	1.551 1.164	0.135 0.287	0.125 0.011	0.218 0.040	
Currently using male condoms	0.025	0.008	636	486	1.344	0.331	0.009	0.040	
Currently using injectables	0.063	0.012	636	486	1.282	0.197	0.038	0.088	
Currently using implants Currently using female sterilisation	0.038 0.001	0.010 0.001	636 636	486 486	1.324 0.885	0.264 1.027	0.018 0.000	0.058 0.004	
Currently using letriale sternisation Currently using withdrawal	0.001	0.001	636	486	1.325	0.280	0.000	0.004	
Currently using rhythm	0.008	0.004	636	486	1.047	0.478	0.000	0.015	
Using public sector source Want no more children	0.546 0.345	0.039 0.041	124 636	95 486	0.879 2.156	0.072 0.118	0.468 0.264	0.625 0.427	
Want to delay next birth at least 2 years	0.343	0.026	636	486	1.518	0.110	0.204	0.427	
ldeal number of children	5.008	0.144	855	635	2.868	0.029	4.719	5.296	
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.659 0.580	0.071 0.067	467 694	360 533	3.202 2.822	0.107 0.115	0.518 0.447	0.801 0.713	
Received 3+ doses of SP/Fansidar	0.360	0.007	268	211	1.098	0.113	0.447	0.713	
Treated with ORS	0.353	0.084	45	41	1.246	0.239	0.184	0.522	
Sought medical treatment for diarrhoea Ever had vaccination card	0.641 0.618	0.059 0.088	45 130	41 105	0.893 2.107	0.092 0.143	0.523 0.441	0.759 0.794	
Received BCG vaccination	0.635	0.088	130	105	2.201	0.143	0.452	0.794	
Received birth dose HepB vaccination	0.545	0.071	130	105	1.644	0.130	0.404	0.687	
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.545 0.615	0.073 0.090	130 130	105 105	1.696 2.154	0.134 0.147	0.399 0.434	0.691 0.795	
Received biliti dose polio o vaccination Received polio vaccination (3 doses)	0.352	0.076	130	105	1.841	0.147	0.200	0.793	
Received pneumococcal vaccination (3 doses)	0.553	0.073	130	105	1.712	0.133	0.406	0.699	
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.505 0.293	0.095 0.060	130 130	105 105	2.199 1.529	0.188 0.204	0.315 0.173	0.695 0.412	
Received all age-appropriate vaccinations (12-23 months)	0.269	0.051	130	105	1.332	0.204	0.173	0.371	
Received measles 2 vaccination	0.228	0.053	117	85	1.283	0.235	0.121	0.334	
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.028 0.329	0.014 0.066	117 261	85 202	0.887 2.073	0.500 0.200	0.000 0.198	0.055 0.461	
Weight-for-height (-2SD)	0.074	0.030	259	201	1.699	0.404	0.014	0.134	
Weight-for-age (-2SD)	0.186	0.066	261	202	2.343	0.354	0.054	0.318	
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.111 0.260	0.023 0.031	297 297	226 226	1.254 1.235	0.206 0.120	0.065 0.198	0.156 0.323	
Prevalence of anaemia (children 6-59 months)	0.694	0.041	244	189	1.219	0.059	0.612	0.775	
Prevalence of malaria (based on microscopy test)	0.202	0.041	181	147	1.283	0.200	0.121	0.283	
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.437 0.549	0.070 0.035	244 339	189 256	1.988 1.300	0.160 0.064	0.297 0.479	0.577 0.619	
Had 2+ sexual partners in past 12 months	0.003	0.001	906	684	0.844	0.530	0.000	0.006	
Condom use at last sex	0.403	0.361	3	2	1.027	0.897	0.000	1.124	
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.704 0.748	0.040 0.038	228 819	167 618	1.305 2.471	0.056 0.050	0.625 0.673	0.783 0.823	
Prevalence of sickle cell disease among children 6-59									
months	0.020	0.010	244	189	1.018	0.515	0.000	0.041	
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	5.216 31.369	0.249 6.746	2,499 1,377	1,884 1,066	1.374 1.330	0.048 0.215	4.719 17.877	5.713 44.860	
Postneonatal mortality (last 0-9 years)	20.413	6.475	1,385	1,000	1.433	0.213	7.463	33.363	
Infant mortality (last 0-9 years)	51.782	10.014	1,378	1,067	1.397	0.193	31.755	71.809	
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	23.326 73.900	5.011 11.520	1,353 1,382	1,052 1,071	1.203 1.319	0.215 0.156	13.304 50.859	33.348 96.941	
2 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		MEN	.,002	.,•. 1			23.000	20.011	
Urban residence	0.792	0.043	259	208	1.709	0.055	0.705	0.878	
Literacy	0.646	0.072	259	208	2.381	0.111	0.503	0.789	
No education Secondary or higher education	0.196	0.063	259 259	208	2.525	0.322	0.070	0.322	
Secondary or higher education Never married (in union)	0.624 0.487	0.066 0.041	259 259	208 208	2.159 1.321	0.105 0.085	0.493 0.405	0.756 0.569	
Currently married (in union)	0.509	0.041	259	208	1.312	0.080	0.427	0.591	
Had first sexual intercourse before age 18	0.187	0.037	200	157	1.348	0.200	0.112	0.262	
Knows any contraceptive method Knows any modern contraceptive method	0.953 0.953	0.026 0.026	140 140	106 106	1.410 1.410	0.027 0.027	0.901 0.901	1.004 1.004	
Want no more children	0.311	0.059	140	106	1.494	0.189	0.194	0.429	
Want to delay birth at least 2 years	0.200	0.034	140	106	0.991	0.168	0.133	0.268	
ldeal number of children Had 2+ sexual partners in past 12 months	7.017 0.204	0.374 0.026	248 259	200 208	1.350 1.024	0.053 0.126	6.268 0.153	7.766 0.255	
Condom use at last sex	0.204	0.026	50	42	0.920	0.126	0.133	0.235	
Abstinence among young people (never had sex)	0.642	0.060	87	75	1.152	0.093	0.523	0.762	
Had paid sex in past 12 months	0.085	0.020 0.025	259 228	208 185	1.147 0.919	0.235 0.033	0.045 0.728	0.124	

Table B.15 Sampling errors: Nasarawa sample, Nigeria	DHS 2018							
			Number	of cases	-		Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	N				
Ownership of at least one ITN De facto population with access to an ITN	0.766 0.591	0.041 0.040	998 4,802	591 2,865	3.076 2.672	0.054 0.068	0.683 0.510	0.849 0.671
Household population that slept under an ITN last night	0.512	0.033	4,802	2,865	2.065	0.064	0.447	0.578
		WOMEN	N					
Urban residence	0.320	0.065	1,121	648	4.597	0.202	0.190	0.449
Literacy No education	0.602 0.261	0.045 0.039	1,121 1,121	648 648	3.083 2.994	0.075 0.151	0.511 0.182	0.692 0.340
Secondary or higher education	0.201	0.059	1,121	648	3.404	0.131	0.162	0.680
Never married (never in union)	0.319 0.643	0.021 0.026	1,121 1,121	648 648	1.489 1.821	0.065 0.041	0.278 0.590	0.361 0.695
Currently married (in union) Married before age 18	0.404	0.020	885	519	2.291	0.041	0.329	0.093
Had sexual intercourse before age 18	0.479 0.081	0.038 0.008	885 1,121	519 648	2.260 1.002	0.079 0.100	0.403 0.065	0.556 0.098
Currently pregnant Know any contraceptive method	0.051	0.008	696	416	2.099	0.100	0.920	0.0987
Know a modern method Currently using any method	0.950 0.148	0.017 0.030	696 696	416 416	2.104 2.225	0.018 0.203	0.916 0.088	0.985 0.209
Currently using a modern method	0.143	0.030	696	416	2.031	0.203	0.089	0.209
Currently using pill	0.018 0.009	0.008 0.004	696 696	416 416	1.531 1.191	0.431 0.482	0.002 0.000	0.033 0.017
Currently using male condoms Currently using injectables	0.009	0.004	696	416	1.319	0.462	0.000	0.017
Currently using implants	0.072	0.011	696	416	1.164	0.159	0.049	0.095
Currently using female sterilisation Currently using withdrawal	0.001 0.00 4	0.001 0.004	696 696	416 416	0.685 1.552	1.027 0.957	0.000 0.000	0.002 0.011
Currently using rhythm	0.000	0.000	696	416	0.000	0.000	0.000	0.000
Using public sector source Want no more children	0.831 0.274	0.058 0.020	101 696	68 416	1.524 1.169	0.069 0.072	0.716 0.234	0.946 0.313
Want to delay next birth at least 2 years	0.396	0.023	696	416	1.241	0.058	0.350	0.442
Ideal number of children Mothers protected against tetanus for last birth	6.019 0.665	0.166 0.026	1,120 539	647 329	2.421 1.313	0.028 0.039	5.687 0.613	6.352 0.718
Births with skilled attendant at delivery	0.575	0.055	834	521	2.629	0.095	0.465	0.684
Received 3+ doses of SP/Fansidar Treated with ORS	0.149 0.802	0.022 0.052	306 39	189 27	1.089 0.922	0.145 0.065	0.106 0.698	0.193 0.906
Sought medical treatment for diarrhoea	0.863	0.078	39	27	1.500	0.090	0.708	1.019
Ever had vaccination card Received BCG vaccination	0.880 0.876	0.033 0.034	137 137	85 85	1.199 1.232	0.037 0.039	0.815 0.808	0.945 0.944
Received birth dose HepB vaccination	0.847	0.031	137	85	1.026	0.037	0.785	0.908
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.597 0.813	0.063 0.038	137 137	85 85	1.523 1.151	0.106 0.046	0.471 0.738	0.724 0.888
Received polio vaccination (3 doses)	0.516	0.049	137	85	1.163	0.096	0.417	0.615
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.542 0.656	0.065 0.063	137 137	85 85	1.543 1.581	0.121 0.097	0.411 0.529	0.672 0.782
Received all basic vaccinations (12-23 months)	0.391	0.062	137	85	1.473	0.159	0.267	0.515
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.330 0.208	0.054 0.046	137 156	85 98	1.305 1.431	0.162 0.219	0.223 0.117	0.437 0.299
Received all age-appropriate vaccinations (24-35 months)	0.068	0.031	156	98	1.565	0.447	0.007	0.129
Height-for-age (-2SD) Weight-for-height (-2SD)	0.312 0.056	0.032 0.012	299 299	194 194	1.156 1.022	0.102 0.221	0.249 0.031	0.376 0.080
Weight-for-age (-2SD)	0.202	0.030	299	194	1.286	0.149	0.142	0.263
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.119 0.288	0.024 0.027	346 346	209 209	1.378 1.126	0.197 0.093	0.072 0.234	0.166 0.341
Prevalence of anaemia (children 6-59 months)	0.679	0.046	266	172	1.541	0.067	0.588	0.771
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.136 0.321	0.033 0.047	199 265	132 172	1.193 1.560	0.242 0.147	0.070 0.227	0.202 0.415
Prevalence of anaemia (women 15-49)	0.651	0.037	397	236	1.558	0.056	0.578	0.725
Had 2+ sexual partners in past 12 months Condom use at last sex	0.014 0.239	0.011 0.074	1,121 6	648 9	3.082 0.418	0.773 0.309	0.000 0.091	0.036 0.387
Abstinence among young people (never had sex)	0.628	0.044	310	174	1.611	0.071	0.539	0.717
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.472	0.026	1,040	606	1.692	0.056	0.420	0.525
months	0.018	0.009	266	172	1.146	0.490	0.000	0.036
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	5.285 35.715	0.382 7.677	3,129 1,602	1,816 990	1.800 1.195	0.072 0.215	4.521 20.362	6.050 51.069
Postneonatal mortality (last 0-9 years)	28.026	4.031	1,605	993	0.899	0.144	19.964	36.089
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	63.741 60.315	7.914 9.684	1,605 1,602	991 985	0.992 1.371	0.124 0.161	47.914 40.947	79.568 79.683
Under-5 mortality (last 0-9 years)	120.212	8.314	1,620	999	0.831	0.069	103.585	136.839
		MEN						
Urban residence	0.357	0.072	345	206	2.752	0.201	0.214	0.501
Literacy No education	0.720 0.156	0.062 0.070	345 345	206 206	2.541 3.543	0.086 0.453	0.597 0.015	0.844 0.296
Secondary or higher education	0.715	0.063	345	206	2.584	0.089	0.588	0.842
Never married (in union) Currently married (in union)	0.520 0.468	0.036 0.036	345 345	206 206	1.334 1.351	0.069 0.078	0.448 0.395	0.592 0.541
Had first sexual intercourse before age 18	0.095	0.036	270	159	2.011	0.381	0.022	0.167
Knows any contraceptive method Knows any modern contraceptive method	1.000 1.000	0.000 0.000	162 162	96 96	0.000 0.000	0.000 0.000	1.000 1.000	1.000 1.000
Want no more children	0.091	0.027	162	96	1.171	0.292	0.038	0.144
Want to delay birth at least 2 years Ideal number of children	0.547 7.016	0.070 0.495	162 304	96 180	1.763 1.825	0.127 0.071	0.408 6.025	0.687 8.006
Had 2+ sexual partners in past 12 months	0.110	0.022	345	206	1.325	0.203	0.065	0.155
Condom use at last sex Abstinence among young people (never had sex)	0.193 0.733	0.079 0.040	34 129	23 80	1.138 1.014	0.407 0.054	0.036 0.653	0.350 0.812
Had paid sex in past 12 months	0.051	0.015	345	206	1.267	0.295	0.021	0.081
Discriminatory attitudes towards people with HIV	0.512	0.060	335	200	2.190	0.118	0.391	0.632

		0.	Number	of cases			Confide	nce limits
√ariable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
valiable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
	HOUSE	HOLDS AND	POPULATION	l				
Ownership of at least one ITN	0.469	0.027	1,139	1,229	1.845	0.058	0.414	0.523
De facto population with access to an ITN Household population that slept under an ITN last night	0.290 0.290	0.019 0.020	5,921 5,921	6,415 6,415	1.623 1.570	0.064 0.069	0.253 0.250	0.328 0.330
Tours of population that dispitation and the first factoring in	0.200	WOMEN	•	0,1.0		0.000	0.200	0.000
Jrban residence	0.252	0.024	1,292	1,357	2.014	0.097	0.203	0.300
iteracy	0.259	0.023	1,292	1,357	1.888	0.089	0.213	0.305
No education Secondary or higher education	0.651 0.281	0.029 0.025	1,292 1,292	1,357 1,357	2.160 1.981	0.044 0.088	0.594 0.231	0.709 0.331
Never married (never in union)	0.261	0.025	1,292	1,357	1.396	0.087	0.231	0.331
Currently married (in union)	0.816	0.016	1,292	1,357	1.495	0.020	0.784	0.848
Married before age 18 Had sexual intercourse before age 18	0.544 0.623	0.019 0.021	1,056 1,056	1,115 1,115	1.270 1.426	0.036 0.034	0.505 0.580	0.583 0.665
Currently pregnant	0.123	0.009	1,292	1,357	1.017	0.076	0.104	0.141
Know any contraceptive method Know a modern method	0.767 0.767	0.025 0.025	1,040 1,040	1,108 1,108	1.919 1.919	0.033 0.033	0.717 0.717	0.817 0.817
Currently using any method	0.076	0.013	1,040	1,108	1.525	0.166	0.051	0.101
Currently using a modern method Currently using pill	0.064 0.004	0.012 0.002	1,040 1,040	1,108 1,108	1.517 1.079	0.180 0.565	0.041 0.000	0.087 0.007
Currently using male condoms	0.004	0.002	1,040	1,108	1.079	0.351	0.000	0.007
Currently using injectables	0.025	0.006	1,040	1,108	1.166	0.224	0.014	0.037
Currently using implants Currently using female sterilisation	0.023 0.001	0.006 0.001	1,040 1,040	1,108 1,108	1.209 0.893	0.243 1.007	0.012 0.000	0.035 0.002
Currently using withdrawal	0.008	0.004	1,040	1,108	1.277	0.441	0.001	0.015
Currently using rhythm Jsing public sector source	0.000 0.730	0.000 0.070	1,040 74	1,108 78	0.000 1.343	0.000 0.096	0.000 0.589	0.000 0.870
Vant no more children	0.730	0.070	1,040	1,108	1.343	0.098	0.569	0.870
Want to delay next birth at least 2 years	0.316	0.019	1,040	1,108	1.346	0.061	0.277	0.355
deal number of children Vlothers protected against tetanus for last birth	7.392 0.398	0.127 0.030	1,237 791	1,304 844	1.460 1.704	0.017 0.074	7.139 0.339	7.645 0.457
Births with skilled attendant at delivery	0.306	0.027	1,219	1,312	1.740	0.089	0.251	0.361
Received 3+ doses of SP/Fansidar Freated with ORS	0.049 0.420	0.014 0.064	496 179	535 197	1.450 1.690	0.285 0.153	0.021 0.292	0.077 0.548
Sought medical treatment for diarrhoea	0.420	0.004	179	197	1.090	0.138	0.249	0.340
Ever had vaccination card	0.644	0.048	230	256	1.556	0.075	0.548	0.741
Received BCG vaccination Received birth dose HepB vaccination	0.620 0.417	0.061 0.052	230 230	256 256	1.937 1.639	0.099 0.125	0.497 0.313	0.742 0.522
Received DPT-HepB-Hib vaccination (3 doses)	0.388	0.070	230	256	2.225	0.180	0.248	0.528
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.389 0.485	0.052 0.042	230 230	256 256	1.643 1.286	0.133 0.086	0.286 0.402	0.493 0.569
Received polito vaccination (3 doses)	0.465	0.042	230	256	2.115	0.000	0.402	0.500
Received measles 1 vaccination	0.405	0.072	230	256	2.262	0.177	0.262	0.548
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.233 0.139	0.053 0.033	230 230	256 256	1.930 1.463	0.227 0.235	0.127 0.073	0.339 0.204
Received measles 2 vaccination	0.040	0.013	187	193	0.927	0.334	0.013	0.067
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.009 0.278	0.006 0.040	187 421	193 476	0.903 1.685	0.700 0.144	0.000 0.198	0.022 0.358
Weight-for-height (-2SD)	0.048	0.009	421	476	0.918	0.194	0.029	0.066
Weight-for-age (-2SD)	0.139	0.020	421	476	1.114	0.140	0.100	0.178
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.111 0.227	0.018 0.023	392 392	412 412	1.102 1.063	0.157 0.099	0.076 0.182	0.146 0.272
Prevalence of anaemia (children 6-59 months)	0.750	0.031	371	421	1.365	0.042	0.687	0.813
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.316 0.438	0.046 0.040	256 371	289 421	1.499 1.423	0.147 0.092	0.223 0.357	0.408 0.518
Prevalence of anaemia (women 15-49)	0.642	0.032	447	468	1.423	0.050	0.577	0.707
Had 2+ sexual partners in past 12 months	0.005 0.260	0.003 0.079	1,292 6	1,357 7	1.292 0.433	0.507 0.303	0.000 0.102	0.010 0.417
Condom use at last sex Abstinence among young people (never had sex)	0.260	0.034	210	208	1.222	0.043	0.727	0.864
Discriminatory attitudes towards people with HIV	0.595	0.026	797	816	1.510	0.044	0.543	0.648
Prevalence of sickle cell disease among children 6-59 months	0.010	0.005	371	421	0.946	0.468	0.001	0.020
Total fertility rate (last 3 years)	5.835	0.246	3,649	3,848	1.379	0.042	5.343	6.326
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	29.325 27.394	3.354 4.780	2,337 2,332	2,500 2,494	0.954 1.351	0.114 0.174	22.618 17.834	36.032 36.954
nfant mortality (last 0-9 years)	56.719	5.028	2,340	2,504	0.982	0.089	46.663	66.775
Child mortality (last 0-9 years) Jnder-5 mortality (last 0-9 years)	43.526 97.776	8.311 10.664	2,281 2,358	2,439 2,523	1.603 1.427	0.191 0.109	26.903 76.448	60.149 119.104
	0	MEN	_,000	_,0_0		0.100	. 5. 1 10	
Jrban residence	0.257	0.032	420	442	1.490	0.124	0.194	0.321
Literacy	0.604	0.039	420	442	1.609	0.064	0.527	0.681
No education Secondary or higher education	0.427 0.527	0.040 0.039	420 420	442 442	1.641 1.595	0.093 0.074	0.347 0.449	0.506 0.605
Never married (in union)	0.357	0.039	420	442	1.752	0.074	0.449	0.439
Currently married (in union)	0.643	0.041	420	442	1.752	0.064	0.561	0.725
Had first sexual intercourse before age 18 Knows any contraceptive method	0.050 0.954	0.016 0.019	341 266	360 284	1.385 1.485	0.329 0.020	0.017 0.916	0.082 0.993
Knows any modern contraceptive method	0.954	0.019	266	284	1.485	0.020	0.916	0.993
Nant no more children Nant to delay birth at least 2 years	0.037 0.656	0.016 0.037	266 266	284 284	1.339 1.252	0.420 0.056	0.006 0.583	0.068 0.730
deal number of children	10.194	0.317	418	439	1.338	0.031	9.560	10.827
Had 2+ sexual partners in past 12 months	0.143	0.020	420	442	1.154	0.138	0.104	0.183
	0.040	0 000				0.504	0 000	0 400
Condom use at last sex Abstinence among young people (never had sex)	0.049 0.933	0.029 0.028	58 127	63 131	0.997 1.261	0.581 0.030	0.000 0.877	0.106 0.990

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
value	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ournership of at least one ITN			POPULATION		2.002	0.060	0.202	0.517
Ownership of at least one ITN De facto population with access to an ITN	0.455 0.318	0.031 0.028	1,033 4,781	883 3,943	2.003 2.139	0.068 0.089	0.392 0.261	0.517 0.374
Household population that slept under an ITN last night	0.350	0.032	4,781	3,943	2.211	0.092	0.286	0.414
Lishon rocidonos	0.200	13MOW		075	2.026	0.007	0.004	0.246
Urban residence Literacy	0.290 0.529	0.028 0.044	1,082 1,082	875 875	2.026 2.891	0.097 0.083	0.234 0.441	0.346 0.617
No education Secondary or higher education	0.185 0.564	0.033 0.046	1,082 1,082	875 875	2.809 3.053	0.180 0.082	0.118 0.472	0.251 0.657
Never married (never in union)	0.304	0.046	1,082	875	1.684	0.082	0.472	0.337
Currently married (in union)	0.652	0.023	1,082	875	1.614	0.036	0.605	0.699
Married before age 18 Had sexual intercourse before age 18	0.337 0.478	0.028 0.034	864 864	695 695	1.750 1.971	0.084 0.070	0.280 0.411	0.393 0.545
Currently pregnant	0.124	0.012	1,082	875	1.161	0.094	0.100	0.147
Know any contraceptive method Know a modern method	0.982 0.977	0.006 0.007	718 718	570 570	1.292 1.322	0.007 0.008	0.969 0.962	0.995 0.992
Currently using any method	0.227	0.027	718	570	1.710	0.118	0.173	0.280
Currently using a modern method Currently using pill	0.214 0.014	0.026 0.005	718 718	570 570	1.676 1.230	0.120 0.383	0.162 0.003	0.265 0.025
Currently using male condoms	0.007	0.003	718	570	0.919	0.422	0.001	0.012
Currently using injectables	0.103 0.073	0.014 0.015	718 718	570 570	1.220 1.544	0.134 0.205	0.076 0.043	0.131 0.103
Currently using implants Currently using female sterilisation	0.001	0.015	718	570 570	0.962	1.008	0.000	0.004
Currently using withdrawal	0.002	0.002	718 718	570 570	0.943	0.742	0.000	0.006
Currently using rhythm Using public sector source	0.005 0.728	0.004 0.038	718 166	570 136	1.314 1.089	0.666 0.052	0.000 0.653	0.013 0.803
Want no more children	0.273	0.022	718	570	1.307	0.080	0.230	0.317
Want to delay next birth at least 2 years Ideal number of children	0.324 5.372	0.023 0.190	718 1,065	570 863	1.313 2.451	0.071 0.035	0.278 4.993	0.370 5.751
Mothers protected against tetanus for last birth	0.536	0.028	521	415	1.293	0.053	0.480	0.593
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.463 0.176	0.043 0.026	797 290	628 228	2.023 1.162	0.092 0.148	0.378 0.124	0.549 0.229
Treated with ORS	0.156	0.050	96	75	1.220	0.322	0.056	0.256
Sought medical treatment for diarrhoea Ever had vaccination card	0.543 0.846	0.036 0.040	96 134	75 104	0.688 1.265	0.066 0.047	0.471 0.767	0.614 0.926
Received BCG vaccination	0.840	0.040	134	104	1.591	0.047	0.767	0.926
Received birth dose HepB vaccination	0.612	0.057	134	104	1.340	0.093	0.498	0.726
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.718 0.581	0.047 0.067	134 134	104 104	1.186 1.550	0.065 0.115	0.625 0.447	0.811 0.715
Received polio vaccination (3 doses)	0.633	0.046	134	104	1.082	0.072	0.542	0.724
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.691 0.635	0.052 0.046	134 134	104 104	1.283 1.087	0.075 0.072	0.588 0.543	0.795 0.726
Received all basic vaccinations (12-23 months)	0.478	0.053	134	104	1.203	0.110	0.373	0.584
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.288 0.128	0.058 0.036	134 150	104 119	1.458 1.303	0.203 0.278	0.172 0.057	0.405 0.199
Received all age-appropriate vaccinations (24-35 months)	0.060	0.021	150	119	1.065	0.344	0.019	0.101
Height-for-age (-2SD) Weight-for-height (-2SD)	0.446 0.024	0.034 0.009	317 319	256 257	1.151 0.916	0.077 0.363	0.377 0.007	0.515 0.041
Weight-for-age (-2SD)	0.152	0.020	319	257	0.909	0.135	0.007	0.192
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.060 0.287	0.013	320 320	252 252	0.995 1.382	0.224 0.124	0.033	0.086
Prevalence of anaemia (children 6-59 months)	0.553	0.035 0.044	292	238	1.362	0.124	0.216 0.465	0.357 0.640
Prevalence of malaria (based on microscopy test)	0.214	0.045	206	165	1.312	0.208	0.125	0.303
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.372 0.437	0.060 0.028	291 381	237 301	1.737 1.075	0.161 0.063	0.253 0.382	0.491 0.492
Had 2+ sexual partners in past 12 months	0.018	0.004	1,082	875	1.055	0.238	0.009	0.026
Condom use at last sex Abstinence among young people (never had sex)	0.168 0.665	0.114 0.030	16 276	16 229	1.171 1.045	0.681 0.045	0.000 0.606	0.397 0.725
Discriminatory attitudes towards people with HIV	0.489	0.019	971	796	1.180	0.039	0.451	0.527
Prevalence of sickle cell disease among children 6-59 months	0.010	0.006	292	238	1.100	0.673	0.000	0.022
Total fertility rate (last 3 years)	4.706	0.433	3,015	2,438	1.960	0.092	3.841	5.571
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	35.829 29.462	6.376 5.421	1,538 1,541	1,212 1,214	1.168 1.157	0.178 0.184	23.077 18.620	48.582 40.303
Infant mortality (last 0-9 years)	65.291	7.277	1,540	1,213	1.037	0.111	50.737	79.845
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	43.856 106.284	6.470 8.842	1,536 1,549	1,207 1,220	0.998 1.024	0.148 0.083	30.917 88.600	56.796 123.968
		MEN						
Urban residence	0.323	0.029	297	246	1.060	0.089	0.265	0.380 0.933
Literacy No education	0.850 0.057	0.041 0.024	297 297	246 246	1.984 1.786	0.049 0.425	0.767 0.009	0.933
Secondary or higher education	0.775	0.031	297	246	1.271	0.040	0.713	0.837
Never married (in union) Currently married (in union)	0.490 0.507	0.030 0.030	297 297	246 246	1.031 1.023	0.061 0.059	0.430 0.448	0.550 0.567
Had first sexual intercourse before age 18	0.077	0.021	236	200	1.191	0.269	0.036	0.119
Knows any contraceptive method Knows any modern contraceptive method	0.990 0.977	0.010 0.013	152 152	125 125	1.240 1.106	0.010 0.014	0.969 0.951	1.010 1.004
Want no more children	0.187	0.037	152	125	1.154	0.196	0.114	0.260
Want to delay birth at least 2 years Ideal number of children	0.220 5.877	0.034 0.206	152 293	125 242	1.019 1.301	0.156 0.035	0.151 5.465	0.289 6.289
Had 2+ sexual partners in past 12 months	0.097	0.020	297	246	1.135	0.202	0.058	0.136
Condom use at last sex Abstinence among young people (never had sex)	0.168 0.922	0.078 0.032	32 93	24 75	1.148 1.125	0.461 0.034	0.013 0.859	0.323 0.985
Had paid sex in past 12 months	0.009	0.006	297	246	1.021	0.619	0.000	0.020
Discriminatory attitudes towards people with HIV	0.455	0.053	187	155	1.449	0.117	0.348	0.561

			Number	of cases			Confidence limits		
Martin.		Standard	Un-	NA (- 2 - 1 - 1 1	Design	Relative			
Variable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE	
	HOUSE	HOLDS AND F	POPULATION	N					
Ownership of at least one ITN	0.477	0.016	1,009	908	1.023	0.034	0.445	0.509	
De facto population with access to an ITN	0.452	0.018	4,727	4,101	1.063	0.039	0.416	0.487	
Household population that slept under an ITN last night	0.426	0.020	4,727	4,101	1.187	0.047	0.386	0.466	
		WOMEN							
Jrban residence	0.231	0.039	1,083	903	3.057	0.170	0.152	0.310	
Literacy No education	0.399 0.470	0.044 0.051	1,083 1,083	903 903	2.969 3.347	0.111 0.109	0.311 0.368	0.488 0.572	
Secondary or higher education	0.405	0.051	1,083	903	3.419	0.126	0.303	0.508	
Never married (never in union)	0.247	0.024	1,083	903	1.820	0.097	0.199	0.295	
Currently married (in union) Married before age 18	0.690 0.384	0.032 0.038	1,083 870	903 721	2.303 2.293	0.047 0.099	0.626 0.308	0.755 0.460	
Had sexual intercourse before age 18	0.585	0.029	870	721	1.724	0.049	0.527	0.643	
Currently pregnant	0.098	0.010	1,083	903	1.129	0.104 0.015	0.078	0.119	
Know any contraceptive method Know a modern method	0.945 0.940	0.014 0.016	771 771	624 624	1.713 1.816	0.015	0.917 0.909	0.973 0.971	
Currently using any method	0.251	0.022	771	624	1.436	0.090	0.206	0.296	
Currently using a modern method	0.182 0.008	0.021 0.004	771 771	624 624	1.481 1.217	0.113	0.141	0.223 0.016	
Currently using pill Currently using male condoms	0.008	0.004	771 771	624	1.136	0.475 0.995	0.000 0.000	0.016	
Currently using injectables	0.060	0.013	771	624	1.482	0.211	0.035	0.085	
Currently using implants	0.041	0.009	771 771	624 624	1.286	0.225	0.022	0.059	
Currently using female sterilisation Currently using withdrawal	0.001 0.001	0.001 0.001	771 771	624 624	0.845 1.038	1.006 1.002	0.000 0.000	0.003 0.004	
Currently using rhythm	0.061	0.011	771	624	1.259	0.179	0.039	0.082	
Using public sector source	0.672	0.073	130	117	1.742	0.108	0.527	0.817	
Want no more children Want to delay next birth at least 2 years	0.195 0.170	0.020 0.015	771 771	624 624	1.375 1.145	0.101 0.091	0.156 0.139	0.235 0.201	
deal number of children	7.929	0.186	857	711	1.891	0.023	7.558	8.301	
Mothers protected against tetanus for last birth	0.744	0.034	622	518	1.931	0.046	0.676	0.812	
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.408 0.044	0.046 0.011	962 396	786 326	2.375 1.064	0.113 0.252	0.315 0.022	0.500 0.066	
Freated with ORS	0.393	0.061	84	76	1.180	0.252	0.022	0.514	
Sought medical treatment for diarrhoea	0.547	0.062	84	76	1.192	0.114	0.422	0.671	
Ever had vaccination card Received BCG vaccination	0.813 0.788	0.042 0.046	177 177	151 151	1.438 1.510	0.051 0.058	0.730 0.696	0.897 0.879	
Received boo vaccination Received birth dose HepB vaccination	0.787	0.038	177	151	1.030	0.064	0.512	0.662	
Received DPT-HepB-Hib vaccination (3 doses)	0.659	0.061	177	151	1.741	0.093	0.537	0.782	
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.624 0.457	0.039 0.059	177 177	151 151	1.079 1.590	0.062 0.129	0.546 0.339	0.701 0.575	
Received polic vaccination (3 doses)	0.465	0.061	177	151	1.652	0.123	0.343	0.588	
Received measles 1 vaccination	0.652	0.046	177	151	1.300	0.071	0.560	0.744	
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.368 0.169	0.043 0.035	177 177	151 151	1.192 1.246	0.116 0.205	0.282 0.100	0.453 0.238	
Received measles 2 vaccination	0.154	0.033	176	141	1.138	0.203	0.100	0.230	
Received all age-appropriate vaccinations (24-35 months)	0.012	0.007	176	141	0.834	0.590	0.000	0.025	
Height-for-age (-2SD)	0.399	0.036	314	278	1.177 1.126	0.090	0.328	0.471	
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.038 0.188	0.012 0.023	312 314	276 278	0.974	0.320 0.121	0.014 0.142	0.062 0.233	
Body mass index (BMI) <18.5	0.188	0.046	296	247	2.041	0.247	0.095	0.281	
Body mass index (BMI) ≥25	0.204	0.023	296	247	0.977	0.112	0.158	0.250	
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.560 0.211	0.045 0.043	283 215	252 188	1.361 1.329	0.081 0.202	0.469 0.126	0.651 0.296	
Prevalence of malaria (based on rapid test)	0.389	0.052	281	244	1.558	0.133	0.285	0.492	
Prevalence of anaemia (women 15-49)	0.359	0.027	349	291	1.056	0.076	0.305	0.413	
Had 2+ sexual partners in past 12 months Condom use at last sex	0.031 0.672	0.005 0.099	1,083 31	903 28	1.036 1.146	0.175 0.147	0.020 0.475	0.042 0.870	
Abstinence among young people (never had sex)	0.567	0.026	217	190	0.773	0.046	0.515	0.619	
Discriminatory attitudes towards people with HIV	0.209	0.020	1,044	873	1.577	0.095	0.170	0.249	
Prevalence of sickle cell disease among children 6-59 months	0.008	0.006	283	252	1.155	0.751	0.000	0.020	
Total fertility rate (last 3 years)	6.087	0.373	3,044	2,539	1.675	0.061	5.342	6.832	
Neonatal mortality (last 0-9 years)	32.124	5.039	1,802	1,464	1.110	0.157	22.046	42.202	
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	35.731 67.855	5.228 8.639	1,802 1,807	1,467 1,471	1.099 1.390	0.146 0.127	25.275 50.577	46.187 85.133	
Child mortality (last 0-9 years)	38.666	5.473	1,757	1,429	1.017	0.127	27.720	49.612	
Jnder-5 mortality (last 0-9 years)	103.898	10.024	1,817	1,480	1.248	0.096	83.850	123.945	
<u> </u>		MEN							
Jrban residence	0.249	0.048	244	218	1.736	0.194	0.152	0.345	
Literacy No education	0.611 0.322	0.045 0.048	244 244	218 218	1.442 1.586	0.074 0.148	0.520 0.226	0.701 0.417	
Secondary or higher education	0.322	0.048	244 244	218	1.682	0.146	0.226	0.417	
Never married (in union)	0.383	0.048	244	218	1.549	0.127	0.286	0.479	
Currently married (in union)	0.602	0.046	244	218	1.474	0.077	0.510	0.695	
Had first sexual intercourse before age 18 Knows any contraceptive method	0.258 0.984	0.031 0.016	208 149	185 131	1.026 1.549	0.121 0.016	0.196 0.952	0.321 1.016	
Knows any modern contraceptive method	0.984	0.016	149	131	1.549	0.016	0.952	1.016	
Want no more children	0.341	0.053	149	131	1.357	0.156	0.235	0.447	
Want to delay birth at least 2 years Ideal number of children	0.180 6.697	0.027 0.196	149 244	131 218	0.863 1.005	0.151 0.029	0.126 6.305	0.235 7.088	
Had 2+ sexual partners in past 12 months	0.176	0.030	244	218	1.236	0.172	0.116	0.236	
Condom use at last sex	0.404	0.078	39 67	38	0.976	0.192	0.249	0.559	
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.509 0.041	0.064 0.021	67 244	61 218	1.039 1.647	0.126 0.511	0.381 0.000	0.637 0.083	
ida paid Jon III page 14 HIUHHID	0.421	0.021	225	201	1.047	0.085	0.350	0.493	

Table B.19 Sampling errors: Bauchi sample, Nigeria Di	IS 2018							
			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	١				
Ownership of at least one ITN	0.843	0.030	1,151	1,146	2.771	0.035	0.784	0.903
De facto population with access to an ITN Household population that slept under an ITN last night	0.555 0.487	0.029 0.024	7,091 7,091	7,189 7,189	2.763 2.240	0.052 0.049	0.496 0.439	0.613 0.534
		WOMEN	, , , , , , , , , , , , , , , , , , ,	,				
Urban residence	0.152	0.029	1,329	1,343	2.898	0.188	0.095	0.210
Literacy	0.264	0.034	1,329	1,343	2.840	0.131	0.195	0.333
No education Secondary or higher education	0.634 0.184	0.042 0.028	1,329 1,329	1,343 1,343	3.201 2.640	0.067 0.153	0.549 0.128	0.719 0.240
Never married (never in union)	0.120	0.017	1,329	1,343	1.923	0.143	0.085	0.154
Currently married (in union) Married before age 18	0.844 0.816	0.022 0.020	1,329 1,026	1,343 1,036	2.227 1.663	0.026 0.025	0.800 0.776	0.889 0.856
Had sexual intercourse before age 18	0.831	0.020	1,026	1,036	1.698	0.024	0.792	0.871
Currently pregnant	0.159 0.948	0.012 0.011	1,329 1,124	1,343 1,134	1.211 1.658	0.077 0.012	0.134 0.925	0.183 0.970
Know any contraceptive method Know a modern method	0.946	0.011	1,124	1,134	1.684	0.012	0.925	0.970
Currently using any method	0.065	0.011	1,124	1,134	1.430	0.162	0.044	0.086
Currently using a modern method Currently using pill	0.052 0.016	0.009 0.005	1,124 1,124	1,134 1,134	1.401 1.368	0.179 0.316	0.033 0.006	0.070 0.027
Currently using male condoms	0.001	0.001	1,124	1,134	0.921	1.003	0.000	0.002
Currently using injectables Currently using implants	0.019 0.010	0.005 0.003	1,124 1,124	1,134 1,134	1.145 1.104	0.246 0.331	0.010 0.003	0.028 0.016
Currently using female sterilisation	0.002	0.002	1,124	1,134	1.142	0.704	0.000	0.006
Currently using withdrawal Currently using rhythm	0.003 0.001	0.002 0.001	1,124 1,124	1,134 1,134	1.024 1.116	0.593 0.987	0.000 0.000	0.006 0.003
Using public sector source	0.877	0.045	57	56	1.036	0.052	0.786	0.968
Want no more children	0.193	0.013	1,124	1,134	1.071	0.065	0.168	0.218
Want to delay next birth at least 2 years Ideal number of children	0.376 8.622	0.017 0.167	1,124 1,279	1,134 1,296	1.181 1.879	0.045 0.019	0.342 8.289	0.410 8.955
Mothers protected against tetanus for last birth	0.476	0.037	901	919	2.203	0.077	0.402	0.549
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.270 0.146	0.028 0.017	1,442 579	1,469 590	2.003 1.187	0.104 0.119	0.214 0.111	0.326 0.180
Treated with ORS	0.358	0.037	443	449	1.563	0.103	0.284	0.432
Sought medical treatment for diarrhoea Ever had vaccination card	0.681 0.550	0.033 0.047	443 266	449 278	1.403 1.563	0.048 0.086	0.615 0.456	0.747 0.644
Received BCG vaccination	0.512	0.046	266	278	1.514	0.089	0.420	0.603
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.347 0.321	0.043 0.046	266 266	278 278	1.487 1.640	0.123 0.144	0.262 0.228	0.433 0.414
Received birth dose polio 0 vaccination	0.381	0.047	266	278	1.617	0.125	0.286	0.476
Received polio vaccination (3 doses)	0.472 0.297	0.039	266	278 278	1.289	0.082 0.158	0.394 0.203	0.550
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.297	0.047 0.039	266 266	278 278	1.697 1.333	0.108	0.203	0.390 0.433
Received all basic vaccinations (12-23 months)	0.196	0.034	266	278	1.437	0.176	0.127	0.265
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.136 0.070	0.028 0.018	266 248	278 250	1.369 1.139	0.209 0.266	0.079 0.033	0.193 0.107
Received all age-appropriate vaccinations (24-35 months)	0.022	0.009	248	250	0.905	0.381	0.005	0.040
Height-for-age (-2SD) Weight-for-height (-2SD)	0.547 0.082	0.031 0.011	440 442	445 447	1.227 0.832	0.056 0.135	0.486 0.060	0.609 0.105
Weight-for-age (-2SD)	0.319	0.024	443	448	1.029	0.076	0.270	0.367
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.239 0.142	0.030 0.021	352 352	350 350	1.320 1.138	0.127 0.150	0.178 0.099	0.299 0.185
Prevalence of anaemia (children 6-59 months)	0.757	0.025	393	400	1.130	0.032	0.708	0.806
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.306 0.486	0.044 0.040	244 392	241 399	1.322 1.413	0.145 0.081	0.217 0.407	0.394 0.565
Prevalence of malaria (based of rapid test) Prevalence of anaemia (women 15-49)	0.486	0.040	441	443	1.104	0.036	0.637	0.303
Had 2+ sexual partners in past 12 months Condom use at last sex	0.000 0.000	0.000 0.000	1,329 0	1,343 0	0.000 0.000	0.000 0.000	0.000	0.000 0.000
Abstinence among young people (never had sex)	1.000	0.000	154	156	0.000	0.000	0.000 1.000	1.000
Discriminatory attitudes towards people with HIV	0.689	0.031	1,248	1,267	2.391	0.046	0.626	0.752
Prevalence of sickle cell disease among children 6-59 months	0.008	0.005	393	400	1.063	0.580	0.000	0.018
Total fertility rate (last 3 years)	7.168	0.291	3,670	3,707	1.404	0.041	6.586	7.750
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	37.613 31.414	3.772 3.048	2,869 2,863	2,924 2,922	0.941 0.876	0.100 0.097	30.068 25.318	45.158 37.510
Infant mortality (last 0-9 years)	69.027	5.427	2,872	2,927	1.024	0.079	58.173	79.882
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	83.865 147.103	8.916 10.946	2,858 2,912	2,915 2,966	1.306 1.329	0.106 0.074	66.033 125.212	101.698 168.995
		MEN	_,-,-	_,-,				
Urban residence	0.145	0.027	419	420	1.538	0.183	0.092	0.198
Literacy	0.475	0.054	419	420	2.202	0.114	0.367	0.583
No education Secondary or higher education	0.438 0.428	0.057 0.057	419 419	420 420	2.342 2.333	0.131 0.133	0.324 0.314	0.552 0.541
Never married (in union)	0.411	0.035	419	420	1.444	0.085	0.342	0.481
Currently married (in union) Had first sexual intercourse before age 18	0.566 0.078	0.034 0.017	419 322	420 321	1.414 1.143	0.061 0.219	0.497 0.044	0.634 0.113
Knows any contraceptive method	0.929	0.025	236	238	1.489	0.027	0.879	0.979
Knows any modern contraceptive method Want no more children	0.929 0.038	0.025 0.022	236 236	238 238	1.489 1.746	0.027 0.576	0.879 0.000	0.979 0.082
Want to delay birth at least 2 years	0.285	0.034	236	238	1.166	0.121	0.216	0.353
Ideal number of children Had 2+ sexual partners in past 12 months	11.692 0.131	0.470 0.020	401 419	399 420	1.221 1.201	0.040 0.151	10.752 0.091	12.632 0.171
Condom use at last sex	0.179	0.079	57	55	1.532	0.445	0.020	0.337
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.919 0.011	0.025 0.005	143 419	144 420	1.106 0.984	0.028 0.448	0.869 0.001	0.970 0.022
Discriminatory attitudes towards people with HIV	0.734	0.043	381	386	1.905	0.059	0.647	0.821

		-	Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.683 0.422	0.023 0.023	1,118 5,882	1,271 6,782	1.636 1.705	0.033 0.054	0.637 0.377	0.728 0.467
Household population that slept under an ITN last night	0.419	0.026	5,882	6,782	1.752	0.061	0.367	0.470
		WOMEN	١					
Jrban residence	0.577	0.046	1,269	1,469	3.302	0.080	0.485	0.669
Literacy No education	0.406 0.585	0.043 0.042	1,269 1,269	1,469 1,469	3.101 3.012	0.106 0.071	0.320 0.502	0.491 0.669
Secondary or higher education	0.334	0.038	1,269	1,469	2.869	0.114	0.258	0.410
Never married (never in union)	0.271	0.020	1,269	1,469	1.640	0.076	0.230	0.312
Currently married (in union) Married before age 18	0.649 0.548	0.033 0.025	1,269 983	1,469 1,112	2.480 1.552	0.051 0.045	0.582 0.499	0.716 0.598
Had sexual intercourse before age 18	0.550	0.023	983	1,112	1.442	0.042	0.504	0.596
Currently pregnant Know any contraceptive method	0.120 0.863	0.011 0.021	1,269 903	1,469 953	1.166 1.846	0.089 0.025	0.098 0.821	0.141 0.905
Know a modern method	0.850	0.023	903	953	1.943	0.027	0.804	0.897
Currently using any method Currently using a modern method	0.062 0.054	0.014 0.012	903 903	953 953	1.702 1.623	0.221 0.227	0.035 0.029	0.089 0.078
Currently using a modern method	0.012	0.007	903	953	1.913	0.580	0.000	0.026
Currently using male condoms	0.006	0.006	903	953	2.271	0.985	0.000	0.017
Currently using injectables Currently using implants	0.015 0.006	0.005 0.004	903 903	953 953	1.330 1.601	0.360 0.664	0.004 0.000	0.026 0.015
Currently using female sterilisation	0.012	0.004	903	953	1.153	0.354	0.003	0.020
Currently using withdrawal Currently using rhythm	0.008 0.000	0.004 0.000	903 903	953 953	1.302 0.000	0.484 0.000	0.000 0.000	0.016 0.000
Using public sector source	0.559	0.081	46	67	1.087	0.144	0.398	0.720
Want no more children Want to delay next birth at least 2 years	0.086 0.578	0.012 0.024	903 903	953 953	1.288 1.432	0.140 0.041	0.062 0.531	0.110 0.626
Ideal number of children	7.588	0.024	1,263	1,463	2.175	0.041	7.176	7.999
Mothers protected against tetanus for last birth	0.420	0.041	670	732	2.132	0.097	0.338	0.502
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.295 0.091	0.037 0.025	1,099 381	1,219 418	2.123 1.669	0.125 0.271	0.221 0.042	0.370 0.140
Treated with ORS	0.773	0.043	77	101	0.972	0.056	0.686	0.859
Sought medical treatment for diarrhoea Ever had vaccination card	0.804 0.573	0.047 0.051	77 203	101 221	1.073 1.451	0.058 0.089	0.710 0.471	0.897 0.675
Received BCG vaccination	0.625	0.031	203	221	1.383	0.089	0.530	0.075
Received birth dose HepB vaccination	0.491	0.046	203	221	1.291	0.094	0.399	0.583
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.360 0.462	0.044 0.048	203 203	221 221	1.277 1.346	0.121 0.104	0.273 0.366	0.447 0.558
Received polio vaccination (3 doses)	0.411	0.041	203	221	1.164	0.100	0.329	0.493
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.346 0.460	0.045 0.044	203 203	221 221	1.343 1.249	0.131 0.096	0.255 0.372	0.436 0.549
Received all basic vaccinations (12-23 months)	0.219	0.048	203	221	1.640	0.220	0.123	0.315
Received all age-appropriate vaccinations (12-23 months)	0.144	0.036	203	221	1.430	0.246	0.073	0.216
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.244 0.066	0.046 0.021	211 211	236 236	1.569 1.241	0.189 0.320	0.152 0.024	0.337 0.107
Height-for-age (-2SD)	0.448	0.033	345	399	1.205	0.073	0.383	0.513
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.158 0.281	0.023 0.031	348 352	403 406	1.151 1.226	0.144 0.109	0.113 0.220	0.204 0.342
Body mass index (BMI) <18.5	0.231	0.031	381	445	1.422	0.132	0.170	0.293
Body mass index (BMI) ≥25	0.128	0.020	381	445	1.168	0.155	0.088	0.168
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.712 0.100	0.031 0.023	332 238	385 287	1.252 1.074	0.044 0.229	0.650 0.054	0.775 0.146
Prevalence of malaria (based on rapid test)	0.162	0.029	330	382	1.156	0.177	0.104	0.219
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.539 0.011	0.030 0.004	444 1,269	516 1,469	1.291 1.276	0.057 0.341	0.478 0.003	0.600 0.018
Condom use at last sex	0.422	0.193	17	16	1.504	0.459	0.035	0.808
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.930 0.236	0.014 0.022	272 1,132	372 1,335	0.906 1.728	0.015 0.093	0.901 0.192	0.958 0.279
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.010	0.008	332 3.452	385	1.361 2.070	0.727	0.000 4.372	0.025 6.066
Neonatal mortality (last 0-9 years)	5.219 26.864	0.424 3.585	3,452 2,162	3,999 2,410	0.922	0.081 0.133	4.372 19.695	34.034
Postneonatal mortality (last 0-9 years)	25.493	6.620	2,170	2,429	1.808	0.260	12.253	38.732
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	52.357 35.971	6.456 5.478	2,163 2,184	2,411 2,435	1.221 1.057	0.123 0.152	39.446 25.016	65.268 46.926
Under-5 mortality (last 0-9 years)	86.444	7.778	2,174	2,422	1.109	0.090	70.889	102.000
		MEN						
Urban residence Literacy	0.592 0.615	0.048 0.055	339 339	398 398	1.788 2.086	0.081 0.090	0.496 0.504	0.688 0.726
No education	0.613	0.055	339	398	2.029	0.132	0.303	0.720
Secondary or higher education	0.501	0.051	339	398	1.855	0.101	0.400	0.602
Never married (in union) Currently married (in union)	0.416 0.576	0.039 0.038	339 339	398 398	1.462 1.411	0.094 0.066	0.338 0.500	0.495 0.652
Had first sexual intercourse before age 18	0.085	0.018	264	305	1.040	0.210	0.049	0.121
Knows any contraceptive method Knows any modern contraceptive method	0.968 0.957	0.013 0.016	203 203	229 229	1.092 1.108	0.014 0.017	0.942 0.925	0.995 0.989
Want no more children	0.122	0.040	203	229	1.726	0.327	0.042	0.202
Want to delay birth at least 2 years	0.459	0.052	203	229	1.469	0.113	0.355	0.562
ldeal number of children Had 2+ sexual partners in past 12 months	8.803 0.159	0.260 0.024	330 339	388 398	1.014 1.231	0.029 0.154	8.284 0.110	9.323 0.208
Condom use at last sex	0.193	0.054	53	63	0.982	0.278	0.086	0.301
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.830 0.046	0.049 0.015	108 339	131 398	1.352 1.323	0.059 0.327	0.732 0.016	0.929 0.077
Discriminatory attitudes towards people with HIV	0.046	0.013	309	368	0.991	0.327	0.016	0.393

Table B.21 Sampling errors: Gombe sample, Nigeria DI	HS 2018							
			Number of	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	١				
Ownership of at least one ITN	0.742 0.483	0.030 0.030	1,041	550 3 610	2.204 2.353	0.040 0.062	0.682 0.423	0.802 0.542
De facto population with access to an ITN Household population that slept under an ITN last night	0.409	0.030	6,631 6,631	3,610 3,610	2.333	0.062	0.423	0.542
		WOMEN	٧					
Urban residence	0.232	0.042	1,356	717	3.677	0.182	0.148	0.317
Literacy No education	0.321 0.648	0.058 0.060	1,356 1,356	717 717	4.541 4.616	0.181 0.093	0.205 0.527	0.437 0.769
Secondary or higher education	0.046	0.051	1,356	717	4.250	0.093	0.327	0.769
Never married (never in union)	0.191 0.772	0.023 0.027	1,356 1,356	717 717	2.195 2.332	0.123 0.035	0.144 0.719	0.238 0.825
Currently married (in union) Married before age 18	0.715	0.027	1,081	576	3.326	0.064	0.623	0.823
Had sexual intercourse before age 18 Currently pregnant	0.750 0.112	0.037 0.012	1,081 1,356	576 717	2.784 1.378	0.049 0.105	0.676 0.088	0.823 0.136
Know any contraceptive method	0.112	0.012	1,018	554	2.143	0.020	0.880	0.150
Know a modern method Currently using any method	0.914 0.170	0.018 0.016	1,018 1,018	554 554	2.071 1.392	0.020 0.096	0.877 0.138	0.950 0.203
Currently using a modern method	0.162	0.017	1,018	554	1.446	0.103	0.129	0.196
Currently using pill Currently using male condoms	0.010 0.002	0.003 0.002	1,018 1,018	554 554	0.870 1.317	0.266 1.012	0.005 0.000	0.016 0.005
Currently using injectables	0.030	0.002	1,018	554	1.629	0.292	0.012	0.047
Currently using implants Currently using female sterilisation	0.033 0.002	0.008 0.002	1,018 1,018	554 554	1.429 1.241	0.241 0.783	0.017 0.000	0.050 0.006
Currently using withdrawal	0.004	0.003	1,018	554	1.314	0.667	0.000	0.009
Currently using rhythm Using public sector source	0.000 0.896	0.000 0.034	1,018 105	554 49	0.000 1.137	0.000 0.038	0.000 0.828	0.000 0.964
Want no more children	0.180	0.034	1,018	554	1.401	0.094	0.026	0.904
Want to delay next birth at least 2 years Ideal number of children	0.326 8.485	0.016 0.229	1,018 1,240	554 653	1.107 2.152	0.050 0.027	0.293 8.027	0.358 8.944
Mothers protected against tetanus for last birth	0.614	0.046	824	444	2.714	0.075	0.521	0.706
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.211 0.148	0.032 0.017	1,344 516	728 277	2.390 1.110	0.149 0.118	0.148 0.113	0.274 0.183
Treated with ORS	0.249	0.028	395	220	1.259	0.113	0.193	0.305
Sought medical treatment for diarrhoea Ever had vaccination card	0.785 0.524	0.020 0.062	395 238	220 128	0.968 1.898	0.025 0.119	0.746 0.400	0.825 0.649
Received BCG vaccination	0.425	0.063	238	128	1.925	0.148	0.299	0.551
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.223 0.258	0.042 0.048	238 238	128 128	1.507 1.658	0.190 0.186	0.138 0.162	0.307 0.353
Received birth dose polio 0 vaccination	0.332	0.050	238	128	1.593	0.150	0.233	0.432
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.392 0.238	0.057 0.049	238 238	128 128	1.765 1.728	0.145 0.204	0.278 0.141	0.505 0.336
Received measles 1 vaccination	0.288	0.054	238	128	1.794	0.188	0.180	0.397
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.182 0.085	0.038 0.025	238 238	128 128	1.502 1.303	0.211 0.290	0.105 0.036	0.259 0.134
Received measles 2 vaccination	0.105	0.023	212	119	1.112	0.219	0.059	0.151
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.014 0.510	0.009 0.036	212 399	119 220	1.182 1.334	0.670 0.071	0.000 0.437	0.033 0.583
Weight-for-height (-2SD)	0.077	0.017	406	225	1.195	0.226	0.042	0.111
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.302 0.214	0.028 0.028	411 396	227 208	1.154 1.362	0.092 0.131	0.246 0.158	0.357 0.271
Body mass index (BMI) ≥25	0.169	0.025	396	208	1.343	0.150	0.118	0.219
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.773 0.303	0.029 0.044	373 261	205 143	1.244 1.260	0.037 0.146	0.716 0.215	0.831 0.391
Prevalence of malaria (based on rapid test)	0.520	0.045	372	205	1.413	0.087	0.429	0.610
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.636 0.005	0.039 0.002	454 1,356	240 717	1.721 1.124	0.061 0.454	0.558 0.000	0.714 0.009
Condom use at last sex	0.332	0.167	7	3	0.884	0.503	0.000	0.666
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.943 0.283	0.025 0.024	246 1,231	119 647	1.681 1.879	0.027 0.085	0.893 0.234	0.993 0.331
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.007 6.635	0.005 0.285	373 3,712	205 1,963	0.964 1.469	0.783 0.043	0.000 6.065	0.017 7.206
Neonatal mortality (last 0-9 years)	44.505	5.824	2,596	1,412	1.223	0.131	32.856	56.154
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	59.049 103.554	8.414 10.603	2,609 2,604	1,419 1,416	1.657 1.613	0.142 0.102	42.221 82.349	75.877 124.759
Child mortality (last 0-9 years)	94.906	9.620	2,597	1,415	1.384	0.101	75.665	114.146
Under-5 mortality (last 0-9 years)	188.632	14.610	2,639	1,436	1.644	0.077	159.412	217.851
Urban residence	0.255	0.048	462	240	2.369	0.190	0.158	0.351
Literacy	0.545	0.057	462	240	2.454	0.105	0.430	0.659
No education Secondary or higher education	0.541 0.387	0.070 0.064	462 462	240 240	3.010 2.819	0.130 0.167	0.400 0.258	0.682 0.515
Never married (in union)	0.534	0.031	462	240	1.354	0.059	0.471	0.597
Currently married (in union) Had first sexual intercourse before age 18	0.463 0.045	0.031 0.016	462 337	240 173	1.330 1.429	0.067 0.360	0.401 0.013	0.524 0.077
Knows any contraceptive method	0.998	0.002	210	111	0.620	0.002	0.995	1.002
Knows any modern contraceptive method Want no more children	0.998 0.040	0.002 0.015	210 210	111 111	0.620 1.132	0.002 0.386	0.995 0.009	1.002 0.070
Want to delay birth at least 2 years	0.188	0.029	210	111	1.084	0.156	0.129	0.246
Ideal number of children Had 2+ sexual partners in past 12 months	12.559 0.087	0.713 0.015	385 462	196 240	1.792 1.132	0.057 0.171	11.132 0.057	13.985 0.116
Condom use at last sex	0.021	0.022	38	21	0.932	1.041	0.000	0.065
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.958 0.014	0.021 0.006	204 462	107 240	1.519 1.071	0.022 0.420	0.915 0.002	1.001 0.026
Discriminatory attitudes towards people with HIV	0.439	0.041	454	236	1.754	0.093	0.357	0.521

		0' '	Number	of cases	ъ.	D. 1 "	Confidence limits	
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.401 0.247	0.033 0.028	1,034 5,635	720 3,898	2.175 2.342	0.083 0.111	0.335 0.192	0.468 0.302
Household population that slept under an ITN last night	0.202	0.029	5,635	3,898	2.567	0.143	0.144	0.260
		WOMEN	١					
Jrban residence	0.202	0.023	1,284	877	2.056	0.114	0.156	0.248
Literacy No education	0.351 0.367	0.039 0.047	1,284 1,284	877 877	2.883 3.501	0.110 0.129	0.274 0.272	0.428 0.462
Secondary or higher education	0.416	0.053	1,284	877	3.799	0.126	0.311	0.522
Never married (never in union) Currently married (in union)	0.278 0.661	0.034 0.036	1,284 1,284	877 877	2.697 2.709	0.122 0.054	0.211 0.590	0.346 0.733
Married before age 18	0.505	0.041	1,004	688	2.583	0.081	0.423	0.587
Had sexual intercourse before age 18 Currently pregnant	0.760 0.107	0.023 0.014	1,004 1,284	688 877	1.724 1.588	0.031 0.128	0.714 0.079	0.807 0.134
Know any contraceptive method	0.107	0.014	837	580	1.667	0.120	0.079	0.134
Know a modern method	0.938	0.022	837	580	2.617	0.023	0.894	0.982
Currently using any method Currently using a modern method	0.103 0.086	0.020 0.019	837 837	580 580	1.907 1.931	0.195 0.219	0.063 0.048	0.143 0.123
Currently using pill	0.008	0.004	837	580	1.210	0.456	0.001	0.016
Currently using male condoms Currently using injectables	0.005 0.026	0.002 0.009	837 837	580 580	0.961 1.585	0.461 0.337	0.000 0.008	0.010 0.043
Currently using implants	0.032	0.007	837	580	1.218	0.231	0.017	0.047
Currently using female sterilisation Currently using withdrawal	0.011 0.006	0.004 0.005	837 837	580 580	1.263 1.906	0.421 0.841	0.002 0.000	0.020 0.016
Currently using rhythm	0.009	0.004	837	580	1.102	0.395	0.002	0.017
Using public sector source Want no more children	0.611 0.136	0.061 0.019	85 837	59 580	1.147 1.598	0.100 0.139	0.488 0.099	0.733 0.174
Want to delay next birth at least 2 years	0.150	0.019	837	580	1.096	0.139	0.099	0.174
Ideal number of children	6.854	0.223	1,280	873	2.809	0.033	6.408	7.300
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.496 0.373	0.035 0.035	722 1,112	495 758	1.904 2.004	0.072 0.093	0.425 0.304	0.567 0.443
Received 3+ doses of SP/Fansidar	0.074	0.013	441	299	1.040	0.177	0.048	0.100
Freated with ORS Sought medical treatment for diarrhoea	0.093 0.369	0.019 0.035	233 233	158 158	0.916 1.069	0.201 0.096	0.056 0.298	0.131 0.440
Ever had vaccination card	0.691	0.051	203	134	1.518	0.074	0.589	0.793
Received BCG vaccination Received birth dose HepB vaccination	0.699 0.358	0.049 0.054	203 203	134 134	1.455 1.528	0.070 0.150	0.602 0.251	0.797 0.466
Received DPT-HepB-Hib vaccination (3 doses)	0.417	0.057	203	134	1.591	0.138	0.303	0.532
Received birth dose polio 0 vaccination	0.397 0.397	0.056 0.050	203 203	134 134	1.561 1.395	0.141 0.126	0.285 0.297	0.509 0.497
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.397	0.056	203	134	1.550	0.126	0.297	0.497
Received measles 1 vaccination	0.408	0.040	203	134	1.110	0.097	0.329	0.488
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.241 0.128	0.036 0.028	203 203	134 134	1.154 1.112	0.151 0.220	0.168 0.072	0.314 0.185
Received measles 2 vaccination	0.173	0.040	169	116	1.378	0.232	0.093	0.254
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.058 0.417	0.020 0.038	169 347	116 242	1.096 1.339	0.340 0.090	0.019 0.341	0.098 0.492
Weight-for-height (-2SD)	0.053	0.013	349	244	0.967	0.247	0.027	0.079
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.219 0.092	0.028 0.021	350 374	244 254	1.193 1.429	0.127 0.233	0.163 0.049	0.274 0.135
Body mass index (BMI) ≥25	0.237	0.022	374	254	0.999	0.093	0.193	0.281
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.709 0.208	0.036 0.030	316 230	219 159	1.362 1.029	0.050 0.143	0.638 0.149	0.780 0.268
Prevalence of malaria (based on microscopy test)	0.352	0.035	311	216	1.201	0.101	0.281	0.423
Prevalence of anaemia (women 15-49)	0.540	0.034	431	294	1.431	0.064	0.471	0.608
Had 2+ sexual partners in past 12 months Condom use at last sex	0.041 0.187	0.009 0.060	1,284 57	877 36	1.652 1.155	0.223 0.323	0.023 0.066	0.059 0.307
Abstinence among young people (never had sex)	0.557	0.054	298	201	1.851	0.096	0.450	0.664
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.482	0.033	1,229	842	2.283	0.068	0.417	0.548
months	0.022	0.009	316	219	1.027	0.426	0.003	0.041
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	5.443 36.784	0.284 4.707	3,606 2,076	2,462 1,423	1.755 1.007	0.052 0.128	4.874 27.370	6.012 46.199
Postneonatal mortality (last 0-9 years)	26.583	3.393	2,074	1,422	0.865	0.128	19.798	33.368
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	63.367 70.096	6.532 11.020	2,076 2,052	1,423 1,405	1.080 1.576	0.103 0.157	50.302 48.055	76.432 92.137
Under-5 mortality (last 0-9 years)	129.021	13.824	2,101	1,440	1.548	0.107	101.373	156.670
		MEN				• • • •	0.1=:	
Jrban residence Literacy	0.211 0.699	0.031 0.047	268 268	187 187	1.225 1.661	0.145 0.067	0.150 0.606	0.273 0.793
No education	0.162	0.030	268	187	1.311	0.183	0.103	0.221
Secondary or higher education Never married (in union)	0.666 0.378	0.045 0.036	268 268	187 187	1.552 1.224	0.067 0.096	0.576 0.305	0.755 0.451
Currently married (in union)	0.612	0.037	268	187	1.241	0.061	0.538	0.686
Had first sexual intercourse before age 18	0.122	0.031	219 163	153 115	1.412	0.257	0.059	0.185
Knows any contraceptive method Knows any modern contraceptive method	0.982 0.968	0.012 0.015	163 163	115 115	1.167 1.078	0.012 0.015	0.958 0.939	1.006 0.998
Want no more children	0.118	0.029	163	115	1.128	0.243	0.060	0.175
Want to delay birth at least 2 years Ideal number of children	0.205 8.267	0.041 0.543	163 255	115 178	1.297 1.254	0.201 0.066	0.123 7.181	0.288 9.352
Had 2+ sexual partners in past 12 months	0.177	0.026	268	187	1.099	0.145	0.125	0.228
Condom use at last sex Abstinence among young people (never had sex)	0.115 0.850	0.059 0.038	45 76	33 53	1.209 0.917	0.507 0.044	0.000 0.775	0.233 0.926
Had paid sex in past 12 months	0.022	0.013	268	187	1.416	0.583	0.000	0.047
Discriminatory attitudes towards people with HIV	0.248	0.036	253	177	1.333	0.146	0.176	0.321

	<u></u>		Number	of cases			Confidence limits		
Variable	\/alua	Standard	Un-	\Maiabtad	Design	Relative	Lower	Llanar	
Variable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE)	
	HOUSE	HOLDS AND	POPULATION	١					
Ownership of at least one ITN	0.792	0.034	1,021	1,100	2.651	0.043	0.724	0.859	
De facto population with access to an ITN Household population that slept under an ITN last night	0.532 0.537	0.032 0.037	6,674 6,674	6,856 6,856	2.391 2.603	0.060 0.068	0.469 0.464	0.596 0.610	
		WOME	N						
Urban residence	0.225	0.040	1,318	1,327	3.444	0.177	0.145	0.304	
Literacy No education	0.195 0.755	0.030 0.042	1,318 1,318	1,327 1,327	2.775 3.491	0.156 0.055	0.135 0.672	0.256 0.838	
Secondary or higher education	0.753	0.042	1,318	1,327	3.060	0.033	0.100	0.036	
Never married (never in union) Currently married (in union)	0.207 0.751	0.026 0.031	1,318 1,318	1,327 1,327	2.345 2.562	0.127 0.041	0.154 0.690	0.259 0.812	
Married before age 18	0.731	0.023	1,014	1,007	1.603	0.041	0.677	0.768	
Had sexual intercourse before age 18	0.785 0.112	0.022 0.009	1,014 1,318	1,007 1,327	1.685 0.991	0.028 0.077	0.742 0.095	0.829 0.129	
Currently pregnant Know any contraceptive method	0.112	0.009	1,015	996	3.529	0.040	0.095	0.129	
Know a modern method	0.871 0.019	0.039 0.006	1,015 1,015	996 996	3.697 1.394	0.045 0.312	0.793 0.007	0.949 0.031	
Currently using any method Currently using a modern method	0.019	0.006	1,015	996	1.433	0.312	0.007	0.028	
Currently using pill Currently using male condoms	0.004	0.002	1,015	996	1.120	0.527	0.000	0.009 0.000	
Currently using male condoms Currently using injectables	0.000 0.008	0.000 0.004	1,015 1,015	996 996	0.000 1.433	0.000 0.499	0.000 0.000	0.000	
Currently using implants	0.004	0.002	1,015	996	1.086	0.567	0.000	0.008	
Currently using female sterilisation Currently using withdrawal	0.001 0.001	0.001 0.001	1,015 1,015	996 996	0.754 0.917	1.017 0.751	0.000 0.000	0.002 0.004	
Currently using rhythm	0.000	0.000	1,015	996	0.000	0.000	0.000	0.000	
Using public sector source Want no more children	0.705 0.173	0.138 0.015	18 1,015	17 996	1.229 1.281	0.196 0.088	0.428 0.143	0.981 0.204	
Want to delay next birth at least 2 years	0.530	0.022	1,015	996	1.395	0.041	0.486	0.574	
Ideal number of children Mothers protected against tetanus for last birth	7.943 0.581	0.142 0.042	1,316 767	1,323 755	1.648 2.345	0.018 0.073	7.660 0.496	8.227 0.665	
Births with skilled attendant at delivery	0.163	0.040	1,252	1,253	3.146	0.245	0.083	0.243	
Received 3+ doses of SP/Fansidar Treated with ORS	0.290 0.450	0.030 0.070	438 348	441 373	1.365 2.377	0.102 0.155	0.231 0.311	0.349 0.589	
Sought medical treatment for diarrhoea	0.764	0.032	348	373	1.438	0.042	0.700	0.829	
Ever had vaccination card Received BCG vaccination	0.432 0.447	0.061 0.072	216 216	221 221	1.777 2.064	0.142 0.160	0.309 0.304	0.554 0.590	
Received birth dose HepB vaccination	0.237	0.052	216	221	1.707	0.218	0.133	0.340	
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.290 0.269	0.047 0.044	216 216	221 221	1.482 1.387	0.164 0.162	0.195 0.182	0.385 0.356	
Received polio vaccination (3 doses)	0.434	0.034	216	221	0.982	0.078	0.366	0.501	
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.259 0.455	0.041 0.033	216 216	221 221	1.321 0.940	0.158 0.072	0.177 0.390	0.341 0.520	
Received all basic vaccinations (12-23 months)	0.206	0.039	216	221	1.335	0.188	0.128	0.283	
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.138 0.184	0.034 0.031	216 228	221 210	1.328 1.119	0.246 0.171	0.070 0.121	0.206 0.247	
Received all age-appropriate vaccinations (24-35 months)	0.015	0.011	228	210	1.375	0.771	0.000	0.038	
Height-for-age (-2SD) Weight-for-height (-2SD)	0.573 0.124	0.039 0.018	368 373	374 381	1.463 0.950	0.068 0.142	0.494 0.089	0.651 0.159	
Weight-for-age (-2SD)	0.418	0.036	377	384	1.375	0.087	0.345	0.490	
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.368 0.081	0.034 0.029	370 370	374 374	1.348 2.029	0.092 0.356	0.301 0.023	0.436 0.138	
Prevalence of anaemia (children 6-59 months)	0.691	0.038	337	346	1.417	0.055	0.616	0.767	
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.133 0.303	0.030 0.035	248 337	247 346	1.115 1.082	0.223 0.115	0.074 0.234	0.192 0.373	
Prevalence of anaemia (women 15-49)	0.678	0.036	434	438	1.611	0.053	0.606	0.750	
Had 2+ sexual partners in past 12 months Condom use at last sex	0.000 0.000	0.000 0.000	1,318 0	1,327 0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	
Abstinence among young people (never had sex)	1.000	0.000	247	260	0.000	0.000	1.000	1.000	
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.497	0.032	1,269	1,255	2.262	0.064	0.433	0.560	
months	0.016	0.011	337	346	1.587	0.677	0.000	0.039	
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	5.928 43.904	0.234 9.145	3,663 2,542	3,671 2,560	1.138 1.975	0.039 0.208	5.461 25.614	6.395 62.193	
Postneonatal mortality (last 0-9 years)	46.518	6.674	2,528	2,546	1.454	0.143	33.171	59.866	
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	90.422 67.852	11.151 13.744	2,546 2,595	2,568 2,611	1.703 1.939	0.123 0.203	68.120 40.364	112.724 95.340	
Under-5 mortality (last 0-9 years)	152.139	20.724	2,568	2,588	2.293	0.136	110.691	193.586	
		MEN							
Urban residence Literacy	0.237 0.294	0.050 0.053	464 464	472 472	2.502 2.472	0.210 0.179	0.137 0.188	0.336 0.399	
No education	0.670	0.054	464	472	2.468	0.081	0.561	0.778	
Secondary or higher education Never married (in union)	0.262 0.554	0.049 0.025	464 464	472 472	2.403 1.070	0.188 0.045	0.164 0.505	0.361 0.604	
Currently married (in union)	0.428	0.024	464	472	1.061	0.057	0.379	0.477	
Had first sexual intercourse before age 18 Knows any contraceptive method	0.061 0.874	0.019 0.024	335 195	346 202	1.472 1.025	0.317 0.028	0.022 0.825	0.100 0.923	
Knows any modern contraceptive method	0.859	0.030	195	202	1.209	0.035	0.799	0.920	
Want no more children Want to delay birth at least 2 years	0.036 0.711	0.018 0.031	195 195	202 202	1.361 0.967	0.504 0.044	0.000 0.648	0.073 0.774	
Ideal number of children	12.358	0.484	442	452	1.875	0.039	11.390	13.325	
Had 2+ sexual partners in past 12 months Condom use at last sex	0.097 0.028	0.021 0.022	464 48	472 46	1.509 0.904	0.214 0.769	0.055 0.000	0.139 0.072	
Abstinence among young people (never had sex)	0.028	0.022	203	188	1.041	0.769	0.933	0.990	
	0.008	0.005	464	472	1.266	0.660	0.000	0.018	

	IS 2018		Number	of cases			Confidence limits			
		Standard	Un-	0. 00000	Design	Relative				
√ariable	Value	error	weighted	Weighted	effect	error	Lower	Upper		
	(R)	(SE) HOLDS AND F	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE		
No. of the state of TN					4.400	0.005	0.070	0.000		
Ownership of at least one ITN De facto population with access to an ITN	0.980 0.861	0.005 0.011	1,136 6,838	1,134 6,780	1.189 1.465	0.005 0.013	0.970 0.839	0.990 0.883		
Household population that slept under an ITN last night	0.871	0.014	6,838	6,780	1.948	0.017	0.842	0.900		
		WOMEN								
Jrban residence	0.128	0.017	1,405	1,382	1.921	0.134	0.094	0.163		
iteracy	0.181	0.036	1,405	1,382	3.528	0.201	0.108	0.254		
No education	0.749	0.039	1,405	1,382	3.344	0.052	0.671	0.827		
Secondary or higher education Never married (never in union)	0.152 0.134	0.034 0.018	1,405 1,405	1,382 1,382	3.534 1.929	0.224 0.131	0.084 0.099	0.220 0.169		
Currently married (in union)	0.838	0.021	1,405	1,382	2.162	0.025	0.795	0.880		
Married before age 18	0.827	0.022	1,105	1,089	1.947	0.027	0.782	0.871		
Had sexual intercourse before age 18 Currently pregnant	0.829 0.152	0.022 0.012	1,105 1,405	1,089 1,382	1.904 1.207	0.026 0.076	0.786 0.129	0.872 0.175		
Know any contraceptive method	0.132	0.003	1,165	1,158	1.140	0.003	0.123	0.173		
Know a modern method	0.985	0.008	1,165	1,158	2.191	0.008	0.969	1.001		
Currently using any method Currently using a modern method	0.040 0.039	0.009 0.009	1,165 1,165	1,158 1,158	1.645 1.584	0.237 0.231	0.021 0.021	0.059 0.057		
Currently using a modern method	0.005	0.009	1,165	1,158	0.932	0.392	0.021	0.007		
Currently using male condoms	0.000	0.000	1,165	1,158	0.000	0.000	0.000	0.000		
Currently using injectables	0.025	0.008	1,165 1,165	1,158	1.660	0.304	0.010	0.040		
Currently using implants Currently using female sterilisation	0.008 0.001	0.003 0.001	1,165 1,165	1,158 1,158	1.193 1.094	0.387 0.990	0.002 0.000	0.014 0.003		
Currently using withdrawal	0.000	0.000	1,165	1,158	0.000	0.000	0.000	0.000		
Currently using rhythm	0.001	0.001	1,165	1,158	0.977	0.994	0.000	0.002		
Jsing public sector source Vant no more children	0.837 0.162	0.070 0.012	48 1,165	45 1,158	1.281 1.139	0.083 0.076	0.698 0.137	0.976 0.186		
Want to delay next birth at least 2 years	0.440	0.018	1,165	1,158	1.252	0.041	0.404	0.477		
deal number of children	8.714	0.107	1,405	1,382	1.655	0.012	8.500	8.928		
Nothers protected against tetanus for last birth Births with skilled attendant at delivery	0.578 0.213	0.035 0.031	901 1,502	898 1,497	2.112 2.436	0.060 0.143	0.508 0.152	0.647 0.274		
Received 3+ doses of SP/Fansidar	0.213	0.021	553	552	1.160	0.090	0.132	0.274		
reated with ORS	0.639	0.033	239	243	1.036	0.052	0.572	0.706		
Sought medical treatment for diarrhoea Ever had vaccination card	0.823 0.583	0.033 0.048	239 250	243 246	1.290 1.515	0.040 0.083	0.758 0.486	0.889 0.679		
Received BCG vaccination	0.532	0.046	250	246	1.264	0.063	0.450	0.613		
Received birth dose HepB vaccination	0.407	0.054	250	246	1.672	0.132	0.300	0.514		
Received DPT-HepB-Hib vaccination (3 doses)	0.357	0.048	250	246	1.526	0.133	0.262	0.452		
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.451 0.485	0.048 0.043	250 250	246 246	1.480 1.316	0.106 0.088	0.356 0.399	0.547 0.570		
Received pneumococcal vaccination (3 doses)	0.310	0.045	250	246	1.487	0.145	0.220	0.399		
Received measles 1 vaccination	0.557	0.039	250	246	1.205	0.070	0.479	0.634		
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.238 0.179	0.036 0.032	250 250	246 246	1.279 1.271	0.151 0.179	0.166 0.115	0.309 0.243		
Received measles 2 vaccination	0.147	0.027	232	233	1.182	0.186	0.092	0.202		
Received all age-appropriate vaccinations (24-35 months)	0.025	0.010	232	233	0.955	0.390	0.005	0.044		
-leight-for-age (-2SD) Weight-for-height (-2SD)	0.640 0.096	0.027 0.017	415 420	415 419	1.211 1.121	0.043 0.179	0.586 0.061	0.695 0.130		
Weight for height (200) Weight-for-age (-2SD)	0.423	0.033	422	422	1.288	0.079	0.356	0.490		
Body mass index (BMI) <18.5	0.304	0.026	375	366	1.104	0.087	0.251	0.357		
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.077 0.819	0.022 0.025	375 383	366 382	1.564 1.197	0.280 0.031	0.034 0.768	0.121 0.869		
Prevalence of malaria (children 6-39 months)	0.357	0.023	287	291	1.178	0.031	0.700	0.426		
Prevalence of malaria (based on rapid test)	0.494	0.033	380	379	1.236	0.067	0.428	0.560		
Prevalence of anaemia (women 15-49)	0.654	0.031	453	447	1.368	0.047	0.593	0.715		
Had 2+ sexual partners in past 12 months Condom use at last sex	0.000 0.000	0.000 0.000	1,405 0	1,382 0	0.000 0.000	0.000 0.000	0.000 0.000	0.000		
Abstinence among young people (never had sex)	1.000	0.000	195	182	0.000	0.000	1.000	1.000		
Discriminatory attitudes towards people with HIV	0.801	0.016	1,398	1,375	1.508	0.020	0.769	0.834		
Prevalence of sickle cell disease among children 6-59 months	0.016	0.006	383	382	1.046	0.416	0.003	0.029		
Total fertility rate (last 3 years)	7.133	0.211	3,891	3,828	1.275	0.030	6.711	7.556		
Neonatal mortality (last 0-9 years)	46.802	4.707	3,072	3,045	1.105	0.101	37.387	56.217		
Postneonatal mortality (last 0-9 years) nfant mortality (last 0-9 years)	33.915 80.717	4.184 7.726	3,070 3,080	3,045 3,054	1.093 1.340	0.123 0.096	25.547 65.265	42.284 96.169		
Child mortality (last 0-9 years)	144.152	11.595	3,098	3,034	1.339	0.080	120.962	167.342		
Under-5 mortality (last 0-9 years)	213.234	13.096	3,143	3,118	1.247	0.061	187.041	239.426		
		MEN								
Jrban residence	0.128	0.019	296	291	0.981	0.149	0.090	0.166		
iteracy	0.584 0.367	0.048 0.046	296	291	1.669 1.652	0.082	0.487 0.274	0.680		
No education Secondary or higher education	0.367 0.431	0.046 0.055	296 296	291 291	1.652 1.899	0.127 0.127	0.274	0.460 0.541		
Never married (in union)	0.381	0.025	296	291	0.879	0.065	0.331	0.430		
Currently married (in union)	0.594	0.029	296	291	1.014	0.049	0.536	0.652		
Had first sexual intercourse before age 18 Knows any contraceptive method	0.077 0.991	0.021 0.009	227 175	222 173	1.165 1.232	0.269 0.009	0.035 0.974	0.118 1.009		
Knows any contraceptive method Knows any modern contraceptive method	0.991	0.009	175	173	1.232	0.009	0.974	1.009		
Vant no more children	0.035	0.014	175	173	1.014	0.402	0.007	0.064		
Nant to delay birth at least 2 years	0.376 11.308	0.037 0.404	175 296	173 201	1.008	0.098 0.036	0.302 10.501	0.450		
deal number of children Had 2+ sexual partners in past 12 months	11.308 0.128	0.404 0.017	296 296	291 291	0.978 0.878	0.036	10.501 0.094	12.116 0.163		
Condom use at last sex	0.000	0.000	37	37	0.000	0.000	0.000	0.000		
Abstinence among young people (never had sex)	0.988	0.013	96	95	1.116	0.013	0.962	1.013		
Had paid sex in past 12 months	0.008	0.008 0.035	296 294	291 290	1.574 1.332	1.012 0.049	0.000 0.648	0.025 0.788		

Table B.25 Sampling errors: Kaduna sample, Nigeria DI			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ownership of at least one ITN	0.793	0.017	POPULATION 1,249	1,950	1.501	0.022	0.758	0.827
De facto population with access to an ITN	0.510	0.019	6,780	10,663	1.861	0.038	0.471	0.548
Household population that slept under an ITN last night	0.543	0.022 WOMEN	6,780	10,663	1.954	0.041	0.498	0.588
Urban residence	0.425	0.051	1,610	2,493	4.099	0.119	0.324	0.527
Literacy	0.442	0.055	1,610	2,493	4.378 4.993	0.123 0.133	0.333 0.344	0.551 0.595
No education Secondary or higher education	0.470 0.386	0.063 0.053	1,610 1,610	2,493 2,493	4.312	0.136	0.281	0.492
Never married (never in union) Currently married (in union)	0.181 0.792	0.026 0.029	1,610 1,610	2,493 2,493	2.700 2.903	0.144 0.037	0.129 0.733	0.233 0.851
Married before age 18	0.610	0.039	1,262	1,971	2.851	0.064	0.532	0.689
Had sexual intercourse before age 18 Currently pregnant	0.738 0.113	0.035 0.010	1,262 1,610	1,971 2,493	2.792 1.252	0.047 0.087	0.669 0.093	0.808 0.133
Know any contraceptive method	0.992	0.004	1,242	1,975	1.393	0.004	0.985	0.999
Know a modern method Currently using any method	0.966 0.149	0.010 0.027	1,242 1,242	1,975 1,975	1.988 2.646	0.011 0.180	0.945 0.095	0.986 0.203
Currently using a modern method	0.137	0.026	1,242	1,975	2.690	0.192	0.085	0.190
Currently using pill Currently using male condoms	0.008 0.004	0.002 0.002	1,242 1,242	1,975 1,975	0.920 1.051	0.287 0.499	0.004 0.000	0.013 0.007
Currently using injectables	0.040	0.009	1,242	1,975	1.526	0.212	0.023	0.057
Currently using implants Currently using female sterilisation	0.070 0.003	0.016 0.002	1,242 1,242	1,975 1,975	2.250 1.001	0.233 0.529	0.038 0.000	0.103 0.006
Currently using withdrawal	0.002	0.001	1,242	1,975	1.017	0.622	0.000	0.005
Currently using rhythm Using public sector source	0.005 0.738	0.002 0.042	1,242 193	1,975 290	0.969 1.313	0.392 0.057	0.001 0.655	0.009 0.822
Want no more children	0.209	0.015	1,242	1,975	1.302	0.072	0.179	0.240
Want to delay next birth at least 2 years Ideal number of children	0.318 7.177	0.020 0.269	1,242 1,606	1,975 2,486	1.534 3.574	0.064 0.038	0.278 6.639	0.359 7.715
Mothers protected against tetanus for last birth	0.509	0.047	898	1,453	2.824	0.092	0.416	0.603
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.233 0.092	0.036 0.020	1,451 541	2,402 885	2.519 1.614	0.154 0.215	0.161 0.052	0.305 0.131
Treated with ORS	0.047	0.018	155	241	1.059	0.390	0.010	0.083
Sought medical treatment for diarrhoea Ever had vaccination card	0.487 0.559	0.064 0.061	155 227	241 362	1.519 1.846	0.132 0.109	0.359 0.438	0.615 0.681
Received BCG vaccination	0.518	0.067	227	362	2.028	0.130	0.383	0.652
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.449 0.319	0.064 0.049	227 227	362 362	1.926 1.585	0.142 0.154	0.322 0.221	0.576 0.417
Received birth dose polio 0 vaccination	0.452	0.057	227	362	1.726	0.126	0.338	0.566
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.323 0.317	0.047 0.047	227 227	362 362	1.508 1.512	0.144 0.147	0.230 0.224	0.417 0.410
Received measles 1 vaccination	0.424	0.047	227	362	1.428	0.110	0.331	0.518
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.218 0.166	0.036 0.032	227 227	362 362	1.313 1.299	0.165 0.193	0.146 0.102	0.290 0.230
Received measles 2 vaccination	0.131	0.039	230	376	1.792	0.301	0.052	0.209
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.054 0.481	0.019 0.033	230 421	376 688	1.313 1.330	0.359 0.068	0.015 0.416	0.092 0.547
Weight-for-height (-2SD)	0.048	0.012	420	692	1.181	0.242	0.025	0.072
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.221 0.109	0.029 0.018	422 459	694 694	1.343 1.202	0.134 0.162	0.162 0.074	0.280 0.145
Body mass index (BMI) ≥25	0.251	0.026	459	694	1.247	0.102	0.200	0.302
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.484 0.330	0.052 0.043	376 280	614 454	1.793 1.272	0.108 0.130	0.379 0.244	0.589 0.416
Prevalence of malaria (based on rapid test)	0.343	0.040	376	614	1.384	0.116	0.264	0.422
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.440 0.007	0.032 0.004	550 1,610	850 2,493	1.532 1.733	0.074 0.510	0.375 0.000	0.505 0.014
Condom use at last sex	0.445	0.153	11	18	0.975	0.343	0.139	0.751
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.812 0.254	0.044 0.024	293 1,590	413 2,464	1.912 2.180	0.054 0.094	0.725 0.206	0.900 0.301
Prevalence of sickle cell disease among children 6-59 months	0.000	0.000	376	614	0.000	0.000	0.000	0.000
Total fertility rate (last 3 years)	5.947	0.360	4,497	6,976	2.412	0.061	5.227	6.667
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	63.361 33.830	9.303 5.322	2,781 2,779	4,492 4,489	1.454 1.393	0.147 0.157	44.755 23.186	81.966 44.474
Infant mortality (last 0-9 years)	97.190	10.232	2,786	4,499	1.354	0.105	76.727	117.654
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	99.825 187.314	13.157 19.226	2,800 2,819	4,501 4,550	1.828 1.936	0.132 0.103	73.511 148.862	126.140 225.765
		MEN						
Urban residence Literacy	0.427 0.650	0.043 0.055	426 426	636 636	1.799 2.374	0.101 0.085	0.340 0.540	0.513 0.761
No education	0.291	0.056	426	636	2.521	0.192	0.179	0.403
Secondary or higher education Never married (in union)	0.565 0.385	0.056 0.029	426 426	636 636	2.303 1.249	0.098 0.077	0.454 0.326	0.677 0.444
Currently married (in union)	0.605	0.030	426	636	1.279	0.050	0.545	0.666
Had first sexual intercourse before age 18 Knows any contraceptive method	0.100 1.000	0.028 0.000	340 245	510 385	1.707 0.000	0.279 0.000	0.044 1.000	0.156 1.000
Knows any modern contraceptive method	1.000	0.000	245	385	0.000	0.000	1.000	1.000
Want no more children Want to delay birth at least 2 years	0.103 0.284	0.022 0.033	245 245	385 385	1.115 1.155	0.211 0.117	0.060 0.218	0.146 0.351
Ideal number of children	8.060	0.470	426	636	1.567	0.058	7.120	9.001
Had 2+ sexual partners in past 12 months Condom use at last sex	0.196 0.080	0.021 0.031	426 71	636 125	1.107 0.956	0.109 0.386	0.153 0.018	0.239 0.142
Abstinence among young people (never had sex)	0.867	0.036	138	192	1.237	0.041	0.795	0.939
Had paid sex in past 12 months	0.029 0.205	0.011 0.030	426 411	636 611	1.342 1.513	0.378 0.148	0.007 0.144	0.051 0.265

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.852 0.633	0.016 0.017	1,566 9,664	2,153 13,328	1.794 1.775	0.019 0.027	0.820 0.599	0.884 0.667
Household population that slept under an ITN last night	0.651	0.018	9,664	13,328	1.844	0.028	0.614	0.688
		WOMEN	N					
Jrban residence	0.444 0.378	0.026 0.040	1,983	2,692 2,692	2.357 3.635	0.059	0.391 0.299	0.497
Literacy No education	0.563	0.040	1,983 1,983	2,692	3.403	0.105 0.068	0.299	0.458 0.639
Secondary or higher education	0.321	0.039	1,983	2,692	3.727	0.122	0.242	0.399
Never married (never in union) Currently married (in union)	0.188 0.775	0.020 0.024	1,983 1,983	2,692 2,692	2.323 2.558	0.109 0.031	0.147 0.726	0.228 0.823
Married before age 18	0.712	0.031	1,544	2,084	2.695	0.044	0.649	0.774
Had sexual intercourse before age 18 Currently pregnant	0.719 0.152	0.032 0.009	1,544 1,983	2,084 2,692	2.793 1.067	0.045 0.057	0.655 0.134	0.783 0.169
Know any contraceptive method	0.132	0.009	1,541	2,092	1.274	0.004	0.134	0.109
Know a modern method	0.984	0.003	1,541	2,085	1.076	0.004	0.977	0.991
Currently using any method Currently using a modern method	0.063 0.056	0.009 0.008	1,541 1,541	2,085 2,085	1.463 1.445	0.143 0.151	0.045 0.039	0.082 0.073
Currently using pill	0.007	0.003	1,541	2,085	1.412	0.414	0.001	0.014
Currently using male condoms Currently using injectables	0.001 0.015	0.001 0.004	1,541 1,541	2,085 2,085	0.871 1.121	0.705 0.229	0.000 0.008	0.002 0.022
Currently using implants	0.023	0.005	1,541	2,085	1.268	0.210	0.013	0.033
Currently using female sterilisation	0.001	0.001	1,541	2,085	0.958	0.729	0.000	0.003
Currently using withdrawal Currently using rhythm	0.002 0.000	0.001 0.000	1,541 1,541	2,085 2,085	0.989 0.777	0.560 1.013	0.000 0.000	0.004 0.001
Using public sector source	0.788	0.042	88	120	0.969	0.054	0.703	0.873
Want no more children Want to delay next birth at least 2 years	0.164 0.369	0.014 0.013	1,541 1,541	2,085 2,085	1.468 1.035	0.085 0.034	0.136 0.344	0.191 0.395
Ideal number of children	7.439	0.013	1,977	2,686	2.669	0.034	7.112	7.765
Mothers protected against tetanus for last birth	0.653	0.031	1,247	1,682	2.299	0.048	0.591	0.715
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.236 0.072	0.026 0.015	2,037 742	2,738 1,001	2.257 1.598	0.109 0.210	0.184 0.042	0.287 0.103
Treated with ORS	0.528	0.025	320	428	0.862	0.047	0.479	0.578
Sought medical treatment for diarrhoea Ever had vaccination card	0.813 0.636	0.025 0.035	320 328	428 431	1.149 1.310	0.031 0.056	0.763 0.565	0.863 0.706
Received BCG vaccination	0.612	0.037	328	431	1.363	0.061	0.538	0.687
Received birth dose HepB vaccination	0.420	0.034	328	431	1.222	0.081	0.352	0.488
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.459 0.472	0.040 0.037	328 328	431 431	1.421 1.329	0.087 0.079	0.380 0.397	0.539 0.546
Received polio vaccination (3 doses)	0.668	0.037	328	431	1.393	0.055	0.594	0.741
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.434 0.561	0.041 0.036	328 328	431 431	1.468 1.303	0.094 0.065	0.352 0.488	0.516 0.633
Received all basic vaccinations (12-23 months)	0.343	0.035	328	431	1.310	0.102	0.273	0.413
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.221	0.032	328 349	431	1.354 1.229	0.144	0.158 0.083	0.285
Received measies 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.130 0.048	0.024 0.014	349 349	459 459	1.229	0.182 0.299	0.063	0.177 0.077
Height-for-age (-2SD)	0.567	0.023	560	752	1.032	0.041	0.521	0.614
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.063 0.305	0.011 0.023	566 567	760 761	1.083 1.108	0.175 0.074	0.041 0.260	0.085 0.350
Body mass index (BMI) <18.5	0.177	0.026	481	637	1.455	0.145	0.126	0.229
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.166 0.729	0.024 0.025	481 510	637 682	1.424 1.199	0.148 0.034	0.117 0.680	0.215 0.779
Prevalence of anaemia (children 6-39 months) Prevalence of malaria (based on microscopy test)	0.729	0.023	359	488	1.183	0.034	0.000	0.400
Prevalence of malaria (based on rapid test)	0.430	0.039	510	682	1.517	0.091	0.352	0.509
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.466 0.000	0.029 0.000	580 1,983	775 2,692	1.375 0.778	0.062 1.008	0.408 0.000	0.523 0.001
Condom use at last sex	0.000	0.000	1	1	0.000	0.000	0.000	0.000
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.988 0.622	0.007 0.022	351 1,964	484 2,666	1.280 2.007	0.008 0.035	0.973 0.578	1.003 0.666
Prevalence of sickle cell disease among children 6-59								
months	0.024	0.007	510 5.546	682	0.992	0.310	0.009	0.039
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	6.545 36.744	0.252 3.830	5,546 3,939	7,518 5,287	1.672 1.143	0.039 0.104	6.040 29.084	7.050 44.403
Postneonatal mortality (last 0-9 years)	25.513	3.199	3,942	5,291	1.231	0.125	19.116	31.910
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	62.257 108.571	5.866 10.217	3,945 3,917	5,295 5,252	1.318 1.525	0.094 0.094	50.525 88.136	73.989 129.006
Under-5 mortality (last 0-9 years)	164.069	12.345	4,010	5,383	1.546	0.075	139.378	188.759
		MEN						
Urban residence	0.476	0.037	483	676	1.631	0.078	0.402	0.551
Literacy No education	0.713 0.257	0.033 0.035	483 483	676 676	1.585 1.776	0.046 0.138	0.648 0.186	0.779 0.328
Secondary or higher education	0.573	0.042	483	676	1.853	0.073	0.490	0.657
Never married (in union) Currently married (in union)	0.517 0.460	0.035 0.034	483 483	676 676	1.542 1.516	0.068 0.075	0.447 0.391	0.587 0.529
Had first sexual intercourse before age 18	0.460	0.034	357	495	1.080	0.248	0.391	0.529
Knows any contraceptive method	0.929	0.021	225	311	1.196	0.022	0.888	0.970
Knows any modern contraceptive method Want no more children	0.929 0.037	0.021 0.013	225 225	311 311	1.196 1.069	0.022 0.364	0.888 0.010	0.970 0.064
Want to delay birth at least 2 years	0.381	0.034	225	311	1.032	0.088	0.314	0.448
ldeal number of children Had 2+ sexual partners in past 12 months	9.967 0.109	0.565 0.015	388 483	542 676	1.409 1.057	0.057 0.137	8.836 0.079	11.097 0.139
Condom use at last sex	0.000	0.000	463 53	74	0.000	0.137	0.079	0.000
Abstinence among young people (never had sex)	0.985	0.008	192	267	0.948	0.008	0.969	1.002
Had paid sex in past 12 months	0.004 0.575	0.004 0.034	483 478	676 670	1.316 1.514	0.990 0.060	0.000 0.506	0.011 0.643

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ownership of at least one ITN	0.918	0.015	POPULATION 1,168	1,820	1.817	0.016	0.889	0.947
De facto population with access to an ITN	0.713	0.025	7,411	11,444	2.272	0.035	0.664	0.763
Household population that slept under an ITN last night	0.647	0.025 WOMEN	7,411	11,444	1.889	0.039	0.596	0.698
Urban residence	0.234	0.022	1,494	2,283	2.004	0.094	0.190	0.278
Literacy	0.266 0.589	0.031 0.035	1,494	2,283	2.684 2.760	0.116 0.060	0.204 0.519	0.327 0.659
No education Secondary or higher education	0.569	0.035	1,494 1,494	2,283 2,283	2.760	0.000	0.519	0.297
Never married (never in union) Currently married (in union)	0.195 0.776	0.017 0.019	1,494 1,494	2,283 2,283	1.672 1.775	0.088 0.025	0.160 0.738	0.229 0.814
Married before age 18	0.788	0.023	1,105	1,698	1.897	0.030	0.742	0.835
Had sexual intercourse before age 18 Currently pregnant	0.820 0.124	0.023 0.013	1,105 1,494	1,698 2,283	1.994 1.552	0.028 0.107	0.773 0.097	0.866 0.150
Know any contraceptive method	0.920	0.020	1,132	1,772	2.498	0.022	0.880	0.961
Know a modern method Currently using any method	0.913 0.034	0.022 0.007	1,132 1,132	1,772 1,772	2.618 1.370	0.024 0.218	0.869 0.019	0.957 0.049
Currently using a modern method	0.033	0.007	1,132	1,772	1.358	0.220	0.018	0.047
Currently using pill Currently using male condoms	0.007 0.000	0.003 0.000	1,132 1,132	1,772 1,772	1.200 0.000	0.430 0.000	0.001 0.000	0.013 0.000
Currently using injectables	0.012	0.003	1,132	1,772	0.966	0.261	0.006	0.018
Currently using implants Currently using female sterilisation	0.013 0.001	0.004 0.001	1,132 1,132	1,772 1,772	1.116 0.825	0.292 0.724	0.005 0.000	0.020 0.003
Currently using withdrawal	0.000	0.000	1,132	1,772	0.000	0.000	0.000	0.000
Currently using rhythm Using public sector source	0.000 0.894	0.000 0.050	1,132 41	1,772 58	0.000 1.024	0.000 0.056	0.000 0.794	0.000 0.994
Want no more children	0.201	0.016	1,132	1,772	1.358	0.080	0.169	0.234
Want to delay next birth at least 2 years Ideal number of children	0.415 6.630	0.018 0.205	1,132 1,407	1,772 2,141	1.223 1.875	0.043 0.031	0.379 6.220	0.451 7.041
Mothers protected against tetanus for last birth	0.425	0.034	932	1,440	2.116	0.081	0.356	0.494
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.191 0.063	0.027 0.014	1,555 571	2,428 876	2.179 1.335	0.142 0.216	0.137 0.036	0.245 0.091
Treated with ORS	0.398	0.045	188	294	1.228	0.114	0.307	0.488
Sought medical treatment for diarrhoea Ever had vaccination card	0.699 0.462	0.034 0.055	188 257	294 392	0.990 1.707	0.049 0.118	0.631 0.352	0.767 0.571
Received BCG vaccination	0.464	0.054	257	392	1.699	0.117	0.355	0.572
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.281 0.337	0.046 0.050	257 257	392 392	1.630 1.634	0.165 0.147	0.188 0.238	0.374 0.436
Received birth dose polio 0 vaccination	0.346	0.049	257	392	1.607	0.141	0.248	0.443
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.459 0.335	0.055 0.050	257 257	392 392	1.716 1.641	0.119 0.148	0.349 0.235	0.568 0.434
Received measles 1 vaccination	0.346	0.046	257	392	1.512	0.133	0.254	0.438
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.212 0.122	0.041 0.025	257 257	392 392	1.530 1.217	0.191 0.205	0.131 0.072	0.293 0.172
Received measles 2 vaccination	0.090	0.020	271	434	1.155	0.220	0.050	0.129
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.053 0.603	0.016 0.031	271 476	434 744	1.171 1.220	0.296 0.051	0.022 0.541	0.084 0.664
Weight-for-height (-2SD)	0.106	0.018	491	766	1.271	0.172	0.069	0.142
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.390 0.127	0.036 0.021	493 431	768 660	1.422 1.299	0.093 0.164	0.318 0.085	0.462 0.168
Body mass index (BMI) ≥25	0.178	0.024	431	660	1.299	0.134	0.131	0.226
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.648 0.255	0.037 0.036	439 305	687 475	1.519 1.261	0.057 0.140	0.574 0.183	0.722 0.326
Prevalence of malaria (based on rapid test)	0.554	0.040	439	687	1.508	0.073	0.473	0.635
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.712 0.002	0.030 0.002	509 1,494	780 2,283	1.495 1.405	0.042 0.746	0.652 0.000	0.772 0.006
Condom use at last sex	0.000	0.000	3	5	0.000	0.000	0.000	0.000
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	1.000 0.592	0.000 0.019	297 1,467	421 2,242	0.000 1.441	0.000 0.031	1.000 0.555	1.000 0.629
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.011 7.250	0.006 0.238	439 4,076	687 6,239	0.992 1.263	0.532 0.033	0.000 6.774	0.022 7.727
Neonatal mortality (last 0-9 years)	37.625	4.688	3,118	4,838	1.191	0.125	28.249	47.002
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	27.974 65.600	3.439 6.165	3,114 3,122	4,822 4,843	1.121 1.243	0.123 0.094	21.095 53.270	34.853 77.929
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	131.238 188.228	10.577 11.600	3,133 3,197	4,852 4,963	1.394 1.374	0.081 0.062	110.083 165.028	152.393 211.429
	-	MEN	,	, -			-	
Urban residence Literacy	0.235 0.686	0.027 0.051	454 454	687 687	1.372 2.328	0.116 0.074	0.180 0.584	0.290 0.788
No education	0.289	0.050	454	687	2.331	0.173	0.189	0.389
Secondary or higher education Never married (in union)	0.525 0.523	0.057 0.033	454 454	687 687	2.405 1.385	0.108 0.062	0.412 0.458	0.638 0.589
Currently married (in union)	0.473	0.032	454	687	1.382	0.069	0.409	0.538
Had first sexual intercourse before age 18 Knows any contraceptive method	0.014 0.977	0.008 0.012	325 212	489 325	1.165 1.197	0.545 0.013	0.000 0.952	0.029 1.002
Knows any modern contraceptive method	0.977	0.012	212	325	1.197	0.013	0.952	1.002
Want no more children Want to delay birth at least 2 years	0.067 0.167	0.014 0.021	212 212	325 325	0.831 0.823	0.213 0.127	0.038 0.124	0.095 0.209
Ideal number of children	9.537	0.208	454	687	1.018	0.022	9.122	9.952
Had 2+ sexual partners in past 12 months Condom use at last sex	0.13 4 0.056	0.017 0.033	454 60	687 92	1.056 1.082	0.126 0.578	0.100 0.000	0.168 0.121
Abstinence among young people (never had sex)	0.997	0.003	191	286	0.808	0.003	0.990	1.003
Had paid sex in past 12 months	0.014 0.542	0.006 0.032	454 438	687 662	1.128 1.326	0.450 0.058	0.001 0.478	0.026 0.605

		<u> </u>		of cases		<u> </u>	Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
Ourseastin of others and ITAL		HOLDS AND P			1.040	0.000	0.070	0.000
Ownership of at least one ITN De facto population with access to an ITN	0.981 0.776	0.006 0.011	1,034 5,959	910 5,232	1.343 1.347	0.006 0.015	0.970 0.753	0.993 0.798
Household population that slept under an ITN last night	0.816	0.012	5,959	5,232	1.568	0.015	0.792	0.840
		WOMEN						
Urban residence	0.173	0.023	1,335	1,136	2.262	0.136	0.126	0.220
Literacy No education	0.153 0.818	0.028 0.030	1,335 1,335	1,136 1,136	2.788 2.797	0.180 0.036	0.098 0.759	0.208 0.877
Secondary or higher education	0.110	0.023	1,335	1,136	2.732	0.214	0.063	0.156
Never married (never in union) Currently married (in union)	0.139 0.832	0.019 0.024	1,335 1,335	1,136 1,136	2.048 2.300	0.140 0.028	0.100 0.785	0.178 0.879
Married before age 18	0.758	0.017	1,071	916	1.288	0.022	0.725	0.792
Had sexual intercourse before age 18	0.746 0.145	0.019 0.010	1,071 1,335	916 1,136	1.404 1.046	0.025 0.070	0.709 0.125	0.783 0.165
Currently pregnant Know any contraceptive method	0.143	0.018	1,095	945	1.040	0.070	0.125	0.103
Know a modern method	0.897	0.019	1,095	945	2.059	0.021	0.859	0.935
Currently using any method Currently using a modern method	0.035 0.032	0.007 0.007	1,095 1,095	945 945	1.276 1.392	0.204 0.232	0.020 0.017	0.049 0.047
Currently using pill	0.008	0.002	1,095	945	0.857	0.293	0.003	0.012
Currently using male condoms Currently using injectables	0.001 0.016	0.001 0.006	1,095 1,095	945 945	0.846 1.552	0.716 0.368	0.000 0.004	0.003 0.028
Currently using implants	0.007	0.002	1,095	945	0.853	0.315	0.002	0.011
Currently using female sterilisation Currently using withdrawal	0.000 0.000	0.000 0.000	1,095 1,095	945 945	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Currently using rhythm	0.000	0.000	1,095	945 945	0.000	0.000	0.000	0.000
Using public sector source	0.857	0.059	37	31	1.003	0.068	0.740	0.974
Want no more children Want to delay next birth at least 2 years	0.091 0.329	0.008 0.018	1,095 1,095	945 945	0.886 1.267	0.085 0.055	0.076 0.293	0.106 0.365
Ideal number of children	8.833	0.157	1,334	1,135	1.857	0.018	8.518	9.148
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.235 0.094	0.031 0.012	824 1,397	716 1,228	2.099 1.404	0.132 0.132	0.173 0.069	0.297 0.119
Received 3+ doses of SP/Fansidar	0.054	0.014	507	451	1.466	0.269	0.025	0.082
Treated with ORS Sought medical treatment for diarrhoea	0.394 0.620	0.047 0.047	108 108	97 97	1.014 1.013	0.120 0.076	0.300 0.525	0.489 0.715
Ever had vaccination card	0.605	0.038	237	207	1.201	0.063	0.529	0.681
Received BCG vaccination	0.256 0.158	0.043 0.027	237 237	207 207	1.505 1.137	0.167 0.173	0.170 0.103	0.341 0.213
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.106	0.026	237	207	1.332	0.173	0.053	0.159
Received birth dose polio 0 vaccination	0.177	0.035	237	207	1.395	0.197	0.107	0.247
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.265 0.080	0.037 0.024	237 237	207 207	1.311 1.372	0.140 0.299	0.191 0.032	0.339 0.129
Received measles 1 vaccination	0.326	0.040	237	207	1.342	0.124	0.246	0.407
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.063 0.025	0.019 0.007	237 237	207 207	1.229 0.719	0.306 0.288	0.024 0.011	0.101 0.040
Received measles 2 vaccination	0.023	0.012	188	160	1.131	0.540	0.000	0.048
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.000 0.660	0.000 0.029	188 359	160 323	0.000 1.080	0.000 0.044	0.000 0.603	0.000 0.718
Weight-for-height (-2SD)	0.123	0.023	355	320	1.314	0.171	0.081	0.165
Weight-for-age (-2SD)	0.463	0.033	358	322	1.181	0.071	0.398	0.529
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.158 0.137	0.026 0.021	382 382	324 324	1.392 1.218	0.165 0.157	0.106 0.094	0.210 0.180
Prevalence of anaemia (children 6-59 months)	0.808	0.030	319	285	1.255	0.037	0.749	0.867
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.522 0.768	0.047 0.034	218 318	189 284	1.224 1.393	0.089 0.045	0.429 0.700	0.615 0.836
Prevalence of anaemia (women 15-49)	0.604	0.036	450	380	1.535	0.059	0.533	0.675
Had 2+ sexual partners in past 12 months Condom use at last sex	0.001 0.000	0.001 0.000	1,335 1	1,136 1	0.966 0.000	1.000 0.000	0.000 0.000	0.002 0.000
Abstinence among young people (never had sex)	1.000	0.000	191	154	0.000	0.000	1.000	1.000
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.886	0.013	1,098	922	1.306	0.014	0.860	0.911
months	0.012	0.007	319	285	1.174	0.588	0.000	0.027
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	6.457 54.523	0.282 4.568	3,752 2,809	3,201 2,459	1.357 0.858	0.044 0.084	5.894 45.387	7.020 63.660
Postneonatal mortality (last 0-9 years)	57.658	5.795	2,836	2,485	1.209	0.101	46.069	69.248
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	112.181 157.344	7.921 12.888	2,820 2,904	2,469 2,534	1.186 1.656	0.071 0.082	96.340 131.568	128.023 183.121
Under-5 mortality (last 0-9 years)	251.875	14.995	2,892	2,534	1.630	0.062	221.885	281.864
		MEN						
Urban residence	0.203	0.034	342	291	1.559	0.168	0.135	0.271
Literacy No education	0.349 0.588	0.048 0.053	342 342	291 291	1.839 1.979	0.137 0.090	0.254 0.482	0.444 0.694
Secondary or higher education	0.279	0.045	342	291	1.836	0.161	0.189	0.894
Never married (in union)	0.395	0.033	342	291	1.249	0.084	0.329	0.462
Currently married (in union) Had first sexual intercourse before age 18	0.587 0.050	0.032 0.013	342 264	291 226	1.184 0.985	0.054 0.264	0.524 0.024	0.650 0.077
Knows any contraceptive method	0.993	0.007	195	171	1.191	0.007	0.978	1.007
Knows any modern contraceptive method Want no more children	0.993 0.027	0.007 0.011	195 195	171 171	1.191 0.968	0.007 0.413	0.978 0.005	1.007 0.050
Want to delay birth at least 2 years	0.473	0.036	195	171	1.005	0.076	0.401	0.545
ldeal number of children Had 2+ sexual partners in past 12 months	12.352 0.192	0.455 0.029	341 342	291 291	1.060 1.353	0.037 0.150	11.442 0.135	13.261 0.250
Condom use at last sex	0.000	0.000	62	56	0.000	0.000	0.000	0.000
Abstinence among young people (never had sex)	0.994	0.006	115 342	94 201	0.827	0.006	0.983	1.006
Had paid sex in past 12 months Discriminatory attitudes towards people with HIV	0.021 0.660	0.008 0.033	342 317	291 268	1.013 1.225	0.377 0.050	0.005 0.595	0.036 0.725

Table B.29 Sampling errors: Sokoto sample, Nigeria Di			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
valiable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.866 0.610	0.024 0.019	964 5,309	843 4,581	2.205 1.621	0.028 0.031	0.817 0.572	0.914 0.648
Household population that slept under an ITN last night	0.526	0.020	5,309	4,581	1.687	0.038	0.486	0.565
		WOME	V					
Urban residence Literacy	0.214 0.106	0.031 0.020	1,065 1,065	910 910	2.430 2.143	0.143 0.191	0.152 0.066	0.275 0.147
No education	0.884	0.025	1,065	910	2.553	0.028	0.834	0.934
Secondary or higher education Never married (never in union)	0.077 0.114	0.020 0.017	1,065 1,065	910 910	2.429 1.788	0.258 0.153	0.037 0.079	0.117 0.149
Currently married (in union) Married before age 18	0.854 0.728	0.018 0.017	1,065 844	910 723	1.680 1.127	0.021 0.024	0.817 0.693	0.890 0.763
Had sexual intercourse before age 18	0.800	0.017	844	723	1.219	0.021	0.766	0.833
Currently pregnant Know any contraceptive method	0.145 0.614	0.018 0.029	1,065 892	910 777	1.642 1.790	0.123 0.048	0.109 0.556	0.180 0.673
Know a modern method	0.609	0.031	892	777	1.904	0.051	0.546	0.671
Currently using any method Currently using a modern method	0.023 0.021	0.007 0.006	892 892	777 777	1.369 1.318	0.298 0.301	0.009 0.008	0.037 0.034
Currently using pill Currently using male condoms	0.006 0.000	0.003 0.000	892 892	777 777	1.052 0.000	0.459 0.000	0.000 0.000	0.011 0.000
Currently using injectables	0.008	0.004	892	777	1.182	0.430	0.001	0.016
Currently using implants Currently using female sterilisation	0.007 0.000	0.003 0.000	892 892	777 777	1.027 0.000	0.416 0.000	0.001 0.000	0.012 0.000
Currently using withdrawal	0.000	0.000	892	777	0.000	0.000	0.000	0.000
Currently using rhythm Using public sector source	0.000 0.751	0.000 0.096	892 23	777 17	0.000 1.041	0.000 0.128	0.000 0.559	0.000 0.943
Want no more children	0.148 0.130	0.018 0.013	892 892	777 777	1.512 1.179	0.122 0.102	0.112 0.103	0.184 0.157
Want to delay next birth at least 2 years Ideal number of children	8.112	0.129	1,061	906	1.624	0.102	7.854	8.371
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.286 0.129	0.036 0.023	703 1,137	608 978	2.127 1.882	0.127 0.177	0.213 0.084	0.358 0.175
Received 3+ doses of SP/Fansidar	0.225	0.030	422	362	1.462	0.133	0.165	0.284
Treated with ORS Sought medical treatment for diarrhoea	0.368 0.766	0.031 0.033	184 184	158 158	0.820 1.048	0.085 0.044	0.306 0.700	0.430 0.833
Ever had vaccination card	0.393	0.045	197	178	1.322	0.115	0.302	0.484
Received BCG vaccination Received birth dose HepB vaccination	0.356 0.237	0.051 0.039	197 197	178 178	1.517 1.325	0.143 0.166	0.254 0.158	0.458 0.316
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.072 0.196	0.022 0.034	197 197	178 178	1.237 1.179	0.310 0.171	0.027 0.129	0.116 0.263
Received polio vaccination (3 doses)	0.122	0.030	197	178	1.319	0.247	0.062	0.183
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.062 0.190	0.019 0.029	197 197	178 178	1.102 1.066	0.299 0.154	0.025 0.132	0.099 0.249
Received all basic vaccinations (12-23 months)	0.046	0.019	197	178	1.332	0.425	0.007	0.084
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.020 0.005	0.013 0.005	197 170	178 145	1.293 0.894	0.624 1.001	0.000 0.000	0.046 0.014
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.000 0.548	0.000 0.037	170 299	145 263	0.000 1.253	0.000 0.068	0.000 0.473	0.000 0.622
Weight-for-height (-2SD)	0.179	0.033	297	260	1.432	0.186	0.113	0.246
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.428 0.211	0.043 0.027	302 227	265 202	1.406 1.016	0.101 0.128	0.341 0.157	0.515 0.265
Body mass index (BMI) ≥25	0.072	0.019	227	202	1.129	0.264	0.034	0.110
Prevalence of anaemia (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.796 0.364	0.036 0.049	260 186	227 163	1.282 1.341	0.045 0.134	0.725 0.266	0.867 0.461
Prevalence of malaria (based on rapid test)	0.547	0.047	259	227	1.402	0.085	0.454	0.640
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.737 0.002	0.036 0.002	280 1,065	247 910	1.373 1.317	0.048 0.957	0.666 0.000	0.808 0.005
Condom use at last sex Abstinence among young people (never had sex)	0.000 0.993	0.000 0.007	1 134	2 97	0.000 0.984	0.000 0.007	0.000 0.979	0.000 1.007
Discriminatory attitudes towards people with HIV	0.675	0.025	881	748	1.555	0.036	0.626	0.724
Prevalence of sickle cell disease among children 6-59 months	0.010	0.005	260	227	0.856	0.516	0.000	0.021
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	7.000 50.281	0.330 7.426	2,962 2,327	2,533 2,010	1.280 1.480	0.047 0.148	6.339 35.430	7.660 65.133
Postneonatal mortality (last 0-9 years)	51.707	6.382	2,347	2,029	1.300	0.123	38.943	64.472
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	101.989 106.056	11.041 14.857	2,328 2,377	2,011 2,061	1.627 1.783	0.108 0.140	79.906 76.341	124.071 135.771
Under-5 mortality (last 0-9 years)	197.228	19.591	2,365	2,045	1.971	0.099	158.047	236.409
		MEN						
Urban residence Literacy	0.242 0.403	0.040 0.039	258 258	218 218	1.476 1.269	0.164 0.096	0.163 0.325	0.321 0.481
No education	0.585 0.284	0.054	258	218 218	1.738	0.092	0.478	0.692
Secondary or higher education Never married (in union)	0.430	0.051 0.041	258 258	218	1.794 1.335	0.178 0.096	0.183 0.347	0.385 0.512
Currently married (in union) Had first sexual intercourse before age 18	0.568 0.096	0.041 0.023	258 199	218 167	1.333 1.113	0.073 0.243	0.486 0.049	0.651 0.143
Knows any contraceptive method	0.942	0.028	141	124	1.427	0.030	0.885	0.999
Knows any modern contraceptive method Want no more children	0.929 0.014	0.040 0.009	141 141	124 124	1.810 0.899	0.043 0.640	0.849 0.000	1.008 0.032
Want to delay birth at least 2 years	0.303	0.038	141	124	0.989	0.127	0.226	0.380
Ideal number of children Had 2+ sexual partners in past 12 months	8.069 0.102	0.466 0.028	121 258	101 218	1.156 1.493	0.058 0.277	7.137 0.046	9.001 0.159
Condom use at last sex Abstinence among young people (never had sex)	0.137 0.995	0.075 0.005	23 102	22 86	1.021 0.695	0.547 0.005	0.000 0.986	0.287 1.005
Had paid sex in past 12 months	0.000	0.000	258	218	0.000	0.000	0.000	0.000
Discriminatory attitudes towards people with HIV	0.629	0.032	212	175	0.976	0.052	0.564	0.694

		<u> </u>	Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.779 0.497	0.021 0.024	947 5,901	1,030 6,381	1.586 2.105	0.027 0.049	0.737 0.449	0.822 0.546
Household population that slept under an ITN last night	0.438	0.024	5,901	6,381	2.253	0.055	0.389	0.487
		WOMEN	١					
Urban residence	0.299	0.070	1,237	1,328	5.320	0.234	0.159	0.439
Literacy	0.228	0.060	1,237	1,328	5.000	0.265	0.107	0.348
No education Secondary or higher education	0.750 0.207	0.064 0.056	1,237 1,237	1,328 1,328	5.169 4.798	0.086 0.270	0.621 0.095	0.878 0.318
Never married (never in union)	0.135	0.023	1,237	1,328	2.375	0.172	0.088	0.181
Currently married (in union) Married before age 18	0.840 0.706	0.025 0.035	1,237 945	1,328 1,006	2.373 2.334	0.030 0.049	0.790 0.636	0.890 0.775
Had sexual intercourse before age 18	0.798	0.045	945	1,006	3.422	0.056	0.708	0.888
Currently pregnant	0.137	0.012	1,237	1,328	1.250	0.089 0.009	0.112	0.161
Know any contraceptive method Know a modern method	0.963 0.963	0.008 0.008	1,048 1,048	1,116 1,116	1.457 1.457	0.009	0.946 0.946	0.980 0.980
Currently using any method	0.073	0.028	1,048	1,116	3.477	0.386	0.017	0.129
Currently using a modern method Currently using pill	0.067 0.008	0.028 0.005	1,048 1,048	1,116 1,116	3.647 1.857	0.424 0.646	0.010 0.000	0.123 0.018
Currently using male condoms	0.002	0.002	1,048	1,116	1.329	0.968	0.000	0.005
Currently using injectables Currently using implants	0.027 0.022	0.012 0.012	1,048 1,048	1,116 1,116	2.435 2.737	0.454 0.564	0.002 0.000	0.051 0.047
Currently using implants Currently using female sterilisation	0.022	0.012	1,048	1,116 1,116	2.737 2.157	0.860	0.000	0.047
Currently using withdrawal	0.002	0.001	1,048	1,116	0.911	0.716	0.000	0.004
Currently using rhythm Using public sector source	0.000 0.942	0.000 0.042	1,048 48	1,116 74	0.000 1.233	0.000 0.045	0.000 0.857	0.000 1.026
Want no more children	0.106	0.013	1,048	1,116	1.315	0.118	0.081	0.131
Want to delay next birth at least 2 years Ideal number of children	0.051 7.040	0.009 0.234	1,048 1,236	1,116 1,328	1.300 2.494	0.174 0.033	0.033 6.572	0.068 7.509
Mothers protected against tetanus for last birth	0.219	0.234	804	848	3.076	0.033	0.129	0.309
Births with skilled attendant at delivery	0.124	0.041	1,226	1,287	3.585	0.331	0.042	0.207
Received 3+ doses of SP/Fansidar Treated with ORS	0.119 0.323	0.025 0.101	488 40	521 45	1.685 1.378	0.207 0.311	0.070 0.122	0.168 0.524
Sought medical treatment for diarrhoea	0.619	0.057	40	45	0.777	0.091	0.506	0.732
Ever had vaccination card Received BCG vaccination	0.167 0.162	0.045 0.041	201 201	220 220	1.745 1.605	0.271 0.254	0.077 0.080	0.258 0.244
Received birth dose HepB vaccination	0.162	0.041	201	220	1.592	0.254	0.000	0.238
Received DPT-HepB-Hib vaccination (3 doses)	0.108	0.031	201	220	1.451	0.289	0.046	0.171
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.160 0.152	0.047 0.039	201 201	220 220	1.845 1.546	0.295 0.254	0.066 0.075	0.254 0.230
Received pneumococcal vaccination (3 doses)	0.094	0.028	201	220	1.404	0.303	0.037	0.151
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.122 0.074	0.035 0.027	201 201	220 220	1.540 1.495	0.288 0.369	0.052 0.019	0.192 0.128
Received all age-appropriate vaccinations (12-23 months)	0.074	0.021	201	220	1.386	0.309	0.019	0.120
Received measles 2 vaccination	0.000	0.000	204	206	0.000	0.000	0.000	0.000
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.000 0.508	0.000 0.032	204 361	206 376	0.000 1.150	0.000 0.064	0.000 0.443	0.000 0.573
Weight-for-height (-2SD)	0.092	0.013	365	381	0.885	0.143	0.065	0.118
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.321 0.198	0.026 0.024	373 337	389 355	1.004 1.109	0.082 0.123	0.269 0.149	0.374 0.246
Body mass index (BMI) <16.5 Body mass index (BMI) ≥25	0.190	0.024	337	355	1.109	0.123	0.149	0.240
Prevalence of anaemia (children 6-59 months)	0.836	0.023	325	339	1.166	0.028	0.790	0.882
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.357 0.518	0.062 0.057	241 323	254 337	1.640 1.686	0.172 0.110	0.234 0.404	0.480 0.632
Prevalence of anaemia (women 15-49)	0.713	0.028	407	428	1.223	0.039	0.657	0.768
Had 2+ sexual partners in past 12 months Condom use at last sex	0.000 0.000	0.000 0.000	1,237 0	1,328 0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
Abstinence among young people (never had sex)	1.000	0.000	157	179	0.000	0.000	1.000	1.000
Discriminatory attitudes towards people with HIV	0.607	0.015	1,234	1,325	1.066	0.024	0.577	0.636
Prevalence of sickle cell disease among children 6-59 months	0.005	0.004	325	339	0.888	0.706	0.000	0.012
Total fertility rate (last 3 years)	6.378	0.251	3,379	3,629	1.058	0.039	5.877	6.880
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	33.059 32.547	4.374 5.350	2,365 2,378	2,468 2,474	1.069 1.434	0.132 0.164	24.311 21.846	41.808 43.248
Infant mortality (last 0-9 years)	65.606	6.919	2,372	2,475	1.279	0.105	51.768	79.444
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	68.984 130.064	9.672 12.690	2,379 2,399	2,456 2,501	1.471 1.659	0.140 0.098	49.640 104.685	88.327 155.443
onder o mortality (last 0-0 years)	100.004	12.090 MEN	2,000	۱ ۵۰ ک	1.003	0.030	107.000	100.740
Urban residence	0.285	0.067	363	396	2.791	0.235	0.151	0.418
Literacy	0.400	0.068	363	396	2.604	0.169	0.265	0.536
No education Secondary or higher education	0.601 0.374	0.068 0.069	363 363	396 396	2.611 2.689	0.113 0.184	0.466 0.236	0.737 0.512
Secondary or nigner education Never married (in union)	0.374	0.069	363 363	396 396	2.689 1.834	0.184	0.236	0.512
Currently married (in union)	0.542	0.048	363	396	1.831	0.089	0.446	0.638
Had first sexual intercourse before age 18 Knows any contraceptive method	0.006 0.997	0.005 0.003	260 193	293 214	0.964 0.804	0.744 0.003	0.000 0.990	0.016 1.003
Knows any modern contraceptive method	0.982	0.013	193	214	1.333	0.013	0.956	1.007
Want no more children	0.036	0.024	193	214	1.806	0.683	0.000	0.084
Want to delay birth at least 2 years Ideal number of children	0.504 10.410	0.061 0.534	193 226	214 261	1.681 1.023	0.121 0.051	0.382 9.341	0.625 11.479
Had 2+ sexual partners in past 12 months	0.135	0.020	363	396	1.090	0.145	0.096	0.174
Condom use at last sex Abstinence among young people (never had sex)	0.044 0.936	0.042 0.020	54 144	53 149	1.476 0.982	0.957 0.021	0.000 0.896	0.128 0.977
Had paid sex in past 12 months	0.040	0.010	363	396	0.956	0.246	0.020	0.060
Discriminatory attitudes towards people with HIV	0.866	0.036	351	384	1.953	0.041	0.794	0.937

Table B.31 Sampling errors: Abia sample, Nigeria DHS			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
O constitution of all local and ITN			POPULATION		4.070	0.047	0.440	0.400
Ownership of at least one ITN De facto population with access to an ITN	0.454 0.322	0.021 0.017	1,047 4,090	664 2,676	1.372 1.304	0.047 0.053	0.412 0.287	0.496 0.356
Household population that slept under an ITN last night	0.227	0.021	4,090	2,676	1.573	0.092	0.185	0.269
		WOME						
Urban residence Literacy	0.207 0.880	0.036 0.017	982 982	630 630	2.758 1.659	0.173 0.020	0.135 0.846	0.278 0.914
No education	0.021	0.005	982	630	1.190	0.260	0.010	0.032
Secondary or higher education Never married (never in union)	0.842 0.347	0.019 0.019	982 982	630 630	1.672 1.253	0.023 0.055	0.803 0.309	0.881 0.385
Currently married (in union)	0.596	0.018	982	630	1.138	0.030	0.560	0.632
Married before age 18 Had sexual intercourse before age 18	0.110 0.364	0.013 0.019	804 804	518 518	1.194 1.104	0.120 0.051	0.083 0.327	0.136 0.402
Currently pregnant	0.058	0.008	982	630	1.109	0.142	0.042	0.075
Know any contraceptive method Know a modern method	0.994 0.994	0.003 0.003	581 581	376 376	0.974 0.974	0.003 0.003	0.988 0.988	1.000 1.000
Currently using any method	0.129	0.014	581	376	1.012	0.109	0.101	0.157
Currently using a modern method Currently using pill	0.108 0.011	0.015 0.005	581 581	376 376	1.159 1.175	0.139 0.469	0.078 0.001	0.138 0.021
Currently using male condoms	0.011	0.005	581	376	1.173	0.468	0.001	0.021
Currently using injectables	0.050	0.011	581	376	1.257	0.228	0.027	0.072
Currently using implants Currently using female sterilisation	0.019 0.005	0.006 0.003	581 581	376 376	1.016 0.898	0.304 0.526	0.007 0.000	0.030 0.010
Currently using withdrawal	0.020	0.009	581	376	1.603	0.472	0.001	0.038
Currently using rhythm Using public sector source	0.001 0.432	0.001 0.069	581 72	376 43	0.894 1.171	0.997 0.160	0.000 0.294	0.004 0.571
Want no more children	0.367	0.027	581	376	1.329	0.073	0.314	0.420
Want to delay next birth at least 2 years Ideal number of children	0.087 4.942	0.017 0.051	581 981	376 630	1.464 1.048	0.197 0.010	0.053 4.840	0.121 5.044
Mothers protected against tetanus for last birth	0.936	0.011	401	259	0.898	0.012	0.914	0.958
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.949 0.737	0.015 0.039	641 232	426 156	1.454 1.400	0.016 0.054	0.920 0.658	0.979 0.816
Treated with ORS	0.737	0.039	21	12	0.921	0.034	0.036	0.624
Sought medical treatment for diarrhoea	0.860 0.933	0.083 0.023	21 107	12 69	1.022 0.960	0.097 0.025	0.694 0.887	1.027 0.979
Ever had vaccination card Received BCG vaccination	0.933	0.023	107	69	0.960	0.025	0.887	0.979
Received birth dose HepB vaccination	0.935	0.022	107	69	0.929	0.024	0.891	0.979
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.804 0.873	0.044 0.031	107 107	69 69	1.148 0.970	0.055 0.036	0.715 0.810	0.892 0.935
Received polio vaccination (3 doses)	0.491	0.046	107	69	0.921	0.094	0.398	0.584
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.783 0.789	0.052 0.043	107 107	69 69	1.293 1.087	0.066 0.055	0.679 0.703	0.886 0.875
Received all basic vaccinations (12-23 months)	0.390	0.046	107	69	0.944	0.119	0.297	0.482
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.323 0.408	0.045 0.041	107 121	69 78	0.961 0.900	0.141 0.100	0.232 0.326	0.414 0.490
Received all age-appropriate vaccinations (24-35 months)	0.007	0.008	121	78	0.979	1.024	0.000	0.023
Height-for-age (-2SD) Weight-for-height (-2SD)	0.222 0.090	0.038 0.019	286 287	187 188	1.505 1.183	0.169 0.217	0.147 0.051	0.298 0.129
Weight-for-age (-2SD)	0.146	0.029	287	188	1.350	0.196	0.088	0.203
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.047 0.349	0.013 0.029	339 339	217 217	1.128 1.106	0.277 0.082	0.021 0.291	0.073 0.406
Prevalence of anaemia (children 6-59 months)	0.549	0.029	265	173	1.001	0.052	0.603	0.739
Prevalence of malaria (based on microscopy test)	0.135 0.207	0.036 0.039	182 263	123 172	1.272 1.369	0.266 0.190	0.063	0.206 0.285
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.207	0.039	369	235	1.369	0.190	0.128 0.511	0.265
Had 2+ sexual partners in past 12 months	0.013	0.004	982	630	1.049	0.297	0.005	0.020
Condom use at last sex Abstinence among young people (never had sex)	0.399 0.636	0.167 0.034	13 255	8 161	1.163 1.131	0.418 0.054	0.065 0.568	0.733 0.705
Discriminatory attitudes towards people with HIV	0.595	0.029	973	625	1.827	0.048	0.537	0.653
Prevalence of sickle cell disease among children 6-59 months	0.020	0.013	265	173	1.254	0.639	0.000	0.047
Total fertility rate (last 3 years)	4.873	0.262	2,769	1,780	1.271	0.054	4.348	5.397
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	39.228 25.481	7.769 5.150	1,203 1,200	785 783	1.030 1.076	0.198 0.202	23.689 15.182	54.766 35.781
Infant mortality (last 0-9 years)	64.709	9.068	1,204	786	1.010	0.140	46.574	82.844
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	23.138 86.349	5.308 7.062	1,154 1,209	746 789	1.082 0.766	0.229 0.082	12.523 72.226	33.753 100.473
		MEN						
Urban residence	0.203	0.047	274	185	1.920	0.231	0.109	0.297
Literacy No education	0.899 0.005	0.029 0.004	274 274	185 185	1.603 0.827	0.033 0.705	0.840 0.000	0.957 0.012
Secondary or higher education	0.840	0.026	274	185	1.152	0.030	0.789	0.891
Never married (in union) Currently married (in union)	0.491 0.504	0.039 0.039	274 274	185 185	1.282 1.273	0.079 0.077	0.414 0.427	0.569 0.581
Had first sexual intercourse before age 18	0.194	0.032	227	156	1.197	0.162	0.131	0.258
Knows any contraceptive method Knows any modern contraceptive method	1.000 1.000	0.000 0.000	139 139	93 93	0.000 0.000	0.000 0.000	1.000 1.000	1.000 1.000
Want no more children	0.337	0.050	139	93	1.235	0.148	0.238	0.437
Want to delay birth at least 2 years Ideal number of children	0.395 4.334	0.043 0.074	139 273	93 184	1.033 1.153	0.109 0.017	0.309 4.186	0.481 4.482
Had 2+ sexual partners in past 12 months	0.026	0.010	274	185	1.020	0.376	0.006	0.046
Condom use at last sex	0.549	0.235	7 87	5 59	1.128	0.427	0.080	1.018
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.537 0.035	0.056 0.010	87 274	59 185	1.033 0.856	0.104 0.272	0.426 0.016	0.648 0.054
Discriminatory attitudes towards people with HIV	0.378	0.041	273	184	1.407	0.110	0.295	0.461

Ownership of at least one ITN De facto population with access to an ITN Household population that slept under an ITN last night	Value (R) HOUSEI	Standard error (SE)	Un- weighted	Weighted	Design effect	Relative error	Lower	nce limits Upper
Ownership of at least one ITN De facto population with access to an ITN	(R)					error	Lower	Unnor
De facto population with access to an ITN	· ' '	(-)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
De facto population with access to an ITN		HOLDS AND F	` ′		(DEI I)	(OL/IT)	(ITZOL)	(111202
De facto population with access to an ITN	0.328	0.026	1,152	1,391	1.901	0.080	0.276	0.381
lousehold population that slept under an ITN last night	0.250	0.021	4,886	5,858	1.820	0.085	0.207	0.292
	0.182	0.017	4,886	5,858	1.483	0.091	0.149	0.215
		WOMEN						
Jrban residence	0.857	0.012	1,244	1,477	1.200	0.014	0.833	0.881
iteracy lo education	0.870 0.023	0.023 0.007	1,244 1,244	1,477 1,477	2.433 1.635	0.027 0.304	0.824 0.009	0.917 0.037
Secondary or higher education	0.023	0.007	1,244	1,477	2.242	0.304	0.009	0.861
lever married (never in union)	0.315	0.020	1,244	1,477	1.553	0.065	0.274	0.356
Currently married (in union)	0.613	0.024	1,244	1,477	1.717	0.039	0.565	0.660
Narried before age 18 Had sexual intercourse before age 18	0.146 0.289	0.015 0.020	1,025 1,025	1,228 1,228	1.359 1.410	0.103 0.069	0.116 0.249	0.176 0.329
Currently pregnant	0.082	0.010	1,244	1,477	1.332	0.127	0.061	0.103
(now any contraceptive method	0.997	0.002	746	905	1.175	0.002	0.992	1.002
Cnow a modern method Currently using any method	0.996 0.446	0.003 0.022	746 746	905 905	1.440 1.188	0.003 0.049	0.989 0.403	1.003 0.490
Currently using a modern method	0.172	0.016	746	905	1.155	0.093	0.140	0.204
Currently using pill	0.008	0.005	746	905	1.381	0.560	0.000	0.017
Currently using male condoms Currently using injectables	0.050 0.019	0.007 0.007	746 746	905 905	0.896 1.424	0.143 0.380	0.035 0.004	0.064 0.033
Currently using implants	0.019	0.007	746	905	1.134	0.360	0.004	0.033
Currently using female sterilisation	0.000	0.000	746	905	0.000	0.000	0.000	0.000
Currently using withdrawal Currently using rhythm	0.123 0.146	0.012 0.014	746 746	905 905	0.991 1.045	0.097 0.093	0.099 0.119	0.147 0.173
Using public sector source	0.140	0.052	138	165	1.236	0.093	0.119	0.173
Vant no more children	0.355	0.017	746	905	0.994	0.049	0.320	0.390
Vant to delay next birth at least 2 years	0.237	0.017	746	905	1.073	0.071	0.203	0.270
deal number of children Nothers protected against tetanus for last birth	4.601 0.934	0.070 0.014	1,242 546	1,475 664	2.150 1.290	0.015 0.015	4.461 0.907	4.740 0.961
Sirths with skilled attendant at delivery	0.913	0.022	856	1,045	1.796	0.024	0.869	0.957
Received 3+ doses of SP/Fansidar	0.434	0.021	348	430	0.809	0.049	0.392	0.477
reated with ORS Sought medical treatment for diarrhoea	0.689 0.918	0.083 0.055	29 29	31 31	0.920 1.030	0.121 0.060	0.522 0.807	0.856 1.029
Ever had vaccination card	0.928	0.027	179	221	1.421	0.029	0.874	0.982
Received BCG vaccination	0.918	0.027	179	221	1.347	0.030	0.863	0.973
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.737 0.873	0.054 0.033	179 179	221 221	1.637 1.323	0.073 0.037	0.630 0.807	0.844 0.938
Received birth dose polio 0 vaccination	0.873	0.039	179	221	1.595	0.045	0.794	0.952
Received polio vaccination (3 doses)	0.844	0.035	179	221	1.307	0.042	0.774	0.914
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.880 0.808	0.032 0.043	179 179	221 221	1.335 1.465	0.036 0.053	0.816 0.723	0.944 0.894
Received Illeasies i vaccination (12-23 months)	0.758	0.043	179	221	1.348	0.056	0.673	0.844
Received all age-appropriate vaccinations (12-23 months)	0.616	0.053	179	221	1.464	0.086	0.510	0.722
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.119 0.096	0.029 0.028	148 148	182 182	1.094 1.149	0.243 0.287	0.061 0.041	0.177 0.152
leight-for-age (-2SD)	0.096	0.028	445	537	1.149	0.267	0.103	0.132
Veight-for-height (-2SD)	0.023	0.007	446	540	0.932	0.288	0.010	0.036
Veight-for-age (-2SD)	0.066	0.015	446	540	1.185	0.226	0.036	0.095
8ody mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.042 0.531	0.011 0.033	381 381	451 451	1.087 1.306	0.268 0.063	0.019 0.464	0.064 0.598
Prevalence of anaemia (children 6-59 months)	0.752	0.027	395	473	1.149	0.036	0.698	0.805
Prevalence of malaria (based on microscopy test)	0.088	0.024	308	370	1.311	0.270	0.041	0.136
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.152 0.702	0.026 0.029	395 436	473 517	1.275 1.332	0.174 0.042	0.099 0.644	0.205 0.761
lad 2+ sexual partners in past 12 months	0.702	0.029	1,244	1,477	1.056	0.042	0.044	0.701
Condom use at last sex	0.128	0.106	11	12	1.005	0.829	0.000	0.341
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.614 0.651	0.033 0.026	300 1,227	340 1,454	1.175 1.873	0.054 0.039	0.547 0.600	0.680 0.702
Prevalence of sickle cell disease among children 6-59	0.001	0.020	1,441	1,404	1.073	0.008	0.000	0.702
months	0.009	0.004	395	473	0.932	0.500	0.000	0.017
otal fertility rate (last 3 years)	4.712	0.221	3,509	4,188	1.334	0.047	4.270	5.155
leonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	17.214 18.160	4.041 7.074	1,621 1,620	1,956 1,955	1.169 1.705	0.235 0.390	9.132 4.012	25.295 32.307
nfant mortality (last 0-9 years)	35.373	9.695	1,622	1,958	1.804	0.274	15.983	54.763
Child mortality (last 0-9 years)	23.775	8.857	1,573	1,892	1.668	0.373	6.061	41.488
Inder-5 mortality (last 0-9 years)	58.307	17.434	1,628	1,966	2.191	0.299	23.438	93.175
Irhan rasidanas	0.050	MEN	240	400	0.077	0.000	0.014	0.000
Jrban residence iteracy	0.852 0.891	0.019 0.014	342 342	409 409	0.977 0.851	0.022 0.016	0.814 0.863	0.889 0.920
lo education	0.007	0.004	342	409	0.880	0.577	0.000	0.015
Secondary or higher education	0.736	0.027	342	409	1.141	0.037	0.681	0.790
lever married (in union) Currently married (in union)	0.322 0.678	0.034 0.034	342 342	409 409	1.339 1.339	0.105 0.050	0.254 0.610	0.390 0.746
lad first sexual intercourse before age 18	0.078	0.034	292	352	1.477	0.220	0.075	0.194
(nows any contraceptive method	1.000	0.000	222	277	0.000	0.000	1.000	1.000
Knows any modern contraceptive method	1.000	0.000	222 222	277 277	0.000	0.000	1.000	1.000
Vant no more children Vant to delay birth at least 2 years	0.234 0.181	0.033 0.030	222	277 277	1.144 1.174	0.139 0.168	0.169 0.120	0.299 0.242
	4.718	0.076	341	407	1.011	0.016	4.565	4.870
deal number of children	0.095	0.023	342	409	1.429	0.239	0.050	0.141
lad 2+ sexual partners in past 12 months		0.445						
	0.531 0.681	0.115 0.055	29 77	39 87	1.209 1.033	0.216 0.081	0.301 0.571	0.761 0.792

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	1				
Ownership of at least one ITN	0.757	0.023	1,064	852	1.741	0.030	0.711	0.802
De facto population with access to an ITN Household population that slept under an ITN last night	0.583 0.616	0.024 0.027	5,292 5,292	4,268 4,268	1.890 1.926	0.042 0.044	0.534 0.562	0.631 0.670
		WOMEN	N					
Urban residence	0.849	0.022	1,310	1,027	2.259	0.026	0.805	0.894
Literacy No education	0.537 0.119	0.035 0.019	1,310 1,310	1,027 1,027	2.570 2.103	0.066 0.159	0.466 0.081	0.608 0.156
Secondary or higher education	0.537	0.038	1,310	1,027	2.726	0.070	0.461	0.612
Never married (never in union) Currently married (in union)	0.326 0.584	0.020 0.023	1,310 1,310	1,027 1,027	1.562 1.704	0.062 0.040	0.286 0.538	0.367 0.631
Married before age 18	0.261	0.019	1,025	804	1.398	0.074	0.222	0.299
Had sexual intercourse before age 18 Currently pregnant	0.484 0.088	0.024 0.010	1,025 1,310	804 1,027	1.529 1.291	0.049 0.115	0.436 0.068	0.532 0.108
Know any contraceptive method	0.974	0.006	756	600	0.996	0.006	0.963	0.986
Know a modern method Currently using any method	0.966 0.082	0.007 0.015	756 756	600 600	1.010 1.493	0.007 0.181	0.952 0.052	0.979 0.112
Currently using a modern method	0.059	0.011	756	600	1.228	0.178	0.038	0.081
Currently using pill Currently using male condoms	0.007 0.007	0.003 0.003	756 756	600 600	1.021 1.089	0.440 0.458	0.001 0.001	0.013 0.014
Currently using male condoms Currently using injectables	0.007	0.005	756	600	1.136	0.436	0.001	0.026
Currently using implants Currently using female sterilisation	0.026 0.000	0.006 0.000	756 756	600 600	1.029 0.000	0.231 0.000	0.014 0.000	0.038 0.000
Currently using withdrawal	0.016	0.006	756	600	1.236	0.350	0.005	0.028
Currently using rhythm Using public sector source	0.007 0.647	0.003 0.083	756 55	600 41	0.973 1.269	0.430 0.128	0.001 0.481	0.013 0.813
Want no more children	0.311	0.003	756	600	1.170	0.128	0.461	0.350
Want to delay next birth at least 2 years	0.253	0.021	756	600	1.308	0.082	0.212 5.542	0.295 6.233
Ideal number of children Mothers protected against tetanus for last birth	5.888 0.873	0.173 0.014	1,278 614	1,004 493	2.556 1.046	0.029 0.016	0.845	0.233
Births with skilled attendant at delivery	0.583	0.041	1,012	814	2.122	0.070	0.501	0.664
Received 3+ doses of SP/Fansidar Treated with ORS	0.242 0.406	0.022 0.067	371 96	298 80	1.002 1.290	0.092 0.166	0.198 0.272	0.286 0.541
Sought medical treatment for diarrhoea	0.546	0.067	96	80	1.280	0.122	0.413	0.680
Ever had vaccination card Received BCG vaccination	0.964 0.959	0.014 0.015	181 181	148 148	1.061 1.055	0.015 0.016	0.935 0.928	0.993 0.989
Received birth dose HepB vaccination	0.614	0.055	181	148	1.516	0.089	0.504	0.723
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.824 0.747	0.030 0.042	181 181	148 148	1.051 1.316	0.036 0.057	0.764 0.663	0.884 0.832
Received polio vaccination (3 doses)	0.664	0.035	181	148	0.998	0.053	0.594	0.734
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.815 0.643	0.032 0.037	181 181	148 148	1.087 1.040	0.039 0.058	0.751 0.568	0.878 0.718
Received all basic vaccinations (12-23 months)	0.448	0.043	181	148	1.166	0.096	0.362	0.535
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.276 0.272	0.045 0.046	181 191	148 154	1.340 1.425	0.162 0.170	0.186 0.180	0.365 0.365
Received all age-appropriate vaccinations (24-35 months)	0.122	0.036	191	154	1.459	0.293	0.050	0.193
Height-for-age (-2SD) Weight-for-height (-2SD)	0.252 0.045	0.024 0.009	488 487	392 391	1.165 0.871	0.097 0.199	0.203 0.027	0.301 0.064
Weight-for-age (-2SD)	0.158	0.018	488	392	1.002	0.117	0.121	0.195
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.092 0.207	0.020 0.028	392 392	304 304	1.337 1.349	0.214 0.134	0.052 0.152	0.131 0.263
Prevalence of anaemia (children 6-59 months)	0.793	0.025	444	356	1.234	0.031	0.744	0.843
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.305 0.493	0.041 0.039	350 444	283 356	1.563 1.538	0.133 0.080	0.224 0.414	0.387 0.572
Prevalence of anaemia (women 15-49)	0.717	0.025	451	350	1.158	0.034	0.667	0.766
Had 2+ sexual partners in past 12 months Condom use at last sex	0.008 0.070	0.002 0.068	1,310 13	1,027 8	0.957 0.922	0.297 0.965	0.003 0.000	0.013 0.205
Abstinence among young people (never had sex)	0.723	0.022	363	279	0.956	0.031	0.678	0.768
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.501	0.026	1,288	1,009	1.882	0.052	0.449	0.554
months	0.009	0.005	444	356	0.882	0.534	0.000	0.018
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	5.410 34.907	0.262 5.557	3,586 1,978	2,816 1,586	1.622 1.212	0.048 0.159	4.886 23.793	5.935 46.020
Postneonatal mortality (last 0-9 years)	21.939	3.751	1,976	1,587	1.005	0.171	14.436	29.442
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	56.846 36.242	6.691 5.388	1,981 1,955	1,589 1,569	1.142 1.186	0.118 0.149	43.464 25.466	70.227 47.019
Under-5 mortality (last 0-9 years)	91.028	9.238	1,991	1,597	1.238	0.101	72.552	109.504
		MEN						
Urban residence Literacy	0.843 0.824	0.031 0.024	297 297	233 233	1.475 1.088	0.037 0.029	0.781 0.776	0.906 0.872
No education	0.026	0.009	297	233	0.987	0.352	0.008	0.044
Secondary or higher education Never married (in union)	0.674 0.336	0.039 0.041	297 297	233 233	1.430 1.476	0.058 0.121	0.596 0.255	0.752 0.418
Currently married (in union)	0.660	0.042	297	233	1.519	0.063	0.577	0.744
Had first sexual intercourse before age 18 Knows any contraceptive method	0.301 0.985	0.035 0.010	220 192	174 154	1.122 1.168	0.116 0.010	0.231 0.964	0.371 1.006
Knows any modern contraceptive method	0.985	0.010	192	154	1.168	0.010	0.964	1.006
Want no more children Want to delay birth at least 2 years	0.131 0.553	0.027 0.025	192 192	154 154	1.103 0.694	0.205 0.045	0.077 0.503	0.185 0.603
Ideal number of children	6.510	0.218	295	231	1.181	0.033	6.074	6.946
Had 2+ sexual partners in past 12 months Condom use at last sex	0.091 0.494	0.019 0.101	297 26	233 21	1.137 1.012	0.209 0.205	0.053 0.291	0.129 0.696
Abstinence among young people (never had sex)	0.494	0.101	86	65	0.828	0.205	0.291	0.822
		0.010	297	233	1.305	0.555	0.000	0.039

/ariable		Number of cases						
able		Standard	Un-		Design	Relative		
	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE
	` '	HOLDS AND F	` ′		(: -)	(==::)	(**===)	(
Ownership of at least one ITN	0.383	0.020	1,047	870	1.314	0.052	0.344	0.423
De facto population with access to an ITN	0.269	0.016	4,095	3,460	1.301	0.058	0.238	0.301
lousehold population that slept under an ITN last night	0.199	0.017	4,095	3,460	1.498	0.086	0.165	0.234
		WOMEN						
Jrban residence	0.798	0.027	1,038	880	2.128	0.033	0.745	0.851
iteracy le advention	0.836 0.042	0.018 0.011	1,038	880 880	1.582 1.790	0.022 0.266	0.799 0.020	0.872 0.064
No education Secondary or higher education	0.042	0.011	1,038 1,038	880	1.790	0.200	0.020	0.833
Never married (never in union)	0.383	0.019	1,038	880	1.246	0.049	0.345	0.420
Currently married (in union)	0.520	0.021	1,038	880	1.372	0.041	0.478	0.563
Narried before age 18 Had sexual intercourse before age 18	0.199 0.266	0.023 0.024	830 830	714 714	1.686 1.564	0.118 0.090	0.152 0.218	0.246 0.314
Currently pregnant	0.066	0.009	1,038	880	1.168	0.137	0.048	0.084
Know any contraceptive method	0.887	0.017	534	458	1.247	0.019	0.852	0.921
Know a modern method Currently using any method	0.873 0.309	0.018 0.022	534 534	458 458	1.260 1.084	0.021 0.070	0.836 0.266	0.909 0.353
Currently using a modern method	0.176	0.016	534	458	0.977	0.092	0.143	0.208
Currently using pill	0.024	0.008	534	458	1.192	0.329	0.008	0.040
Currently using male condoms Currently using injectables	0.023 0.019	0.006 0.006	534 534	458 458	0.985 1.061	0.281 0.326	0.010 0.007	0.035 0.032
Currently using implants	0.019	0.000	534	458	1.313	0.320	0.007	0.032
Currently using female sterilisation	0.000	0.000	534	458	0.000	0.000	0.000	0.000
Currently using withdrawal	0.082 0.050	0.014 0.011	534 534	458 458	1.164 1.209	0.168 0.227	0.055 0.027	0.110 0.073
Currently using rhythm Jsing public sector source	0.030	0.011	129	112	1.240	0.227	0.027	0.436
Vant no more children	0.463	0.021	534	458	0.958	0.045	0.422	0.505
Vant to delay next birth at least 2 years	0.088	0.014	534	458	1.141	0.159	0.060	0.116
deal number of children Nothers protected against tetanus for last birth	5.010 0.890	0.072 0.014	1,035 363	876 317	1.842 0.835	0.014 0.015	4.866 0.863	5.155 0.917
Births with skilled attendant at delivery	0.899	0.031	561	486	2.035	0.034	0.838	0.961
Received 3+ doses of SP/Fansidar	0.239	0.038	205	183	1.295	0.159	0.163	0.315
reated with ORS Sought medical treatment for diarrhoea	0.261 0.643	0.068 0.118	21 21	18 18	0.710 1.050	0.262 0.183	0.125 0.408	0.398 0.878
Ever had vaccination card	0.890	0.044	97	87	1.404	0.049	0.803	0.978
Received BCG vaccination	0.925	0.035	97	87	1.328	0.038	0.855	0.995
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.869 0.809	0.058 0.048	97 97	87 87	1.706 1.216	0.066 0.059	0.754 0.713	0.984 0.905
Received birth dose polio 0 vaccination	0.866	0.046	97	87	1.338	0.053	0.775	0.957
Received polio vaccination (3 doses)	0.463	0.065	97	87	1.270	0.141	0.332	0.594
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.602 0.792	0.061 0.062	97 97	87 87	1.216 1.432	0.102 0.078	0.479 0.669	0.725 0.915
Received measies i vaccination (12-23 months)	0.732	0.002	97	87	1.502	0.205	0.003	0.514
Received all age-appropriate vaccinations (12-23 months)	0.199	0.044	97	87	1.097	0.221	0.111	0.287
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.270 0.036	0.050 0.017	129 129	106 106	1.250 1.020	0.185 0.478	0.170 0.002	0.370 0.070
Height-for-age (-2SD)	0.036	0.017	262	219	1.202	0.476	0.002	0.070
Veight-for-height (-2SD)	0.022	0.009	262	219	0.957	0.387	0.005	0.040
Veight-for-age (-2SD)	0.061	0.018	262	219	1.188	0.294	0.025	0.097
3ody mass index (BMI) <18.5 3ody mass index (BMI) ≥25	0.038 0.365	0.011 0.025	370 370	302 302	1.040 0.969	0.278 0.068	0.017 0.315	0.059 0.414
Prevalence of anaemia (children 6-59 months)	0.589	0.041	243	205	1.214	0.069	0.507	0.670
Prevalence of malaria (based on microscopy test)	0.174	0.045	187	162	1.443	0.256	0.085	0.263
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.302 0.602	0.050 0.024	243 399	205 324	1.500 0.941	0.167 0.039	0.201 0.555	0.402 0.650
Had 2+ sexual partners in past 12 months	0.002	0.024	1,038	880	1.187	0.039	0.004	0.030
Condom use at last sex	0.282	0.136	15	11	1.119	0.482	0.010	0.553
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.664 0.593	0.034 0.020	304 1,021	247 862	1.247 1.296	0.051 0.034	0.596 0.554	0.732 0.633
Prevalence of sickle cell disease among children 6-59	0.033	0.020	1,0∠1	002	1.230	0.004	0.004	0.033
months	0.012	0.008	243	205	1.203	0.704	0.000	0.028
otal fertility rate (last 3 years)	4.050	0.252	2,919	2,481	1.260	0.062	3.545	4.555
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	21.028 19.362	5.640 4.584	1,121 1,124	972 974	1.204 1.214	0.268 0.237	9.749 10.194	32.307 28.531
nfant mortality (last 0-9 years)	40.390	7.529	1,122	974	1.234	0.186	25.331	55.448
Child mortality (last 0-9 years)	21.716	3.641	1,123	970	0.846	0.168	14.434	28.997
Jnder-5 mortality (last 0-9 years)	61.228	8.909	1,126	977	1.190	0.146	43.410	79.046
Irban rasidanas	0.700	MEN	004	400	1 557	0.050	0.745	0.000
Jrban residence iteracy	0.799 0.902	0.042 0.021	224 224	192 192	1.557 1.046	0.052 0.023	0.715 0.860	0.883 0.943
lo education	0.025	0.011	224	192	1.059	0.440	0.003	0.048
Secondary or higher education	0.758	0.035	224	192	1.204	0.046	0.689	0.827
Never married (in union) Currently married (in union)	0.476 0.524	0.040 0.040	224 224	192 192	1.195 1.195	0.084 0.076	0.396 0.444	0.556 0.604
Had first sexual intercourse before age 18	0.324	0.040	176	152	1.428	0.295	0.049	0.004
Knows any contraceptive method	1.000	0.000	118	101	0.000	0.000	1.000	1.000
	1.000	0.000	118	101 101	0.000	0.000	1.000	1.000
Knows any modern contraceptive method		0.055	118	101	1.356	0.212	0.150	0.371
Knows any modern contraceptive method Vant no more children	0.260 0.046	0.028	118	101	1.432	บ.ธบธ	0.000	0.102
Knows any modern contraceptive method Vant no more children Vant to delay birth at least 2 years deal number of children	0.046 4.777	0.028 0.104	118 220	101 189	1.432 1.080	0.606 0.022	0.000 4.569	0.102 4.986
Knows any modern contraceptive method Vant no more children Vant to delay birth at least 2 years deal number of children Had 2+ sexual partners in past 12 months	0.046 4.777 0.042	0.104 0.015	220 224	189 192	1.080 1.120	0.022 0.360	4.569 0.012	4.986 0.072
Knows any modern contraceptive method Vant no more children Vant to delay birth at least 2 years deal number of children	0.046 4.777	0.104	220	189	1.080	0.022	4.569	4.986

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N) POPULATION	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ownership of at least one ITN	0.554	0.028	1,088	974	1.841	0.050	0.499	0.610
De facto population with access to an ITN	0.451	0.036	4,679	4,222	2.383	0.080	0.379	0.524
Household population that slept under an ITN last night	0.248	0.049	4,679	4,222	3.735	0.197	0.150	0.346
Urban residence	0.683	0.050	997	948	3.380	0.073	0.583	0.783
Literacy	0.852	0.027	997	948	2.372	0.031	0.798	0.905
No education Secondary or higher education	0.005 0.912	0.002 0.014	997 997	948 948	0.926 1.555	0.410 0.015	0.001 0.884	0.009 0.940
Never married (never in union)	0.336	0.019	997	948	1.289	0.057	0.297	0.375
Currently married (in union)	0.585 0.082	0.016 0.013	997 821	948 771	1.013 1.323	0.027 0.155	0.553 0.056	0.616 0.107
Married before age 18 Had sexual intercourse before age 18	0.062	0.013	821	771	1.896	0.107	0.030	0.107
Currently pregnant	0.086	0.016	997	948	1.751	0.181	0.055	0.117
Know any contraceptive method Know a modern method	1.000 1.000	0.000 0.000	590 590	554 554	0.000 0.000	0.000 0.000	1.000 1.000	1.000 1.000
Currently using any method	0.307	0.025	590	554	1.307	0.081	0.257	0.357
Currently using a modern method Currently using pill	0.109 0.017	0.019 0.006	590 590	554 554	1.458 1.059	0.172 0.327	0.072 0.006	0.147 0.029
Currently using male condoms	0.026	0.009	590	554	1.304	0.330	0.009	0.043
Currently using injectables Currently using implants	0.013 0.016	0.005 0.005	590 590	554 554	0.990 1.026	0.354 0.333	0.004 0.005	0.022 0.026
Currently using implants Currently using female sterilisation	0.016	0.005	590	554	0.833	1.019	0.000	0.003
Currently using withdrawal Currently using rhythm	0.108 0.084	0.012 0.019	590 590	554 554	0.949 1.638	0.112 0.223	0.084 0.047	0.133 0.122
Using public sector source	0.064	0.019	100	92	1.036	0.223	0.047	0.122
Want no more children	0.321	0.024	590	554	1.256	0.075	0.273	0.370
Want to delay next birth at least 2 years Ideal number of children	0.262 4.678	0.023 0.094	590 988	554 941	1.245 1.781	0.086 0.020	0.217 4.491	0.307 4.865
Mothers protected against tetanus for last birth	0.969	0.008	441	405	0.976	0.008	0.953	0.985
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.942 0.320	0.013 0.031	728 256	657 237	1.245 1.073	0.014 0.097	0.917 0.258	0.968 0.383
Treated with ORS	0.402	0.081	65	54	1.198	0.201	0.241	0.564
Sought medical treatment for diarrhoea	0.483 0.913	0.076	65 134	54 117	1.131	0.157 0.032	0.331	0.635 0.970
Ever had vaccination card Received BCG vaccination	0.913	0.029 0.025	134	117	1.156 1.013	0.032	0.855 0.878	0.976
Received birth dose HepB vaccination	0.827	0.042	134	117	1.224	0.051	0.743	0.911
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.795 0.855	0.054 0.038	134 134	117 117	1.428 1.176	0.068 0.044	0.687 0.780	0.904 0.930
Received polio vaccination (3 doses)	0.709	0.059	134	117	1.419	0.084	0.590	0.828
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.763 0.713	0.060 0.055	134 134	117 117	1.505 1.339	0.078 0.077	0.644 0.604	0.882 0.822
Received all basic vaccinations (12-23 months)	0.626	0.069	134	117	1.555	0.109	0.489	0.763
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.534 0.202	0.082 0.082	134 128	117 118	1.823 2.320	0.154 0.409	0.369 0.037	0.698 0.367
Received all age-appropriate vaccinations (24-35 months)	0.178	0.083	128	118	2.439	0.465	0.013	0.343
Height-for-age (-2SD)	0.176	0.034	359	330	1.594	0.192	0.108	0.243
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.069 0.109	0.013 0.025	358 359	329 330	0.911 1.388	0.187 0.231	0.043 0.059	0.095 0.159
Body mass index (BMI) <18.5	0.036	0.009	393	355	0.959	0.256	0.018	0.055
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.439 0.592	0.026 0.058	393 323	355 289	0.994 1.944	0.058 0.097	0.388 0.477	0.490 0.707
Prevalence of malaria (based on microscopy test)	0.078	0.027	235	213	1.307	0.346	0.024	0.132
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.156 0.646	0.031 0.037	319 436	285 396	1.426 1.578	0.199 0.057	0.094 0.572	0.218 0.720
Had 2+ sexual partners in past 12 months	0.028	0.005	997	948	0.866	0.161	0.019	0.038
Condom use at last sex Abstinence among young people (never had sex)	0.287 0.702	0.096 0.062	26 236	27 231	1.054 2.064	0.333 0.088	0.096 0.578	0.478 0.826
Discriminatory attitudes towards people with HIV	0.786	0.002	985	938	1.915	0.032	0.735	0.836
Prevalence of sickle cell disease among children 6-59 months	0.014	0.007	323	289	1.037	0.488	0.000	0.027
Total fertility rate (last 3 years)	4.535	0.232	2,807	2,662	1.022	0.051	4.072	4.998
Neonatal mortality (last 0-9 years)	26.993 26.566	4.815 4.974	1,388 1,385	1,230	1.027 1.024	0.178 0.187	17.363 16.617	36.624 36.514
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	26.566 53.559	4.974 7.528	1,385	1,221 1,231	1.024	0.187	38.504	68.615
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	35.347 87.013	5.861 11.615	1,372 1,398	1,198 1,237	1.018 1.404	0.166 0.133	23.626 63.784	47.069 110.242
Citati o mortainy (idot 0-5 years)	07.010	MEN	1,000	1,201	1.704	0.100	00.704	110.242
Urban residence	0.645	0.050	372	337	2.004	0.078	0.545	0.745
Literacy No education	0.830 0.026	0.027 0.015	372 372	337 337	1.357 1.834	0.032 0.584	0.777 0.000	0.883 0.056
Secondary or higher education	0.904	0.028	372	337	1.836	0.031	0.848	0.961
Never married (in union) Currently married (in union)	0.477 0.512	0.048 0.050	372 372	337 337	1.856 1.910	0.101 0.097	0.380 0.413	0.573 0.612
Had first sexual intercourse before age 18	0.512	0.050	291	266	1.198	0.225	0.413	0.612
Knows any contraceptive method	1.000	0.000	179	172	0.000	0.000	1.000	1.000
Knows any modern contraceptive method Want no more children	1.000 0.282	0.000 0.043	179 179	172 172	0.000 1.275	0.000 0.153	1.000 0.196	1.000 0.368
Want to delay birth at least 2 years	0.143	0.045	179	172	1.721	0.318	0.052	0.233
Ideal number of children Had 2+ sexual partners in past 12 months	3.755 0.171	0.142 0.022	360 372	325 337	1.459 1.120	0.038 0.128	3.472 0.127	4.039 0.214
Condom use at last sex	0.423	0.089	58	57	1.351	0.210	0.245	0.601
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.726 0.050	0.048 0.014	117 372	97 337	1.159 1.208	0.066 0.274	0.630 0.022	0.822 0.077
Discriminatory attitudes towards people with HIV	0.050	0.014	372 372	337 337	1.208	0.274	0.022	0.077

			Number	of cases			Confidence limits		
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper	
Variable	value (R)	error (SE)	weighted (N)	(WN)	eπect (DEFT)	(SE/R)	(R-2SE)	(R+2SE	
	HOUSE	HOLDS AND I	POPULATION	1		· ·			
Ownership of at least one ITN	0.558	0.047	1,078	1,048	3.095	0.084	0.464	0.652	
De facto population with access to an ITN	0.480	0.043	3,990	3,891	2.943	0.090	0.393	0.566	
Household population that slept under an ITN last night	0.259	0.027	3,990	3,891	2.099	0.105	0.205	0.313	
		WOMEN							
Urban residence Literacy	0.097 0.806	0.019 0.022	958 958	948 948	1.979 1.736	0.195 0.028	0.059 0.761	0.135 0.850	
No education	0.029	0.006	958	948	1.190	0.224	0.016	0.042	
Secondary or higher education	0.768	0.021	958	948	1.563	0.028	0.726	0.811	
Never married (never in union) Currently married (in union)	0.380 0.517	0.021 0.019	958 958	948 948	1.342 1.177	0.055 0.037	0.337 0.479	0.422 0.555	
Married before age 18	0.237	0.019	777	770	1.277	0.082	0.198	0.276	
Had sexual intercourse before age 18 Currently pregnant	0.540 0.059	0.039 0.007	777 958	770 948	2.169 0.937	0.072 0.121	0.462 0.045	0.618 0.073	
Know any contraceptive method	0.993	0.007	508	490	0.918	0.003	0.987	1.000	
Know a modern method	0.993	0.003	508	490	0.918	0.003	0.987	1.000	
Currently using any method Currently using a modern method	0.198 0.157	0.022 0.019	508 508	490 490	1.244 1.187	0.111 0.122	0.154 0.119	0.242 0.196	
Currently using pill	0.030	0.008	508	490	1.047	0.265	0.014	0.046	
Currently using male condoms Currently using injectables	0.041 0.038	0.010 0.010	508 508	490 490	1.101 1.163	0.237 0.259	0.021 0.018	0.060 0.058	
Currently using implants	0.030	0.008	508	490	1.079	0.271	0.014	0.047	
Currently using female sterilisation	0.000	0.000	508	490	0.000	0.000	0.000	0.000	
Currently using withdrawal Currently using rhythm	0.009 0.029	0.004 0.011	508 508	490 490	1.057 1.530	0.491 0.393	0.000 0.006	0.018 0.052	
Using public sector source	0.276	0.043	119	125	1.049	0.156	0.190	0.362	
Want no more children	0.360	0.023	508	490	1.077	0.064	0.314	0.406	
Want to delay next birth at least 2 years Ideal number of children	0.247 4.437	0.028 0.082	508 951	490 941	1.451 1.598	0.113 0.018	0.191 4.274	0.302 4.600	
Mothers protected against tetanus for last birth	0.695	0.032	384	360	1.359	0.046	0.631	0.759	
Births with skilled attendant at delivery	0.392 0.165	0.047	564 228	522 216	1.885	0.121	0.297	0.486	
Received 3+ doses of SP/Fansidar Treated with ORS	0.103	0.039 0.084	43	39	1.580 1.083	0.236 0.274	0.087 0.139	0.243 0.477	
Sought medical treatment for diarrhoea	0.574	0.091	43	39	1.109	0.158	0.393	0.755	
Ever had vaccination card Received BCG vaccination	0.848 0.841	0.033 0.040	123 123	118 118	1.028 1.224	0.039 0.048	0.782 0.760	0.914 0.921	
Received birth dose HepB vaccination	0.679	0.059	123	118	1.390	0.086	0.562	0.796	
Received DPT-HepB-Hib vaccination (3 doses)	0.622	0.045	123	118	1.023	0.072	0.533	0.712	
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.629 0.585	0.056 0.047	123 123	118 118	1.279 1.057	0.089 0.080	0.517 0.491	0.740 0.679	
Received pneumococcal vaccination (3 doses)	0.604	0.041	123	118	0.934	0.068	0.521	0.686	
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.635 0.420	0.047 0.051	123 123	118 118	1.078 1.135	0.074 0.121	0.541 0.319	0.729 0.522	
Received all age-appropriate vaccinations (12-23 months)	0.420	0.051	123	118	1.133	0.121	0.319	0.322	
Received measles 2 vaccination	0.232	0.045	83	77	0.968	0.196	0.141	0.322	
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.040 0.196	0.030 0.028	83 254	77 236	1.354 1.052	0.735 0.146	0.000 0.139	0.099 0.252	
Weight-for-height (-2SD)	0.042	0.012	254	236	0.845	0.287	0.018	0.067	
Weight-for-age (-2SD)	0.089	0.018	254	236	0.958	0.207	0.052	0.126	
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.060 0.420	0.014 0.032	321 321	314 314	1.063 1.152	0.236 0.076	0.032 0.356	0.089 0.484	
Prevalence of anaemia (children 6-59 months)	0.747	0.035	233	216	1.205	0.047	0.677	0.816	
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.232 0.332	0.044 0.036	161 233	149 216	1.183 1.080	0.191 0.109	0.144 0.260	0.321 0.405	
Prevalence of maiaria (based of rapid test)	0.532	0.030	255 354	339	1.119	0.109	0.200	0.403	
Had 2+ sexual partners in past 12 months	0.034	0.007	958	948	1.262	0.219	0.019	0.048	
Condom use at last sex Abstinence among young people (never had sex)	0.128 0.496	0.064 0.036	29 258	32 263	1.012 1.159	0.500 0.073	0.000 0.424	0.256 0.569	
Discriminatory attitudes towards people with HIV	0.611	0.020	935	922	1.278	0.033	0.570	0.652	
Prevalence of sickle cell disease among children 6-59	0.012	0.007	222	216	0.049	0.561	0.000	0.027	
months Total fertility rate (last 3 years)	0.013 3.550	0.007 0.270	233 2,732	216 2,707	0.948 1.508	0.561 0.076	0.000 3.011	0.027 4.089	
Neonatal mortality (last 0-9 years)	36.843	6.882	1,055	974	1.047	0.187	23.079	50.607	
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	33.491 70.334	5.647 10.259	1,055 1,056	975 976	0.980 1.140	0.169 0.146	22.197 49.816	44.785 90.852	
Child mortality (last 0-9 years)	30.229	5.701	1,051	970	0.993	0.189	18.826	41.631	
Under-5 mortality (last 0-9 years)	98.437	13.151	1,062	982	1.276	0.134	72.134	124.739	
	:	MEN				0.55-			
Jrban residence Literacy	0.071 0.755	0.024 0.041	289 289	291 291	1.562 1.609	0.335 0.054	0.023 0.673	0.118 0.837	
No education	0.733	0.041	289	291	1.238	0.347	0.073	0.037	
Secondary or higher education	0.802	0.033	289	291	1.418	0.042	0.735	0.869	
Never married (in union) Currently married (in union)	0.478 0.505	0.036 0.035	289 289	291 291	1.236 1.201	0.076 0.070	0.405 0.434	0.551 0.576	
Had first sexual intercourse before age 18	0.132	0.029	235	243	1.318	0.221	0.074	0.191	
Knows any contraceptive method	1.000	0.000	146	147	0.000	0.000	1.000	1.000	
Knows any modern contraceptive method Want no more children	0.984 0.349	0.016 0.049	146 146	147 147	1.523 1.223	0.016 0.139	0.951 0.252	1.016 0.447	
Want to delay birth at least 2 years	0.263	0.037	146	147	1.006	0.140	0.189	0.336	
Ideal number of children	4.323	0.154	277	281	1.365	0.036	4.016	4.631	
Had 2+ sexual partners in past 12 months Condom use at last sex	0.069 0.656	0.013 0.124	289 20	291 20	0.862 1.131	0.187 0.189	0.043 0.408	0.094 0.905	
Abstinence among young people (never had sex)	0.550	0.053	89	84	0.993	0.096	0.445	0.655	
Had paid sex in past 12 months	0.018 0.382	0.008 0.037	289 285	291 289	0.965 1.298	0.419 0.098	0.003 0.307	0.033 0.457	

·			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
value	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ournership of at least one ITN			POPULATION	404	1.054	0.062	0.412	0.520
Ownership of at least one ITN De facto population with access to an ITN	0.472 0.324	0.029 0.024	1,004 3,766	1,507	1.854 1.768	0.062 0.074	0.413 0.276	0.530 0.372
Household population that slept under an ITN last night	0.292	0.026	3,766	1,507	1.813	0.091	0.239	0.345
I lebon recidence	0.227	WOME		200	2.502	0.424	0.220	0.415
Urban residence Literacy	0.327 0.752	0.044 0.020	771 771	298 298	2.592 1.290	0.134 0.027	0.239 0.712	0.415 0.792
No education Secondary or higher education	0.097 0.736	0.013 0.025	771 771	298 298	1.236 1.557	0.136 0.034	0.071 0.687	0.123 0.786
Never married (never in union)	0.730	0.025	771	298	1.182	0.066	0.067	0.786
Currently married (in union)	0.652 0.362	0.022 0.019	771 637	298 248	1.303 0.976	0.034 0.051	0.607 0.324	0.697 0.399
Married before age 18 Had sexual intercourse before age 18	0.362	0.019	637	248 248	1.440	0.031	0.632	0.399
Currently pregnant	0.082	0.011	771	298	1.104	0.133	0.060	0.104
Know any contraceptive method Know a modern method	0.898 0.887	0.020 0.020	503 503	195 195	1.494 1.432	0.022 0.023	0.858 0.847	0.939 0.928
Currently using any method	0.037	0.008	503	195	0.964	0.221	0.020	0.053
Currently using a modern method Currently using pill	0.033 0.004	0.008 0.003	503 503	195 195	1.027 0.908	0.247 0.644	0.017 0.000	0.050 0.009
Currently using male condoms	0.009	0.004	503	195	0.986	0.471	0.001	0.017
Currently using injectables Currently using implants	0.002 0.019	0.002 0.006	503 503	195 195	0.887 1.006	0.994 0.322	0.000 0.007	0.005 0.031
Currently using female sterilisation	0.000	0.000	503	195	0.000	0.000	0.000	0.000
Currently using withdrawal Currently using rhythm	0.003 0.000	0.003 0.000	503 503	195 195	1.266 0.000	0.976 0.000	0.000 0.000	0.010 0.000
Using public sector source	0.000	0.000	24	195	1.257	0.000	0.000	0.642
Want no more children	0.310	0.022	503	195	1.074	0.071	0.266	0.355
Want to delay next birth at least 2 years Ideal number of children	0.130 4.908	0.017 0.077	503 770	195 298	1.144 1.360	0.132 0.016	0.096 4.753	0.165 5.062
Mothers protected against tetanus for last birth	0.522	0.050	375	144	1.930	0.095	0.423	0.622
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.251 0.072	0.058 0.019	570 228	217 87	2.596 1.122	0.230 0.268	0.135 0.033	0.366 0.110
Treated with ORS	0.774	0.150	7	3	0.933	0.193	0.474	1.073
Sought medical treatment for diarrhoea Ever had vaccination card	0.690 0.618	0.188 0.050	7 123	3 50	1.060 1.165	0.273 0.081	0.314 0.518	1.066 0.718
Received BCG vaccination	0.655	0.054	123	50	1.288	0.082	0.547	0.764
Received birth dose HepB vaccination	0.593 0.545	0.048 0.048	123 123	50 50	1.107 1.105	0.081 0.089	0.497 0.449	0.689 0.642
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.545	0.046	123	50	1.103	0.069	0.449	0.685
Received polio vaccination (3 doses)	0.257	0.040	123	50	1.034	0.154	0.178	0.337
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.490 0.713	0.051 0.045	123 123	50 50	1.151 1.117	0.103 0.063	0.389 0.623	0.591 0.802
Received all basic vaccinations (12-23 months)	0.180	0.046	123	50	1.361	0.255	0.088	0.271
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.124 0.287	0.038 0.047	123 104	50 38	1.309 1.017	0.305 0.165	0.048 0.192	0.199 0.382
Received all age-appropriate vaccinations (24-35 months)	0.032	0.016	104	38	0.891	0.491	0.001	0.063
Height-for-age (-2SD) Weight-for-height (-2SD)	0.249 0.013	0.029 0.007	282 286	105 106	1.022 1.081	0.117 0.570	0.191 0.000	0.307 0.028
Weight-for-age (-2SD)	0.134	0.023	286	106	1.037	0.174	0.087	0.181
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.065 0.362	0.018 0.041	275 275	102 102	1.164 1.381	0.271 0.113	0.030 0.281	0.101 0.444
Prevalence of anaemia (children 6-59 months)	0.674	0.033	260	98	1.051	0.049	0.608	0.740
Prevalence of malaria (based on microscopy test)	0.125 0.301	0.023 0.037	195 259	74 97	0.945 1.162	0.181 0.123	0.080 0.227	0.170
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.584	0.037	309	117	1.328	0.123	0.227	0.375 0.659
Had 2+ sexual partners in past 12 months	0.015	0.005	771	298	1.048	0.307	0.006	0.024
Condom use at last sex Abstinence among young people (never had sex)	0.000 0.605	0.000 0.043	12 164	4 63	0.000 1.132	0.000 0.072	0.000 0.518	0.000 0.692
Discriminatory attitudes towards people with HIV	0.127	0.015	677	267	1.154	0.117	0.097	0.156
Prevalence of sickle cell disease among children 6-59 months	0.011	0.006	260	98	0.894	0.545	0.000	0.023
Total fertility rate (last 3 years)	4.447	0.282	2,185	847	1.268	0.063	3.883	5.011
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	12.634 9.877	3.977 3.223	1,075 1,077	413 413	1.014 0.921	0.315 0.326	4.680 3.431	20.587 16.323
Infant mortality (last 0-9 years)	22.510	4.968	1,077	414	0.880	0.221	12.574	32.447
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	8.323 30.646	2.821 6.445	1,062 1,078	413 414	1.002 1.006	0.339 0.210	2.681 17.756	13.966 43.537
		MEN						
Urban residence	0.314	0.060	273	109	2.113	0.190	0.195	0.434
Literacy No education	0.982 0.020	0.008 0.010	273 273	109 109	1.017 1.136	0.008 0.481	0.966 0.001	0.999 0.039
Secondary or higher education	0.918	0.021	273	109	1.255	0.023	0.876	0.960
Never married (in union) Currently married (in union)	0.398 0.550	0.048 0.045	273 273	109 109	1.608 1.499	0.120 0.082	0.302 0.459	0.493 0.640
Had first sexual intercourse before age 18	0.470	0.035	221	88	1.038	0.074	0.400	0.540
Knows any contraceptive method Knows any modern contraceptive method	1.000 1.000	0.000 0.000	155 155	60 60	0.000 0.000	0.000 0.000	1.000 1.000	1.000 1.000
Want no more children	0.208	0.035	155	60	1.071	0.168	0.138	0.278
Want to delay birth at least 2 years Ideal number of children	0.330 6.236	0.043 0.216	155 271	60 108	1.123 1.528	0.129 0.035	0.245 5.804	0.415 6.669
Had 2+ sexual partners in past 12 months	0.203	0.020	273	109	0.818	0.098	0.163	0.243
Condom use at last sex Abstinence among young people (never had sex)	0.325 0.478	0.061 0.053	58 79	22 31	0.978 0.938	0.186 0.111	0.204 0.372	0.447 0.584
Had paid sex in past 12 months	0.066	0.016	273	109	1.071	0.245	0.372	0.098
Discriminatory attitudes towards people with HIV	0.796	0.036	270	108	1.464	0.045	0.724	0.868

			Number	of cases			Confidence limits		
Variable	Value	Standard	Un-	Maightad	Design	Relative	Lower	Unnor	
variable	(R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE	
	HOUSE	HOLDS AND F	POPULATION	١					
Ownership of at least one ITN	0.575	0.034	999	739	2.166	0.059	0.507	0.643	
De facto population with access to an ITN	0.437	0.031	3,107	2,335	2.133	0.072	0.374	0.499	
Household population that slept under an ITN last night	0.396	0.037	3,107	2,335	2.294	0.092	0.322	0.469	
		WOMEN							
Jrban residence Literacy	0.211 0.736	0.044 0.028	748 748	574 574	2.960 1.709	0.210 0.037	0.122 0.681	0.300 0.791	
No education	0.730	0.028	748	574 574	1.199	0.037	0.039	0.791	
Secondary or higher education	0.755	0.025	748	574	1.588	0.033	0.705	0.805	
Never married (never in union) Currently married (in union)	0.354 0.554	0.024 0.025	748 748	574 574	1.371 1.368	0.068 0.045	0.306 0.504	0.402 0.603	
Married before age 18	0.243	0.023	616	471	1.373	0.043	0.195	0.290	
Had sexual intercourse before age 18	0.551	0.036	616	471	1.787	0.065	0.479	0.623	
Currently pregnant Know any contraceptive method	0.043 1.000	0.007 0.000	748 422	574 318	0.938 0.000	0.162 0.000	0.029 1.000	0.057 1.000	
Know any contraceptive method Know a modern method	0.998	0.002	422	318	0.000	0.000	0.994	1.000	
Currently using any method	0.200	0.027	422	318	1.391	0.136	0.146	0.255	
Currently using a modern method	0.189 0.019	0.027 0.008	422 422	318 318	1.410 1.214	0.143 0.431	0.135 0.003	0.243 0.034	
Currently using pill Currently using male condoms	0.019	0.005	422	318	1.093	0.431	0.003	0.034	
Currently using injectables	0.034	0.015	422	318	1.712	0.445	0.004	0.065	
Currently using implants	0.115	0.022	422	318	1.382	0.187	0.072	0.159	
Currently using female sterilisation Currently using withdrawal	0.003 0.009	0.003 0.005	422 422	318 318	1.159 1.047	0.987 0.537	0.000 0.000	0.010 0.019	
Currently using rhythm	0.003	0.003	422	318	0.770	0.736	0.000	0.006	
Using public sector source	0.750	0.056	111	86	1.350	0.075	0.638	0.862	
Want no more children Want to delay next birth at least 2 years	0.266 0.131	0.023 0.015	422 422	318 318	1.063 0.931	0.086 0.117	0.220 0.100	0.312 0.161	
Ideal number of children	4.505	0.075	715	549	1.342	0.017	4.354	4.655	
Mothers protected against tetanus for last birth	0.713	0.038	312	231	1.461	0.053	0.638	0.789	
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.562 0.326	0.055 0.040	428 159	318 117	1.872 1.061	0.098 0.122	0.452 0.247	0.672 0.406	
Treated with ORS	0.526	0.120	17	13	1.040	0.122	0.247	0.400	
Sought medical treatment for diarrhoea	0.881	0.074	17	13	0.964	0.083	0.734	1.028	
Ever had vaccination card	0.903	0.042	75 75	53	1.198	0.047	0.819	0.987	
Received BCG vaccination Received birth dose HepB vaccination	0.888 0.600	0.050 0.073	75 75	53 53	1.326 1.244	0.056 0.122	0.789 0.454	0.988 0.746	
Received DPT-HepB-Hib vaccination (3 doses)	0.641	0.071	75	53	1.255	0.110	0.499	0.782	
Received birth dose polio 0 vaccination	0.548	0.098	75	53	1.671	0.178	0.353	0.744	
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.556 0.637	0.055 0.076	75 75	53 53	0.921 1.318	0.099 0.119	0.447 0.485	0.666 0.788	
Received measles 1 vaccination	0.641	0.076	75	53	1.322	0.118	0.489	0.792	
Received all basic vaccinations (12-23 months)	0.460	0.062	75	53	1.065	0.135	0.335	0.584	
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.244 0.159	0.062 0.041	75 87	53 67	1.219 1.067	0.256 0.260	0.119 0.076	0.369 0.242	
Received measies 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.139	0.041	87	67	1.007	0.200	0.076	0.242	
Height-for-age (-2SD)	0.229	0.042	164	121	1.224	0.183	0.145	0.313	
Weight-for-height (-2SD)	0.050	0.021	163	121	1.257	0.424	0.008	0.092	
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.118 0.053	0.034 0.020	164 271	121 212	1.218 1.497	0.293 0.382	0.049 0.013	0.187 0.093	
Body mass index (BMI) ≥25	0.348	0.028	271	212	0.979	0.081	0.292	0.404	
Prevalence of anaemia (children 6-59 months)	0.698	0.043	140	105	1.115	0.062	0.611	0.784	
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.195 0.264	0.064 0.058	97 140	71 105	1.384 1.495	0.328 0.219	0.067 0.148	0.322 0.380	
Prevalence of malana (based of rapid test)	0.461	0.038	291	227	1.308	0.082	0.385	0.537	
Had 2+ sexual partners in past 12 months	0.018	0.006	748	574	1.206	0.330	0.006	0.029	
Condom use at last sex Abstinence among young people (never had sex)	0.197 0.450	0.113 0.038	15 191	10 152	1.058 1.061	0.574 0.085	0.000 0.373	0.422 0.526	
Discriminatory attitudes towards people with HIV	0.430	0.038	736	565	1.285	0.005	0.373	0.320	
Prevalence of sickle cell disease among children 6-59									
months	0.000	0.000	140	105	0.000	0.000	0.000	0.000 4.352	
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	3.731 32.429	0.310 6.372	2,115 861	1,613 633	1.259 0.953	0.083 0.197	3.110 19.684	45.173	
Postneonatal mortality (last 0-9 years)	27.247	4.839	859	632	0.819	0.178	17.569	36.924	
Infant mortality (last 0-9 years)	59.675	7.666	861	633	0.877	0.128	44.344	75.006	
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	21.493 79.886	7.661 11.520	848 865	623 635	1.249 1.018	0.356 0.144	6.171 56.846	36.816 102.926	
7 V - 7 - 7 - 7 - 7 - 7 - 7		MEN				-			
Urban residence	0.203	0.046	182	137	1.529	0.226	0.111	0.295	
Literacy	0.878	0.026	182	137	1.088	0.030	0.825	0.931	
No education Secondary or higher education	0.041 0.844	0.014 0.032	182 182	137 137	0.916 1.191	0.327 0.038	0.014 0.780	0.069 0.908	
Secondary or nigher education Never married (in union)	0.844	0.032	182	137 137	1.191	0.038	0.780	0.908	
Currently married (in union)	0.534	0.045	182	137	1.219	0.085	0.443	0.624	
Had first sexual intercourse before age 18	0.469	0.035	154	115	0.859	0.074	0.400	0.538	
Knows any contraceptive method Knows any modern contraceptive method	0.993 0.993	0.007 0.007	97 97	73 73	0.850 0.850	0.007 0.007	0.978 0.978	1.007 1.007	
Want no more children	0.303	0.007	97	73	1.200	0.007	0.978	0.416	
Want to delay birth at least 2 years	0.146	0.036	97	73	1.003	0.248	0.074	0.218	
ldeal number of children Had 2+ sexual partners in past 12 months	4.617 0.049	0.149 0.017	179 182	135 137	1.021 1.041	0.032 0.342	4.319 0.015	4.914 0.082	
Condom use at last sex	0.049	0.017	9	7	1.041	0.342	0.015	0.062	
Abstinence among young people (never had sex)	0.651	0.067	49	37	0.968	0.102	0.518	0.785	
Had paid sex in past 12 months	0.032	0.013	182	137	0.984	0.401	0.006	0.058	

			Number	of cases			Confide	nce limits
V	Malua	Standard	Un-	\\/-:- -t	Design	Relative	1	Hanna
Variable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE)
	HOUSE	HOLDS AND	POPULATION	1				
Ownership of at least one ITN	0.385	0.028	1,107	1,271	1.930	0.073	0.329	0.442
De facto population with access to an ITN Household population that slept under an ITN last night	0.292 0.285	0.020 0.028	3,692 3,692	4,294 4,294	1.596 1.965	0.068 0.099	0.253 0.228	0.332 0.341
The second and the second seco	0.200	WOME	•	.,20.		0.000	0.220	0.0
Urban residence	0.583	0.045	815	931	2.583	0.077	0.493	0.672
Literacy	0.772	0.024	815	931	1.636	0.031	0.724	0.820
No education Secondary or higher education	0.078 0.783	0.013 0.022	815 815	931 931	1.340 1.553	0.161 0.029	0.053 0.738	0.104 0.828
Never married (never in union)	0.346	0.021	815	931	1.260	0.061	0.304	0.388
Currently married (in union) Married before age 18	0.592 0.199	0.024 0.023	815 655	931 748	1.419 1.444	0.041 0.113	0.543 0.154	0.641 0.244
Had sexual intercourse before age 18	0.520	0.028	655	748	1.419	0.053	0.465	0.576
Currently pregnant Know any contraceptive method	0.088 0.945	0.012 0.012	815 470	931 551	1.233 1.150	0.139 0.013	0.063 0.921	0.112 0.970
Know a modern method	0.944	0.012	470	551	1.175	0.013	0.919	0.969
Currently using any method Currently using a modern method	0.165 0.129	0.028 0.026	470 470	551 551	1.640 1.654	0.171 0.199	0.109 0.077	0.221 0.180
Currently using pill	0.021	0.008	470	551	1.230	0.384	0.005	0.038
Currently using male condoms Currently using injectables	0.010 0.029	0.005 0.010	470 470	551 551	0.996 1.244	0.456 0.332	0.001 0.010	0.019 0.048
Currently using implents	0.030	0.017	470	551	2.148	0.564	0.000	0.064
Currently using female sterilisation Currently using withdrawal	0.004 0.014	0.004 0.005	470 470	551 551	1.311 0.960	0.959 0.369	0.000 0.004	0.012 0.025
Currently using rhythm	0.014	0.005	470	551	1.049	0.309	0.004	0.025
Using public sector source	0.436 0.329	0.087 0.022	66 470	84 551	1.399 1.036	0.199 0.068	0.263 0.284	0.610 0.374
Want no more children Want to delay next birth at least 2 years	0.329	0.022	470	551	1.182	0.109	0.264	0.374
Ideal number of children	4.962	0.104	814	930	1.685	0.021	4.754	5.170
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.763 0.634	0.030 0.040	348 508	408 595	1.336 1.516	0.040 0.063	0.703 0.555	0.824 0.713
Received 3+ doses of SP/Fansidar	0.151	0.022	203	239	0.886	0.145	0.107	0.195
Treated with ORS Sought medical treatment for diarrhoea	0.592 0.614	0.162 0.136	16 16	22 22	1.432 1.215	0.273 0.221	0.268 0.343	0.916 0.886
Ever had vaccination card	0.837	0.050	102	127	1.423	0.060	0.737	0.937
Received BCG vaccination Received birth dose HepB vaccination	0.825 0.679	0.045 0.054	102 102	127 127	1.252 1.208	0.055 0.079	0.734 0.572	0.915 0.787
Received DPT-HepB-Hib vaccination (3 doses)	0.717	0.049	102	127	1.143	0.068	0.619	0.815
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.669 0.564	0.061 0.044	102 102	127 127	1.369 0.937	0.092 0.079	0.546 0.475	0.792 0.653
Received pneumococcal vaccination (3 doses)	0.708	0.050	102	127	1.150	0.070	0.609	0.808
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.733 0.444	0.038 0.038	102 102	127 127	0.909 0.794	0.052 0.085	0.656 0.369	0.809 0.520
Received all age-appropriate vaccinations (12-23 months)	0.322	0.039	102	127	0.858	0.120	0.245	0.399
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.116 0.047	0.040 0.031	84 84	95 95	1.133 1.335	0.343 0.659	0.036 0.000	0.196 0.109
Height-for-age (-2SD)	0.237	0.036	198	236	1.158	0.151	0.165	0.308
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.020 0.130	0.009 0.030	196 198	233 236	0.985 1.275	0.477 0.234	0.001 0.069	0.039 0.191
Body mass index (BMI) <18.5	0.080	0.021	252	277	1.231	0.268	0.037	0.123
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.446 0.698	0.033 0.044	252 181	277 222	1.045 1.233	0.075 0.064	0.379 0.609	0.513 0.787
Prevalence of malaria (based on microscopy test)	0.170	0.053	133	170	1.391	0.313	0.064	0.277
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.249 0.641	0.052 0.026	181 283	222 312	1.405 0.880	0.210 0.040	0.145 0.590	0.354 0.693
Had 2+ sexual partners in past 12 months	0.022	0.005	815	931	1.059	0.246	0.011	0.033
Condom use at last sex Abstinence among young people (never had sex)	0.373 0.566	0.135 0.039	20 215	21 246	1.204 1.145	0.363 0.069	0.102 0.488	0.643 0.644
Discriminatory attitudes towards people with HIV	0.895	0.014	739	866	1.237	0.016	0.867	0.923
Prevalence of sickle cell disease among children 6-59 months	0.000	0.000	181	222	0.000	0.000	0.000	0.000
Total fertility rate (last 3 years)	4.402	0.319	2,296	2,620	1.780	0.073	3.763	5.040
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	21.084 10.538	5.541 2.992	979 979	1,138 1,135	1.092 0.932	0.263 0.284	10.002 4.555	32.166 16.522
Infant mortality (last 0-9 years)	31.622	5.596	979	1,138	0.906	0.204	20.430	42.815
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	22.300 53.217	6.242 8.359	972 982	1,121 1,141	1.170 0.978	0.280 0.157	9.815 36.498	34.784 69.936
Officer-5 mortality (last 0-9 years)	33.217	MEN	902	1,141	0.970	0.137	30.490	09.930
Urban residence	0.563	0.051	280	326	1.727	0.091	0.460	0.666
Literacy	0.969	0.011	280	326	1.035	0.011	0.947	0.990
No education Secondary or higher education	0.007 0.856	0.004 0.025	280 280	326 326	0.803 1.182	0.586 0.029	0.000 0.806	0.014 0.905
Never married (in union)	0.431	0.029	280	326	0.965	0.066	0.374	0.489
Currently married (in union) Had first sexual intercourse before age 18	0.569 0.101	0.029 0.017	280 223	326 259	0.965 0.861	0.050 0.172	0.511 0.066	0.626 0.136
Knows any contraceptive method	1.000	0.000	158	185	0.000	0.000	1.000	1.000
Knows any modern contraceptive method Want no more children	1.000 0.183	0.000 0.035	158 158	185 185	0.000 1.125	0.000 0.190	1.000 0.113	1.000 0.252
Want to delay birth at least 2 years	0.117	0.028	158	185	1.080	0.237	0.062	0.173
Ideal number of children Had 2+ sexual partners in past 12 months	5.502 0.124	0.170 0.019	276 280	320 326	1.273 0.983	0.031 0.156	5.163 0.085	5.842 0.163
Condom use at last sex	0.361	0.070	36	40	0.863	0.193	0.221	0.500
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.787 0.024	0.051 0.009	86 280	100 326	1.138 0.953	0.064 0.366	0.686 0.006	0.888 0.041
Discriminatory attitudes towards people with HIV	0.681	0.031	278	323	1.102	0.045	0.619	0.743

		01	Number	of cases	.	D. 1 "	Confidence limits	
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
O control (discount TN)			POPULATION		0.400	0.005	0.400	0.040
Ownership of at least one ITN De facto population with access to an ITN	0.570 0.477	0.037 0.036	874 3,257	710 2,713	2.199 2.152	0.065 0.075	0.496 0.405	0.643 0.549
Household population that slept under an ITN last night	0.277	0.035	3,257	2,713	2.248	0.127	0.207	0.348
		WOMEN	١					
Urban residence	0.641	0.051	658	555	2.689	0.079	0.540	0.742
Literacy No education	0.728 0.084	0.035 0.021	658 658	555 555	1.988 1.936	0.047 0.249	0.659 0.042	0.798 0.127
Secondary or higher education	0.726	0.036	658	555	2.090	0.050	0.653	0.799
Never married (never in union) Currently married (in union)	0.265 0.666	0.018 0.022	658 658	555 555	1.056 1.210	0.069 0.033	0.228 0.622	0.301 0.711
Married before age 18	0.189	0.019	527	442	1.137	0.103	0.150	0.228
Had sexual intercourse before age 18	0.380 0.080	0.030 0.014	527 658	442 555	1.430 1.315	0.080 0.174	0.320 0.052	0.441 0.108
Currently pregnant Know any contraceptive method	0.060	0.014	438	370	1.216	0.174	0.032	0.106
Know a modern method	0.942	0.016	438	370	1.397	0.017	0.911	0.973
Currently using any method Currently using a modern method	0.194 0.150	0.025 0.021	438 438	370 370	1.316 1.248	0.129 0.142	0.144 0.108	0.244 0.193
Currently using pill	0.035	0.009	438	370	1.019	0.255	0.017	0.053
Currently using male condoms Currently using injectables	0.014 0.051	0.006 0.018	438 438	370 370	1.006 1.746	0.397 0.361	0.003 0.014	0.026 0.088
Currently using implants	0.036	0.011	438	370	1.203	0.299	0.014	0.057
Currently using female sterilisation	0.002	0.002	438	370	0.838	1.010	0.000	0.005
Currently using withdrawal Currently using rhythm	0.027 0.016	0.009 0.008	438 438	370 370	1.185 1.261	0.337 0.473	0.009 0.001	0.046 0.031
Using public sector source	0.406	0.061	78	64	1.089	0.150	0.284	0.528
Want no more children Want to delay next birth at least 2 years	0.413 0.277	0.027 0.029	438 438	370 370	1.153 1.355	0.066 0.105	0.359 0.219	0.468 0.335
Ideal number of children	4.546	0.029	649	544	1.210	0.103	4.388	4.705
Mothers protected against tetanus for last birth	0.821	0.029	308	270	1.368	0.036	0.762	0.879
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.897 0.471	0.027 0.040	465 175	411 150	1.610 1.077	0.030 0.086	0.844 0.390	0.951 0.552
Treated with ORS	0.407	0.095	20	17	0.834	0.232	0.218	0.596
Sought medical treatment for diarrhoea Ever had vaccination card	0.813 0.863	0.104 0.057	20 90	17 75	1.175 1.561	0.128 0.066	0.606 0.749	1.021 0.978
Received BCG vaccination	0.950	0.034	90	75 75	1.465	0.036	0.883	1.018
Received birth dose HepB vaccination	0.819	0.054	90	75 75	1.309	0.066	0.711	0.927
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.807 0.848	0.053 0.050	90 90	75 75	1.259 1.308	0.066 0.059	0.701 0.748	0.913 0.948
Received polio vaccination (3 doses)	0.676	0.074	90	75	1.481	0.110	0.527	0.825
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.826 0.806	0.039 0.053	90 90	75 75	0.959 1.165	0.047 0.066	0.748 0.700	0.903 0.913
Received all basic vaccinations (12-23 months)	0.563	0.070	90	75	1.295	0.125	0.423	0.703
Received all age-appropriate vaccinations (12-23 months)	0.482 0.164	0.070 0.048	90 77	75 72	1.285 1.194	0.144 0.292	0.343 0.068	0.621 0.260
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.104	0.046	77	72	0.989	0.292	0.008	0.200
Height-for-age (-2SD)	0.160	0.035	160	151	1.133	0.220	0.089	0.230
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.034 0.107	0.015 0.024	159 160	149 151	1.070 1.054	0.458 0.224	0.003 0.059	0.065 0.154
Body mass index (BMI) <18.5	0.063	0.026	192	159	1.450	0.408	0.012	0.114
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.386 0.659	0.048 0.058	192 146	159 139	1.355 1.432	0.124 0.088	0.290 0.543	0.482 0.774
Prevalence of malaria (based on microscopy test)	0.039	0.039	104	96	1.432	0.068	0.069	0.774
Prevalence of malaria (based on rapid test)	0.191	0.044	146	139	1.225	0.229	0.103	0.278
Prevalence of anaemia (women 15-49) Had 2+ sexual partners in past 12 months	0.552 0.006	0.048 0.003	211 658	181 555	1.413 1.121	0.087 0.545	0.456 0.000	0.648 0.013
Condom use at last sex	0.348	0.214	4	4	0.819	0.614	0.000	0.776
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.633 0.710	0.053 0.023	158 644	135 544	1.374 1.283	0.084 0.032	0.527 0.664	0.739 0.756
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.000 4.824	0.000 0.331	146 1,840	139 1,544	0.000 1.289	0.000 0.069	0.000 4.162	0.000 5.487
Neonatal mortality (last 0-9 years)	4.824 28.541	12.904	925	797	1.623	0.069	2.733	5.487
Postneonatal mortality (last 0-9 years)	23.112	6.782	926	799	1.381	0.293	9.548	36.677
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	51.654 19.998	16.025 5.303	925 922	797 792	1.720 1.027	0.310 0.265	19.604 9.393	83.703 30.603
Under-5 mortality (last 0-9 years)	70.619	16.069	927	798	1.612	0.228	38.480	102.758
		MEN						· <u></u> -
Urban residence	0.590	0.053	167 167	140	1.394	0.090	0.483	0.696
Literacy No education	0.682 0.021	0.043 0.012	167 167	140 140	1.198 1.081	0.064 0.574	0.595 0.000	0.768 0.045
Secondary or higher education	0.805	0.035	167	140	1.127	0.043	0.736	0.875
Never married (in union) Currently married (in union)	0.510 0.461	0.049 0.049	167 167	140 140	1.253 1.266	0.095 0.106	0.413 0.363	0.608 0.559
Had first sexual intercourse before age 18	0.333	0.044	137	114	1.089	0.132	0.245	0.421
Knows any contraceptive method Knows any modern contraceptive method	1.000 0.979	0.000 0.015	76 76	65 65	0.000 0.920	0.000 0.016	1.000 0.948	1.000 1.009
Want no more children	0.320	0.015	76 76	65	1.313	0.016	0.946	0.463
Want to delay birth at least 2 years	0.366	0.077	76	65	1.369	0.209	0.213	0.520
ldeal number of children Had 2+ sexual partners in past 12 months	4.916 0.182	0.202 0.031	157 167	131 140	1.051 1.032	0.041 0.170	4.513 0.120	5.319 0.244
Condom use at last sex	0.503	0.152	25	25	1.455	0.302	0.199	0.807
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.671 0.063	0.074 0.037	53 167	46 140	1.135 1.926	0.111 0.582	0.522 0.000	0.819 0.136
Discriminatory attitudes towards people with HIV	0.063	0.037	167	138	1.926	0.582	0.000	0.136

Table B.41 Sampling errors: Rivers sample, Nigeria DHS	- = 0 10		Number	of cases			Confide	nce limits
Variable	Value	Standard	Un-		Design	Relative		
vanable	(R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE)
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.339 0.244	0.023 0.019	1,129 4,258	1,556 5,840	1.656 1.636	0.069 0.078	0.292 0.206	0.385 0.282
Household population that slept under an ITN last night	0.213	0.020	4,258	5,840	1.631	0.095	0.173	0.254
Hite constitution of the c	0.500	WOMEN		4.504	0.770	0.070	0.440	0.000
Urban residence Literacy	0.526 0.840	0.041 0.023	1,130 1,130	1,534 1,534	2.778 2.140	0.079 0.028	0.443 0.793	0.609 0.886
No education Secondary or higher education	0.010 0.872	0.004 0.017	1,130 1,130	1,534 1,534	1.486 1.688	0.446 0.019	0.001 0.838	0.018 0.905
Never married (never in union)	0.367	0.016	1,130	1,534	1.085	0.042	0.336	0.398
Currently married (in union) Married before age 18	0.557 0.161	0.019 0.014	1,130 939	1,534 1,272	1.260 1.206	0.033 0.090	0.520 0.132	0.594 0.190
Had sexual intercourse before age 18	0.484	0.026	939	1,272	1.587	0.054	0.432	0.536
Currently pregnant Know any contraceptive method	0.055 0.999	0.006 0.001	1,130 621	1,534 855	0.953 0.684	0.118 0.001	0.042 0.998	0.068 1.001
Know a modern method	0.997	0.002	621	855	0.976	0.002	0.993	1.001
Currently using any method Currently using a modern method	0.320 0.196	0.016 0.016	621 621	855 855	0.869 0.999	0.051 0.081	0.287 0.164	0.352 0.228
Currently using pill	0.017	0.005	621	855	0.934	0.284	0.007	0.027
Currently using male condoms Currently using injectables	0.060 0.037	0.007 0.008	621 621	855 855	0.771 1.077	0.122 0.220	0.045 0.021	0.075 0.054
Currently using implants	0.049	0.010	621	855	1.127	0.200	0.029	0.068
Currently using female sterilisation Currently using withdrawal	0.004 0.086	0.002 0.012	621 621	855 855	0.948 1.044	0.578 0.137	0.000 0.062	0.009 0.109
Currently using rhythm	0.027	0.008	621	855	1.257	0.306	0.002	0.103
Using public sector source Want no more children	0.246 0.309	0.031 0.019	254 621	347 855	1.152 1.050	0.127 0.063	0.183 0.270	0.308 0.348
Want to delay next birth at least 2 years	0.309	0.019	621	855	1.030	0.081	0.270	0.346
Ideal number of children	4.430	0.063	1,129	1,532	1.343	0.014	4.304	4.556
Mothers protected against tetanus for last birth Births with skilled attendant at delivery	0.832 0.672	0.023 0.032	447 667	606 906	1.330 1.453	0.028 0.048	0.786 0.608	0.879 0.737
Received 3+ doses of SP/Fansidar	0.252	0.027	256	350	0.991	0.106	0.198	0.305
Treated with ORS Sought medical treatment for diarrhoea	0.417 0.715	0.059 0.057	59 59	77 77	0.812 0.965	0.141 0.080	0.299 0.600	0.534 0.830
Ever had vaccination card	0.837	0.038	124	172	1.167	0.045	0.761	0.914
Received BCG vaccination Received birth dose HepB vaccination	0.838 0.606	0.044 0.043	124 124	172 172	1.325 0.988	0.053 0.071	0.749 0.520	0.927 0.692
Received DPT-HepB-Hib vaccination (3 doses)	0.745	0.054	124	172	1.389	0.073	0.636	0.854
Received birth dose polio 0 vaccination Received polio vaccination (3 doses)	0.699 0.478	0.044 0.059	124 124	172 172	1.070 1.326	0.063 0.123	0.611 0.360	0.787 0.595
Received pneumococcal vaccination (3 doses)	0.728	0.053	124	172	1.333	0.073	0.621	0.834
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.728 0.392	0.049 0.056	124 124	172 172	1.214 1.298	0.067 0.144	0.631 0.279	0.825 0.504
Received all age-appropriate vaccinations (12-23 months)	0.310	0.049	124	172	1.184	0.157	0.213	0.407
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.193 0.048	0.032 0.021	117 117	164 164	0.873 1.111	0.167 0.449	0.129 0.005	0.258 0.091
Height-for-age (-2SD)	0.168	0.024	312	451	1.082	0.140	0.121	0.215
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.064 0.074	0.013 0.016	313 313	452 452	0.939 1.066	0.211 0.213	0.037 0.043	0.090 0.106
Body mass index (BMI) <18.5	0.044	0.014	434	592	1.383	0.309	0.017	0.071
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.477 0.789	0.031 0.024	434 287	592 412	1.287 0.961	0.065 0.030	0.416 0.741	0.539 0.836
Prevalence of malaria (based on microscopy test)	0.112	0.032	208	301	1.336	0.289	0.047	0.176
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.223 0.661	0.038 0.036	287 467	412 638	1.379 1.656	0.170 0.055	0.147 0.589	0.300 0.733
Had 2+ sexual partners in past 12 months	0.073	0.012	1,130	1,534	1.484	0.157	0.050	0.096
Condom use at last sex Abstinence among young people (never had sex)	0.490 0.497	0.051 0.042	80 275	112 367	0.916 1.375	0.105 0.084	0.387 0.414	0.593 0.580
Discriminatory attitudes towards people with HIV	0.674	0.026	1,121	1,521	1.870	0.039	0.621	0.726
Prevalence of sickle cell disease among children 6-59 months	0.000	0.000	287	412	0.000	0.000	0.000	0.000
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	3.849 27.409	0.352 5.417	3,197 1,273	4,335 1,686	1.679 1.003	0.091 0.198	3.145 16.576	4.553 38.242
Postneonatal mortality (last 0-9 years)	20.740	3.562	1,273	1,685	0.878	0.172	13.616	27.864
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	48.148 32.791	7.315 10.589	1,275 1,252	1,687 1,654	1.138 1.588	0.152 0.323	33.519 11.613	62.778 53.968
Under-5 mortality (last 0-9 years)	79.360	12.690	1,280	1,698	1.307	0.160	53.981	104.739
Lirhan rasidanca	0.549	MEN 0.040	220	49F	1 460	0.074	0.469	0.620
Urban residence Literacy	0.548 0.952	0.040 0.014	329 329	435 435	1.469 1.206	0.074 0.015	0.468 0.924	0.629 0.981
No education Secondary or higher education	0.002 0.877	0.002 0.025	329 329	435 435	0.783 1.380	1.013 0.029	0.000 0.827	0.006 0.927
Never married (in union)	0.402	0.039	329	435	1.430	0.096	0.325	0.480
Currently married (in union)	0.579 0.676	0.040	329 277	435 364	1.476 1.439	0.070 0.060	0.498 0.594	0.660
Had first sexual intercourse before age 18 Knows any contraceptive method	1.000	0.041 0.000	277 182	364 252	0.000	0.060	1.000	0.757 1.000
Knows any modern contraceptive method	1.000	0.000	182 182	252	0.000 1.191	0.000	1.000	1.000 0.389
Want no more children Want to delay birth at least 2 years	0.307 0.058	0.041 0.017	182 182	252 252	0.998	0.133 0.299	0.226 0.023	0.389
Ideal number of children	4.591 0.350	0.091	329 329	435	1.235	0.020	4.409	4.772
Had 2+ sexual partners in past 12 months Condom use at last sex	0.350 0.453	0.036 0.056	329 127	435 152	1.369 1.256	0.103 0.123	0.278 0.341	0.423 0.565
Abstinence among young people (never had sex)	0.299	0.076	90	116 435	1.555	0.255 0.164	0.147	0.451
Had paid sex in past 12 months	0.117 0.553	0.019 0.030	329 327	435 433	1.076 1.097	0.164 0.055	0.078 0.492	0.155 0.613

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE
			POPULATION					
Ownership of at least one ITN De facto population with access to an ITN	0.453 0.314	0.029 0.017	1,042 3,347	629 2,106	1.897 1.308	0.065 0.055	0.394 0.279	0.511 0.349
Household population that slept under an ITN last night	0.222	0.018	3,347	2,106	1.445	0.081	0.186	0.257
		WOMEN	١					
Urban residence	0.813 0.805	0.042 0.042	774 774	475 475	2.990 2.941	0.052 0.052	0.729 0.721	0.898 0.889
Literacy No education	0.805	0.042	774 774	475 475	2.941	0.052	0.721	0.084
Secondary or higher education	0.803	0.032 0.030	774	475 475	2.258	0.040	0.738	0.867
Never married (never in union) Currently married (in union)	0.260 0.687	0.030	774 774	475 475	1.869 1.940	0.114 0.047	0.201 0.622	0.319 0.751
Married before age 18	0.249	0.025	628	392	1.475	0.102	0.198	0.300
Had sexual intercourse before age 18 Currently pregnant	0.374 0.065	0.022 0.008	628 774	392 475	1.138 0.950	0.059 0.130	0.330 0.048	0.418 0.082
Know any contraceptive method	0.989	0.007	505	326	1.543	0.007	0.974	1.003
Know a modern method Currently using any method	0.989 0.385	0.007 0.034	505 505	326 326	1.543 1.578	0.007 0.089	0.974 0.316	1.003 0.453
Currently using a modern method	0.254	0.039	505	326	2.025	0.155	0.175	0.332
Currently using pill Currently using male condoms	0.034 0.062	0.009 0.016	505 505	326 326	1.177 1.483	0.280 0.258	0.015 0.030	0.053 0.094
Currently using injectables	0.041	0.012	505	326	1.368	0.295	0.017	0.065
Currently using implants Currently using female sterilisation	0.055 0.004	0.010 0.003	505 505	326 326	1.026 0.885	0.190 0.614	0.034 0.000	0.076 0.009
Currently using lernale stems attorn Currently using withdrawal	0.090	0.017	505	326	1.370	0.194	0.055	0.125
Currently using rhythm Using public sector source	0.033 0.431	0.010 0.056	505 180	326 106	1.316 1.506	0.317 0.130	0.012 0.319	0.054 0.543
Want no more children	0.431	0.036	505	326	1.057	0.130	0.319	0.543
Want to delay next birth at least 2 years	0.238	0.020	505	326	1.030	0.082	0.199	0.277
Ideal number of children Mothers protected against tetanus for last birth	4.291 0.882	0.162 0.033	770 353	472 226	3.117 1.937	0.038 0.038	3.968 0.815	4.615 0.949
Births with skilled attendant at delivery	0.790	0.024	522	329	1.169	0.031	0.741	0.838
Received 3+ doses of SP/Fansidar Treated with ORS	0.240 0.327	0.031 0.056	195 40	128 28	1.028 0.780	0.129 0.172	0.178 0.214	0.302 0.440
Sought medical treatment for diarrhoea	0.413	0.073	40	28	0.960	0.178	0.266	0.559
Ever had vaccination card Received BCG vaccination	0.941 0.948	0.035 0.027	100 100	68 68	1.524 1.277	0.037 0.029	0.872 0.894	1.011 1.003
Received boo vaccination Received birth dose HepB vaccination	0.913	0.027	100	68	1.263	0.028	0.844	0.982
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.930 0.921	0.037 0.031	100 100	68 68	1.504 1.183	0.040 0.034	0.855 0.859	1.004 0.983
Received billin dose polio o vaccination Received polio vaccination (3 doses)	0.494	0.031	100	68	1.950	0.034	0.304	0.683
Received pneumococcal vaccination (3 doses)	0.918	0.039	100	68	1.465	0.042	0.840	0.996
Received measles 1 vaccination Received all basic vaccinations (12-23 months)	0.864 0.411	0.045 0.082	100 100	68 68	1.356 1.722	0.052 0.200	0.774 0.246	0.954 0.575
Received all age-appropriate vaccinations (12-23 months)	0.383	0.078	100	68	1.659	0.205	0.226	0.540
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.114 0.035	0.050 0.021	88 88	52 52	1.401 1.010	0.433 0.588	0.015 0.000	0.214 0.076
Height-for-age (-2SD)	0.221	0.033	287	166	1.264	0.148	0.156	0.287
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.033 0.111	0.010 0.025	287 288	166 166	0.919 1.201	0.295 0.224	0.013 0.061	0.052 0.160
Body mass index (BMI) <18.5	0.072	0.019	304	176	1.235	0.262	0.034	0.110
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.317 0.719	0.026 0.040	304 254	176 145	0.943 1.400	0.082 0.055	0.265 0.640	0.369 0.798
Prevalence of malaria (based on microscopy test)	0.323	0.048	186	108	1.277	0.147	0.228	0.418
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.463 0.505	0.050 0.036	254 336	145 198	1.384 1.280	0.108 0.071	0.363 0.434	0.564 0.577
Had 2+ sexual partners in past 12 months	0.016	0.005	774	475	1.183	0.329	0.006	0.027
Condom use at last sex Abstinence among young people (never had sex)	0.196 0.631	0.109 0.038	15 186	8 104	1.024 1.066	0.555 0.060	0.000 0.555	0.413 0.706
Discriminatory attitudes towards people with HIV	0.878	0.036	757	464	1.232	0.000	0.849	0.700
Prevalence of sickle cell disease among children 6-59 months	0.018	0.009	254	145	0.916	0.514	0.000	0.036
Total fertility rate (last 3 years)	4.640	0.380	2,180	1,348	1.270	0.082	3.881	5.399
Neonatal mortality (last 0-9 years)	41.962	7.437	987	637	1.064	0.177	27.088	56.836
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	15.390 57.352	5.100 10.439	983 988	630 637	1.193 1.275	0.331 0.182	5.189 36.474	25.591 78.230
Child mortality (last 0-9 years)	39.755	8.769	993	644	1.187	0.221	22.218	57.293
Under-5 mortality (last 0-9 years)	94.827	6.651 MEN	992	641	0.737	0.070	81.526	108.128
Urban residence	0.808	0.050	226	139	1.906	0.062	0.708	0.909
Literacy	0.893	0.026	226	139	1.262	0.029	0.841	0.945
No education Secondary or higher education	0.015 0.889	0.008 0.031	226 226	139 139	1.020 1.460	0.560 0.035	0.000 0.827	0.031 0.950
Never married (in union)	0.310	0.039	226	139	1.277	0.127	0.231	0.389
Currently married (in union) Had first sexual intercourse before age 18	0.688 0.297	0.039 0.028	226 188	139 116	1.274 0.834	0.057 0.094	0.609 0.241	0.767 0.352
Knows any contraceptive method	1.000	0.000	151	95	0.000	0.000	1.000	1.000
Knows any modern contraceptive method Want no more children	0.974 0.456	0.022 0.039	151 151	95 95	1.688 0.963	0.023 0.086	0.930 0.377	1.018 0.534
Want to delay birth at least 2 years	0.456	0.039	151	95 95	0.963	0.066	0.377	0.534
ldeal number of children	4.346	0.169	223 226	135 130	0.980	0.039	4.008	4.684
Had 2+ sexual partners in past 12 months Condom use at last sex	0.117 0.398	0.015 0.112	226	139 16	0.720 1.134	0.131 0.280	0.087 0.175	0.148 0.622
Abstinence among young people (never had sex)	0.589	0.074	59	34	1.140	0.125	0.441	0.736
Had paid sex in past 12 months Discriminatory attitudes towards people with HIV	0.039 0.604	0.016 0.054	226 194	139 118	1.231 1.520	0.408 0.089	0.007 0.497	0.071 0.711

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	HOUSE	HOLDS AND	POPULATION	١				
Ownership of at least one ITN	0.293	0.021	1,526	2,971	1.782	0.071	0.251	0.335
De facto population with access to an ITN Household population that slept under an ITN last night	0.209 0.128	0.016 0.017	5,691 5,691	11,162 11,162	1.672 1.934	0.075 0.132	0.178 0.094	0.240 0.162
		WOME	N	-				
Urban residence	0.977	0.005	1,445	2,891	1.391	0.006	0.966	0.988
Literacy No education	0.853 0.054	0.029 0.013	1,445 1,445	2,891 2,891	3.119 2.161	0.034 0.239	0.795 0.028	0.911 0.079
Secondary or higher education	0.838	0.036	1,445	2,891	3.652	0.042	0.767	0.909
Never married (never in union) Currently married (in union)	0.377 0.569	0.021 0.016	1,445 1,445	2,891 2,891	1.616 1.201	0.055 0.028	0.336 0.538	0.418 0.600
Married before age 18	0.089	0.010	1,210	2,347	1.205	0.111	0.069	0.108
Had sexual intercourse before age 18 Currently pregnant	0.280 0.057	0.032 0.007	1,210 1,445	2,347 2,891	2.506 1.203	0.116 0.128	0.215 0.043	0.345 0.072
Know any contraceptive method	0.999	0.001	836	1,645	0.948	0.001	0.997	1.001
Know a modern method Currently using any method	0.998 0.494	0.001 0.024	836 836	1,645 1,645	0.881 1.360	0.001 0.048	0.996 0.447	1.001 0.541
Currently using a modern method	0.291	0.014	836	1,645	0.860	0.046	0.264	0.318
Currently using pill Currently using male condoms	0.049 0.069	0.012 0.014	836 836	1,645 1,645	1.611 1.583	0.246 0.202	0.025 0.041	0.073 0.096
Currently using injectables	0.031	0.008	836	1,645	1.258	0.244	0.016	0.046
Currently using implants Currently using female sterilisation	0.045 0.000	0.009 0.000	836 836	1,645 1,645	1.251 0.000	0.199 0.000	0.027 0.000	0.063 0.000
Currently using withdrawal	0.122 0.038	0.013 0.006	836 836	1,645 1,645	1.129 0.932	0.105 0.162	0.097 0.026	0.148 0.051
Currently using rhythm Using public sector source	0.036	0.008	251	479	1.425	0.162	0.026	0.420
Want no more children	0.340	0.014	836	1,645	0.853	0.041	0.312	0.368
Want to delay next birth at least 2 years Ideal number of children	0.196 3.860	0.016 0.041	836 1,334	1,645 2,612	1.131 1.281	0.079 0.011	0.165 3.779	0.227 3.942
Mothers protected against tetanus for last birth	0.841	0.018	598	1,142	1.198	0.022	0.804	0.877
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.801 0.200	0.031 0.026	807 295	1,545 599	1.864 1.141	0.039 0.131	0.738 0.148	0.864 0.252
Treated with ORS	0.652	0.083	37	57 57	0.882	0.127	0.486	0.817
Sought medical treatment for diarrhoea Ever had vaccination card	0.694 0.983	0.078 0.010	37 155	57 329	0.853 1.007	0.113 0.010	0.537 0.963	0.850 1.003
Received BCG vaccination	0.973	0.015	155	329	1.157	0.015	0.944	1.002
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.920 0.908	0.024 0.028	155 155	329 329	1.161 1.245	0.027 0.031	0.871 0.852	0.969 0.964
Received birth dose polio 0 vaccination	0.951	0.019	155 155	329 329	1.120	0.020	0.913	0.988
Received polio vaccination (3 doses) Received pneumococcal vaccination (3 doses)	0.673 0.900	0.043 0.029	155	329 329	1.185 1.246	0.064 0.032	0.586 0.842	0.759 0.958
Received measles 1 vaccination	0.895 0.624	0.029 0.040	155 155	329 329	1.233 1.050	0.033 0.063	0.836 0.545	0.954 0.703
Received all basic vaccinations (12-23 months) Received all age-appropriate vaccinations (12-23 months)	0.624	0.040	155	329	1.030	0.063	0.543	0.703
Received measles 2 vaccination	0.228 0.106	0.047 0.027	161 161	283 283	1.311 1.004	0.206 0.255	0.135 0.052	0.322 0.160
Received all age-appropriate vaccinations (24-35 months) Height-for-age (-2SD)	0.100	0.027	355	684	1.550	0.255	0.032	0.100
Weight-for-height (-2SD)	0.064	0.017	354	682	1.327	0.269	0.030	0.099
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.133 0.065	0.032 0.012	355 467	684 903	1.786 1.011	0.244 0.181	0.068 0.042	0.197 0.089
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.494 0.518	0.026 0.053	467 320	903 613	1.098 1.823	0.052 0.101	0.442 0.413	0.545 0.623
Prevalence of malaria (children 6-59 months) Prevalence of malaria (based on microscopy test)	0.018	0.033	252	485	1.006	0.101	0.413	0.023
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.034 0.495	0.011 0.028	321 513	614 1,002	1.048 1.251	0.312 0.056	0.013 0.440	0.056 0.551
Had 2+ sexual partners in past 12 months	0.493	0.025	1,445	2,891	1.117	0.030	0.440	0.035
Condom use at last sex Abstinence among young people (never had sex)	0.215 0.690	0.098 0.018	31 348	74 783	1.296 0.738	0.457 0.027	0.019 0.653	0.412 0.726
Discriminatory attitudes towards people with HIV	0.669	0.032	1,403	2,782	2.512	0.047	0.606	0.732
Prevalence of sickle cell disease among children 6-59 months	0.027	0.021	320	613	2.260	0.771	0.000	0.068
Total fertility rate (last 3 years)	3.401	0.195	4,103	8,095	1.216	0.057	3.011	3.790
Neonatal mortality (last 0-9 years) Postneonatal mortality (last 0-9 years)	34.872 12.483	4.225 4.228	1,546 1,549	2,977 2,999	0.834 1.450	0.121 0.339	26.422 4.026	43.322 20.940
Infant mortality (last 0-9 years)	47.355	5.225	1,548	2,981	0.909	0.110	36.905	57.805
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	12.619 59.376	4.589 6.591	1,537 1,549	2,952 2,982	1.448 0.954	0.364 0.111	3.440 46.193	21.797 72.559
		MEN	,	,				
Urban residence	0.973	0.006	471	845	0.758	0.006	0.961	0.984
Literacy No education	0.930 0.015	0.026 0.006	471 471	845 845	2.240 1.018	0.028 0.382	0.877 0.004	0.983 0.026
Secondary or higher education	0.883	0.024	471	845	1.601	0.027	0.835	0.930
Never married (in union) Currently married (in union)	0.326 0.666	0.029 0.029	471 471	845 845	1.341 1.317	0.089 0.043	0.268 0.608	0.384 0.723
Had first sexual intercourse before age 18	0.138	0.018	403	748	1.071	0.133	0.101	0.175
Knows any contraceptive method Knows any modern contraceptive method	0.998 0.998	0.002 0.002	297 297	562 562	0.787 0.787	0.002 0.002	0.994 0.994	1.002 1.002
Want no more children	0.301	0.031	297	562	1.176	0.104	0.238	0.364
Want to delay birth at least 2 years Ideal number of children	0.180 3.722	0.024 0.064	297 470	562 843	1.086 1.147	0.135 0.017	0.131 3.595	0.228 3.850
Had 2+ sexual partners in past 12 months	0.059	0.013	471	845	1.174	0.217	0.033	0.084
	0 444						0.004	0.504
Condom use at last sex Abstinence among young people (never had sex)	0.411 0.644	0.090 0.075	34 103	50 164	1.047 1.579	0.219 0.117	0.231 0.493	0.591 0.795

			Number	of cases			Confide	nce limits
		Standard	Un-		Design	Relative		
√ariable	Value (R)	error (SE)	weighted (N)	Weighted (WN)	effect (DEFT)	error (SE/R)	Lower (R-2SE)	Upper (R+2SE
	` '	HOLDS AND F	` ′		(DEI I)	(OL/IT)	(IT ZOL)	(11.202
Ownership of at least one ITN	0.479	0.038	1,079	1,251	2.472	0.079	0.403	0.554
De facto population with access to an ITN	0.442	0.032	3,390	3,980	2.126	0.073	0.378	0.505
Household population that slept under an ITN last night	0.359	0.033	3,390	3,980	2.195	0.092	0.293	0.426
		WOMEN						
Jrban residence	0.500	0.041	798	927	2.336	0.083	0.417	0.583
Literacy No education	0.867 0.103	0.030 0.024	798 798	927 927	2.515 2.180	0.035 0.228	0.806 0.056	0.927 0.151
Secondary or higher education	0.103	0.024	798 798	927	2.160	0.228	0.599	0.151
Never married (never in union)	0.251	0.027	798	927	1.767	0.108	0.196	0.305
Currently married (in union) Married before age 18	0.674 0.168	0.026 0.020	798 698	927 809	1.593 1.422	0.039 0.120	0.621 0.128	0.727 0.209
Had sexual intercourse before age 18	0.100	0.026	698	809	1.478	0.120	0.120	0.390
Currently pregnant	0.063	0.008	798	927	0.964	0.132	0.046	0.079
Know any contraceptive method Know a modern method	0.993 0.991	0.003 0.004	534 534	624 624	0.918 0.926	0.003 0.004	0.986 0.984	0.999 0.999
Currently using any method	0.991	0.004	534 534	624	1.542	0.004	0.964	0.384
Currently using a modern method	0.166	0.022	534	624	1.370	0.133	0.122	0.210
Currently using pill	0.016	0.006	534	624	1.076	0.363	0.004	0.028
Currently using male condoms Currently using injectables	0.038 0.073	0.009 0.013	534 534	624 624	1.117 1.162	0.243 0.179	0.020 0.047	0.057 0.100
Currently using implants	0.023	0.006	534	624	0.922	0.262	0.011	0.035
Currently using female sterilisation	0.005	0.004	534	624	1.171	0.712	0.000	0.012
Currently using withdrawal Currently using rhythm	0.133 0.002	0.021 0.002	534 534	624 624	1.459 1.078	0.162 0.984	0.090 0.000	0.176 0.007
Jsing public sector source	0.406	0.055	119	136	1.207	0.135	0.297	0.515
Want no more children	0.353	0.025	534	624	1.188	0.070	0.303	0.402
Want to delay next birth at least 2 years deal number of children	0.181 3.970	0.023 0.074	534 797	624 925	1.389 1.851	0.128 0.019	0.134 3.822	0.227 4.117
Mothers protected against tetanus for last birth	0.832	0.074	370	423	1.555	0.019	0.771	0.893
Births with skilled attendant at delivery	0.770	0.050	508	586	2.121	0.064	0.671	0.869
Received 3+ doses of SP/Fansidar	0.212	0.032	197	220	1.066	0.149	0.149	0.276
Freated with ORS Sought medical treatment for diarrhoea	0.807 1.000	0.195 0.000	4 4	5 5	1.026 0.000	0.241 0.000	0.417 1.000	1.197 1.000
Ever had vaccination card	0.703	0.057	105	121	1.250	0.081	0.589	0.817
Received BCG vaccination	0.741	0.043	105	121	0.992	0.058	0.655	0.828
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.683 0.503	0.052 0.059	105 105	121 121	1.093 1.157	0.076 0.117	0.580 0.385	0.787 0.621
Received birth dose polio 0 vaccination	0.676	0.048	105	121	1.000	0.071	0.580	0.771
Received polio vaccination (3 doses)	0.325	0.057	105	121	1.184	0.175	0.211	0.439
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.488 0.519	0.054 0.067	105 105	121 121	1.061 1.321	0.111 0.129	0.380 0.385	0.596 0.653
Received all basic vaccinations (12-23 months)	0.231	0.055	105	121	1.262	0.236	0.122	0.340
Received all age-appropriate vaccinations (12-23 months)	0.215	0.051	105	121	1.210	0.238	0.113	0.317
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.130 0.024	0.044 0.013	91 91	109 109	1.281 0.844	0.342 0.554	0.041 0.000	0.219 0.051
Height-for-age (-2SD)	0.266	0.033	309	357	1.222	0.334	0.000	0.332
Weight-for-height (-2SD)	0.057	0.014	309	357	0.978	0.237	0.030	0.084
Neight-for-age (-2SD) Body mass index (BMI) <18.5	0.163 0.086	0.024 0.017	309 293	357 333	0.970 1.004	0.146 0.193	0.115 0.053	0.210 0.120
Body mass index (BMI) ≥25	0.060	0.017	293	333	1.182	0.193	0.033	0.120
Prevalence of anaemia (children 6-59 months)	0.595	0.041	280	330	1.325	0.068	0.514	0.676
Prevalence of malaria (based on microscopy test)	0.216	0.038	202	236	1.208	0.175	0.140	0.292
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.322 0.490	0.048 0.028	278 320	327 363	1.499 0.976	0.151 0.056	0.225 0.435	0.419 0.545
Had 2+ sexual partners in past 12 months	0.009	0.005	798	927	1.444	0.535	0.000	0.019
Condom use at last sex	0.566	0.138	6	8	0.659	0.244	0.289	0.843
Abstinence among young people (never had sex) Discriminatory attitudes towards people with HIV	0.587 0.932	0.050 0.014	154 783	182 908	1.245 1.569	0.085 0.015	0.487 0.904	0.686 0.960
Prevalence of sickle cell disease among children 6-59	0.502	0.014	700	300	1.000	0.010	0.504	0.500
months	0.017	0.009	280	330	0.977	0.535	0.000	0.035
Fotal fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	3.801 14.731	0.302 5.975	2,281 1,014	2,640 1,174	1.481 1.238	0.079 0.406	3.197 2.782	4.404 26.681
Postneonatal mortality (last 0-9 years)	4.410	2.105	1,014	1,174	1.236	0.406	0.201	8.619
nfant mortality (last 0-9 years)	19.141	6.143	1,014	1,174	1.168	0.321	6.856	31.426
Child mortality (last 0-9 years)	11.040 29.970	3.685 6.556	999 1.015	1,166 1,175	0.935	0.334	3.669 16.857	18.411
Jnder-5 mortality (last 0-9 years)	29.970	6.556	1,015	1,175	1.025	0.219	16.857	43.082
Irhan residence	0.477	0.048	261	309	1 521	0.100	U 383	0 F70
Jrban residence Literacy	0.477 0.847	0.048 0.027	261 261	309 309	1.531 1.209	0.100 0.032	0.382 0.793	0.572 0.901
No education	0.054	0.015	261	309	1.050	0.271	0.025	0.084
Secondary or higher education	0.748	0.047	261	309	1.738	0.063	0.654	0.842
Never married (in union) Currently married (in union)	0.223 0.765	0.024 0.024	261 261	309 309	0.916 0.902	0.106 0.031	0.176 0.718	0.270 0.813
Had first sexual intercourse before age 18	0.144	0.029	228	265	1.229	0.199	0.087	0.201
Knows any contraceptive method	1.000	0.000	199	236	0.000	0.000	1.000	1.000
Knows any modern contraceptive method Nant no more children	1.000 0.435	0.000 0.040	199 199	236 236	0.000 1.141	0.000 0.092	1.000 0.355	1.000 0.516
Nant to delay birth at least 2 years	0.435	0.040	199	236	0.924	0.092	0.355	0.516
deal number of children	4.828	0.171	261	309	1.208	0.035	4.487	5.169
Had 2+ sexual partners in past 12 months	0.089 0.311	0.018	261	309	1.025	0.203	0.053 0.067	0.125
	บ.อ.เ	0.122	20	28	1.141	0.392	0.007	0.555
Condom use at last sex Abstinence among young people (never had sex)	0.889	0.058	42	53	1.182	0.065	0.773	1.006

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
variable	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
	HOUSE	HOLDS AND	POPULATION	I				
Ownership of at least one ITN	0.798	0.013	1,070	844	1.042	0.016	0.773	0.824
De facto population with access to an ITN Household population that slept under an ITN last night	0.685 0.531	0.017 0.030	3,774 3,774	2,978 2,978	1.319 1.867	0.025 0.056	0.650 0.472	0.719 0.591
		WOMEN	N					
Urban residence	0.566	0.046	863	683	2.718	0.081	0.474	0.658
Literacy	0.724 0.079	0.024 0.013	863 863	683 683	1.561 1.367	0.033 0.159	0.677 0.054	0.772 0.104
No education Secondary or higher education	0.079	0.013	863	683	1.550	0.139	0.691	0.784
Never married (never in union)	0.315 0.616	0.023 0.025	863 863	683 683	1.455 1.481	0.073 0.040	0.269 0.567	0.361 0.665
Currently married (in union) Married before age 18	0.204	0.025	696	554	1.662	0.040	0.153	0.005
Had sexual intercourse before age 18	0.457 0.077	0.028 0.010	696 863	554 683	1.465 1.102	0.061 0.130	0.402 0.057	0.512 0.097
Currently pregnant Know any contraceptive method	0.989	0.005	552	421	1.205	0.130	0.037	1.000
Know a modern method	0.989 0.201	0.005 0.028	552 552	421 421	1.205 1.626	0.005 0.138	0.978 0.146	1.000 0.257
Currently using any method Currently using a modern method	0.201	0.026	552	421	1.584	0.136	0.146	0.237
Currently using pill Currently using male condoms	0.015	0.006	552	421	1.177	0.410	0.003	0.027 0.037
Currently using male condoms Currently using injectables	0.014 0.037	0.011 0.009	552 552	421 421	2.172 1.094	0.766 0.239	0.000 0.019	0.057
Currently using implants	0.078	0.013	552 552	421 421	1.160	0.170	0.052	0.105
Currently using female sterilisation Currently using withdrawal	0.004 0.011	0.003 0.004	552 552	421 421	1.005 1.001	0.718 0.408	0.000 0.002	0.009 0.020
Currently using rhythm	0.010	0.006	552 109	421 86	1.401	0.599	0.000 0.609	0.022 0.831
Using public sector source Want no more children	0.720 0.362	0.055 0.030	552	86 421	1.278 1.444	0.077 0.082	0.809	0.831
Want to delay next birth at least 2 years	0.145	0.018	552	421	1.177	0.122	0.110	0.180
Ideal number of children Mothers protected against tetanus for last birth	4.544 0.820	0.111 0.030	774 402	620 312	1.720 1.591	0.024 0.037	4.322 0.760	4.767 0.881
Births with skilled attendant at delivery	0.828	0.036	542	423	1.833	0.043	0.756	0.900
Received 3+ doses of SP/Fansidar Treated with ORS	0.267 0.343	0.033 0.074	206 42	157 27	1.057 0.910	0.123 0.216	0.201 0.195	0.332 0.491
Sought medical treatment for diarrhoea	0.423	0.098	42	27	1.143	0.231	0.227	0.619
Ever had vaccination card Received BCG vaccination	0.854 0.837	0.051 0.046	94 94	75 75	1.325 1.143	0.060 0.055	0.752 0.745	0.956 0.928
Received birth dose HepB vaccination	0.744	0.066	94	75	1.440	0.089	0.611	0.877
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.770 0.768	0.057 0.066	94 94	75 75	1.281 1.470	0.074 0.086	0.656 0.636	0.885 0.900
Received polio vaccination (3 doses)	0.535	0.060	94	75	1.154	0.113	0.414	0.655
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.704 0.735	0.058 0.057	94 94	75 75	1.214 1.216	0.083 0.077	0.588 0.622	0.821 0.849
Received all basic vaccinations (12-23 months)	0.505	0.061	94	75	1.159	0.120	0.384	0.626
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.397 0.186	0.063 0.045	94 96	75 77	1.222 1.158	0.158 0.243	0.272 0.095	0.523 0.276
Received all age-appropriate vaccinations (24-35 months)	0.111	0.034	96	77	1.073	0.304	0.044	0.179
Height-for-age (-2SD) Weight-for-height (-2SD)	0.204 0.033	0.029 0.015	235 234	177 176	1.017 1.281	0.141 0.463	0.147 0.002	0.262 0.063
Weight-for-age (-2SD)	0.119	0.023	235	177	1.016	0.194	0.073	0.165
Body mass index (BMI) <18.5 Body mass index (BMI) ≥25	0.077 0.280	0.022 0.035	290 290	225 225	1.378 1.329	0.282 0.126	0.034 0.209	0.121 0.351
Prevalence of anaemia (children 6-59 months)	0.642	0.035	210	159	1.021	0.055	0.571	0.713
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.335 0.416	0.048 0.063	156 209	117 158	1.272 1.676	0.144 0.152	0.239 0.290	0.431 0.542
Prevalence of anaemia (women 15-49)	0.552	0.032	331	253	1.161	0.059	0.487	0.616
Had 2+ sexual partners in past 12 months Condom use at last sex	0.012 0.290	0.004 0.237	863 10	683 8	1.088 1.464	0.331 0.818	0.004 0.000	0.021 0.763
Abstinence among young people (never had sex)	0.548	0.028	216	178	0.832	0.051	0.492	0.605
Discriminatory attitudes towards people with HIV Prevalence of sickle cell disease among children 6-59	0.760	0.038	837	666	2.580	0.050	0.684	0.837
months	0.018	0.010	210	159	1.031	0.540	0.000	0.037
Total fertility rate (last 3 years) Neonatal mortality (last 0-9 years)	4.103 30.370	0.303 5.984	2,431 1,068	1,931 827	1.287 0.973	0.074 0.197	3.497 18.401	4.709 42.339
Postneonatal mortality (last 0-9 years)	18.738	8.758	1,069	831	1.394	0.467	1.222	36.254
Infant mortality (last 0-9 years) Child mortality (last 0-9 years)	49.108 31.581	8.424 9.176	1,069 1,047	828 821	0.969 1.625	0.172 0.291	32.260 13.229	65.956 49.934
Under-5 mortality (last 0-9 years)	79.139	10.265	1,077	835	1.014	0.130	58.608	99.669
		MEN						
Urban residence	0.498 0.787	0.052 0.033	320 320	247 247	1.843 1.459	0.104 0.043	0.395 0.720	0.602 0.854
Literacy No education	0.036	0.013	320	247	1.272	0.371	0.009	0.062
Secondary or higher education Never married (in union)	0.818 0.473	0.034 0.034	320 320	247 247	1.565 1.227	0.041 0.073	0.750 0.404	0.886 0.541
Currently married (in union)	0.473	0.034	320 320	247 247	1.227	0.073	0.404	0.570
Had first sexual intercourse before age 18 Knows any contraceptive method	0.379 1.000	0.029 0.000	243 165	191 126	0.942 0.000	0.078 0.000	0.320 1.000	0.438 1.000
Knows any contraceptive method Knows any modern contraceptive method	1.000	0.000	165	126	0.000	0.000	1.000	1.000
Want no more children	0.335	0.030	165 165	126 126	0.806	0.089	0.276	0.394
Want to delay birth at least 2 years Ideal number of children	0.422 5.098	0.044 0.214	165 319	126 247	1.134 1.244	0.104 0.042	0.335 4.670	0.510 5.526
Had 2+ sexual partners in past 12 months Condom use at last sex	0.185	0.036	320	247	1.638	0.193	0.114	0.256
Canada III II	0.411	0.062	63	46	0.997	0.151	0.287	0.536
Abstinence among young people (never had sex)	0.466	0.055	112	82	1.151	0.117	0.357	0.575

				of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Uppe
Ownership of at least one ITN	0.421	HOLDS AND P 0.036	1,076	1,219	2.391	0.086	0.349	0.494
De facto population with access to an ITN	0.327	0.025	3,501	4,020	1.964	0.077	0.277	0.377
Household population that slept under an ITN last night	0.268	0.018	3,501	4,020	1.299	0.066	0.232	0.303
		WOMEN						
Urban residence	0.762	0.029	832	938	1.960	0.038	0.704	0.820
Literacy	0.799	0.027	832	938	1.955	0.034	0.745	0.854
No education Secondary or higher education	0.064 0.766	0.012 0.031	832 832	938 938	1.375 2.121	0.183 0.041	0.040 0.704	0.087 0.829
Never married (never in union)	0.301	0.020	832	938	1.274	0.067	0.260	0.341
Currently married (in union)	0.667 0.164	0.020 0.021	832 681	938 766	1.231 1.487	0.030 0.129	0.626 0.122	0.707 0.206
Married before age 18 Had sexual intercourse before age 18	0.164	0.021	681	766	1.467	0.129	0.122	0.200
Currently pregnant	0.054	0.008	832	938	1.062	0.154	0.037	0.071
Know any contraceptive method	0.989	0.005	558	625	1.080	0.005	0.979	0.998
Know a modern method Currently using any method	0.989 0.294	0.005 0.019	558 558	625 625	1.080 0.991	0.005 0.065	0.979 0.256	0.998 0.333
Currently using a modern method	0.270	0.017	558	625	0.906	0.063	0.236	0.304
Currently using pill	0.016	0.006	558	625	1.076	0.352	0.005	0.028
Currently using male condoms Currently using injectables	0.038 0.071	0.008 0.014	558 558	625 625	1.017 1.323	0.216 0.203	0.022 0.042	0.055 0.100
Currently using implants	0.067	0.013	558	625	1.210	0.191	0.042	0.093
Currently using female sterilisation	0.006	0.003	558	625	1.072	0.588	0.000	0.013
Currently using withdrawal Currently using rhythm	0.018 0.006	0.006 0.004	558 558	625 625	1.033 1.058	0.326 0.558	0.006 0.000	0.029 0.014
Using public sector source	0.623	0.047	151	180	1.176	0.075	0.530	0.716
Want no more children	0.385	0.024	558	625	1.140	0.061	0.338	0.432
Want to delay next birth at least 2 years Ideal number of children	0.326 3.932	0.024 0.063	558 825	625 931	1.233 1.351	0.075 0.016	0.277 3.805	0.375 4.058
Mothers protected against tetanus for last birth	0.809	0.026	372	409	1.272	0.010	0.757	0.862
Births with skilled attendant at delivery	0.947	0.012	498	549	1.063	0.013	0.923	0.972
Received 3+ doses of SP/Fansidar Treated with ORS	0.117 0.472	0.030 0.071	180 41	198 46	1.227 0.915	0.254 0.152	0.058 0.329	0.177 0.615
Sought medical treatment for diarrhoea	0.359	0.086	41	46	1.082	0.132	0.329	0.531
Ever had vaccination card	0.853	0.037	92	102	0.990	0.043	0.780	0.926
Received BCG vaccination	0.943 0.840	0.027 0.035	92 92	102 102	1.130 0.908	0.029 0.041	0.889 0.771	0.998 0.910
Received birth dose HepB vaccination Received DPT-HepB-Hib vaccination (3 doses)	0.835	0.039	92	102	0.908	0.041	0.771	0.910
Received birth dose polio 0 vaccination	0.704	0.052	92	102	1.085	0.074	0.601	0.808
Received polio vaccination (3 doses)	0.384	0.047	92	102	0.923	0.122	0.290	0.478
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.779 0.766	0.037 0.044	92 92	102 102	0.847 0.985	0.047 0.057	0.705 0.679	0.852 0.853
Received all basic vaccinations (12-23 months)	0.338	0.045	92	102	0.915	0.134	0.247	0.429
Received all age-appropriate vaccinations (12-23 months)	0.172	0.041	92	102	1.036	0.238	0.090	0.254
Received measles 2 vaccination Received all age-appropriate vaccinations (24-35 months)	0.281 0.000	0.044 0.000	102 102	116 116	0.995 0.000	0.159 0.000	0.192 0.000	0.369 0.000
Height-for-age (-2SD)	0.237	0.035	278	314	1.223	0.148	0.167	0.307
Weight-for-height (-2SD)	0.045	0.013	278	315	0.970	0.288	0.019	0.071
Weight-for-age (-2SD) Body mass index (BMI) <18.5	0.144 0.095	0.026 0.021	279 296	315 335	1.177 1.214	0.179 0.217	0.092 0.054	0.195 0.137
Body mass index (BMI) ≥25	0.280	0.032	296	335	1.224	0.114	0.216	0.344
Prevalence of anaemia (children 6-59 months)	0.576	0.047	252	286	1.456	0.081	0.483	0.669
Prevalence of malaria (based on microscopy test) Prevalence of malaria (based on rapid test)	0.277 0.549	0.036 0.043	178 251	201 285	1.034 1.288	0.130 0.079	0.206 0.463	0.349 0.636
Prevalence of malaria (based of rapid test)	0.572	0.043	319	358	0.954	0.079	0.519	0.625
Had 2+ sexual partners in past 12 months	0.015	0.005	832	938	1.233	0.344	0.005	0.026
Condom use at last sex Abstinence among young people (never had sex)	0.000 0.654	0.000 0.034	11 212	14 244	0.000 1.025	0.000 0.051	0.000 0.587	0.000 0.721
Discriminatory attitudes towards people with HIV	0.034	0.034	722	820	1.607	0.031	0.367	0.721
Prevalence of sickle cell disease among children 6-59								
months Total fertility rate (last 3 years)	0.026 3.813	0.010 0.302	252 2,367	286 2,668	1.028 1.543	0.397 0.079	0.005 3.208	0.046 4.418
Neonatal mortality (last 0-9 years)	32.030	5.727	1,008	1,124	0.920	0.079	20.577	43.484
Postneonatal mortality (last 0-9 years)	14.925	3.782	1,008	1,125	0.922	0.253	7.361	22.490
Infant mortality (last 0-9 years)	46.956	6.607	1,008	1,124	0.933	0.141	33.743	60.169
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	24.492 70.298	5.971 8.192	1,020 1,014	1,140 1,130	1.026 0.915	0.244 0.117	12.550 53.913	36.433 86.682
, , , , , , , , , , , , , , , , , , ,		MEN	,	,		-		
Urban residence	0.765	0.031	242	269	1.135	0.040	0.703	0.827
Literacy	0.890	0.025	242	269	1.216	0.028	0.840	0.939
No education	0.041	0.016	242	269	1.225	0.382	0.010	0.072
Secondary or higher education Never married (in union)	0.878 0.283	0.023 0.036	242 242	269 269	1.069 1.235	0.026 0.127	0.833 0.211	0.923 0.355
Currently married (in union)	0.203	0.037	242	269	1.265	0.127	0.626	0.333
Had first sexual intercourse before age 18	0.230	0.042	206	231	1.440	0.185	0.145	0.314
Knows any contraceptive method Knows any modern contraceptive method	0.975 0.957	0.012 0.020	166 166	188 188	1.029 1.247	0.013 0.021	0.950 0.917	1.000 0.996
Knows any modern contraceptive method Want no more children	0.957	0.020	166	188	0.895	0.021	0.917	0.996
Want to delay birth at least 2 years	0.166	0.026	166	188	0.893	0.156	0.114	0.218
Ideal number of children	3.790 0.092	0.089	223 242	248	1.125	0.023	3.613	3.968
Had 2+ sexual partners in past 12 months Condom use at last sex	0.092 0.357	0.019 0.084	242	269 25	1.043 0.807	0.212 0.234	0.053 0.190	0.130 0.525
	0.652	0.062	57	60	0.981	0.096	0.528	0.777
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.032	0.002	242	269	1.004	0.582	0.000	0.026

			Number	of cases			Confide	nce limits
Variable	Value	Standard error	Un- weighted	Weighted	Design effect	Relative error	Lower	Upper
	(R)	(SE)	(N)	(WN)	(DEFT)	(SE/R)	(R-2SE)	(R+2SE)
Ownership of at least one ITN	0.514	0.025	POPULATION 1,253	1,801	1.782	0.049	0.464	0.565
De facto population with access to an ITN	0.390	0.023	4,140	6,173	1.776	0.060	0.344	0.437
Household population that slept under an ITN last night	0.389	0.020	4,140	6,173	1.454	0.052	0.348	0.429
Urban residence	0.818	0.029	918	1,352	2.298	0.036	0.760	0.877
Literacy	0.711	0.024	918	1,352	1.592	0.034	0.663	0.758
No education Secondary or higher education	0.138 0.721	0.022 0.027	918 918	1,352 1,352	1.943 1.819	0.161 0.037	0.094 0.668	0.182 0.775
Never married (never in union)	0.221	0.018	918	1,352	1.324	0.082	0.184	0.257
Currently married (in union) Married before age 18	0.757 0.224	0.021 0.022	918 800	1,352 1,184	1.469 1.467	0.027 0.097	0.716 0.180	0.799 0.267
Had sexual intercourse before age 18	0.440	0.018	800	1,184	1.008	0.040	0.405	0.476
Currently pregnant Know any contraceptive method	0.070 0.978	0.010 0.008	918 683	1,352 1,024	1.140 1.396	0.137 0.008	0.051 0.962	0.089 0.994
Know a modern method	0.978	0.008	683	1,024	1.463	0.008	0.952	0.994
Currently using any method	0.226	0.022	683	1,024	1.375	0.097	0.182	0.270
Currently using a modern method Currently using pill	0.222 0.011	0.023 0.004	683 683	1,024 1,024	1.416 0.984	0.101 0.356	0.177 0.003	0.268 0.019
Currently using male condoms	0.008	0.005	683	1,024	1.495	0.643	0.000	0.018
Currently using injectables Currently using implants	0.101 0.060	0.016 0.009	683 683	1,024 1,024	1.420 0.943	0.162 0.143	0.069 0.043	0.134 0.077
Currently using female sterilisation	0.000	0.000	683	1,024	0.000	0.000	0.000	0.000
Currently using withdrawal Currently using rhythm	0.002 0.000	0.002 0.000	683 683	1,024 1,024	1.233 0.000	0.979 0.000	0.000 0.000	0.007 0.000
Using public sector source	0.773	0.054	147	232	1.563	0.070	0.664	0.882
Want no more children	0.384	0.019	683	1,024	1.024	0.050	0.345	0.422
Want to delay next birth at least 2 years Ideal number of children	0.364 4.119	0.020 0.052	683 837	1,024 1,243	1.106 1.385	0.056 0.013	0.323 4.015	0.405 4.222
Mothers protected against tetanus for last birth	0.823	0.033	468	706	1.864	0.040	0.757	0.888
Births with skilled attendant at delivery Received 3+ doses of SP/Fansidar	0.768 0.044	0.036 0.016	656 255	976 383	1.892 1.228	0.047 0.358	0.696 0.012	0.840 0.075
Treated with ORS	0.533	0.067	30	53	0.750	0.126	0.399	0.668
Sought medical treatment for diarrhoea Ever had vaccination card	0.836 0.807	0.063 0.048	30 117	53 179	1.000 1.326	0.076 0.059	0.709 0.711	0.963 0.903
Received BCG vaccination	0.886	0.039	117	179	1.330	0.044	0.809	0.964
Received birth dose HepB vaccination	0.827	0.050	117	179	1.447	0.061	0.727	0.927
Received DPT-HepB-Hib vaccination (3 doses) Received birth dose polio 0 vaccination	0.443 0.834	0.054 0.041	117 117	179 179	1.189 1.206	0.122 0.049	0.335 0.752	0.552 0.916
Received polio vaccination (3 doses)	0.339	0.065	117	179	1.497	0.192	0.209	0.469
Received pneumococcal vaccination (3 doses) Received measles 1 vaccination	0.392 0.616	0.046 0.060	117 117	179 179	1.032 1.348	0.118 0.098	0.299 0.496	0.484 0.736
Received all basic vaccinations (12-23 months)	0.233	0.049	117	179	1.277	0.212	0.135	0.332
Received all age-appropriate vaccinations (12-23 months) Received measles 2 vaccination	0.189 0.317	0.045 0.052	117 118	179 173	1.266 1.190	0.240 0.163	0.098 0.214	0.279 0.421
Received all age-appropriate vaccinations (24-35 months)	0.141	0.042	118	173	1.298	0.299	0.057	0.226
Height-for-age (-2SD)	0.345 0.039	0.027 0.010	399 396	596 592	1.055 0.932	0.078 0.246	0.292 0.020	0.399 0.058
Weight-for-height (-2SD) Weight-for-age (-2SD)	0.039	0.010	400	597	1.020	0.240	0.020	0.038
Body mass index (BMI) <18.5	0.118	0.021	357	531	1.238	0.178	0.076	0.161
Body mass index (BMI) ≥25 Prevalence of anaemia (children 6-59 months)	0.320 0.650	0.025 0.031	357 352	531 528	1.035 1.270	0.080 0.048	0.269 0.588	0.370 0.713
Prevalence of malaria (based on microscopy test)	0.238	0.046	264	399	1.632	0.192	0.147	0.329
Prevalence of malaria (based on rapid test) Prevalence of anaemia (women 15-49)	0.339 0.497	0.039 0.035	349 394	522 585	1.535 1.374	0.114 0.069	0.262 0.427	0.416 0.566
Had 2+ sexual partners in past 12 months	0.005	0.002	918	1,352	0.963	0.463	0.000	0.009
Condom use at last sex Abstinence among young people (never had sex)	0.503 0.627	0.266 0.030	5 177	6 250	1.051 0.832	0.530 0.048	0.000 0.567	1.035 0.688
Discriminatory attitudes towards people with HIV	0.763	0.024	819	1,215	1.620	0.032	0.715	0.811
Prevalence of sickle cell disease among children 6-59 months	0.028	0.009	352	528	1.029	0.311	0.011	0.046
Total fertility rate (last 3 years)	4.507	0.228	2,626	3,865	1.331	0.051	4.051	4.964
Neonatal mortality (last 0-9 years)	29.533 11.394	6.146 3.643	1,256 1,253	1,834	1.088 1.055	0.208 0.320	17.241 4.107	41.826 18.681
Postneonatal mortality (last 0-9 years) Infant mortality (last 0-9 years)	40.928	7.417	1,255	1,830 1,835	1.142	0.320	26.094	55.761
Child mortality (last 0-9 years) Under-5 mortality (last 0-9 years)	23.798 63.752	5.143 8.933	1,229 1,262	1,794 1,842	1.086 1.098	0.216 0.140	13.512 45.886	34.085 81.618
Onder-5 mortality (last 6-5 years)	03.732	MEN	1,202	1,042	1.030	0.140	40.000	01.010
Urban residence	0.827	0.025	292	432	1.112	0.030	0.778	0.877
Literacy No education	0.902 0.099	0.025 0.022	292 292	432 432	1.426 1.273	0.028 0.225	0.852 0.054	0.952 0.143
Secondary or higher education	0.760	0.033	292	432	1.306	0.043	0.695	0.826
Never married (in union) Currently married (in union)	0.298 0.698	0.039 0.039	292 292	432 432	1.449 1.448	0.131 0.056	0.220 0.619	0.375 0.776
Had first sexual intercourse before age 18	0.062	0.018	251	366	1.202	0.296	0.025	0.099
Knows any contraceptive method	0.993	0.004	205	302	0.796	0.005	0.985	1.002
Knows any modern contraceptive method Want no more children	0.993 0.333	0.004 0.052	205 205	302 302	0.796 1.573	0.005 0.156	0.985 0.229	1.002 0.437
Want to delay birth at least 2 years	0.017	0.012	205	302	1.274	0.679	0.000	0.040
Ideal number of children Had 2+ sexual partners in past 12 months	4.706 0.074	0.279 0.014	284 292	417 432	1.667 0.930	0.059 0.193	4.148 0.045	5.265 0.102
Condom use at last sex	0.095	0.072	19	32	1.032	0.750	0.000	0.239
Abstinence among young people (never had sex) Had paid sex in past 12 months	0.913 0.015	0.041 0.009	55 292	89 432	1.076 1.219	0.045 0.589	0.831 0.000	0.996 0.032
Discriminatory attitudes towards people with HIV	0.598	0.009	290	430	1.390	0.067	0.517	0.678

Table B.48 Sampling errors for adult and maternal mortality rates, Nigeria DHS 2018 Number of cases Confidence limits Standard Un-Design Relative Variable Value error weighted Weighted effect error Lower Upper (R) (SE) (N) (WN) (DEFT) (SE/R) (R-2SE) (R+2SE) WOMEN Adult mortality rates 1.588 89,203 1.880 15-19 0.146 89,648 1.068 0.092 1.296 20-24 2.393 0.213 99,055 97,777 1.346 0.089 1.967 2.819 25-29 2.525 0.192 94,011 93,464 1.172 0.076 2.141 2.909 80,364 60,748 2.719 3.441 30-34 3.249 0.265 80,516 1.294 0.082 3.779 35-39 4.014 0.286 61.237 1.107 0.071 4.587 38,014 37,201 4.439 6.259 40-44 1.182 0.085 5.349 0.455 45-49 5.856 0.581 21,888 21,625 1.122 0.099 7.017 4.694 480,382 2.961 15-49 (age adjusted) 3.176 0.108 484,368 1.173 0.034 3.391 Adult mortality probabilities 117.438 4.059 484,368 480,382 1.394 0.035 109.320 125.556 Maternal mortality rates 0.630 89,648 89,203 0.812 15-19 0.091 1.067 0.144 0.448 97,777 93,464 99,055 0.663 0.981 0.159 1.583 0.162 20-24 1.298 0.717 25-29 0.946 0.114 94,011 1.137 0.121 1.175 80,364 30-34 1.099 0.137 80,516 1.173 0.125 0.825 1.373 35-39 61,237 60,748 1.124 0.970 1.626 1.298 0.164 0.126 40-44 0.756 0.150 38,014 37,201 1.052 0.198 0.457 1.056 45-49 0.692 0.227 21,888 21,625 1.268 0.328 0.238 1.147 0.795 15-49 (age adjusted) 0.916 0.060 484,368 480,382 1.211 0.066 1.037 512.217 484,368 Maternal mortality ratio 32.845 480,382 1.211 0.064 446.527 577.906 Pregnancy-related mortality rates 0.648 0.093 89,648 89,203 1.072 0.462 0.833 15-19 0.143 99,055 1.575 0.158 0.700 20-24 1.023 0.161 97,777 1.346 25-29 1.099 0.124 94,011 93,464 1.146 0.113 0.850 1.347 30-34 1.338 0.210 80,516 80,364 1.636 0.157 0.917 1.758 35-39 1.327 0.165 61,237 60,748 1.116 0.124 0.997 1.656 38.014 37,201 40-44 0.790 0.151 1.039 0.191 0.488 1.093 45-49 0.238 1.147 0.692 0.227 21,888 21,625 1.268 0.328 0.995 0.065 484,368 480,382 1.296 0.065 0.865 1.125 15-49 (age adjusted) Pregnancy-related mortality ratio 556.461 36.063 484,368 480,382 1.296 0.065 484.336 628.586 MEN Adult mortality rates 1.994 0.192 92,493 92,441 1.263 0.096 1.610 2.377 15-19 2.151 104,004 103,300 2.478 20-24 0.163 1.109 0.076 1.824 2.308 97,194 0.075 2.655 25-29 0.174 98,157 1.110 1.960 30-34 3.143 0.237 85,277 84,669 1.199 0.075 2.669 3.617 35-39 3.443 0.277 66,790 66,201 1.207 0.081 2.888 3.998 40-44 5.911 0.463 42.430 42,406 1.220 0.078 4.984 6.837 45-49 1.210 5.679 7.037 0.679 23,878 23,629 0.097 8.396 15-49 (age adjusted) Adult mortality probabilities 0.122 3.248 513,029 509,841 1.200 0.038 3.005 3.492 4.669 513,029 0.038 112.560 121.898 509,841 1.409 131.236 35**Q**15 Note: All rates are calculated for the period 0-6 years before the survey.

Table C.1 Household age distribution

Single-year age distribution of the de facto household population by sex (weighted), Nigeria DHS 2018

	Woi	men	М	en	_	Wo	men	M	en
Age	Number	Percent	Number	Percent	Age	Number	Percent	Number	Percent
0	2,848	3.0	2,952	3.2	37	808	0.8	859	0.9
1	2,856	3.0	3,134	3.4	38	1,136	1.2	1,108	1.2
2	3,085	3.2	3,091	3.3	39	556	0.6	556	0.6
3	3,395	3.6	3,541	3.8	40	1,852	1.9	1,883	2.0
4	3,463	3.6	3,587	3.9	41	424	0.4	539	0.6
5	3,350	3.5	3,406	3.7	42	758	0.8	893	1.0
6	3,352	3.5	3,337	3.6	43	577	0.6	661	0.7
7	3,219	3.4	3,429	3.7	44	307	0.3	373	0.4
8	3,236	3.4	3,397	3.7	45	1,329	1.4	1,590	1.7
9	2.250	2.4	2,366	2.6	46	437	0.5	528	0.6
10	3,269	3.4	3,208	3.5	47	400	0.4	431	0.5
11	1.743	1.8	1.819	2.0	48	680	0.7	637	0.7
12	2,672	2.8	2,648	2.9	49	444	0.5	313	0.3
13	2,272	2.4	2,160	2.3	50	754	0.8	1,173	1.3
14	1.512	1.6	1.825	2.0	51	438	0.5	281	0.3
15	2,099	2.2	2,218	2.4	52	811	0.9	573	0.6
16	1.603	1.7	1.513	1.6	53	584	0.6	356	0.4
17	1,628	1.7	1,562	1.7	54	509	0.5	332	0.4
18	2.113	2.2	1,894	2.0	55	843	0.9	765	0.8
19	1,276	1.3	1,001	1.1	56	434	0.5	410	0.4
20	2,533	2.7	1.822	2.0	57	264	0.3	300	0.3
21	1.014	1.1	727	0.8	58	439	0.5	395	0.4
22	1.487	1.6	1.112	1.2	59	152	0.2	221	0.2
23	1,181	1.2	861	0.9	60	745	0.8	831	0.9
24	924	1.0	718	0.8	61	158	0.2	256	0.3
25	2,882	3.0	1,814	2.0	62	273	0.3	457	0.5
26	1,131	1.2	887	1.0	63	213	0.2	336	0.4
27	1,393	1.5	965	1.0	64	181	0.2	311	0.3
28	1,569	1.6	1,125	1.2	65	556	0.6	698	0.8
29	823	0.9	610	0.7	66	104	0.1	161	0.2
30	2,798	2.9	2,176	2.3	67	174	0.2	250	0.2
31	700	0.7	628	0.7	68	247	0.2	289	0.3
32	1.287	1.4	1.160	1.3	69	101	0.3	126	0.3
33	844	0.9	785	0.8	70+	1,940	2.0	2,717	2.9
34	775	0.9	765 711	0.8	Don't know	1,940	0.0	2,717	0.0
34 35	2,339	0.8 2.5	2,042	0.8 2.2	DOLL KLIOW	12	0.0	11	0.0
36	2,339 744	0.8	820	0.9	Total	95,304	100.0	92,670	100.0

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview.

Table C.2.1 Age distribution of eligible and interviewed women

De facto household population of women age 10-54, number and percent distribution of interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by 5-year age groups, Nigeria DHS 2018

	Household population of —	Interviewed w	omen age 15-49	Percentage of eligible women
Age group	women age 10-54	Number	Percentage	interviewed
10-14	11,468	na	na	na
15-19	8,719	8,662	20.4	99.4
20-24	7,139	7,095	16.7	99.4
25-29	7,798	7,747	18.2	99.4
30-34	6,403	6,350	14.9	99.2
35-39	5,584	5,548	13.0	99.4
40-44	3,918	3,882	9.1	99.1
45-49	3,290	3,251	7.6	98.8
50-54	3,096	na	na	na
15-49	42,850	42,535	100.0	99.3

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both the household population of women and interviewed women are household weights. Age is based on the Household Questionnaire. na = Not applicable

Table C.2.2 Age distribution of eligible and interviewed men

De facto household population of men age 10-64, interviewed men age 15-59, and number and percent distribution of eligible men who were interviewed (weighted), by 5-year age groups, Nigeria DHS 2018

	Household population of men	Interviewed	Percentage of eligible men	
Age group	age 10-64	Number	Percentage	interviewed
10-14	4,385	na	na	na
15-19	2,460	2,436	18.2	99.0
20-24	1,504	1,490	11.1	99.1
25-29	1,624	1,615	12.0	99.4
30-34	1,808	1,792	13.3	99.1
35-39	1,859	1,850	13.8	99.5
40-44	1,602	1,583	11.8	98.8
45-49	1,206	1,198	8.9	99.3
50-54	845	840	6.3	99.5
55-59	627	619	4.6	98.8
60-64	833	na	na	na
15-59	13,535	13,423	100.0	99.2

Note: The de facto population includes all residents and nonresidents who stayed in the household the night before the interview. Weights for both the household population of men and interviewed men are household weights. Age is based on the Household Questionnaire.

na = Not applicable

Table C.3 Completeness of reporting

Percentage of observations missing information for selected demographic and health questions (weighted), Nigeria DHS 2018

Subject	Reference group	Percentage with information missing	Number of cases
Birth date	Births in the 15 years preceding the survey		
Day only	2 mile in the 10 years proceding the curvey	1.20	91,112
Month only		0.52	91,112
Month and year		0.09	91,112
Age at death	Deceased children born in the 15 years preceding the survey	0.00	11,331
Age/date at first union¹	Ever-married women age 15-49	0.62	31,271
_	Ever-married men age 15-59	1.45	8,348
Respondent's education	All women age 15-49	0.00	41,821
·	All men age 15-59	0.00	13,311
Diarrhoea in last 2 weeks	Living children age 0-59 months	0.35	30,881
Anthropometry of children	Living children age 0-59 months (from the Biomarker Questionnaire)		
Height		2.09	12,996
Weight		2.08	12,996
Height or weight		2.09	12,996
Anthropometry of women	Women age 15-49 (from the Biomarker Questionnaire)		
Height	,	2.93	15,481
Weight		2.92	15,481
Height or weight		2.93	15,481
	Living children age 6-59 months (from the Biomarker		
Anaemia in children	Questionnaire)	3.52	11,803
Anaemia in women	All women (from the Biomarker Questionnaire)	3.71	15,481

Table C.4 Births by calendar years

Number of births, percentage with complete birth date, sex ratio at birth, and calendar year ratio by calendar year, according to living, dead, and total children (weighted), Nigeria DHS 2018

	N	lumber of b	irths		e with year of birth giver		Se	ex ratio at bir	th ¹	Cal	endar year r	atio ²
Calendar year	Living	Dead	Total	Living	Dead	Total	Living	Dead	Total	Living	Dead	Total
2018	5,322	292	5,614	100.0	100.0	100.0	100.5	115.9	101.3	na	na	na
2017	6,332	493	6,825	100.0	99.7	100.0	109.2	116.4	109.7	na	na	na
2016	5,934	729	6,663	100.0	99.4	99.9	104.4	111.7	105.2	95.0	108.7	96.4
2015	6,157	848	7,006	99.9	99.6	99.9	102.5	113.1	103.7	100.9	104.8	101.4
2014	6,270	891	7,160	99.8	99.6	99.8	101.7	106.2	102.2	102.9	111.2	103.9
2013	6,024	753	6,777	99.8	99.5	99.8	99.4	111.6	100.7	97.6	78.7	95.1
2012	6,074	1,023	7,097	98.7	97.1	98.5	102.0	118.6	104.2	104.5	127.3	107.3
2011	5,599	853	6,452	99.3	97.6	99.1	103.2	114.8	104.7	93.1	85.9	92.0
2010	5,959	964	6,923	99.3	97.6	99.1	102.1	111.4	103.4	118.4	123.6	119.1
2009	4,465	705	5,171	99.5	99.1	99.4	110.9	130.2	113.3	77.4	75.8	77.2
2014-2018	30,016	3,252	33,268	99.9	99.6	99.9	103.7	111.6	104.5	na	na	na
2009-2013	28,121	4,298	32,420	99.3	98.1	99.2	103.1	116.7	104.8	na	na	na
2004-2008	21,237	3,719	24,956	99.2	98.2	99.1	103.7	115.9	105.4	na	na	na
1999-2003	14,561	3,223	17,784	98.8	96.8	98.4	103.1	125.1	106.7	na	na	na
Before 1999	14,131	3,979	18,111	98.3	97.6	98.1	105.0	113.3	106.7	na	na	na
All	108,066	18,472	126,538	99.3	98.1	99.1	103.6	116.3	105.4	na	na	na

Table C.5 Reporting of age at death in days

Distribution of reported deaths under age 1 month by age at death in days and percentage of neonatal deaths reported to occur at age 0-6 days, for 5-year periods preceding the survey (weighted), Nigeria DHS 2018

	Numb	er of years p	receding the	survey	
Age at death (days)	0-4	5-9	10-14	15-19	Total 0-19
<1	559	472	278	219	1,528
1	235	140	111	104	589
2	114	103	78	49	345
3	94	85	54	58	292
4	37	34	34	16	121
5	40	40	27	21	127
6	30	28	28	26	112
7	50	43	62	32	187
8	16	24	17	13	69
9	11	13	12	9	45
10	29	13	11	23	77
11	7	2	3	2	15
12	6	9	9	4	28
13	6	4	9	5	23
14	34	29	26	23	112
15	6	9	10	11	35
16	4	3	2	4	13
17	5	3	0	2	11
18	8	1	0	0	8
19	4	0	1	1	6
20	7	8	13	8	37
21	20	15	9	14	58
22	3	0	3	1	7
23	4	1	3	0	8
24	4	1	2	5	12
25	5	8	2	2	17
26	1	4	0	1	6
27	1	0	1	0	3
28	1	5	1	0	7
29	0	1	0	0	1
30	9	12	3	8	32
Total 0-30	1,349	1,111	809	661	3,930
Percentage early neonatal ¹	82.2	81.3	75.3	74.5	79.2

¹ 0-6 days/0-30 days

na = Not applicable 1 (Bm/Bf)x100, where Bm and Bf are the numbers of male and female births, respectively 2 [2Bx/(Bx-1+Bx+1)]x100, where Bx is the number of births in calendar year x

Table C.6 Reporting of age at death in months

Distribution of reported deaths under age 2 by age at death in months and percentage of infant deaths reported to occur under age 1 month, for 5-year periods preceding the survey (weighted), Nigeria DHS 2018

	Numbe	r of years p	receding the	survey	
Age at death (months)	0-4	5-9	10-14	15-19	Total 0-19
<1ª	1,349	1,111	809	661	3,930
1	106	99	96	72	373
2	97	93	78	75	343
3	88	90	76	67	322
4	53	53	63	41	210
5	62	68	39	39	208
6	64	110	60	62	296
7	107	83	58	76	324
8	73	85	68	55	280
9	82	93	73	61	309
10	68	64	60	48	240
11	52	87	94	62	295
12	107	151	139	106	503
13	92	75	72	70	308
14	56	71	70	60	257
15	62	70	60	45	237
16	32	35	39	39	145
17	43	48	44	51	186
18	59	78	84	74	294
19	28	37	33	30	128
20	42	41	23	27	133
21	25	26	13	13	78
22	18	20	20	13	72
23	20	19	13	8	61
Total 0-11	2,201	2,035	1,574	1,319	7,129
Percentage neonatal ¹	61.3	54.6	51.4	50.1	55.1

^a Includes deaths under 1 month reported in days

Table C.7 Standardisation exercise results from anthropometry training

Trainees' precision and accuracy for height measurements from the anthropometry training, Nigeria DHS 2018

	Standardisat	tion exercise ¹	Re-standardis	ation exercise1
Trainee	Trainees' precision ²	Trainees' accuracy ²	Trainees' precision ²	Trainees' accuracy ²
Trainee 1	0.46	0.57	-	-
Trainee 2	1.09	1.16	0.39	0.40
Trainee 3	0.37	0.52	-	-
Trainee 4	0.18	0.67	-	-
Trainee 5	0.27	0.46	=	-
Trainee 6	0.10	0.79	-	-
Trainee 7	0.38	0.33	=	-
Trainee 8	0.39	0.67	=	-
Trainee 9	0.65	0.49	0.26	0.30
Trainee 10	0.23	0.55	=	-
Trainee 11	0.42	4.47	0.40	0.48
Trainee 12	0.33	0.60	=	-
Trainee 13	0.52	0.53	=	-
Trainee 14	0.60	0.61	0.32	0.46
Trainee 15	0.18	0.43	-	-
Trainee 16	0.37	0.41	=	-
Trainee 17	0.19	0.35	-	-
Trainee 18	0.29	0.40	-	-
Trainee 19	6.59	4.46	0.22	0.45
Trainee 20	0.57	0.66	-	-
Trainee 21	0.31	0.68	-	-
Trainee 22	0.32	0.54	=	-
Trainee 23	0.35	0.42	-	-
Trainee 24	0.15	0.82	0.30	0.40
Trainee 25	0.15	0.55	=	-
Trainee 26	0.32	0.47	-	-
Trainee 27	0.06	0.59	-	-
Trainee 28	0.35	0.54	-	-
Trainee 29	0.13	0.36	-	-
Trainee 30	0.13	0.71	=	-
Trainee 31	0.22	0.37	=	-
Trainee 32	0.36	0.52	-	-
Trainee 33	0.63	0.73	0.42	0.98
Trainee 34	0.37	0.36	-	-
Trainee 35	0.20	0.61	-	-
Trainee 36	0.32	0.58	-	-
Trainee 37	0.23	0.51	-	-
Average	0.51	0.77	0.33	0.50

¹ Under 1 month/under 1 year

 $^{^1}$ Ten children were measured twice for each standardisation and re-standardisation exercise. 2 Trainees' precision and accuracy are defined as technical error of measurement (TEM), which is calculated as $\sqrt{(\Sigma^2)/2N)}$, where D is the difference in height and N is the number of repeat measurements. An acceptable TEM according to WHO-UNICEF is a TEM of <0.6 cm for precision and <0.8 cm for accuracy.

Continued...

Table C.8 Height and weight data completeness and quality for children

Among children under age 5 (age 0-59 months) who were eligible for anthropometry, percentage with incomplete or missing height and/or weight measurements and/or date of birth; percentage with out-of-range height-for-age, and/or weight-for-height, and/or weight-for-ege data; and percentage with valid data, according to background characteristics (unweighted), Nigeria DHS 2018

	Percentac	Percentage with data missir	Ď.	or incomplete:		Percen	ntage with im	Percentage with implausible data for:	ta for:		Perc	Percentage with valid data for8:	valid data f	or ⁸ :
Background characteristic	Height ¹	Weight²	Month and/or year ³	Number of children	Number of Height-for- children age ⁴	Number of children with complete height and age ⁵	Weight- for-height ⁶	Number of children with complete weight and height	Weight- for-age ⁷	Number of children with complete weight and age ⁵	Height-f age	Weight- for-height	Weight- for-age	Number of children
Age in months														
9	5.9	2.9	0.0	1,270	2.0	1,233	2.4	1,233	8.0	1,233	95.1	94.8	96.3	1,270
8-9	2.4	2.4	0.1	695	1.2	829	6.0	829	0.0	829	96.4	2.96	9.76	695
9-11	4. 8.	4.8	0.0	262	1.0	584	0.3	584	0.2	284	97.1	8.76	98.0	262
12-17	9.	1.6	0.1	1,443	 6.	1,420	0.0	1,420	0.2	1,420	97.1	97.5	98.2	1,443
18-23	1.7	1.7	0.2	1,144	8.0 1	1,124	4.0	1,124	0.3	1,125	97.5	97.8	98.1	1,144
24-35	5.5	2. c 4. c	4.0	2,481	7.0	2,416	o.o.	2,420	0.0	2,417	96.7	97.2	97.3	2,481
30-47 48-59	2.6	2.6	0.0	2,622	0.5	2,546 2,546	0.5	2,555	0.0	2,546	90.9 96.6	96.96	97.1	2,530
Sex Male Female	2.3 2.3	2.3	0.3 0.3	6,480 6,326	1.1	6,324 6,174	0.6	6,332 6,181	0.2	6,324 6,175	96.5 96.9	97.1 97.1	97.4 97.5	6,480 6,326
Mother's interview status Interviewed Not interviewed but in household	1.9	1.9 7.7 7.0	0.1	11,695	0.0 6.0	11,467	9.0	11,472	0.2	11,468	97.1	97.5	97.9	11,695
Not interviewed and not in the household ⁹	1.4	1 7.	2.5	887	9:0	841	0.8	851	0.2	841	94.0	95.2	94.6	887
Zone North Central North East North West South East South South South West	1. 8. 9. 1. 8. 1. 5. 1. 6. 1. 6. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1 8 9 1 2 2 4 4 4 5 5 5 F.	0.00000 4.4.1.0001	2,233 2,340 3,030 1,875 1,428	0	2,198 2,257 2,955 1,847 1,375	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,206 2,261 2,954 1,847 1,377	0.0.0.0.0 - 4.4.0.0	2,198 2,257 2,956 1,847 1,375	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 99 7.7 4 6.0 99 99 99 90 90 90 90 90 90 90 90 90 90	98.3 96.2 97.2 96.3 98.2	2,233 2,340 3,030 1,875 1,428
State North Central FCT-Abuja Benue Kogi Kwara Nasarawa Niger Plateau	0.00 3.00 0.03 0.00 0.07	2.9 0.0 0.0 3.2 0.7	0.0 0.0 0.0 0.0 0.0 0.0	312 380 221 263 311 320	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	299 380 214 261 301 320	00000000000000000000000000000000000000	303 380 216 263 301 320	0000000	299 380 214 261 301 320	0.000000000000000000000000000000000000	96.5 99.2 99.2 96.5 100.0	95.5 100.0 96.8 99.2 99.3	312 380 221 263 311 320
North East Adamawa Bauchi Borno Gombe Taraba Yobe			0.0 0.0 0.0 0.0 0.0 0.0	321 450 373 428 366 402	0 0.3 2.55 1.60 2.4	316 445 356 413 351 376	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	316 445 356 417 351 376	0.0000000000000000000000000000000000000	316 445 356 413 351 376	98.2 93.2 93.5 95.1	97.5 93.8 95.6 92.5	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	321 450 373 428 366 402

	Percentag	Percentage with data r	missing or incomplete	complete:		Percer	itage with im	Percentage with implausible data	ta for:		Perc	Percentage with valid data for ⁸ :	n valid data	for ⁸ :
Background characteristic	Height¹	Weight ²	Month and/or vear ³	Number of children	Height-for-	Number of children with complete height and age5	Weight- for-height ⁶	Number of children with complete weight and height	Weight- for-age ⁷	Number of children with complete weight and age5	Height-for- age	Weight- for- height	Weight- for-age	Number of children
100/W 4#0/W) ()) 6			5) D	0) 	
North West	4	4	c	707	7	722	4	722	0	755	0 20	00	90	767
Sodawa			0.0	† 7 7	- c	777	0.0	775	9 6	777	6.70	0.20	0.70	1 7 7
Kaduna	- 6	- 10	0.0	101	о <u>4</u> й с	777	0.0	774	0.0	775	9.79	97.4	97.9	- ი
Kateina	, c	7.0	5.0	200	- <u>-</u>	203		509		501	95.9	- 76	- 76 - 70 - 70	200
Katsilla	ţ. 4	÷ c	9.0	000	‡ c	100	- -	000	- C	000	5.00	90.0	1.00	200
Sokoto	- 1 6 <i>c</i>	- C	0.0	340		30.		300		303	90 07.0	97.0	ο α ο α	340
Zamfara	0.3	0.3	0.0	379	6. 4 0. 0	378	3.2	378	0.8	378	95.8	9.96	6.86 6.86	379
South East														
Abia	1.0	1.0	0.0	292	1.0	289	0.7	289	0.7	289	6.76	98.3	98.3	292
Anambra	0.7	0.7	0.0	451	0.2	448	0.0	448	0.0	448	99.1	99.3	99.3	451
Ebonyi	0.4	0.4	0.0	490	0.0	488	0.2	488	0.0	488	9.66	99.4	9.66	490
Enugu	5.1	5.1	0.0	277	0.0	263	0.0	263	0.0	263	94.9	94.9	94.9	277
lmo	1.6	1.6	0.0	365	0.0	329	0.3	329	0.0	329	98.4	98.1	98.4	365
South South														
Akwa Ibom	2.7	2.7	8.0	261	0.0	254	0.0	254	0.0	254	97.3	97.3	97.3	261
Bayelsa	1. 4.	4. I	0.0	290	- 4	286	0.0	286	0.0	286	97.2	98.6	98.6	290
Cross River	5.7	5.7	4.6	174	0.0	164	9.0	164	0.0	164	94.3	93.7	94.3	174
Delta	9.9	9.9	6.0	212	0.0	198	1.0	198	0.0	198	93.4	92.5	93.4	212
Edo	0.8	0.0	7.7	176	0.0	160	9.0	162	0.0	160	6.06 6.00	91.5	6.06 6.00	176
Kivers	0.0	0.0	0.0	3 13	0.3	513	0.0	515	0.0	515	99.0	99.4	4.88	3.13
South West	c	c	Ċ	ääc	~	880	6	ääc	c	288	7 00	7 00	0 001	880
Lagos Lagos	0.0	0.0	0.0	372	0.0	355 355		355	9 0	355	95.4	95.7	95.4	372
Callo	5 5	ο σ • •	0.0	3,15	0.0	308	0.0	308	0.0	308	28.1	98.1	286	315
opio	0.0	0.0	0.0	235	0.0	235	9.0	235	0.0	235	100.0	966	100.0	235
osno	3.1	3.1	0.0	288	4.0	279	0.4	279	0.0	279	96.5	96.5	6.96	288
Oyo	0.0	0.0	0.5	402	0.3	400	1.0	405	0.0	400	99.3	99.0	99.5	402
Mother's education														
No education	2.7	2.6	0.2	4,591	1.8	4,465	1.1	4,467	0.4	4,466	95.5	96.3	6.96	4,591
Primary	1.3	1.3	0.3	1,996	9.0	1,968	0.4	1,970	0.1	1,968	98.0	98.3	98.5	1,996
Secondary	1.8	1 .8	0.0	4,245	4.0	4,169	0.3	4,169	0.0	4,169	8.76	6.76	98.2	4,245
More than secondary	2.9	2.9	0.2	1,087	0.0	1,055	0.3	1,056	0.0	1,055	97.1	96.9	97.1	1,087
Total	2.3	2.3	0.3	12,806	6.0	12,498	9.0	12,513	0.2	12,499	296.7	97.1	97.4	12,806

¹ Child's height in centimetres is missing, child was not present, child refused, and "other" result codes
² Child's weight in kilograms is missing, child was not present, child refused, and "other" result codes
³ Incomplete date of birth; a complete date of birth is month/day/year or month/year.
⁴ Implausible cases for height-for-age are defined as more than 6 standard deviations (SD) above or below the standard population median (Z-scores) based on the WHO Child Growth Standards among children with complete sees is calculated from month and year of birth.
⁶ Complete age is calculated from month and year of birth.
⁶ Implausible cases for weight-for-height are defined as more than 5 SD above or below the standard population median (Z-scores) based on the WHO Child Growth Standards among children with complete

weight and height data.
7 Implausible cases for weight-for-age are defined as more than 6 SD below or 5 SD above the standard population median (Z-scores) based on the WHO Child Growth Standards among children with

complete weight and month/year of birth data.

⁸ No missing data, incomplete data, or implausible data

⁹ Includes children whose mothers are deceased

Table C.9 Height measurements from random subsample of measured children

Differences in first height measurement and second height measurement among children under age 5 (0-59 months) randomly selected and remeasured, according to zone and measurer (unweighted), Nigeria DHS 2018

			Percentage of		
	Median difference in height	in height	measurements with	Measurers'	Number of children randomly selected
Zone and measurer	measurements ¹	measurements	a difference >1 cm	precision ²	and remeasured
Zone					
North Central	0.1	5.7	1.6	0.3	380
North East	0.1	36.0	3.0	1.9	367
North West	0.1	27.1	2.0	1.6	449
South East	0.1	20.0	1.2	0.9	252
South South	0.2	19.9	3.3	0.9	307
South West	0.0	10.0	1.1	0.4	282
Measurer					
Measurer 1	0.0	1.0	0.0	0.1	57
Measurer 2	0.0	0.0	0.0	0.0	50
Measurer 3	0.3	0.9	0.0	0.3	7
Measurer 4	0.3	1.0	0.0	0.2	48
Measurer 5	0.2	1.0	0.0	0.2	49
Measurer 6	0.2	2.7	3.6	0.4	56
Measurer 7	0.2	4.0	1.8	0.4	55
	0.2				
Measurer 8		5.7	5.1	0.6	59
Measurer 9	0.0	5.7	1.7	0.5	60
Measurer 10	0.1	2.8	1.8	0.3	57
Measurer 11	0.0	30.1	3.4	3.4	59
Measurer 12	0.3	5.9	3.7	0.8	54
Measurer 13	0.1	36.0	1.7	3.3	59
Measurer 14	0.1	1.2	4.5	0.2	67
Measurer 15	0.2	4.0	10.0	0.9	10
Measurer 16	0.0	0.0	0.0	0.0	1
Measurer 17	0.1	20.9	7.5	2.7	67
Measurer 18	0.1	0.4	0.0	0.1	66
Measurer 19	0.2	8.0	0.0	0.2	81
Measurer 20	0.0	1.4	1.6	0.1	62
Measurer 21	0.3	27.1	2.8	3.1	72
Measurer 22	0.0	0.2	0.0	0.0	47
Measurer 23	0.1	1.1	1.9	0.1	54
Measurer 24	0.0	1.0	0.0	0.2	59
Measurer 25	0.0	5.0	2.7	0.6	37
Measurer 26	0.1	0.7	0.0	0.1	14
Measurer 27	0.4	0.6	0.0	0.2	42
Measurer 28	0.1	20.0	3.6	1.9	55
Measurer 29	0.0	0.5	0.0	0.1	45
Measurer 30	0.2	0.3	0.0	0.1	48
Measurer 31	0.4	0.6	0.0	0.3	4
Measurer 32	0.2	2.4	10.8	0.5	37
Measurer 33	0.1	0.4	0.0	0.1	59
Measurer 34	0.2	0.5	0.0	0.2	51
Measurer 35	0.0	19.9	6.7	2.1	45
Measurer 36	0.1	8.1	5.3	1.3	19
Measurer 37	0.2	3.9	4.7	0.5	43
Total	0.1	36.0	2.1	1.2	2,037

Table C.10 Sibship size and sex ratio of siblings

Mean sibship size and sex ratio of siblings at birth, Nigeria DHS 2018

Age of respondents	Mean sibship size1	Sex ratio of siblings at birth ²
15-19	6.3	103.9
20-24	6.4	105.7
25-29	6.3	106.4
30-34	6.2	106.6
35-39	6.2	107.4
40-44	6.1	109.0
45-49	5.8	105.5
Total	6.2	106.1

 $^{^1}$ Median absolute difference between measurers' first and second height measurements 2 Measurers' precision is defined as technical error of measurement, which is calculated as $\sqrt{(\sum D^2)/2N)}$, where D is the difference in height and N is the number of repeat measurements.

¹ Includes the respondent ² Excludes the respondent

Table C.11 Pregnancy-related mortality trends

Direct estimates of pregnancy-related mortality rates for the 7 years preceding each survey, by 5-year age groups, Nigeria DHS

	Pre	gnancy-related mortality	rates ^{1,2}
	NDHS 2018	NDHS 2013	NDHS 2008
Age	(2011-2018)	(2006-2013)	(2001-2008)
15-19	0.65	0.71	0.82
20-24	1.02	1.25	1.04
25-29	1.10	1.11	0.98
30-34	1.34	1.00	1.59
35-39	1.33	1.62	1.15
40-44	0.79	1.10	0.98
45-49	0.69	0.59	0.34
Total 15-49	1.00a	1.05ª	1.00 ^a
Total fertility rate (TFR)	5.74	5.86	5.95
General fertility rate (GFR)3	0.179a	0.183a	0.186a
Pregnancy-related mortality ratio	556	576	545
(PRMR) ⁴	(CI: 484-629)	(CI: 500-652)	(CI: 475-615)
Lifetime risk of pregnancy-related death ⁵	0.032	0.033	0.032

CI: Confidence interval

1 Pregnancy-related mortality is defined as the death of a woman while pregnant or within 2 months of termination of pregnancy from any cause, including accidents or violence.

2 Expressed per 1,000 woman-years of exposure

3 Age-adjusted rate expressed per 1,000 women age 15-49

4 Expressed per 100,000 live births; calculated as the age-adjusted pregnancy-related mortality rate times 100 divided by the age-adjusted general fertility rate

5 Calculated as 1-(1-PRMR)^{TFR}, where TFR represents the total fertility rate for the 7 years preceding the survey

a Age-adjusted rate

Table C.12 Data collection period

Number of enumeration areas completed by month, according to zone and state, Nigeria DHS 2018

				Month			
North Central 18		August	September	October	November	December	Total
North Central 18	Zone	<u> </u>	·				
North West		18	79	62	60	33	252
North West 15							
South East 10 54 45 40 37 186 South South West 19 69 66 53 29 221 South West 19 69 66 63 31 238 State St							
South West 15 65 59 53 29 221 South West 19 69 66 63 31 238 State Stat							
South West							
State							
North Central FCT-Abuja	South West	19	09	00	33	31	230
FCT-Abuja							
Benue							
Kogi Kwara 2 9 11 9 5 36 Kwara 2 12 8 6 7 35 Nasarawa 4 8 12 6 5 35 Niger 3 13 12 9 8 5 35 Niger 3 13 12 9 8 5 35 Niger 3 13 12 9 8 5 35 North East Adamawa 1 15 7 7 5 35 Bauchi 6 7 9 9 8 39 Borno 1 11 11 6 6 11 35 Gombe 1 11 10 8 9 8 39 39 Gombe 1 11 10 7 9 12 39 North West 1 10 7 9							
Kwara 2 12 8 6 7 35 Nasarawa 4 8 12 6 5 35 Niger 3 13 5 16 1 38 Plateau 1 12 9 8 5 35 North East Adamawa 1 15 7 7 5 35 Bauchi 6 7 9 9 8 39 Borno 1 11 11 8 7 38 Gombe 1 11 6 6 11 35 North West 1 10 8 9 6 11 35 North West 1 10 7 9 12 39 Jigawa 1 10 7 9 12 39 Kaduna 1 10 7 9 12 39 Kaduna 1 10							
Nasarawa		2					
Niger 9 3 13 5 16 1 38 Plateau 1 1 12 9 8 8 5 35	Kwara	2	12	8	6	7	35
Piateau	Nasarawa		8	12	6	5	35
North East Adamawa 1 1 15 7 7 7 5 35 Bauchi 6 7 9 9 9 8 39 Borno 1 1 111 11 8 7 38 Gombe 1 1 111 6 6 6 11 35 Taraba 1 10 8 9 6 11 35 Yobe 1 8 9 6 11 35 North West Jigawa 1 1 10 7 9 12 39 Kaduna 1 8 7 7 19 42 Kano 7 10 8 9 19 9 33 Katsina 3 10 110 8 9 19 53 Katsina 3 10 10 8 9 19 40 Kebbi 1 100 9 6 9 19 33 Sokoto 1 111 10 7 5 34 Zarnfara 1 12 9 9 1 1 32 South East Abia 2 11 9 6 8 6 36 Anambra 1 11 9 7 7 8 36 Enugu 1 13 8 8 7 7 8 8 36 Enugu 1 13 8 8 8 6 36 Enugu 1 13 8 8 8 6 36 Enugu 1 13 8 8 8 7 7 8 9 39 South South Akwa Ibom 7 10 9 7 7 8 33 South South Akwa Ibom 7 10 9 7 7 8 36 Enugu 1 111 12 8 8 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 8 36 Enugu 1 1 11 17 7 7 7 8 36 Enugu 1 1 11 17 7 7 7 8 36 Enugu 1 1 11 7 7 10 5 35 Enugu 1 1 11 7 7 10 5 35 Enugu 1 1 11 7 7 10 5 35 Enugu 1 1 11 7 7 10 5 35 Enugu 1 1 11 7 7 10 5 35 Enugu 1 1 11 7 7 10 5 35 Enugu 1 1 11 7 10 7 4 39 South South Akwa Ibom 7 10 9 7 7 10 5 35 Cross River 2 111 17 7 10 5 35 Edo 2 111 11 7 10 7 4 39 Edo 2 111 11 7 7 10 5 35 Edo 2 11 11 10 7 10 11 5 38 Edo 2 11 11 10 7 1 39 Edo 2 11 11 10 7 1 4 35 Edo 2 11 11 10 7 1 4 35 Edo 2 11 11 10 7 1 4 35 Edo 2 11 11 10 7 1 4 35 Edo 2 11 11 10 7 1 4 35 Edo 2 11 11 10 7 4 36 Edo 2 11 11 11 7 7 4 35 Edo 2 11 11 10 7 1 39 Edon 2 2 12 11 11 10 7 1 39 Edon 2 2 14 11 11 9 1 37 Ondo 2 1 12 11 10 6 7 7 36 Ogun 2 11 11 10 6 7 7 36 Ogun 2 10 8 14 9 9 43	Niger	3	13	5	16	1	38
Adamawa 1 1 15 7 7 7 5 35 Bauchi 6 7 9 9 9 8 39 Borno 1 111 111 18 7 38 Gombe 1 1 111 11 18 8 7 38 Borno 1 1 111 11 18 8 7 38 Gombe 1 1 110 8 10 6 35 Yobe 1 8 10 6 35 Yobe 1 8 8 7 7 7 10 6 35 Yobe 1 1 8 7 7 7 19 12 39 Kaduna 1 1 8 7 7 7 19 42 Kano 7 10 8 8 9 19 9 53 Katsina 3 10 110 8 9 19 9 53 Katsina 3 10 110 8 9 19 9 53 Katsina 1 10 9 6 9 35 Sokoto 1 1 11 10 9 6 9 35 Sokoto 1 1 11 10 7 7 5 34 Zamfara 1 12 9 9 9 1 1 32 South East Abia 2 11 9 9 11 7 39 Ebonyi 5 9 7 7 7 8 36 Enugu 1 1 13 8 8 8 6 36 Enugu 1 1 13 8 8 8 6 36 Enugu 1 1 13 8 8 8 6 36 Enugu 1 1 11 12 8 8 7 7 7 9 9 11 7 39 Ebonyi 5 9 7 7 7 8 36 Enugu 1 1 11 12 8 8 7 7 7 9 9 11 7 9 9 9 5 1 9 5 9 7 7 7 7 8 8 36 8 9 10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Plateau	1	12	9	8	5	35
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Borno							
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Ogun Ogun 2 14 11 9 1 37 Ondo Ondo Osun Oyo 2 12 11 9 2 36 Ondo Oyo 2 11 10 6 7 36 Ondo Oyo 2 10 8 14 9 43 Percent 6.3 28.8 24.6 22.1 18.1 100.0							
Ondo Osun 2 12 11 9 2 36 Osun Osun Oyo 2 11 10 6 7 36 Osun Oyo 2 10 8 14 9 43 Percent 6.3 28.8 24.6 22.1 18.1 100.0							
Osun Oyo 2 11 10 6 7 36 Oyo 2 10 8 14 9 43 Percent 6.3 28.8 24.6 22.1 18.1 100.0							
Oyo 2 10 8 14 9 43 Percent 6.3 28.8 24.6 22.1 18.1 100.0							
Percent 6.3 28.8 24.6 22.1 18.1 100.0							
	Oyo	2	10	8	14	9	43
Total 88 400 342 307 252 1,389	Percent	6.3	28.8	24.6	22.1	18.1	100.0
	Total	88	400	342	307	252	1,389

Note: Enumeration areas are classified by month according to the date by which the last Biomarker Questionnaire in the enumeration area was completed.

Table C.13 Malaria prevalence according to rapid diagnostic test (RDT)

Percentage of children age 6-59 months classified as having malaria according to RDT by month, according to zone and state, Nigeria DHS 2018

			Month			
	August	September	October	November	December	Total
Zone						
North Central	29.1	37.8	41.4	33.8	39.2	37.0
North East	37.1	30.2	38.9	45.2	28.6	35.6
North West	28.0	55.6	57.7	53.8	40.9	49.5
South East	29.3	32.5	19.6	24.6	26.4	26.1
South South	20.7	28.7	25.1	23.6	24.8	25.4
South West	16.7	32.5	30.1	28.1	30.3	28.9
State						
North Central						
FCT-Abuja	(24.7)	46.0	11.2	23.6	(67.6)	31.3
,	(2-1.7)	13.9	37.1	36.3	` '	26.0
Benue	*				(24.6)	
Kogi		42.2	56.4	54.6	(26.6)	46.0
Kwara	*	26.8	42.4	(40.8)	(74.3)	43.7
Nasarawa	(18.3)	41.7	44.8	29.4	(26.6)	32.1
Niger	(21.7)	50.4	64.6	33.2	*	43.8
	(21.7)				*	
Plateau		56.1	22.0	17.3		37.2
North East						
Adamawa	*	21.9	53.7	47.7	(39.0)	38.9
Bauchi	53.2	61.5	44.7	55.6	18.3	48.6
Borno	*	4.8	32.4	29.3	10.0	16.2
Gombe	*	35.8	67.4	62.2	54.1	52.0
Taraba	*		30.5			
	*	44.9		34.5	(35.6)	35.2
Yobe	*	36.1	18.3	40.2	24.3	30.3
North West						
Jigawa	*	53.3	53.1	54.9	43.0	49.4
Kaduna	*	28.3	52.8	40.6	30.4	34.3
Kano	40.3	40.6	39.3	44.7	46.6	43.0
	40.5					
Katsina	*	65.7	73.0	50.0	38.0	55.4
Kebbi		79.2	72.2	82.7	79.1	76.8
Sokoto	*	57.9	58.4	(58.5)	(36.9)	54.7
Zamfara	*	55.2	51.9	64.9	*	51.8
South East						
Abia	*	29.9	14.3	21.4	(17.2)	20.7
Anambra	*	17.0	11.5	10.3	15.3	15.2
	05.7					
Ebonyi	35.7	62.5	47.5	40.7	46.6	49.3
Enugu	*	30.2	14.9	43.8	(4.7)	30.2
Imo	*	14.0	14.2	23.9	20.7	15.6
South South						
Akwa Ibom	(43.8)	(32.2)	25.8	(38.4)	(29.7)	33.2
Bayelsa	*	28.3	33.3	15.5	39.4	30.1
	*		*		39. 4 *	
Cross River		(46.1)		(11.7)		26.4
Delta	*	(33.5)	22.5	(19.1)	*	24.9
Edo	*	(13.4)	(20.7)	(33.4)	*	19.1
Rivers	*	24.9	28.9	20.5	*	22.3
South West						
Ekiti	*	44.2	44.2	(71.6)	(55.3)	46.3
	3.1	0.7	2.9	5.7	3.6	3.4
Lagos	J. I					
Ogun	*	35.5	41.6	22.8	*	32.2
Ondo	*	30.1	62.6	(31.1)	*	41.6
Osun	*	50.9	52.5	(50.5)	(64.9)	54.9
Oyo	*	35.9	23.3	47.0	36.2	33.9
-	00.0					
Total	26.2	38.3	37.6	36.8	35.0	36.2

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases or that there were no children measured for malaria in the province for the month.

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NIGERIA DEMOGRAPHIC AND HEALTH SURVEYS 2018 HOUSEHOLD QUESTIONNAIRE

NIGERIA

NATIONAL POPULATION COMMISSION

		IDENTIFICA	TION										
STATE LOCAL GOVT. AREA LOCALITY ENUMERATION AREA NAME OF HOUSEHOLE CLUSTER NUMBER HOUSEHOLD NUMBER	HEAD												
HOUSEHOLD SELECTE	HOUSEHOLD SELECTED FOR MAN'S SURVEY? (1=YES, 2=NO) INTERVIEWER VISITS												
	1	2	3	FINAL VISIT									
DATE INTERVIEWER'S NAME RESULT*				DAY MONTH YEAR INT. NO. RESULT*									
NEXT VISIT: DATE													
TIME				TOTAL NUMBER OF VISITS									
*RESULT CODES: 1 COMPLETED 2 NO HOUSEHOLD MEMBER AT HOME OR NO COMPETENT RESPONDENT AT HOME AT TIME OF VISIT 3 ENTIRE HOUSEHOLD ABSENT FOR EXTENDED PERIOD OF TIME 4 POSTPONED 5 REFUSED 6 DWELLING VACANT OR ADDRESS NOT A DWELLING 7 DWELLING DESTROYED 8 DWELLING NOT FOUND 9 OTHER (SPECIFY) TOTAL ELIGIBLE WOMEN TOTAL ELIGIBLE MEN LINE NO. OF RESPONDENT TO HOUSEHOLD QUESTIONNAIRE													
LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF QUESTIONNAIRE**	1 LANGUA INTERV	view** **Langu, 01		TRANSLATOR USED (YES = 1, NO = 2) YORUBA IGBO									
SUPERV	ISOR	NUMBER		FIELD EDITOR NUMBER									

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INTRODUCTION AND CONSENT

are con plan he The quanyone question the next contact GIVE C	My name is aducting a survey about health and other topics all over Nigericalth services. Your household was selected for the survey. It is estions usually take about 20 to 30 minutes. All of the answers other than members of our survey team. You don't have to be since your views are important. If I ask you any question you question or you can stop the interview at any time. In case you the person listed on this card. CARD WITH CONTACT INFORMATION have any questions?	a. The information we collect will help the government to would like to ask you some questions about your household. It you give will be confidential and will not be shared with the survey, but we hope you will agree to answer the ou don't want to answer, just let me know and I will go on to
SIGNA	TURE OF INTERVIEWER	DATE
	RESPONDENT AGREES TO BE INTERVIEWED 1	RESPONDENT DOES NOT AGREE TO BE INTERVIEWED 2 → END
100	RECORD THE TIME.	HOURS

				11000	SEHOLD SC	HEDOLL									
							IF AGE 15 OR OLDER								
LINE NO.	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HEAD OF HOUSEHOLD	SEX	RESID	DENCE	AGE	MARITAL STATUS	ELIGIBILITY							
1	2	3	4	5	6	7	8	9 10 11							
	Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.	What is the relationship of (NAME) to the head of the household?	Is (NAME) male or female?	Does (NAME) (NAME) usually live here? Did (NAME) stay here last night?		How old is (NAME)?	What is (NAME)'s current marital status?	CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49	IF HOUSE- HOLD SELEC- TED FOR MAN'S SURVEY	CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5					
	AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE. THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON.	SEE CODES BELOW.				IF 95 OR MORE, RECORD '95'.	1 = MARRIED OR LIVING TOGETHER 2 = DIVORCED/ SEPARATED 3 = WIDOWED 4 = NEVER- MARRIED AND NEVER LIVED TOGETHER		CIRCLE LINE NUMBER OF ALL MEN AGE 15-59						
01			M F 1 2	Y N 1 2	Y N 1 2	IN YEARS		01	01	01					
02			1 2	1 2	1 2			02	02	02					
03			1 2	1 2	1 2			03	03	03					
04			1 2	1 2	1 2			04	04	04					
05			1 2	1 2	1 2			05	05	05					
06			1 2	1 2	1 2			06	06	06					
07			1 2	1 2	1 2			07	07	07					
08			1 2	1 2	1 2			08	08	08					
09			1 2	1 2	1 2			09	09	09					
10			1 2	1 2	1 2			10	10	10					
ar	ust to make sure that I have a con ny other people such as small chil			3	➤ ADD TO	NO 🗆	CODES FOR Q. 3: RE								
2B) Ai	any order people such as small children or infants data we have not listed? 2B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here? ADD TO NO 01 = HEAD 10 = NIECE/NEPHEW BY 02 = WIFE OR HUSBAND 03 = SON OR DAUGHTER 11 = NIECE/NEPHEW BY 04 = SON-IN-LAW OR MARRIAGE														
2C) Ai	Will disdaily liver leter 1 CP Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed? ADD TO TABLE 04 - SOIN-IN-LAW OR DAUGHTER-IN-LAW 12 - OTHER RELATIVE 05 = GRANDCHILD 13 = ADOPTED/FOSTER/ 06 = PARENT STEPCHILD 07 = PARENT-IN-LAW 14 = NOT RELATED 08 = BROTHER OR SISTER 15 = CC-WIFE														

568 • Appendix E

				<u>HUU3</u>	EHOLD SC	HEDULE				
							IF AGE 15 OR OLDER			
LINE NO.	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HEAD OF HOUSEHOLD	SEX	RESIDENCE AGE		MARITAL STATUS	ELIGIBILITY			
1	2	3	4	5	6	7	8	9	10	11
	Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.	What is the relationship of (NAME) to the head of the household?	is (NAME) male or female?	Does (NAME) usually live here?	Did (NAME) stay here last night?	How old is (NAME)?	What is (NAME)'s current marital status?	CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49	IF HOUSE- HOLD SELEC- TED FOR MAN'S SURVEY	CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5
	AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE. THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-20 FOR EACH PERSON.	RDING		1 = MARRIED OR LIVING TOGETHER 2 = DIVORCED/ SEPARATED 3 = WIDOWED 4 = NEVER- MARRIED AND NEVER LIVED TOGETHER		CIRCLE LINE NUMBER OF ALL MEN AGE 15-59				
11			M F 1 2	Y N 1 2	Y N 1 2	IN YEARS		11	11	11
12			1 2	1 2	1 2			12	12	12
13			1 2	1 2	1 2			13	13	13
14			1 2	1 2	1 2			14	14	14
15			1 2	1 2	1 2			15	15	15
16			1 2	1 2	1 2			16	16	16
17			1 2	1 2	1 2			17	17	17
18			1 2	1 2	1 2			18	18	18
19			1 2	1 2	1 2			19	19	19
20			1 2	1 2	1 2			20	20	20
TICK	HERE IF CONTINUATION SHEE	ET USED								

CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD

01 = HEAD 10 = NIECE/NEPHEW BY 02 = WIFE OR HUSBAND 03 = SON OR DAUGHTER 11 = NIECE/NEPHEW BY 04 = SON-IN-LAW 0R MARRIAGE DAUGHTER-IN-LAW 12 = OTHER RELATIVE 05 = GRANDCHILD 13 = ADOPTED/FOSTER/ 06 = PARENT STEPCHILD 14 = NOT RELATED 08 = BROTHER OR SISTER 15 = CO-WIFE 09 = BROTHER-IN-LAW/SISTER 18 = DON'T KNOW IN-LAW

LINE 1.00			IF AGE 0-	17 YEARS		IF AGE 5 YEARS OR OLDER		IF A	GE 5-24 YEARS	IF AGE 0-4 YEARS		
In NAME Does (NAME) In NAME In					EV							
Patrice Patr		12	13	14	15	16	17	18 19		20A	20B	20C
No. No.		natural mother	natural mother usually live in this household or was she a guest last night?	natural father	natural father usually live in this household or was he a guest last night?	(NAME) ever attended	of school (NAME) has attended? What is the highest class/year (NAME)	attend school at any time during the 2017-2018 (2018-2019) school	year, what level and class/year [is/was]	(NAME'S) birth	authority was (NAME'S) birth	(NAME'S) birth
SEE CODES SEE								year?				
Note			MOTHER'S LINE		FATHER'S LINE						2 = LGA 3 = PRIVATE CLINIC/ HOSPITAL	2 = NOT
1 2 8 1 2 8 1 2 8 1 2 8 1 2 8			RECORD		RECORD						4 = OTHER	
02	01	1 2 7 8		1 2 - 8		1 2	LEVEL CLASS/YEAR	1 2	LEVEL CLASS/YEAR	1 2 78		
O3	02	V		V		V		V		\		
GO TO 14 GO TO 16 GO TO 21 GO TO 21 NEXT LINE 05	03	V		V		V		. ↓		V		
05 GO TO 14 GO TO 16 GO TO 21 GO TO 21 NEXT LINE 06 1 2 + 8 GO TO 14 GO TO 16 GO TO 21 GO TO 21 NEXT LINE 07 1 2 + 8 GO TO 14 GO TO 16 GO TO 21 GO TO 21 GO TO 21 TO TO TO TO TO TO TO TO TO TO TO TO TO	04	V		V				↓		V		
06	05	V		V		V		V		V		
07 GO TO 14 GO TO 16 GO TO 21 GO TO 21 NEXT LINE 08 1 2 7 8 GO TO 14 GO TO 21 1 2 7 8 NEXT LINE 09 1 2 7 8 GO TO 14 GO TO 21 1 2 7 8 NEXT LINE 10 1 2 7 8 GO TO 16 GO TO 21 1 2 7 8 NEXT LINE 10 1 2 7 8 GO TO 14 1 2 7 8 NEXT LINE 10 1 2 7 8 NEXT LINE 10 1 2 7 8 NEXT LINE	06	V		V		V		. ↓		V		
08 GO TO 14 GO TO 16 GO TO 21 GO TO 21 NEXT LINE 09 1 2 7 8 GO TO 14 GO TO 21 1 2 7 8 NEXT LINE 10 1 2 7 8 GO TO 16 GO TO 21 1 2 7 8 NEXT LINE 10 1 2 7 8 GO TO 21 1 2 7 8 NEXT LINE	07	V		V				↓		V		
09 GO TO 14 GO TO 16 GO TO 21 GO TO 21 NEXT LINE 10 1 2 - 8	08	V		V		V		. ↓		*		
	09	₩								*		
	10	¥		1 2—8 GO TO 16						*		

CODES FOR Qs. 17 AND 19: EDUCATION

LEVEL 0 = PRESCHOOL 1 = PRIMARY 2 = SECONDARY 3 = HIGHER 8 = DON'T KNOW

EDUCATION YEAR

01-03 = YEARS AT PRE-PRIMARY/KINDERGARTEN

01-06 = YEARS 1-6 AT PRIMARY LEVEL

01-06 = YEARS 1-6 AT SECONDARY LEVEL

01 - TOTAL NUMBER OF YEARS AT HIGHER LEVEL*

00 = LESS THAN 1 YEAR COMPLETED

(USE '00' FOR Q. 17 ONLY. THIS CODE IS NOT ALLOWED FOR Q. 19.)

98 = DON'T KNOW

*FOR `HIGHER' TOTAL THE NUMBER OF YEARS AT THE POST-SECONDARY LEVEL

		IF AGE 0-	17 YEARS		IF AGE 5 YEARS OR OLDER		IF A	GE 5-24 YEARS	IF AGE 0-4 YEARS		
LINE NO.	SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS			EV	EVER ATTENDED SCHOOL		CURRENT/RECENT SCHOOL ATTENDANCE		BIRTH REGISTRATION		
	12	13	14	15	16	17	18	19	20A	20B	20C
	Is (NAME)'s natural mother alive?	Does (NAME)'s natural mother usually live in this household or was she a guest last night?	Is (NAME)'s natural father alive?	Does (NAME)'s natural father usually live in this household or was he a guest last night?	Has (NAME) ever attended school?	What is the highest level of school (NAME) has attended? What is the highest class/year (NAME) completed at that level?	Did (NAME) attend school at any time during the 2017-2018 (2018-2019) school year?	During [this/that] school year, what level and class/year [is/was] (NAME) attending?	Was (NAME'S) birth registered?	With which authority was (NAME'S) birth registered?	May I see (NAME'S) birth certificate?
		is her name? RECORD MOTHER'S LINE NUMBER.		is his name? RECORD FATHER'S LINE NUMBER.			your			1 = NPOPC 2 = LGA 3 = PRIVATE CLINIC/ HOSPITAL 4 = OTHER	1 = SEEN 2 = NOT SEEN
		RECORD '00'.		RECORD '00'.		SEE CODES BELOW.		SEE CODES BELOW.			
11	Y N DK 1 2—8 GO TO 14		Y N DK 1 2—8 GO TO 16		Y N 1 2 GO TO 21	LEVEL CLASS/YEAR	Y N 1 2 GO TO 21	LEVEL CLASS/YEAR	Y N DK 1 2 →8 NEXT LINE		
12	1 2 — 8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 $\sqrt{8}$ NEXT LINE		
13	1 2 — 8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 -8 NEXT LINE		
14	1 2 — 8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 $+8$ NEXT LINE		
15	1 2 — 8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 $^{-8}$ NEXT LINE		
16	1 2 — 8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 -8 NEXT LINE		
17	1 2—8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 -8 NEXT LINE		
18	1 2 — 8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 T8 NEXT LINE		
19	1 2 — 8 GO TO 14		1 2 — 8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 ⊤8 NEXT LINE		
20	1 2—8 GO TO 14		1 2—8 GO TO 16		1 2 ↓ GO TO 21		1 2 ↓ GO TO 21		1 2 -8 NEXT LINE		

CODES FOR Qs. 17 AND 19: EDUCATION

LEVEL

- 0 = PRESCHOOL 1 = PRIMARY 2 = SECONDARY 3 = HIGHER 8 = DON'T KNOW

- EDUCATION YEAR

 01-03 = YEARS AT PRE-PRIMARY/KINDERGARTEN

 01-06 = YEARS 1-6 AT PRIMARY LEVEL

 01-06 = YEARS 1-6 AT SECONDARY LEVEL

 01 TOTAL NUMBER OF YEARS AT HIGHER LEVEL*

 00 = LESS THAN 1 YEAR COMPLETED

 (USE '00' FOR Q. 17 ONLY. THIS CODE IS NOT ALLOWED FOR Q. 19.)

 98 = DON'T KNOW

*FOR `HIGHER' TOTAL THE NUMBER OF YEARS AT THE POST-SECONDARY LEVEL

HOUSEHO	LD NOT SELECTED FO	R MAN'S SURVEY			HOUSEHO	OLD SELECTED FOR M	MAN'S SURVEY		 101
				IF A	AGE 5 YEARS OR OL	DER			
	SEEING DIFFICU	JLTY		HEARING DIF	FICULTY		OTHER FUNCT	TIONAL DIFFICULTIES	
21	22	23	24	25	26	27	28	29	30
Does (NAME) wear glasses or contact lenses to help them see?	I would like to know if (NAME) has difficulty seeing even when wearing glasses or contact lenses. Would you say that (NAME) has no difficulty seeing, some difficulty, a lot of difficulty, or cannot see at all?	I would like to know if (NAME) has difficulty seeing. Would you say that (NAME) has no difficulty seeing, some difficulty, a lot of difficulty, or cannot see at all?	Does (NAME) wear a hearing aid?	I would like to know if (NAME) has difficulty hearing even when using a hearing aid. Would you say that (NAME) has no difficulty hearing, some difficulty, a lot of difficulty, or cannot hear at all?	I would like to know if (NAME) has difficulty hearing. Would you say that (NAME) has no difficulty hearing, some difficulty, a lot of difficulty, or cannot hear at all?	if (NAME) has difficulty communicating when using his/her usual language.	I would like to know if (NAME) has difficulty remembering or concentrating. Would you say that (NAME) has no difficulty remembering or concentrating, some difficulty, a lot of difficulty, or cannot remember or	I would like to know if (NAME) has difficulty walking or climbing steps. Would you say that (NAME) has no difficulty walking or climbing steps, some difficulty, a lot of difficulty, or cannot walk or climb steps at all?	I would like to know if (NAME) has difficulty washing all over or dressing. Would you say that (NAME) has no difficulty washing all over or dressing, some difficulty, a lot of difficulty, or cannot wash all over or dress at all?
	1 = NO DIFFICULTY SEEING 2 = SOME DIFFICULTY 3 = A LOT OF DIFFICULTY 4 = CANNOT SEE AT ALL 8 = DON'T KNOW	1 = NO DIFFICULTY SEEING 2 = SOME DIFFICUL' 3 = A LOT OF DIFFICULTY 4 = CANNOT SEE AT ALL 8 = DON'T KNOW	TY	1 = NO DIFFICULTY HEARING 2 = SOME DIFFICULTY 3 = A LOT OF DIFFICULTY 4 = CANNOT HEAR AT ALL 8 = DON'T KNOW	1 = NO DIFFICULTY HEARING 2 = SOME DIFFICULTY 2 = SOME DIFFICULTY 3 = A LOT OF DIFFICULTY 4 = CANNOT HEAR AT ALL 8 = DONT KNOW 1 = NO DIFFICULTY 2 = SOME DIFFICULTY 3 = A LOT OF DIFFICULTY 4 = CANNOT COMMUNI CATE AT ALL 8 = DONT KNOW 1 = NO DIFFICULTY COMMUNI CATE AT ALL 8 = DONT KNOW 1 = NO DIFFICULTY 2 = NO DIFFICULTY 4 = CANNOT COMMUNI CATE AT ALL 8 = DONT KNOW 8 = DONT KNOW		REMEMBERING/ CONCENTRATING 2 = SOME DIFFICULTY	1 = NO DIFFICULTY WALKING OR CLIMBIN 2 = SOME DIFFICULTY 3 = A LOT OF DIFFICULTY 4 = CANNOT WALK OR CLIMB AT ALL 8 = DON'T KNOW	1 = NO DIFFICULTY 3 WASHING OR DRESSING 2 = SOME DIFFICULTY 3 = A LOT OF DIFFICULTY 4 = CANNOT WASH OR DRESS AT ALL 8 = DON'T KNOW
Y N DK 1 2 78 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	Y N DK 1 2 78 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 —8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 —8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 -8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 -8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 -8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 - 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 -8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 -8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 —8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 78 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 -8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8

HOUSEHO	HOUSEHOLD NOT SELECTED FOR MAN'S SURVEY HOUSEHOLD SELECTED FOR MAN'S SURVEY 101								
				IF A	AGE 5 YEARS OR OL	DER			
	SEEING DIFFICU	JLTY		HEARING DIF	FICULTY		OTHER FUNC	TIONAL DIFFICULTIES	•
21	22	23	24	25	26	27	28	29	30
Does (NAME) wear glasses or contact lenses to help them see?	I would like to know if (NAME) has difficulty seeing even when wearing glasses or contact lenses. Would you say that (NAME) has no difficulty seeing, some difficulty, a lot of difficulty, or cannot see at all?	I would like to know if (NAME) has difficulty seeing. Would you say that (NAME) has no difficulty seeing, some difficulty, a lot of difficulty, or cannot see at all?	Does (NAME) wear a hearing aid?	I would like to know if (NAME) has difficulty hearing even when using a hearing aid. Would you say that (NAME) has no difficulty hearing, some difficulty, a lot of difficulty, or cannot hear at all?	I would like to know if (NAME) has difficulty hearing. Would you say that (NAME) has no difficulty hearing, some difficulty, a lot of difficulty, or cannot hear at all?	if (NAME) has difficulty communicating when using his/her usual language.	I would like to know if (NAME) has difficulty remembering or concentrating. Would you say that (NAME) has no difficulty remembering or concentrating, some difficulty, a lot of difficulty, or cannot remember or	I would like to know if (NAME) has difficulty walking or climbing steps. Would you say that (NAME) has no difficulty walking or climbing steps, some difficulty, a lot of difficulty, a lot of difficulty, or cannot walk or climb steps at all?	I would like to know if (NAME) has difficulty washing all over or dressing. Would you say that (NAME) has no difficulty washing all over or dressing, some difficulty, a lot of difficulty, or cannot wash all over or dress at all?
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Y N DK 1 2 - 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	Y N DK 1 2 - 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 - 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 -8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 - 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 -8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 78 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8
1 2 — 8 GO TO 23	1 2 3 4 8 (GO TO 24)	1 2 3 4 8	1 2 — 8 GO TO 26	1 2 3 4 8 (GO TO 27)	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8	1 2 3 4 8

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
101	What is the main source of drinking water for members of your household?	PIPED WATER PIPED INTO DWELLING 11 PIPED TO YARD/PLOT 12 PIPED TO NEIGHBOR 13 PUBLIC TAP/STANDPIPE 14	106
		TUBE WELL OR BOREHOLE 21 DUG WELL 31 PROTECTED WELL 32 WATER FROM SPRING 41 UNPROTECTED SPRING 42	→ 103
		RAINWATER 51 TANKER TRUCK 61 CART WITH SMALL TANK 71 SURFACE WATER (RIVER/DAM/ LAKE/POND/STREAM/CANAL/ IRRIGATION CHANNEL) 81	
		BOTTLED WATER 91 SACHET WATER 92	
		OTHER96 (SPECIFY)	→ 103
102	What is the main source of water used by your household for other purposes such as cooking and handwashing?	PIPED WATER 11 PIPED INTO DWELLING 11 PIPED TO YARD/PLOT 12 PIPED TO NEIGHBOR 13 PUBLIC TAP/STANDPIPE 14 TUBE WELL OR BOREHOLE 21 DUG WELL 31 PROTECTED WELL 32 WATER FROM SPRING 41 UNPROTECTED SPRING 41 UNPROTECTED SPRING 42 RAINWATER 51 TANKER TRUCK 61 CART WITH SMALL TANK 71 SURFACE WATER (RIVER/DAM/ LAKE/POND/STREAM/CANAL/ IRRIGATION CHANNEL) 81 OTHER 96 (SPECIFY)	→ 106
103	Where is that water source located?	IN OWN DWELLING1IN OWN YARD/PLOT2ELSEWHERE3]→ 105
104	How long does it take to go there, get water, and come back?	MINUTES	
105	CHECK 101 AND 102: CODE '14' OR '21' CIRCLED? YES	NO 🗌	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
106	In the past two weeks, was the water from this source not available for at least one full day?	YES 1 NO 2 DON'T KNOW 8	
107	Do you do anything to the water to make it safer to drink?	YES]→ 109
108	What do you usually do to make the water safer to drink? Anything else? RECORD ALL MENTIONED.	BOIL A ADD BLEACH/CHLORINE B STRAIN THROUGH A CLOTH C USE WATER FILTER (CERAMIC/ D SAND/COMPOSITE/ETC) D SOLAR DISINFECTION E LET IT STAND AND SETTLE F ALUM G OTHER X (SPECIFY) DON'T KNOW Z	
109	What kind of toilet facility do members of your household usually use? IF NOT POSSIBLE TO DETERMINE, ASK PERMISSION TO OBSERVE THE FACILITY.	FLUSH OR POUR FLUSH TOILET FLUSH TO PIPED SEWER SYSTEM 11 FLUSH TO SEPTIC TANK 12 FLUSH TO SEPTIC TANK 13 FLUSH TO PIT LATRINE 14 FLUSH, DON'T KNOW WHERE 15 PIT LATRINE 21 PIT LATRINE WITH SLAB 22 PIT LATRINE WITHOUT SLAB/OPEN PIT 23 COMPOSTING TOILET 31 BUCKET TOILET 41 HANGING TOILET/HANGING LATRINE 51 NO FACILITY/BUSH/FIELD 61 OTHER (SPECIFY)	→ 113
110	Do you share this toilet facility with other households?	YES	→ 112
111	Including your own household, how many households use this toilet facility?	NO. OF HOUSEHOLDS IF LESS THAN 10 10 OR MORE HOUSEHOLDS DON'T KNOW 98	
112	Where is this toilet facility located?	IN OWN DWELLING 1 IN OWN YARD/PLOT 2 ELSEWHERE 3	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
113	What type of fuel does your household mainly use for cooking?	ELECTRICITY 01 LPG 02 NATURAL GAS 03 BIOGAS 04 KEROSENE 05 COAL, LIGNITE 06 CHARCOAL 07 WOOD 08 STRAW/SHRUBS/GRASS 09 AGRICULTURAL CROP 10 ANIMAL DUNG 11 NO FOOD COOKED IN HOUSEHOLD 95 OTHER 96 (SPECIFY)	→ 116
114	Is the cooking usually done in the house, in a separate building, or outdoors?	IN THE HOUSE 1 IN A SEPARATE BUILDING 2 OUTDOORS 3 OTHER 6 (SPECIFY)	→ 116
115	Do you have a separate room which is used as a kitchen?	YES	
116	How many rooms in this household are used for sleeping?	ROOMS	
117	Does this household own any livestock, herds, other farm animals, or poultry?	YES	→ 119
118	How many of the following animals does this household own? IF NONE, RECORD '00'. IF 95 OR MORE, RECORD '95'. IF UNKNOWN, RECORD '98'. a) Milk cows or bulls? b) Other cattle? c) Horses, donkeys, or mules?	a) COWS/BULLS b) OTHER CATTLE c) HORSES/DONKEYS/MULES	
	d) Goats?	d) GOATS	
	e) Sheep?	e) SHEEP	
	f) Chickens or other poultry? g) Pigs?	f) CHICKENS/POULTRY	
	h) Camels?	f) PIGS	
119	Does any member of this household own any agricultural land?	YES	→ 121
120	How many plot/acres/hectares of agricultural land do members of this household own? IF 95 OR MORE, CIRCLE '9950'.	PLOT 1	
	55 GIVINGINE, GIVOLE 5000.	20.1110.00	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
121	Does your household have:	YES NO	
	a) Electricity? b) A radio? c) A television? d) A non-mobile telephone? e) A computer? f) A refrigerator? g) A table? h) A chair? i) A bed? j) A sofa? k) A cupboard? l) An air conditioner? m) An electric iron? n) A generator? o) A fan?	a) ELECTRICITY 1 2 b) RADIO 1 2 c) TELEVISION 1 2 d) NON-MOBILE TELEPHONE 1 2 e) COMPUTER 1 2 f) REFRIGERATOR 1 2 g) TABLE 1 2 h) CHAIR 1 2 i) BED 1 2 j) SOFA 1 2 k) CUPBOARD 1 2 l) AIR CONDITIONER 1 2 m) ELECTRIC IRON 1 2 n) GENERATOR 1 2 o) FAN 1 2	
122	Does any member of this household own: a) A watch? b) A mobile phone? c) A bicycle? d) A motorcycle or motor scooter? e) An animal-drawn cart? f) A car or truck? g) A boat with a motor? h) A canoe? i) A Keke Napep?	YES NO a) WATCH 1 2 b) MOBILE PHONE 1 2 c) BICYCLE 1 2 d) MOTORCYCLE/SCOOTER 1 2 e) ANIMAL-DRAWN CART 1 2 f) CAR/TRUCK 1 2 g) BOAT WITH MOTOR 1 2 h) CANOE 1 2 i) KEKE - NAPEP 1 2	
123	Does any member of this household have a bank account?	YES	
124	How often does anyone smoke inside your house? Would you say daily, weekly, monthly, less often than once a month, or never?	DAILY 1 WEEKLY 2 MONTHLY 3 LESS OFTEN THAN ONCE A MONTH 4 NEVER 5	
127	Does your household have any mosquito nets?	YES	→ 139
128	How many mosquito nets does your household have? IF 7 OR MORE NETS, RECORD '7'.	NUMBER OF NETS	

MOSQUITO NETS

		NET #1	NET #2	NET #3
129	ASK THE RESPONDENT TO SHOW YOU ALL THE NETS IN THE HOUSEHOLD. IF MORE THAN 3 NETS, USE ADDITIONAL QUESTIONNAIRE(S).	OBSERVED, HANGING	OBSERVED, HANGING	OBSERVED, HANGING
130	How many months ago did your household get the mosquito net? IF LESS THAN ONE MONTH AGO, RECORD '00'.	MONTHS AGO MORE THAN 36 MONTHS AGO 95 NOT SURE 98	MONTHS AGO MORE THAN 36 MONTHS AGO 95 NOT SURE 98	MONTHS AGO MORE THAN 36 MONTHS AGO 95 NOT SURE 98
131	OBSERVE OR ASK BRAND/TYPE OF MOSQUITO NET. IF BRAND IS UNKNOWN AND YOU CANNOT OBSERVE THE NET, SHOW PICTURES OF TYPICAL NET TYPES/BRANDS TO RESPONDENT.	LONG-LASTING INSECTICIDE- TREATED NET (LLIN) PERMANET 11 OLYSET 12 ICONLIFE 13 DURANET 14 NETPROTEC 15 BASF INTERCEPTC 17 YORKOOL 18 OTHER/DON'T KNOW BRAND 16 OTHER TYPE 96 DON'T KNOW TYPE 98	LONG-LASTING INSECTICIDE- TREATED NET (LLIN) PERMANET	LONG-LASTING INSECTICIDE- TREATED NET (LLIN) PERMANET
134	Did you get the net through a net mass distribution campaign, during an antenatal care visit, or during an immunization visit?	YES, DISTRIBUTION CAMPAIGN 1 7 YES, ANC 2 - YES, IMMUNIZATION VISIT 3 - (SKIP TO 136) 4	YES, DISTRIBUTION	YES, DISTRIBUTION
135	Where did you get the net?	GOVT. HEALTH FACILITY 01 PRIVATE HEALTH FACILITY 02 PHARMACY 03 SHOP/MARKET 04 COMMUNITY HEALTH WORKER 05 RELIGIOUS INSTITUTION 06 SCHOOL 07 OTHER 96 DON'T KNOW 98	GOVT. HEALTH FACILITY 01 PRIVATE HEALTH FACILITY 02 PHARMACY 03 SHOP/MARKET 04 COMMUNITY HEALTH WORKER 05 RELIGIOUS INSTITUTION 06 SCHOOL 07 OTHER 96 DON'T KNOW 98	GOVT. HEALTH FACILITY 01 PRIVATE HEALTH FACILITY 02 PHARMACY 03 SHOP/MARKET 04 COMMUNITY HEALTH WORKER 05 RELIGIOUS INSTITUTION 06 SCHOOL 07 OTHER 96 DON'T KNOW 98

MOSQUITO NETS

		NET #1	NET #2	NET #3
136	Did anyone sleep inside this mosquito net last night?	YES	YES	YES
136A	Why did not anyone sleep inside this net?	NO MOSQUITOES 01 7 NO MALARIA 02- TOO HOT 03- DIFFICULT TO HANG 04- DON'T LIKE SMELL 05- FEEL 'CLOSED IN' OR CONSTRAINED 06- NET TOO OLD/TORN 07- NET TOO DIRTY 08- NET NOT AVAILABLE LAST NIGHT (WASHING) 09- FEEL ITN CHEMICALS ARE UNSAFE 10- ITN PROVOKES COUGH 11- USERS DID NOT SLEEP HERE LAST NIGHT 12- NET NOT NEEDED LAST NIGHT 13- NO SPACE TO HANG 14- OTHER 96 (SPECIFY) DON'T KNOW 98- (SKIP TO 138)	NO MOSQUITOES 01 7 NO MALARIA 02- TOO HOT 03- DIFFICULT TO HANG 04- DON'T LIKE SMELL 05- FEEL 'CLOSED IN' OR CONSTRAINED 06- NET TOO OLD/TORN 07- NET TOO DIRTY 08- NET NOT AVAILABLE LAST NIGHT (WASHING) 09- FEEL ITN CHEMICALS ARE UNSAFE 10- ITN PROVOKES COUGH 11- USERS DID NOT SLEEP HERE LAST NIGHT 12- NET NOT NEEDED LAST NIGHT 13- NO SPACE TO HANG 14- OTHER 96_ (SPECIFY) DON'T KNOW 98- (SKIP TO 138)	NO MOSQUITOES 01 7 NO MALARIA 02 - TOO HOT 03 - DIFFICULT TO HANG 04 - DON'T LIKE SMELL 05 - FEEL 'CLOSED IN' OR CONSTRAINED 06 - NET TOO OLD/TORN 07 - NET TOO DIRTY 08 - NET NOT AVAILABLE LAST NIGHT (WASHING) 09 - FEEL ITN CHEMICALS ARE UNSAFE 10 - ITN PROVOKES COUGH 11 - USERS DID NOT SLEEP HERE LAST NIGHT 12 - NET NOT NEEDED LAST NIGHT 13 - NO SPACE TO HANG 14 - OTHER 96 _ (SPECIFY) DON'T KNOW 98 -
137	Who slept inside this mosquito net last night? RECORD THE PERSON'S NAME AND LINE NUMBER FROM HOUSEHOLD SCHEDULE.	NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME	NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME	NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME LINE NO. NAME
138		GO BACK TO 129 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 139.	GO BACK TO 129 FOR NEXT NET; OR, IF NO MORE NETS, GO TO 139.	GO TO 129 IN FIRST COLUMN OF A NEW QUESTIONNAIRE; OR, IF NO MORE NETS, GO TO 139.

ADDITIONAL HOUSEHOLD CHARACTERISTICS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
139	We would like to learn about the places that households use to wash their hands. Can you please show me where members of your household most often wash their hands?	OBSERVED, FIXED PLACE 1 OBSERVED, MOBILE 2 NOT OBSERVED, NOT IN DWELLING/YARD/PLOT 3 NOT OBSERVED, NO PERMISSION TO SEE 4 NOT OBSERVED, OTHER REASON 5	→ 142
140	OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING. RECORD OBSERVATION.	WATER IS AVAILABLE	
141	OBSERVE PRESENCE OF SOAP, DETERGENT, OR OTHER CLEANSING AGENT AT THE PLACE FOR HANDWASHING. RECORD OBSERVATION.	SOAP OR DETERGENT (BAR, LIQUID, POWDER, PASTE) A ASH, MUD, SAND B NONE Y	
142	OBSERVE MAIN MATERIAL OF THE FLOOR OF THE DWELLING. RECORD OBSERVATION.	NATURAL FLOOR EARTH/SAND 11 DUNG 12 RUDIMENTARY FLOOR WOOD PLANKS 21 PALM/BAMBOO 22 FINISHED FLOOR PARQUET OR POLISHED WOOD 31 VINYL OR ASPHALT STRIPS 32 CERAMIC TILES 33 CEMENT 34 CARPET/RUC 35 OTHER 96 (SPECIFY)	
143	OBSERVE MAIN MATERIAL OF THE ROOF OF THE DWELLING. RECORD OBSERVATION.	NATURAL ROOFING NO ROOF 11 THATCH/PALM LEAF 12 RUDIMENTARY ROOFING RUSTIC MAT 21 PALM/BAMBOO 22 WOOD PLANKS 23 CARDBOARD 24 FINISHED ROOFING METAL/ZINC 31 WOOD 32 CALAMINE/CEMENT FIBER 33 CERAMIC TILES 34 CEMENT 35 ROOFING SHINGLES 36 OTHER 96	

ADDITIONAL HOUSEHOLD CHARACTERISTICS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
144	OBSERVE MAIN MATERIAL OF THE EXTERIOR WALLS OF THE DWELLING. RECORD OBSERVATION.	NATURAL WALLS 11 CANE/PALM/TRUNKS 12 DIRT 13 RUDIMENTARY WALLS 12 BAMBOO WITH MUD 21 STONE WITH MUD 22 UNCOVERED ADOBE 23 PLYWOOD 24 CARDBOARD 25 REUSED WOOD 26 FINISHED WALLS 31 STONE WITH LIME/CEMENT 32 BRICKS 33 CEMENT BLOCKS 34 COVERED ADOBE 35 WOOD PLANKS/SHINGLES 36 OTHER 96	
145	I would like to check whether the salt used in your household is iodized. May I have a sample of the salt used to cook meals in your household? TEST SALT FOR IODINE.	IODINE PRESENT	
146	RECORD THE TIME.	HOURS	

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:
COMMENTS ON SPECIFIC QUESTIONS:
ANY OTHER COMMENTS
ANY OTHER COMMENTS:
SUPERVISOR'S OBSERVATIONS
<u> </u>
EDITOR'S OBSERVATIONS

FORMATTING DATE: 07 Jun 2017 ENGLISH LANGUAGE: 26 May 2018

NIGERIA DEMOGRAPHIC AND HEALTH SURVEY - 2018 WOMAN'S QUESTIONNAIRE

NIGERIA

NATIONAL POPULATION COMMISSION

		IDENTIFICA	TION		
STATE					
LOCAL GOVT. AREA					
LOCALITY				_	
ENUMERATION AREA					
NAME OF HOUSEHOLD	HEAD				
CLUSTER NUMBER					
HOUSEHOLD NUMBER					
NAME AND LINE NUME	BER OF WOMAN				
CHECK COVER PAGE	OF HOUSEHOLD QUES	TIONNAIRE: HOUSEHOI	LD SELECTED FOR MAN	N'S SURVEY? (1=YES, 2=NO)	
CHECK HOUSEHOLD (QUESTIONNAIRE DVH01	: WOMAN SELECTED F	OR DV MODULE? (1=YE	ES, 2=NO)	
		INTERVIEWER	RVISITS		
	1	2	3	FINAL VISIT	
DATE INTERVIEWER'S				DAY MONTH YEAR	
NAME RESULT*				INT. NO. RESULT*	
NEXT VISIT: DATE				TOTAL NUMBER OF VISITS	
*RESULT CODES: 1 COMPLETED 4 REFUSED 2 NOT AT HOME 5 PARTLY COMPLETED 7 OTHER 3 POSTPONED 6 INCAPACITATED SPECIFY					
LANGUAGE OF QUESTIONNAIRE** 0 1 LANGUAGE OF INTERVIEW** NATIVE LANGUAGE OF RESPONDENT** TRANSLATOR USED (YES = 1, NO = 2)					
LANGUAGE OF QUESTIONNAIRE** ENGLISH 01 ENGLISH 02 HAUSA 04 IGBO					
SUPERVISO	DR	NUMBER	NAME	FIELD EDITOR NUMBER	

INTRODUCTION AND CONSENT

Hello. My name is I am survey about health and other topics all over Nigeria. The information we household was selected for the survey. The questions usually take about will not be shared with anyone other than members of our survey team. Y answer the questions since your views are important. If I ask you any que the next question or you can stop the interview at any time.	30 to 60 minutes. All of the answers you give will be confidential and ou don't have to be in the survey, but we hope you will agree to
In case you need more information about the survey you may contact the	e person listed on the card that has already been given to your

household.

Do you have any questions? May I begin the interview now?

SIGNATURE OF INTERVIEWER		DATE	<u></u>
RESPONDENT AGREES TO BE INTERVIEWED	1	RESPONDENT DOES NOT AGREE TO BE INTERVIEWED	2 → END

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
101	RECORD THE TIME.	HOURS	
102	How long have you been living continuously in (NAME OF CURRENT CITY, TOWN OR VILLAGE OF RESIDENCE)? IF LESS THAN ONE YEAR, RECORD '00' YEARS.	YEARS 95 VISITOR 96]→ 105
103	Just before you moved here, did you live in a city, in a town, or in a rural area?	CITY 1 TOWN 2 RURAL AREA 3	
104	Before you moved here, which state did you live in?	ABIA 01 ADAMAWA 02 AKWA IBOM 03 ANAMBRA 04 BAUCHI 05 BAYELSA 06 BENUE 07 BORNO 08 CROSS RIVER 09 DELTA 10 EBONYI 11 EDO 12 EKITI 13 ENUGU 14 FCT-ABUJA 15 GOMBE 16 IMO 17 JIGAWA 18 KADUNA 19 KANO 20 KATSINA 19 KANO 20 KATSINA 21 KEBBI 22 KOGI 23 KWARA 24 LAGOS 25 NASARAWA 26 NIGER 27 OGUN 28 ONDO 29 OSUN 30 OYO 31 PLATEAU 32 RIVERS 333	

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
		SOKOTO 34 TARABA 35 YOBE 36 ZAMFARA 37 OUTSIDE OF NIGERIA 96	
105	In what month and year were you born?	MONTH 98 DON'T KNOW MONTH 98 YEAR 9998	
106	How old were you at your last birthday? COMPARE AND CORRECT 105 AND/OR 106 IF INCONSISTENT.	AGE IN COMPLETED YEARS	
107	Have you ever attended school?	YES	→ 111
108	What is the highest level of school you attended: primary, secondary, or higher?	PRIMARY 1 SECONDARY 2 HIGHER 3	
109	What is the highest (class/year) you completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	CLASS/YEAR	
110	CHECK 108: PRIMARY OR SECONDARY	HIGHER	→ 113
111	Now I would like you to read this sentence to me. SHOW CARD TO RESPONDENT. IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: Can you read any part of the sentence to me?	CANNOT READ AT ALL 1 ABLE TO READ ONLY PART OF 2 THE SENTENCE 2 ABLE TO READ WHOLE SENTENCE 3 NO CARD WITH REQUIRED 4 LANGUAGE (SPECIFY LANGUAGE) BLIND/VISUALLY IMPAIRED 5	

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
112		'1' OR '5'	> 114
113	Do you read a newspaper or magazine at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
114	Do you listen to the radio at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK	
115	Do you watch television at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
116	Do you own a mobile telephone?	YES	→ 118
117	Do you use your mobile phone for any financial transactions?	YES	
118	Do you have an account in a bank or other financial institution that you yourself use?	YES	
119	Have you ever used the internet?	YES	→ 122
120	In the last 12 months, have you used the internet? IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE.	YES	→ 122
121	During the last one month, how often did you use the internet: almost every day, at least once a week, less than once a week, or not at all?	ALMOST EVERY DAY 1 AT LEAST ONCE A WEEK 2 LESS THAN ONCE A WEEK 3 NOT AT ALL 4	
122	What is your religion?	CATHOLIC 1 OTHER CHRISTIAN 2 ISLAM 3 TRADITIONALIST 4 OTHER 6 (SPECIFY)	
123	What is your ethnic group?	(ETHNIC GROUP)	
124	In the last 12 months, how many times have you been away from home for one or more nights?	NUMBER OF TIMES	→ 201
125	In the last 12 months, have you been away from home for more than one month at a time?	YES	

NO.	QUESTIONS AND FILTERS CODING CATEGORIES		SKIP
201	Now I would like to ask about all the births you have had during your life. Have you ever given birth?	YES	→206
202	Do you have any sons or daughters to whom you have given birth who are now living with you?	YES	→ 204
203	a) How many sons live with you? b) And how many daughters live with you? IF NONE, RECORD '00'.	a) SONS AT HOMEb) DAUGHTERS AT HOME	
204	Do you have any sons or daughters to whom you have given birth who are alive but do not live with you?	YES	→ 206
205	a) How many sons are alive but do not live with you?b) And how many daughters are alive but do not live with you?IF NONE, RECORD '00'.	a) SONS ELSEWHERE b) DAUGHTERS ELSEWHERE	
206	Have you ever given birth to a boy or girl who was born alive but later died? IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time?	YES	→ 208
207	a) How many boys have died? b) And how many girls have died? IF NONE, RECORD '00'.	a) BOYS DEADb) GIRLS DEAD	
208	SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'.	TOTAL BIRTHS	
209		TAL births during your life. Is that correct? NO PROBE AND RRECT 201-208 S NECESSARY.	
210	CHECK 208: ONE OR MORE NO BIRTHS	BIRTHS	→ 226

Now I would like to record the names of all your births, whether still alive or not, starting with the first one you had. RECORD NAMES OF ALL THE BIRTHS IN 212. RECORD TWINS AND TRIPLETS ON SEPARATE ROWS. IF THERE ARE MORE THAN 10 BIRTHS, USE AN ADDITIONAL QUESTIONNAIRE, STARTING WITH THE SECOND ROW. 212 214 216 218 219 213 215 217 220 220B 221 IF ALIVE: DEATH IF ALIVE: IF ALIVE: IF DEAD: ΙF AT AGE 0-5 On what day, What Were On what day, How old RECORD How old was (NAME) Were there (NAME) month, and year (NAME) (NAME) HOUSEHOLD when (he/she) died? month and year any other live name was any of was (NAME) still (NAME) at LINE NUMBER did (NAME) die? births given to a boy or these living your (first/ a girl? births alive? (NAME)'s with OF CHILD. IF '12 MONTHS' OR '1 between RECORD '00' YR', ASK: Did (NAME) (NAME OF next) twins? you? birthday? IF CHILD NOT have (his/her) first PREVIOUS baby? BIRTH) and LISTED IN birthday? HOUSEHOLD. (NAMÉ), THEN ASK: Exactly including any how many months old children who was (NAME) when died after (he/she) died? birth? RECORD NAME. RECORD RECORD DAYS IF AGE IN LESS THAN 1 COMP-**BIRTH** MONTH; MONTHS IF HISTORY LESS THAN TWO LETED NUMBER. YEARS YEARS; OR YEARS. AGE IN HOUSEHOLD DAY DAYS DAY YES YEARS LINE NUMBER BOY SING 1 1 YES MONTH MONTHS MONTH GIRL 2 MULT 2 NO 2 NO 2 YEARS (SKIP (NEXT BIRTH) YEAR TO 220) YEAR 02 AGE IN HOUSEHOLD YES DAY DAYS DAY ָ טיי BIRTH) BOY 1 SING 1 YES YEARS YES LINE NUMBER 1 NO MONTH MONTHS 2 MONTH GIRL 2 MULT 2 NO 2 (SKIP NO YEARS BIRTH) TO 220) (SKIP TO 221) YEAR YEAR 03 AGE IN HOUSEHOLD YES DAYS DAY DAY אריי BIRTH) BOY SING 1 YES 1 **YEARS** YES LINE NUMBER NO 2 MONTH MONTHS MONTH GIRL 2 MULT 2 NO 2 (SKIP NO YEARS (NEXT TO 220) (SKIP TO 221) BIRTH)[₹] YFAR YFAR AGE IN HOUSEHOLD 04 YES DAY DAYS DAY ארי ' BIRTH) BOY 1 SING 1 YES **YEARS** LINE NUMBER 1 YES 2 NO MONTH MONTHS 2 MONTH GIRL 2 MULT 2 NO 2 (SKIP YEARS BIRTH) TO 220) (SKIP TO 221) YEAR YEAR 05 AGE IN HOUSEHOLD YES DAY DAYS DAY (ADD BOY 1 SING 1 YES YEARS YES LINE NUMBER BIRTH) 1 NO 2 MONTH MONTHS 2 MONTH GIRL 2 MULT 2 NO 2 (SKIP NO YEARS 3 BIRTH) (NEXT TO 220) (SKIP TO 221) YEAR YEAR

212	213	214	215	216	217	218	219	220	220B	221
					IF ALIVE:	IF ALIVE:	IF ALIVE:	IF DEAD:	IF DEATH AT AGE 0-5	
What name was given to your (first/ next) baby?	Is (NAME) a boy or a girl?	Were any of these births twins?	On what day, month, and year was (NAME) born?	Is (NAME) still alive?	How old was (NAME) at (NAME)'s last birthday?	Is (NAME) living with you?	RECORD HOUSEHOLD LINE NUMBER OF CHILD. RECORD '00' IF CHILD NOT LISTED IN HOUSEHOLD.	How old was (NAME) when (he/she) died? IF '12 MONTHS' OR '1 YR', ASK: Did (NAME) have (his/her) first birthday? THEN ASK: Exactly how many months old was (NAME) when (he/she) died?	On what day, month and year did (NAME) die?	Were there any other live births between (NAME OF PREVIOUS BIRTH) and (NAME), including any children who died after birth?
RECORD NAME. BIRTH					RECORD AGE IN COMP-			RECORD DAYS IF LESS THAN 1 MONTH; MONTHS IF		
HISTORY NUMBER.					YEARS.			LESS THAN TWO YEARS; OR YEARS.		
06	BOY 1	SING 1	DAY	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1	DAY	YES 1 (ADD BIRTH)
	GIRL 2	MULT 2	MONTH	NO 2		NO 2		MONTHS 2	MONTH	,
			YEAR	(SKIP TO 220)			(SKIP TO 221)	YEARS 3	YEAR	NO 2 (NEXT BIRTH)
07	BOY 1	SING 1	DAY	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1	DAY	YES 1 (ADD BIRTH)
	GIRL 2	MULT 2	MONTH	NO 2		NO 2		MONTHS 2	MONTH	,
			YEAR	(SKIP TO 220)			♦ (SKIP TO 221)	YEARS 3	YEAR	NO 2 (NEXT BIRTH)
08	BOY 1	SING 1	DAY	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1	DAY	YES 1 (ADD BIRTH)
	GIRL 2	MULT 2	MONTH	NO 2		NO 2		MONTHS 2	MONTH	2,
			YEAR	(SKIP TO 220)			(SKIP TO 221)	YEARS 3	YEAR	NO 2 (NEXT BIRTH)
09	BOY 1	SING 1	DAY	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1	DAY	YES 1 (ADD BIRTH)
	GIRL 2	MULT 2	MONTH	NO 2		NO 2		MONTHS 2	MONTH	DilXIII)
			YEAR	(SKIP TO 220)			↓ (SKIP TO 221)	YEARS 3	YEAR	NO 2 (NEXT BIRTH)
10	BOY 1	SING 1	DAY	YES 1	AGE IN YEARS	YES 1	HOUSEHOLD LINE NUMBER	DAYS 1	DAY	YES 1 (ADD BIRTH)
	GIRL 2	MULT 2	MONTH	NO 2		NO 2		MONTHS 2	MONTH	, j
			YEAR	(SKIP TO 220)			↓ (SKIP TO 221)	YEARS 3	YEAR	NO 2 (NEXT BIRTH)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
222	Have you had any live births since the birth of (NAME OF LAST BIRTH)?	YES	
223	COMPARE 208 WITH NUMBER OF BIRTHS IN BIRTH HIS NUMBERS ARE SAME	NUMBERS ARE DIFFERENT (PROBE AND RECONCILE)	
223A	CHECK 220B: ENTER THE NUMBER OF DEATHS IN JANUARY 2014 OR LATER IF NONE, RECORD `0'.	NUMBER OF DEATHS	
224	CHECK 215: ENTER THE NUMBER OF BIRTHS IN 2013-2018	NUMBER OF BIRTHS	→ 226
225	THE NAME OF THE CHILD TO THE LEFT OF TO OF COMPLETED MONTHS THE PREGNANCY PRECEDING MONTHS ACCORDING TO THE I	THE MONTH OF BIRTH IN THE CALENDAR. WRITE ITHE 'B' CODE. FOR EACH BIRTH, ASK THE NUMBER ' LASTED AND RECORD 'P' IN EACH OF THE DURATION OF PREGNANCY. (NOTE: THE NUMBER OF OF MONTHS THAT THE PREGNANCY LASTED.)	
226	Are you pregnant now?	YES]→ 230
227	How many months pregnant are you? RECORD NUMBER OF COMPLETED MONTHS. ENTER 'P'S IN THE CALENDAR, BEGINNING WITH THE MONTH OF INTERVIEW AND FOR THE TOTAL NUMBER OF COMPLETED MONTHS.	MONTHS	
228	When you got pregnant, did you want to get pregnant at that time?	YES	→230
229	CHECK 208: TOTAL NUMBER OF BIRTHS ONE OR MORE a) Did you want to have a baby later on or did you not want any more children? CHECK 208: TOTAL NUMBER OF BIRTHS NONE b) Did you want to have a baby later on or did you not want any children?	LATER	
230	Have you ever had a pregnancy that miscarried, was aborted, or ended in a stillbirth?	YES	→239
231	When did the last such pregnancy end?	MONTH	

NO.	QUESTIONS AND FILTERS	CODING CA	ATEGORIES	SKIP
232	CHECK 231: LAST PREGNANCY ENDED IN 2013-2018			→ 234
		LAST PREGNANCY ENDED IN 2012 OR EARLIER		→ 239
LINE NO.	233 In what month and year did the preceding such pregnancy end?	234 How many months pregnant were you when that pregnancy ended?	235 Since January 2013, have you had any other pregnancies that did not result in a live birth?	
01		NUMBER OF MONTHS	YES 1 NO 2	→ NEXT LINE → 236
02	MONTH YEAR	NUMBER OF MONTHS	YES	→ NEXT LINE → 236
03	MONTH YEAR	NUMBER OF MONTHS	YES 1 NO 2	→ NEXT LINE → 236
04	MONTH YEAR	NUMBER OF MONTHS	YES	→ 236
236	FOR EACH PREGNANCY THAT DID NOT END THE CALENDAR IN THE MONTH THAT THE P REMAINING NUMBER OF COMPLETED MONT IF THERE ARE MORE THAN FOUR PREGNAN ADDITIONAL QUESTIONNAIRE STARTING ON	REGNANCY TERMINATED AN I'HS OF PREGNANCY. ICIES THAT DID NOT END IN A	ID 'P' FOR THE	
237	Did you have any miscarriages, abortions or stillbirths that ended before 2013?			→ 239
238	When did the last such pregnancy that terminated before 2013 end?	MONTH		

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
239	When did your last menstrual period start? (DATE, IF GIVEN)	DAYS AGO 1	
240	From one menstrual period to the next, are there certain days when a woman is more likely to become pregnant?	NEVER MENSTRUATED 996 YES 1 NO 2 DON'T KNOW 8]→ 242
241	Is this time just before her period begins, during her period, right after her period has ended, or halfway between two periods?	JUST BEFORE HER PERIOD BEGINS. 1 DURING HER PERIOD 2 RIGHT AFTER HER PERIOD HAS ENDEI 3 HALFWAY BETWEEN TWO PERIODS 4 OTHER 6 (SPECIFY) DON'T KNOW 8	
242	After the birth of a child, can a woman become pregnant before her menstrual period has returned?	YES	

301	Now I would like to talk about family planning - the various ways or metho Have you ever heard of (METHOD)?	ds that a couple can use to delay or avoid a pregnancy.
01	Female Sterilization. PROBE: Women can have an operation to avoid having any more children.	YES
02	Male Sterilization. PROBE: Men can have an operation to avoid having any more children.	YES
03	IUD. PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse which can prevent pregnancy for one or more years.	YES
04	Injectables. PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months.	YES
05	Implants. PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years.	YES
06	Pill. PROBE: Women can take a pill every day to avoid becoming pregnant.	YES
07	Condom. PROBE: Men can put a rubber sheath on their penis before sexual intercourse.	YES
08	Female Condom. PROBE: Women can place a sheath in their vagina before sexual intercourse.	YES
09	Emergency Contraception. PROBE: As an emergency measure, within three days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.	YES
10	Standard Days Method. PROBE: A woman uses a string of colored beads to know the days she can get pregnant. On the days she can get pregnant, she uses a condom or does not have sexual intercourse.	YES
11	Lactational Amenorrhea Method (LAM). PROBE: Up to six months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night.	YES
12	Rhythm Method. PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant.	YES
13	Withdrawal. PROBE: Men can be careful and pull out before climax.	YES
14	Have you heard of any other ways or methods that women or men can use to avoid pregnancy?	YES, MODERN METHOD
		(SPECIFY) YES, TRADITIONAL METHOD
		B (SPECIFY)
		NO Y

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
302	CHECK 226: NOT PREGNANT ☐	PREGNANT	
	OR UNSURE V		→ 312
303	Are you or your partner currently doing something or using any method to delay or avoid getting pregnant?	YES	→ 312
304	Which method are you using?	FEMALE STERILIZATION A MALE STERILIZATION B IUD]→307
	RECORD ALL MENTIONED.	INJECTABLES D IMPLANTS E	→ 309
	IF MORE THAN ONE METHOD MENTIONED, FOLLOW SKIP INSTRUCTION FOR HIGHEST METHOD IN LIST.	PILL F CONDOM G FEMALE CONDOM H EMERGENCY CONTRACEPTION I STANDARD DAYS METHOD J	→ 306
		LACTATIONAL AMENORRHEA METHOD K RHYTHM METHOD L WITHDRAWAL M OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y	→ 309
305	What is the brand name of the pills you are using?	DUOFEMCONFIDENCE 01 MICROGYNON 02 LOFEMENAL 03 NEOGYNON 04	→ 309
	IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE.	OTHER96 (SPECIFY) DON'T KNOW	
306	What is the brand name of the condoms you are using?	MALE CONDOMS GOLD CIRCLE 01 DUREX 02 ROUGH RIDER 03 TWIN LOTUS 04 PLAIN CONDOMS 05 GO FLEX 06	→ 309
	IF DON'T KNOW THE BRAND, ASK TO SEE THE PACKAGE.	OTHER96	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP	
307	In what facility did the sterilization take place? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE)	PUBLIC SECTOR 11 GOVERNMENT HOSPITAL 11 GOVERNMENT HEALTH CENTER 12 FAMILY PLANNING CLINIC 13 MOBILE CLINIC 14 OTHER PUBLIC SECTOR 16 (SPECIFY) PRIVATE MEDICAL SECTOR		
		PRIVATE HOSPITAL/CLINIC		
		MOBILE CLINIC		
	1	NON-GOVERNMENT ORGANIZATION		
		OTHER PRIVATE MEDICAL SECTOR		
		26 (SPECIFY)		
	1	(SECIET)		
		OTHER96		
		DON'T KNOW		
308	In what month and year was the sterilization performed?	MONTHYEAR	→ 310	
309	Since what month and year have you been using (CURRENT METHOD) without stopping?	MONTH		
	PROBE: For how long have you been using (CURRENT METHOD) now without stopping?	YEAR		
310	CHECK 308 AND 309, 215 AND 231: ANY BIRTH OR PRE START OF USE OF CONTRACEPTION IN 308 OR 309	GNANCY TERMINATION AFTER MONTH AND YEAR OF		
	NO	YES		
	GO BACK TO 308 OR 309, PROBE AND RECORD MONTH AND YEAR AT START OF CONTINUOUS USE OF CURRENT METHOD (MUST BE AFTER LAST BIRTH OR PREGNANCY TERMINATION).			

SECTION 3. CONTRACEPTION (CAPI OPTION)

311	few years.		YEAR IS 2012 OR EARLIER ENTER CODE FOR METHOD USED IN MONTH OF INTERVIEW IN THE CALENDAR AND EACH MONTH BACK TO JANUARY 2013 . THEN (SKIP TO 324) artner may have used a method to avoid getting pregnant during the last OF USE AND NONUSE, STARTING WITH MOST RECENT USE, DATES OF BIRTH, AND PERIODS OF PREGNANCY AS	
		COLUMN 1	COLUMN 2	COLUMN 3
312A	MONTH AND YEAR OF START OF INTERVAL OF USE OR NON-USE.	MONTH YEAR	MONTH YEAR	MONTH YEAR
312B	Between (EVENT) in (MONTH/YEAR) and (EVENT) in (MONTH/YEAR), did you or your partner use any method of contraception?	YES	YES	YES
312C	Which method was that?	METHOD CODE	METHOD CODE	METHOD CODE
312D	How many months after (EVENT) in (MONTH/YEAR) did you start to use (METHOD)? CIRCLE '95' IF RESPONDENT GIVES THE DATE OF STARTING TO USE THE METHOD.	MONTHS (SKIP TO 312F) DATE GIVEN 95	MONTHS	MONTHS (SKIP TO 312F) DATE GIVEN 95
312E	RECORD MONTH AND YEAR RESPONDENT STARTED USING METHOD.	MONTH YEAR	MONTH YEAR	MONTH YEAR
312F	For how many months did you use (METHOD)? CIRCLE '95' IF RESPONDENT GIVES THE DATE OF TERMINATION OF USE.	MONTHS (SKIP TO 312H) CONTROL OF THE GIVEN	MONTHS (SKIP TO 312H)	MONTHS (SKIP TO 312H) DATE GIVEN 95
312G	RECORD MONTH AND YEAR RESPONDENT STOPPED USING METHOD.	MONTH YEAR	MONTH YEAR	MONTH YEAR
312H	Why did you stop using (METHOD)?	REASON STOPPED	REASON STOPPED	REASON STOPPED
3121		GO BACK TO 312A IN NEXT COLUMN; OR, IF NO MORE GAPS, GO TO 313.	GO BACK TO 312A IN NEXT COLUMN; OR, IF NO MORE GAPS, GO TO 313.	GO BACK TO 312A IN NEW QUESTIONNAIRE; OR, IF NO MORE GAPS, GO TO 313.

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
313	CHECK THE CALENDAR FOR USE OF ANY CONTRACE	PTIVE METHOD IN ANY MONTH	
	NO METHOD USED \Box	ANY METHOD USED	
	NO METHOD 03ED	ANT WETHOD USED []	→ 315
314	Have you ever used anything or tried in any way to delay	YES 1	→ 326
	or avoid getting pregnant?	NO 2	H - 020
315	CHECK 304:	NO CODE CIRCLED	→ 326
313	CHECK 304.	FEMALE STERILIZATION	→ 319
	CIRCLE METHOD CODE:	MALE STERILIZATION	→ 327
	IS MODE THAN ONE METHOD CODE CIDOLED IN	IUD	
	IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.	INJECTABLES	
	304, GINGLE CODE I CINTIIGNEST METHOD IN EIGH.	PILL 06	
		CONDOM	
		FEMALE CONDOM	
		EMERGENCY CONTRACEPTION	
		LACTATIONAL AMENORRHEA METHOD	h
		RHYTHM METHOD	→ 323
		WITHDRAWAL	۲
		OTHER TRADITIONAL METHOD	
316	You first started using (CURRENT METHOD) in (DATE	PUBLIC SECTOR	
	FROM 309). Where did you get it at that time?	GOVERNMENT HOSPITAL	
		FAMILY PLANNING CLINIC	
		MOBILE CLINIC	
	PROBE TO IDENTIFY THE TYPE OF SOURCE.	FIELDWORKER	
	PROBE TO IDENTIFE THE TIPE OF SOURCE.	OTHER FUBLIC SECTOR	
	IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE	16	
	SECTOR, WRITE THE NAME OF THE PLACE.	(SPECIFY)	
		PRIVATE MEDICAL SECTOR	
	(NAME OF PLACE)	PRIVATE HOSPITAL/CLINIC	
		PHARMACY 22	
		CHEMIST/PMS STORE 23 PRIVATE DOCTOR 24	
		MOBILE CLINIC	
		FIELDWORKER 26	
		OTHER PRIVATE MEDICAL SECTOR	
		27	
		(SPECIFY)	
		OTHER SOURCE	
		SHOP	
		CHURCH 32	
		FRIEND/RELATIVE	
		NGO 34	
		OTHER 96	
		(SPECIFY)	
317	CHECK 304:	IUD	
317	OFFICIN 304.	INJECTABLES	
	CIRCLE METHOD CODE:	IMPLANTS	
	IE MODE THAN ONE METHOD CODE OFFICE IN	PILL 06	
	IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.	CONDOM	323
	St., S., SEE SOSE FOR MOTIEST METHOD IN CIOT.	EMERGENCY CONTRACEPTION	→ 322
		STANDARD DAYS METHOD	322
		OTHER MODERN METHOD	لے مور
		OTHER TRADITIONAL METHOD	→ 323

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
318	At that time, were you told about side effects or problems you might have with the method?	YES	→ 321 → 320
319	When you got sterilized, were you told about side effects or problems you might have with the method?	YES	→ 321
320	Were you ever told by a health or family planning worker about side effects or problems you might have with the method?	YES	→ 322
321	Were you told what to do if you experienced side effects or problems?	YES	
322	a) At that time, were you told about other methods of family planning that you could use? OTHER OTHER OTHER OTHER OTHER OTHER OTHER (CURRENT METHOD FROM 315) from (SOURCE OF METHOD FROM 307 OR 316), were you told about other methods of family planning that you could use?	YES	→ 324
323	Were you ever told by a health or family planning worker about other methods of family planning that you could use?	YES	
324	CHECK 304: CIRCLE METHOD CODE: IF MORE THAN ONE METHOD CODE CIRCLED IN 304, CIRCLE CODE FOR HIGHEST METHOD IN LIST.	FEMALE STERILIZATION 01 MALE STERILIZATION 02 IUD 03 INJECTABLES 04 IMPLANTS 05 PILL 06 CONDOM 07 FEMALE CONDOM 08 EMERGENCY CONTRACEPTION 09 STANDARD DAYS METHOD 10 LACTATIONAL AMENORRHEA METHOD 11 RHYTHM METHOD 12 WITHDRAWAL 13 OTHER MODERN METHOD 95 OTHER TRADITIONAL METHOD 96]→ 327 → 327

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
325	Where did you obtain (CURRENT METHOD) the last time? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR 11 GOVERNMENT HOSPITAL 11 GOVERNMENT HEALTH CENTER 12 FAMILY PLANNING CLINIC 13 MOBILE CLINIC 14 FIELDWORKER 15 OTHER PUBLIC SECTOR 16	
	(NAME OF PLACE)	(SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/CLINIC 21 PHARMACY 22 CHEMIST/PMS STORE 23 PRIVATE DOCTOR 24 MOBILE CLINIC 25 FIELDWORKER 26 OTHER PRIVATE MEDICAL SECTOR	→ 327
		(SPECIFY) OTHER SOURCE SHOP	
326	Do you know of a place where you can obtain a method of family planning?	YES	
327	In the last 12 months, were you visited by a fieldworker?	YES	→ 329
328	Did the fieldworker talk to you about family planning?	YES	
329	a) In the last 12 months, have you visited a health facility for care for yourself or your children? NO In the last 12 months, have you visited a health facility for care for yourself?	YES	> 401
330	Did any staff member at the health facility speak to you about family planning methods?	YES	

401	CHECK 224:			
	ONE OR MORE BIRTHS IN 2013-2018		→ 648	
402	CHECK 215. RECORD THE BIRTH HISTORY NUMBER IN 403 AND THE NAME AND SURVIVAL STATUS IN 404 FOR EACH BIRTH IN 2013-2018. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH. IF THERE ARE MORE THAN 2 BIRTHS, USE LAST COLUMN OF ADDITIONAL QUESTIONNAIRE(S). Now I would like to ask some questions about your children born in the last five years. (We will talk about each separately.)			
	·	, , ,	, ,,	
403	BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY.	LAST BIRTH BIRTH HISTORY NUMBER	NEXT-TO-LAST BIRTH BIRTH HISTORY NUMBER	
404	FROM 212 AND 216:	NAME DEAD	NAME	
405	When you got pregnant with (NAME), did you want to get pregnant at that time?	YES	YES	
406	CHECK 208: ONLY ONE BIRTH a) Did you want to have a baby later on, or did you not want any children? MORE THAN ONE BIRTH b) Did you want to have a baby later on, or did you not want any more children?	LATER	LATER	
407	How much longer did you want to wait?	MONTHS	MONTHS	
408	Did you see anyone for antenatal care for this pregnancy?	YES		
409	Whom did you see? Anyone else?	HEALTH PERSONNEL DOCTOR A NURSE/MIDWIFE B AUXILIARY MIDWIFE C COMMUNITY EXTENSION HEALTH WORKER D		
	PROBE TO IDENTIFY EACH TYPE OF PERSON AND RECORD ALL MENTIONED.	OTHER PERSON TRADITIONAL BIRTH ATTENDANT E COMMUNITY/ VILLAGE HEALTH WORKER F OTHER X (SPECIFY)		

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
410	Where did you receive antenatal care for this pregnancy? Anywhere else? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE)	HOME HER HOME A OTHER HOME B PUBLIC SECTOR GOVERNMENT HOSPITAL C GOVERNMENT HEALTH CENTER D GOVERNMENT HEALTH POST E OTHER PUBLIC SECTOR PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC G OTHER PRIVATE MEDICAL SECTOR H (SPECIFY) OTHER H (SPECIFY)	
411	How many months pregnant were you when you first received antenatal care for this pregnancy?	MONTHS	
412	How many times did you receive antenatal care during this pregnancy?	NUMBER OF TIMES DON'T KNOW	
413	As part of your antenatal care during this pregnancy, were any of the following done at least once: a) Was your blood pressure measured? b) Did you give a urine sample? c) Did you give a blood sample?	YES NO a) BP	
414	During this pregnancy, were you given an injection in the arm to prevent the baby from getting tetanus, that is, convulsions after birth?	YES	
415	During this pregnancy, how many times did you get a tetanus injection?	TIMES	
416	CHECK 415:	2 OR MORE OTHER TIMES (SKIP TO 420)	
417	At any time before this pregnancy, did you receive any tetanus injections?	YES	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
418	Before this pregnancy, how many times did you receive a tetanus injection?	TIMES	
	IF 7 OR MORE TIMES, RECORD '7'.	DON'T KNOW 8	
419	CHECK 418: ONLY ONE ONE THAN ONE TIME	YEARS AGO	
420	During this pregnancy, were you given or did you buy any iron tablets or iron syrup? SHOW TABLETS/SYRUP.	YES	
421	During the whole pregnancy, for how many days did you take the tablets or syrup? IF ANSWER IS NOT NUMERIC, PROBE FOR APPROXIMATE NUMBER OF	DAYS 998	
	DAYS.		
422	During this pregnancy, did you take any drug for intestinal worms?	YES 1 NO 2 DON'T KNOW 8	
423	During this pregnancy, did you take SP/Fansidar to keep you from getting malaria?	YES	
424	How many times did you take SP/Fansidar during this pregnancy?	TIMES	
425	Did you get the SP/Fansidar during any antenatal care visit, during another visit to a health facility or from another source? IF MORE THAN ONE SOURCE, RECORD THE HIGHEST SOURCE ON THE LIST.	ANTENATAL VISIT	
426	When (NAME) was born, was (NAME) very large, larger than average, average, smaller than average, or very small?	VERY LARGE 1 LARGER THAN 2 AVERAGE 2 AVERAGE 3 SMALLER THAN 4 AVERAGE 4 VERY SMALL 5 DON'T KNOW 8	VERY LARGE 1 LARGER THAN AVERAGE 2 AVERAGE 3 SMALLER THAN AVERAGE 4 VERY SMALL 5 DON'T KNOW 8
427	Was (NAME) weighed at birth?	YES	YES

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
428	How much did (NAME) weigh?	KG FROM CARD	KG FROM CARD
	RECORD WEIGHT IN KILOGRAMS FROM HEALTH CARD, IF AVAILABLE.	KG FROM RECALL 2 DON'T KNOW 99998	KG FROM RECALL 2 DON'T KNOW 99998
429	Who assisted with the delivery of (NAME)? Anyone else? PROBE FOR THE TYPE(S) OF PERSON(S) AND RECORD ALL MENTIONED. IF RESPONDENT SAYS NO ONE ASSISTED, PROBE TO DETERMINE WHETHER ANY ADULTS WERE PRESENT AT THE DELIVERY.	HEALTH PERSONNEL DOCTOR A NURSE/MIDWIFE B COMMUNITY HEALTH EXTENSION WORKER C AUXILIARY MIDWIFE D OTHER PERSON TRADITIONAL BIRTH ATTENDANT E RELATIVE/FRIEND F OTHER X- (SPECIFY) NO ONE ASSISTED Y - (SKIP TO 430)	HEALTH PERSONNEL DOCTOR A NURSE/MIDWIFE B COMMUNITY HEALTH EXTENSION WORKER C AUXILIARY MIDWIFE D OTHER PERSON TRADITIONAL BIRTH ATTENDANT E RELATIVE/FRIEND F OTHER (SPECIFY) NO ONE ASSISTED Y (SKIP TO 430)
429A	Immediately after delivery of (NAME) did you receive an injection in the thigh or buttock?	YES	YES
430	Where did you give birth to (NAME)? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE)	HOME HER HOME (SKIP TO 434) OTHER HOME 12 PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT HEALTH CENTER 22 GOVERNMENT HEALTH POST OTHER PUBLIC SECTOR 26 (SPECIFY) PRIVATE MEDICAL SECTOR 24	HOME HER HOME
		CLINIC	CLINIC
		(SKIP TO 434) ← − − −	(SKIP TO 459) ←

		LACT DIDTH	NEVT TO LAST DIDTH
		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
430A	Did you move from another health facility to come to this facility or did you go directly from home to this facility, or from somewhere else that was not a health facility?	CAME FROM ANOTHER HEALTH FACILITY	CAME FROM ANOTHER HEALTH FACILITY
		,	,
430B	Which health facility referred or send you to this facility where you gave birth to (NAME)? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT HEALTH CENTER	PUBLIC SECTOR GOVERNMENT HOSPITAL . 21 GOVERNMENT HEALTH CENTER
	OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	(SPECIFY)	(SPECIFY)
	(NAME OF PLACE)	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC
		(SPECIFY) 36	(SPECIFY) 36
		NO FORMAL REFERRAL 41	NO FORMAL REFERRAL 41
		OTHER96 (SPECIFY)	OTHER96 (SPECIFY)
430C	Why did you move from this facility to the facility where you gave birth to (NAME)?	PROBLEM DURING LABOR/ EMERGENCY 1 HEALTH PROFESSIONAL NOT AVAILABLE 2 FACILITY TOO CROWDED/ NO BED AVAILABLE 3 FACILITY NOT OPEN 4	PROBLEM DURING LABOR/ EMERGENCY 1 HEALTH PROFESSIONAL NOT AVAILABLE 2 FACILITY TOO CROWDED/ NO BED AVAILABLE 3 FACILITY NOT OPEN 4
		OTHER6 (SPECIFY)	OTHER (SPECIFY) 6
430D	Did a health worker go with you when you moved to the facility where you gave birth to (NAME)?	YES	YES

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
430E	What means of transportation did you use to get from the facility that referred you to the facility where you gave birth to (NAME)?	MOTORISED AMBULANCE	MOTORISED AMBULANCE
430F	What means of transportation did you use to get to the health facility where you gave birth to (NAME)? PROBE FOR THE TYPE (S) OF TRANSPORT USED AND RECORD ALL MENTIONED.	NOT MOTORISED BICYCLE H CANOE/BOAT WITHOUT I MOTOR I ANIMAL-DRAWN CART J WALKING (ON FOOT) K CARRIED L	NOT MOTORISED BICYCLE H CANOE/BOAT WITHOUT MOTOR I ANIMAL-DRAWN CART J WALKING (ON FOOT) K CARRIED L
		OTHER X (SPECIFY) DON'T KNOW Z	OTHER (SPECIFY) DON'T KNOW Z
430G	How long did it take for you to decide to go and reach the health facility?	MINUTES	MINUTES
	IF LESS THAN ONE HOUR, RECORD IN MINUTES.	DON'T KNOW 998	DON'T KNOW 998
431	How long after (NAME) was delivered did you stay there? IF LESS THAN ONE DAY, RECORD HOURS;	HOURS 1 DAYS 2 WEEKS 3	
	IF LESS THAN ONE WEEK, RECORD DAYS.	DON'T KNOW 998	
432	Was (NAME) delivered by caesarean, that is, did they cut your belly open to take the baby out?	YES	YES
433	When was the decision made to have the caesarean section? Was it before or after your labor pains started?	BEFORE	BEFORE
433A	What was the reason for taking the decision to have the caesarean section?	EXCESS BLEEDING 1 BREECH POSITON 2 MEDICAL CONDITION 3 OF MOTHER 3 CORD PROBLEM 4 VOLUNTARY 5 OTHER 6 (SPECIFY)	EXCESS BLEEDING 1 BREECH POSITON 2 MEDICAL CONDITION 3 CORD PROBLEM 4 VOLUNTARY 5 OTHER (SPECIFY)
434	Immediately after the birth, was (NAME) put on your chest?	YES	
434A	Was (NAME)'s bare skin touching your bare skin?	YES	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
434B	Was (NAME) wiped dry within a few minutes after birth?	YES	
434C	How long after the birth was (NAME) bathed for the first time?	IMMEDIATELY 000	
	IF LESS THAN ONE HOUR, RECORD `00' HOURS; IF LESS THAN 24 HOURS, RECORD HOURS; OTHERWISE, RECORD DAYS.	HOURS 1 DAYS 2 DON'T KNOW 998	
434D	CHECK 430: PLACE OF DELIVERY	CODE 11, 12, OR 96 OTHER CIRCLED (SKIP TO 434H)	
434E	What was used to cut the cord?	RAZOR BLADE 1 KNIFE 2 SCISSORS 3 SICKLE 4 OTHER 6 (SPECIFY)	
434F	Was it new or had it ever been used before?	DON'T KNOW 8 NEW 1 USED BEFORE 2	
434G	Was it boiled before it was used to cut the cord?	DON'T KNOW 8 YES 1 NO 2 DON'T KNOW 8	
434H	Was anything applied to the stump of the cord at any time?	YES	
4341	What was applied? Anything else?	CHLORHEXIDINE A OTHER ANTISEPTIC (ALCOHOL, SPIRIT, GENTIAN VIOLET, DETOL) B OLIVE OIL C ASH D ANIMAL DUNG E TURMERIC F OTHER X (SPECIFY) DON'T KNOW Z	
434J	CHECK 434I: SUBSTANCE APPLIED TO CORD	CODE 'A' CODE 'A' NOT CIRCLED CIRCLED (SKIP TO 434L)	
434K	Was chlorohexidine applied to the stump at any time?	YES	
	SHOW SAMPLE OF CHLORHEXIDINE	(SKIP TO 434M) ← DON'T KNOW8	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
434L	How long after the cord was cut was chlorhexidine first applied? IF LESS THAN 1 HOUR, RECORD `00' HOURS; IF LESS THAN 24 HOURS, RECORD HOURS; OTHERWISE, RECORD DAYS.	HOURS 1 DAYS 2 DON'T KNOW 998	
434M	CHECK 430: PLACE OF DELIVERY	CODE 11, 12, OR 96 OTHER CIRCLED (SKIP TO 449)	
435	I would like to talk to you about checks on your health after delivery, for example, someone asking you questions about your health or examining you. Did anyone check on your health while you were still in the facility?	YES	
436	How long after delivery did the first check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS 1 DAYS 2 WEEKS 3 DON'T KNOW 998	
437	Who checked on your health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	
438	Now I would like to talk to you about checks on (NAME)'s health after delivery – for example, someone examining (NAME), checking the cord, or seeing if (NAME) is OK. Did anyone check on (NAME)'s health while you were still in the facility?	YES	
439	How long after delivery was (NAME)'s health first checked? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
440	Who checked on (NAME)'s health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	
		(SPECIFY)	
441	Now I want to talk to you about what happened after you left the facility. Did anyone check on your health after you left the facility?	YES	
442	How long after delivery did that check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS	
443	Who checked on your health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	
		(SPECIFY)	

QUESTIONS AND FILTERS Where did the check take place?	NAME	NAME
Where did the check take place?		
	HOME HER HOME	
PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT HEALTH CENTER 22 GOVERNMENT HEALTH POST 23 OTHER PUBLIC SECTOR	
(NAME OF PLACE)	(SPECIFY) 26	
	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC	
	(SPECIFY) 36	
	OTHER96 (SPECIFY)	
I would like to talk to you about checks on (NAME)'s health after you left (FACILITY IN 430). Did any health care provider or a traditional birth attendant check on (NAME)'s health in the two months after you left (FACILITY IN 430)?	YES	
How many hours, days or weeks after the birth of (NAME) did that check take place?	HOURS 1 DAYS 2	
IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	WEEKS 3 DON'T KNOW 998	
Who checked on (NAME)'s health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	
	IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE) (NAME OF PLACE) I would like to talk to you about checks on (NAME)'s health after you left (FACILITY IN 430). Did any health care provider or a traditional birth attendant check on (NAME)'s health in the two months after you left (FACILITY IN 430)? How many hours, days or weeks after the birth of (NAME) did that check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS. Who checked on (NAME)'s health at that time?	SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE) (SPECIFY) (SPECIF

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
448	Where did this check of (NAME) take place?	HOME HER HOME	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 - GOVERNMENT HEALTH CENTER 22 - GOVERNMENT HEALTH POST 23 - OTHER PUBLIC SECTOR	
	(NAME OF PLACE)	26	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC	
		36 - (SPECIFY) OTHER (SPECIFY) 96 -	
		(SKIP TO 457) <	
449	I would like to talk to you about checks on your health after delivery, for example, someone asking you questions about your health or examining you. Did anyone check on your health after you gave birth to (NAME)?	YES	
450	How long after delivery did the first check take place?	HOURS 1	
	IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	DAYS	
451	Who checked on your health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
452	Where did this first check take place?	HOME 11 OTHER HOME 12	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE)	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT HEALTH CENTER	
	(NAIWE OF PLACE)	(SPECIFY) PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC	
		OTHER96 (SPECIFY)	
453	I would like to talk to you about checks on (NAME)'s health after delivery – for example, someone examining (NAME), checking the cord, or seeing if (NAME) is OK. In the two months after (NAME) was born, did any health care provider or a traditional birth attendant check on (NAME)'s health?	YES	
454	How many hours, days or weeks after the birth of (NAME) did the first check take place? IF LESS THAN ONE DAY, RECORD HOURS; IF LESS THAN ONE WEEK, RECORD DAYS.	HOURS AFTER BIRTH 1 DAYS AFTER BIRTH 2 WEEKS AFTER BIRTH 3 DON'T KNOW	
455	Who checked on (NAME)'s health at that time? PROBE FOR MOST QUALIFIED PERSON.	HEALTH PERSONNEL DOCTOR	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
456	Where did this first check of (NAME) take place?	HOME 11 HER HOME 12	
	PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL 21 GOVERNMENT HEALTH CENTER	
	(NAME OF PLACE)	26 (SPECIFY)	
		PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC	
		36 (SPECIFY)	
		OTHER96 SPECIFY	
457	During the first two days after (NAME)'s birth, did any health care provider do the following: a) Examine the cord? b) Measure (NAME)'s temperature? c) Counsel you on danger signs for newborns? d) Counsel you on breastfeeding? e) Observe (NAME) breastfeeding?	YES NO DK a) CORD	
	the birth of (NAME)?	(SKIP TO 460) ← 27 NO27 (SKIP TO 461) ←	
459	Did your period return between the birth of (NAME) and your next pregnancy?		YES
460	For how many months after the birth of (NAME) did you not have a period?	MONTHS	MONTHS
461	CHECK 226: IS RESPONDENT PREGNANT?	NOT PREGNANT PREGNANT OR UNSURE (SKIP TO 463)	
462	Have you had sexual intercourse since the birth of (NAME)?	YES	

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
463	For how many months after the birth of (NAME) did you not have sexual intercourse?	MONTHS	MONTHS
464	Did you ever breastfeed (NAME)?	YES	YES
465	CHECK 404: IS CHILD LIVING?	LIVING DEAD (SKIP TO 470) (SKIP TO 471)	
466	How long after birth did you first put (NAME) to the breast? IF LESS THAN 1 HOUR, RECORD '00' HOURS; IF LESS THAN 24 HOURS, RECORD HOURS; OTHERWISE, RECORD DAYS. In the first three days after delivery, was (NAME) given anything to drink other than breast milk?	IMMEDIATELY 000 HOURS 1 DAYS 2 YES 1 NO 2	
468	CHECK 404: IS CHILD LIVING?	LIVING DEAD (SKIP TO 471)	LIVING DEAD (SKIP TO 471)
469	Are you still breastfeeding (NAME)?	YES	
470	Did (NAME) drink anything from a bottle with a nipple yesterday or last night?	YES	YES
471		GO BACK TO 405 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 501A.	GO BACK TO 405 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 501A.

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
501A	CHECK 215 IN THE BIRTH HISTORY: ANY BIRTHS IN 20 ONE OR MORE BIRTHS IN 2015-2018	15-2018? NO BIRTHS IN 2015-2018	→ 601
502A	RECORD THE NAME AND BIRTH HISTORY NUMBER FR	ROM 212 OF THE LAST CHILD BORN IN 2015-2018. BIRTH HISTORY NUMBER	
503A	CHECK 216 FOR CHILD:	DEAD	→ 501B
504A	Do you have a card or other document where (NAME)'s vaccinations are written down?	YES, HAS ONLY A CARD	→ 507A → 507A
505A	Did you ever have a vaccination card for (NAME)?	YES	
506A	CHECK 504A: CODE '2' CIRCLED	CODE '4' CIRCLED	→ 511A
507A	May I see the card or other document where (NAME)'s vaccinations are written down?	YES, ONLY CARD SEEN	> 511A

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES				SKIP					
	NAME OF LAST BIRTH	BIR'	гн н	IISTC	RY NL	JMBER					
508A	COPY DATES FROM THE CARD. WRITE '44' IN 'DAY' COLUMN IF CARD SHOWS THAT A DOSE WAS GIVEN, BUT NO DATE IS RECORDED.										
		_	DAY	, 	МО	NTH	1	YE	AR		
	BCG										
	HEPATITIS B AT BIRTH										
	ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE)										
	ORAL POLIO VACCINE (OPV) 1										
	ORAL POLIO VACCINE (OPV) 2										
	ORAL POLIO VACCINE (OPV) 3										
	DPT-HEP.B-HIB (PENTAVALENT) 1										
	DPT-HEP.B-HIB (PENTAVALENT) 2										
	DPT-HEP.B-HIB (PENTAVALENT) 3										
	PNEUMOCOCCAL 1										
	PNEUMOCOCCAL 2										
	PNEUMOCOCCAL 3										
	INACTIVATED POLIO VIRUS (IPV)										
	MEASLES 1										
	MEASLES/MMR 2										
	VITAMIN A (MOST RECENT)										
509A	CHECK 508A: 'BCG' TO 'MEASLES/MMR 2' ALL RECORI	DED?									
	NO				Y	ES _	1				→ 526A
510A	In addition to what is recorded on (this document/these documents), did (NAME) receive any other vaccinations, including vaccinations received in campaigns or immunization days or child health days?	YES									
	RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 508A THAT ARE NOT RECORDED AS HAVING BEEN GIVEN.	(THEN SKIP TO 526A) NO									

SECTION 5A. CHILD IMMUNIZATION (LAST BIRTH)

NAME OF LAST BIRTH BIRTH BIRTH HISTORY NUMBER 511A Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? 512A Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? 513A Within 24 hours after birth, did (NAME) receive a Hepatitis B vaccination, that is, an injection in the thigh to prevent Hepatitis B? 514A Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? FIGH HISTORY NUMBER 1 NO 2 DON'T KNOW 8 1 NO 2 DON'T KNOW 8 1 NO 2 DON'T KNOW 8	→ 526A
(NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days? 512A Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? 513A Within 24 hours after birth, did (NAME) receive a Hepatitis B vaccination, that is, an injection in the thigh to prevent Hepatitis B? 514A Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? NO 2 TES 11 → 526A	
tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar? DON'T KNOW 8 513A Within 24 hours after birth, did (NAME) receive a Hepatitis B vaccination, that is, an injection in the thigh to prevent Hepatitis B? PART Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? NO 2 DON'T KNOW 8	
Hepatitis B vaccination, that is, an injection in the thigh to prevent Hepatitis B? DON'T KNOW 8 514A Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio? NO 2 NO 2 NO 2 1	
about two drops in the mouth to prevent polio?	
DON'T KNOW 8	→ 517A
515A Did (NAME) receive the first oral polio vaccine in the first two weeks after birth or later? Did (NAME) receive the first oral polio vaccine in the first LATER 1 LATER 2	
516A How many times did (NAME) receive the oral polio vaccine? NUMBER OF TIMES	
Has (NAME) ever received a pentavalent vaccination, that is, an injection given in the thigh sometimes at the same time as polio drops? YES NO DON'T KNOW 8	├→ 519A
518A How many times did (NAME) receive the pentavalent vaccine? NUMBER OF TIMES	
Has (NAME) ever received a pneumococcal vaccination, that is, an injection in the thigh to prevent pneumonia? YES 1 NO 2 DON'T KNOW 8	├→ 521A
520A How many times did (NAME) receive the pneumococcal vaccine? NUMBER OF TIMES	
Has (NAME) ever received an inactivated polio vaccine (IPV), that is, an injection in the thigh to prevent polio? YES NO 2 DON'T KNOW 8	
523A Has (NAME) ever received a measles vaccination, that is, an injection in the arm to prevent measles? YES	→ 526A
524A How many times did (NAME) receive the measles vaccine? NUMBER OF TIMES	
526A CONTINUE WITH 501B.	

SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES				
501B	CHECK 215 IN THE BIRTH HISTORY: ANY MORE BIRTHS IN 2015-2018? MORE BIRTHS IN 2015-2018 NO MORE BIRTHS IN 2015-2018					
502B	RECORD THE NAME AND BIRTH HISTORY NUMBER FROM 212 OF THE NEXT-TO-LAST CHILD BORN IN 2015- 2018. NAME OF NEXT-TO-					
	LAST BIRTH	BIRTH HISTORY NUMBER				
503B	CHECK 216 FOR CHILD:	DEAD	→ 526B			
504B	Do you have a card or other document where (NAME)'s vaccinations are written down?	YES, HAS ONLY A CARD	→ 507B → 507B			
505B	Did you ever have a vaccination card for (NAME)?	YES				
506B	CHECK 504B: CODE '2' CIRCLED	CODE '4' CIRCLED	→ 511B			
507B	May I see the card or other document where (NAME)'s vaccinations are written down?	YES, ONLY CARD SEEN	→ 511B			

SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP		
	NAME OF NEXT-TO- LAST BIRTH	BIRTH HISTORY NUMBER			
508B	WRITE '44' IN 'DAY' COLUMN IF CARD SHOWS THAT A DOSE WAS GIVEN, BUT NO DATE IS RECORDED.				
	BCG	DAY MONTH YEAR			
	HEPATITIS B AT BIRTH				
	ORAL POLIO VACCINE (OPV) 0 (BIRTH DOSE)				
	ORAL POLIO VACCINE (OPV) 1				
	ORAL POLIO VACCINE (OPV) 2				
	ORAL POLIO VACCINE (OPV) 3				
	DPT-HEP.B-HIB (PENTAVALENT) 1				
	DPT-HEP.B-HIB (PENTAVALENT) 2				
	DPT-HEP.B-HIB (PENTAVALENT) 3				
	PNEUMOCOCCAL 1				
	PNEUMOCOCCAL 2				
	PNEUMOCOCCAL 3				
	INACTIVATED POLIO VIRUS (IPV)				
	MEASLES 1				
	MEASLES/MMR 2				
	VITAMIN A (MOST RECENT)				
	VII/WIIIV/ (WOOT NEGENT)				
509B	CHECK 508B: 'BCG' TO 'MEASLES/MMR 2' ALL RECORI	DED? YES	→ 526B		
510B	In addition to what is recorded on (this document/these documents), did (NAME) receive any other vaccinations, including vaccinations received in campaigns or immunization days or child health days?	YES			
	RECORD 'YES' ONLY IF THE RESPONDENT MENTIONS AT LEAST ONE OF THE VACCINATIONS IN 508B THAT ARE NOT RECORDED AS HAVING BEEN GIVEN.	NO			

SECTION 5B. CHILD IMMUNIZATION (NEXT-TO-LAST BIRTH)

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
	NAME OF NEXT-TO- LAST BIRTH	BIRTH HISTORY NUMBER	
511B	Did (NAME) ever receive any vaccinations to prevent (NAME) from getting diseases, including vaccinations received in campaigns or immunization days or child health days?	YES] → 526B
512B	Has (NAME) ever received a BCG vaccination against tuberculosis, that is, an injection in the arm or shoulder that usually causes a scar?	YES	
513B	Within 24 hours after birth, did (NAME) receive a Hepatitis B vaccination, that is, an injection in the thigh to prevent Hepatitis B?	YES	
514B	Has (NAME) ever received oral polio vaccine, that is, about two drops in the mouth to prevent polio?	YES]→ 517B
515B	Did (NAME) receive the first oral polio vaccine in the first two weeks after birth or later?	FIRST TWO WEEKS	
516B	How many times did (NAME) receive the oral polio vaccine?	NUMBER OF TIMES	
517B	Has (NAME) ever received a pentavalent vaccination, that is, an injection given in the thigh sometimes at the same time as polio drops?	YES]→ 519B
518B	How many times did (NAME) receive the pentavalent vaccine?	NUMBER OF TIMES	
519B	Has (NAME) ever received a pneumococcal vaccination, that is, an injection in the thigh to prevent pneumonia?	YES]→ 521B
520B	How many times did (NAME) receive the pneumococcal vaccine?	NUMBER OF TIMES	
521B	Has (NAME) ever received an inactivated polio vaccine (IPV), that is, an injection in the thigh to prevent polio?	YES	
523B	Has (NAME) ever received a measles vaccination, that is, an injection in the arm to prevent measles?	YES]→ 526B
524B	How many times did (NAME) receive the measles vaccine?	NUMBER OF TIMES	
526B	CHECK 215 IN BIRTH HISTORY: ANY MORE BIRTHS IN	2015-2018?	
	MORE BIRTHS IN 2015-2018	NO MORE BIRTHS IN 2015-2018	→ 601
	(GO TO 502B IN AN ← ADDITIONAL QUESTIONNAIRE)		

601	CHECK 224:				
	ONE OR MORE BIRTHS IN 2013-2018	HS			
602	CHECK 215: RECORD THE BIRTH HISTORY NUMBER IN 603 AND THE NAME AND SURVIVAL STATUS IN 604 FOR EACH BIRTH IN 2013-2018. ASK THE QUESTIONS ABOUT ALL OF THESE BIRTHS. BEGIN WITH THE LAST BIRTH. IF THERE ARE MORE THAN 2 BIRTHS, USE LAST COLUMN OF ADDITIONAL QUESTIONNAIRE(S). Now I would like to ask some questions about your children born in the last five years. (We will talk about each separately.)				
603	BIRTH HISTORY NUMBER FROM 212 IN BIRTH HISTORY.	LAST BIRTH BIRTH HISTORY NUMBER	NEXT-TO-LAST BIRTH BIRTH HISTORY NUMBER		
604	FROM 212 AND 216:	NAME LIVING DEAD (SKIP TO 646)	NAME LIVING DEAD (SKIP TO 646)		
605	In the last six months, was (NAME) given a vitamin A dose like this? SHOW COMMON TYPES OF CAPSULES.	YES	YES		
606	In the last seven days, was (NAME) given iron pills, sprinkles with iron, or iron syrup like [this/any of these]? SHOW COMMON TYPES OF PILLS/SPRINKLES/SYRUPS.	YES	YES		
607	Was (NAME) given any medicine for deworming in the last six months?	YES	YES		
608	Has (NAME) had diarrhea in the last 2 weeks?	YES	YES		

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
609	CHECK 469: CURRENTLY BREASTFEEDING? YES	MUCH LESS	MUCH LESS
610	When (NAME) had diarrhea, was (NAME) given less than usual to eat, about the same amount, more than usual, or nothing to eat? IF LESS, PROBE: Was (NAME) given much less than usual to eat or somewhat less?	MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 STOPPED FOOD 5 NEVER GAVE FOOD 6 DON'T KNOW 8	MUCH LESS 1 SOMEWHAT LESS 2 ABOUT THE SAME 3 MORE 4 STOPPED FOOD 5 NEVER GAVE FOOD 6 DON'T KNOW 8
611	Did you seek advice or treatment for the diarrhea from any source?	YES	YES

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
612	Where did you seek advice or treatment? Anywhere else? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE(S).	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT HEALTH CENTER B GOVERNMENT HEALTH POST C MOBILE CLINIC D FIELDWORKER E OTHER PUBLIC SECTOR F (SPECIFY)	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT HEALTH CENTER
	(NAME OF PLACE(S))	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC G PHARMACY H CHEMIST/PMS I PRIVATE DOCTOR J MOBILE CLINIC K FIELDWORKER L OTHER PRIVATE MEDICAL SECTOR M (SPECIFY) OTHER SOURCE SHOP N	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC G PHARMACY H CHEMIST/PMS I PRIVATE DOCTOR J MOBILE CLINIC K FIELDWORKER L OTHER PRIVATE MEDICAL SECTOR M (SPECIFY) OTHER SOURCE SHOP N
		TRADITIONAL PRACTITIONER O MARKET P ITINERANT DRUG SELLER Q COMMUNITY-ORIENTED RESOURCE PERSON R OTHER X (SPECIFY)	TRADITIONAL PRACTITIONER O MARKET P ITINERANT DRUG SELLER Q COMMUNITY-ORIENTED RESOURCE PERSON R OTHER X (SPECIFY)
613	CHECK 612:	TWO OR ONLY MORE ONE CODES CIRCLED CIRCLED (SKIP TO 615)	TWO OR ONLY MORE ONE CODES CIRCLED CIRCLED (SKIP TO 615)
614	Where did you first seek advice or treatment? USE LETTER CODE FROM 612.	FIRST PLACE	FIRST PLACE

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
615	Was (NAME) given any of the following at any time since (NAME) started having the diarrhea: a) A fluid made from a special packet called CHI ORS, Emzorlyte, Orasure, Olpharm ORS etc.? c) A government-recommended homemade fluid? d) Zinc tablets or syrup?	YES NO DK a) FLUID FROM ORS PACKET . 1 2 8 c) HOMEMADE FLUID 1 2 8 d) ZINC 1 2 8	YES NO DK a) FLUID FROM ORS PACKET . 1 2 8 c) HOMEMADE FLUID
616	CHECK 615: ANY 'YES'	YES 1 NO 2 (SKIP TO 618) DON'T KNOW 8	YES
617	ANY 'YES' ALL 'NO' OR 'DK' a) What else was given to treat the diarrhea? Anything else? Anything else? Anything else Anything else?	PILL OR SYRUP ANTIBIOTIC A ANTIMOTILITY B OTHER (NOT ANTIBIOTIC OR ANTIMOTILITY) C UNKNOWN PILL OR SYRUP D INJECTION ANTIBIOTIC E NON-ANTIBIOTIC F UNKNOWN INJECTION G (IV) INTRAVENOUS H HOME REMEDY/ HERBAL MEDICINE I OTHER X	PILL OR SYRUP ANTIBIOTIC A ANTIMOTILITY B OTHER (NOT ANTIBIOTIC OR ANTIMOTILITY) C UNKNOWN PILL OR SYRUP D INJECTION ANTIBIOTIC E NON-ANTIBIOTIC F UNKNOWN INJECTION G (IV) INTRAVENOUS H HOME REMEDY/ HERBAL MEDICINE I OTHER X
618	Has (NAME) been ill with a fever at any time in the last 2 weeks?	YES	YES
619	At any time during the illness, did (NAME) have blood taken from (NAME)'s finger or heel for testing?	YES	YES
620	Has (NAME) had an illness with a cough at any time in the last 2 weeks?	YES	YES
621	Has (NAME) had fast, short, rapid breaths or difficulty breathing at any time in the last 2 weeks?	YES	YES

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
622	Was the fast or difficult breathing due to a problem in the chest or to a blocked or runny nose?	CHEST ONLY 1 ¬ NOSE ONLY 2 ¬ BOTH 3 ¬ OTHER 6 ¬ (SPECIFY) DON'T KNOW 8 ¬ (SKIP TO 624) ←	CHEST ONLY 1 NOSE ONLY 2 BOTH 3 OTHER 6 (SPECIFY) DON'T KNOW 8- (SKIP TO 624) ■
623	CHECK 618: HAD FEVER?	YES NO OR DK ☐ (SKIP TO 646) ←	YES NO OR DK (SKIP TO 646)
624	Did you seek advice or treatment for the illness from any source?	YES	YES
625	Where did you seek advice or treatment? Anywhere else? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE(S).	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT HEALTH CENTER	PUBLIC SECTOR GOVERNMENT HOSPITAL . A GOVERNMENT HEALTH CENTER . B GOVERNMENT HEALTH POST . C MOBILE CLINIC . D FIELDWORKER/CHW . E OTHER PUBLIC SECTOR F (SPECIFY)
	(NAME OF PLACE(S))	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC G PHARMACY H CHEMIST/PMS I PRIVATE DOCTOR J MOBILE CLINIC K FIELDWORKER/CHW L OTHER PRIVATE MEDICAL SECTOR	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/ CLINIC G PHARMACY H CHEMIST/PMS I PRIVATE DOCTOR J MOBILE CLINIC K FIELDWORKER/CHW L OTHER PRIVATE MEDICAL SECTOR
		(SPECIFY) OTHER SOURCE SHOP N TRADITIONAL PRACTITIONER O MARKET P ITINERANT DRUG SELLER Q COMMUNITY-ORIENTED RESOURCE PERSON R	(SPECIFY) OTHER SOURCE SHOP N TRADITIONAL PRACTITIONER O MARKET P ITINERANT DRUG SELLER Q COMMUNITY-ORIENTED RESOURCE PERSON R
		OTHER X (SPECIFY)	OTHER X (SPECIFY)
626	CHECK 625:	TWO OR ONLY MORE ONE CODES CIRCLED CIRCLED (SKIP TO 628)	TWO OR ONLY MORE ONE CODES CIRCLED CIRCLED (SKIP TO 628)

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
627	Where did you first seek advice or treatment? USE LETTER CODE FROM 625.	FIRST PLACE	FIRST PLACE
628	How many days after the illness began did you first seek advice or treatment for (NAME)? IF THE SAME DAY RECORD '00'.	DAYS	DAYS
629	At any time during the illness, did (NAME) take any drugs for the illness?	YES	YES
630	What drugs did (NAME) take? Any other drugs? RECORD ALL MENTIONED.	ANTIMALARIAL DRUGS ARTEMISININ COMBINATION THERAPY (ACT) A SP/FANSIDAR B CHLOROQUINE C AMODIAQUINE D QUININE PILLS E INJECTION/IV F ARTESUNATE RECTAL G INJECTION/IV H OTHER ANTIMALARIAL (SPECIFY) ANTIBIOTIC DRUGS PILL/SYRUP J INJECTION/IV K OTHER DRUGS ASPIRIN L PARACETAMOL M IBUPROFEN N OTHER X (SPECIFY) DON'T KNOW Z	ANTIMALARIAL DRUGS ARTEMISININ COMBINATION THERAPY (ACT) APPEANSIDAR B CHLOROQUINE C AMODIAQUINE PILLS INJECTION/IV F ARTESUNATE RECTAL G INJECTION/IV OTHER ANTIMALARIAL (SPECIFY) ANTIBIOTIC DRUGS PILL/SYRUP INJECTION/IV K OTHER DRUGS ASPIRIN L PARACETAMOL IBUPROFEN N OTHER X (SPECIFY) DON'T KNOW Z
631	CHECK 630: ANY CODE A-I CIRCLED?	YES NO ☐ (SKIP TO 646) ←	YES NO ☐

		LAST BIRTH	NEXT-TO-LAST BIRTH
NO.	QUESTIONS AND FILTERS	NAME	NAME
632	CHECK 630: ARTEMISININ COMBINATION THERAPY ('A') GIVEN	CODE 'A' CIRCLED CIRCLED (SKIP TO 646)	CODE 'A' CIRCLED CIRCLED (SKIP TO 646)
633	How long after the fever started did (NAME) first take an artemisinin combination therapy?	SAME DAY 0 NEXT DAY 1 TWO DAYS AFTER FEVER 2 THREE OR MORE DAYS AFTER FEVER 3 DON'T KNOW 8	SAME DAY 0 NEXT DAY 1 TWO DAYS AFTER FEVER 2 THREE OR MORE DAYS AFTER FEVER 3 DON'T KNOW 8
646		GO BACK TO 604 IN NEXT COLUMN; OR, IF NO MORE BIRTHS, GO TO 647.	GO TO 604 IN NEXT-TO-LAST COLUMN OF NEW QUESTIONNAIRE; OR, IF NO MORE BIRTHS, GO TO 647.

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
647	CHECK 615(a) AND 615(b), ALL COLUMNS: NO CHILD RECEIVED FLUID FROM ORS PACKET	ANY CHILD CANDERS OF THE PROPERTY OF THE PROPE	→ 649
648	Have you ever heard of a special product ORS called CHI ORS, Emzorlyte, Orasure, Olpharm ORS etc. you can get for the treatment of diarrhea?	YES	
649	CHECK 215 AND 218, ALL ROWS: NUMBER OF CHILDRING RESPONDENT ONE OR MORE (NAME OF YOUNGEST CHILD LIVING WITH HER)	NONE	→ 653A

Now I would like to say you about liquids or protes heat NAME FROM 659) had weetersdy during the day or at night. I am interested in whether your child had the leten Imention even if it was combined with other foods. Did (NAME FROM 659) drink or eat: a Plain water?	NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
b) Juice or juice drinks?	650	(NAME FROM 649) had yesterday during the day or at night. I am interested in whether your child had the item I mention even if it was combined with other foods.	YES NO DK	
c) Clear broth? c) 1 2 8		a) Plain water?	a) 1 2 8	
C) Clear broth? C)			b) 1 2 8	
IF YES: How many times did (NAME) drink milk?			c) 1 2 8	
IF 7 OR MORE TIMES, RECORD '7' TIMES DRANK		,	d) 1 2 8	
Laclogen, Peak Milk 123, Cow and Gate, etc.)? IF YES: How many times did (NAME) drink infant formula? IF 7 OR MORE TIMES, RECORD '7: Any other liquids?		IF 7 OR MORE TIMES, RECORD '7'.		
1		Lactogen, Peak Milk 123, Cow and Gate, etc.)? IF YES: How many times did (NAME) drink infant		
g) Yogurt? IF YES: How many times did (NAME) eat yogurt? g)		IF 7 OR MORE TIMES, RECORD '7'.	TIMES DRANK	
IF YES: How many times did (NAME) eat yogurt? IF 7 OR MORE TIMES, RECORD '7'. Nume, Frisolac H, Weatabix, etc.? I) Bread, rice, noodles, porridge, macaroni, tuwo shinkafa, semo, masa, pap or other foods made from grains (e.g. millet, sorghum, maize, wheat, oats, etc.)? I) Pumpkin, carrots, squash, or sweet potatoes that are yellow or orange inside? k) Irishl/white potatoes, white yams, cassava, plantain, cocoyam, garri, fufu, lafun, or any other foods made from roots? I) Any dark green, leafy vegetables like spinach, pumpkin leaf, ugu, zogale (moringa), yakuwa, soko, ewedu, oha leaf, lansir, yadiya, rama, tafasa, etc.? m) Ripe mangoes, ripe pawpaw, ripe passion fruit, dorowa, or red palm-nuts etc.? n) Any other fruits or vegetables (e.g. banana, watermelon, apples, green beans, avocados, tomatoes)? o) Liver, kidney, heart, or other organ meats? o) Liver, kidney, heart, or other organ meats? o) Liver, kidney, heart, or other organ meats? q) Eggs? q) 1 2 8 r) Fresh or dried fish or shellfish? r) Cheese or other food made from milk? t) Cheese or other food made from milk? t) 1 2 8		f) Any other liquids?	f) 1 2 8	
IF 7 OR MORE TIMES, RECORD 17. TIMES ATE				
Nutren, Frisolac H, Weatabix, etc.? i) Bread, rice, noodles, porridge, macaroni, tuwo shinkafa, semo, masa, pap or other foods made from grains (e.g. millet, sorghum, maize, wheat, oats, etc.)? j) Pumpkin, carrots, squash, or sweet potatoes that are yellow or orange inside? k) Irish/white potatoes, white yams, cassava, plantain, cocoyam, garri, fufu, lafun, or any other foods made from roots? l) Any dark green, leafy vegetables like spinach, pumpkin leaf, ugu, zogale (moringa), yakuwa, soko, ewedu, oha leaf, lansir, yadiya, rama, tafasa, etc.? m) Ripe mangoes, ripe pawpaw, ripe passion fruit, dorowa, or red palm-nuts etc.? n) Any other fruits or vegetables (e.g. banana, watermelon, apples, green beans, avocados, tomatoes)? o) Liver, kidney, heart, or other organ meats? o) 1 2 8 p) Any meat, such as beef, mutton, pork, lamb, bat, bush rat/bush meat, kundi, kilishi, camel, chicken, or duck? q) Eggs? q) 1 2 8 r) Fresh or dried fish or shellfish? r) 1 2 8 s) Any foods made from beans, peas, lentils, or nuts like moimoi, akara?		IF 7 OR MORE TIMES, RECORD '7'.		
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coccyam, garri, fufu, lafun, or any other foods made from roots? I) Any dark green, leafy vegetables like spinach, pumpkin leaf, ugu, zogale (moringa), yakuwa, soko, ewedu, oha leaf, lansir, yadiya, rama, tafasa, etc.? m) Ripe mangoes, ripe pawpaw, ripe passion fruit, dorowa, or red palm-nuts etc.? n) Any other fruits or vegetables (e.g. banana, watermelon, apples, green beans, avocados, tomatoes)? o) Liver, kidney, heart, or other organ meats? o) Liver, kidney, heart, or other organ meats? o) 1 2 8 p) Any meat, such as beef, mutton, pork, lamb, bat, bush rat/bush meat, kundi, kilishi, camel, chicken, or duck? q) Eggs? q) 1 2 8 r) Fresh or dried fish or shellfish? r) 1 2 8 s) Any foods made from beans, peas, lentils, or nuts like moimoi, akara? t) Cheese or other food made from milk? t) 1 2 8			j) 1 2 8	
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dorowa, or red palm-nuts etc.? n) Any other fruits or vegetables (e.g. banana, watermelon, apples, green beans, avocados, tomatoes)? o) Liver, kidney, heart, or other organ meats? o) 1 2 8 p) Any meat, such as beef, mutton, pork, lamb, bat, bush rat/bush meat, kundi, kilishi, camel, chicken, or duck? q) Eggs? q) 1 2 8 r) Fresh or dried fish or shellfish? r) 1 2 8 s) Any foods made from beans, peas, lentils, or nuts like moimoi, akara? t) Cheese or other food made from milk? t) 1 2 8		pumpkin leaf, ugu, zogale (moringa), yakuwa, soko,	l) 1 2 8	
watermelon, apples, green beans, avocados, tomatoes)? o) Liver, kidney, heart, or other organ meats? o) 1 2 8 p) Any meat, such as beef, mutton, pork, lamb, bat, bush rat/bush meat, kundi, kilishi, camel, chicken, or duck? q) Eggs? q) 1 2 8 r) Fresh or dried fish or shellfish? r) 1 2 8 s) Any foods made from beans, peas, lentils, or nuts like moimoi, akara? t) Cheese or other food made from milk? t) 1 2 8			m) 1 2 8	
p) Any meat, such as beef, mutton, pork, lamb, bat, bush rat/bush meat, kundi, kilishi, camel, chicken, or duck? q) Eggs? q) 1 2 8 r) Fresh or dried fish or shellfish? r) 1 2 8 s) Any foods made from beans, peas, lentils, or nuts like moimoi, akara? t) Cheese or other food made from milk? t) 1 2 8		watermelon, apples, green beans, avocados,	n) 1 2 8	
bush rat/bush meat, kundi, kilishi, camel, chicken, or duck? q) Eggs? q)		o) Liver, kidney, heart, or other organ meats?	o) 1 2 8	-
r) Fresh or dried fish or shellfish? r)		bush rat/bush meat, kundi, kilishi, camel, chicken, or	p) 1 2 8	
s) Any foods made from beans, peas, lentils, or nuts s)		q) Eggs?	q) 1 2 8	7
t) Cheese or other food made from milk? t) 1 2 8		r) Fresh or dried fish or shellfish?	r) 1 2 8	
		1 / -	s) 1 2 8	
u) Any other solid, semi-solid, or soft food? u)		t) Cheese or other food made from milk?	t) 1 2 8	7
		u) Any other solid, semi-solid, or soft food?	u) 1 2 8	_

NO.	QUESTIONS AND FILTERS		CODING CATE	30RIE	S		SKIP
651	CHECK 650 (CATEGORIES 'g' THROUGH 'u'):						
	NOT A SINGLE 'YES' AT LEAS	ST ONE 'YES	_{5'}				→ 653
652	Did (NAME FROM 649) eat any solid, semi-solid, or soft foods yesterday during the day or at night?	YES .	(GO BACK TO 65 FOOD EATEN				
	IF 'YES' PROBE: What kind of solid, semi-solid or soft foods did (NAME) eat?		(THEN CONTINUE	TO 653	3) ←		
		NO .	`		•	2	→ 653A
653	How many times did (NAME FROM 649) eat solid, semi- solid, or soft foods yesterday during the day or at night?	NUMBER	OF TIMES				
	IF 7 OR MORE TIMES, RECORD '7'.	DON'T KI	NOW			8	
653A	Now I would like to ask you about foods and drinks that you ate or drank yesterday during the day or night, whether you ate it at home or anywhere else. I am interested in whether you had the food items I will mention even if they were combined with other foods. For example, if you had a soup made with carrots, potatoes and meat, you should reply "yes" for each of these ingredients when I read you the list. However, if you consumed only the broth of a soup, but not the meat or vegetable, do not say "yes" for the meat or vegetable. As I ask you about foods and drinks, please think of foods and drinks you had as snacks or small meals as well as during any main meals. Please also remember foods you may have eaten while preparing meals or preparing food for others. Please do not include any food used in a small amount for seasoning or condiments (like spices, herbs or crayfish powder). I will ask you about those foods separately.			s. For well as ng food			
	Yesterday during the day or at night, did you eat or drink:						
	Any foods made from grains, like:			YES	NO	DK	
	a) Wheat, maize, rice, sorghum (guinea corn or dawa), mil (gero/jero), acha, spaghetti (talia), macaroni, noodles, b	read,	a)	1	2	8	
	Any vegetables or roots that are orange coloured inside						
	b) Squash that is orange inside, pumpkin, carrot, red swee (tatase), sweet potato that is orange inside (orange flesh potatoes)?		b)	1	2	8	
	Any white roots and tubers or plantains, like:						
	c) Yam, water yam, cocoyam, potato, cassava, tigernut flo	ur,	c)	1	2	8	
	Any dark green leafy vegetables, like:						
	d) Ugu, bitter leaf (ewuro/ onugbu), zogale (moringa), yaku leaves), soko, ewedu/ayoyo, afang/okazi, sweet potato cassava leaves, cocoyam leaves, amaranthus/spinach (green/tete), water leaf, oha leaf, karkashi, kuka (baobal lansir, yadiya, rama, tafasa, kanya, cress, lettuce, yanrir spinach), eku gogoro, eku petere, ilasa (young okro leav igbagba, ebolo, atama, editan, scent leaf (ntong/nchuaw arigbe/aluluisi), chaya (iyana paja), egg plant leaves?	leaves, b, luru), ı (wild /es),	d)	1	2	8	
	Any fruits that are dark yellow or orange inside, like:						
	e) Ripe pawpaw (gwanda/ibeppe/okwuru oru/bobo), ripe m passion fruit, dorowa (locust bean fruit), red palm fruit, h (tsadan gida, iyeye, ngulungu), ripe cantaloupe, musk m monkey cola (ndiya), bush mango fruit (ugili/ogbono/mb	og plum elon,	e)	1	2	8	
	Any other fruits, like:						
	f) Apple, banana, watermelon, tangerine, grapes, avocado oranges, pears, dates (dabino), guava, pineapple, grape coconut, African cherry/African star apple (agbalumo/ud breadfruit, cashew fruit, soursop, golden melon, baobab (ose/nonkuku), figs, shea fruit, doum palm fruit (goruba)	efruit, ara/udala), fruit	f)	1	2	8	
	Any other vegetables, like:						1
	g) Cabbage, cucumber, fresh tomato, onion, green beans, pepper, okro, garden egg, green peas, boiled or roasted corn, beets, mushroom, ujuju?	-	g)	1	2	8	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
	Any meat made from animal organs, like: h) Liver, kidney, heart, gizzard?	h) 1 2 8	
	Any other types of meat or poultry, like: i) Meat, chicken, and other bush meat/bird, kundi, kilishi, dar nama, ponmo (cow skin)?	i) 1 2 8	
	Any eggs j) Any eggs?	j) 1 2 8	
	Any fish or seafood, whether fresh or dried, like: k) Fish, crab, lobster, cray fish, shrimp, stock fish (okporoko)	k) 1 2 8	
	Any beans or peas, like: I) Beans, chickpeas, soya beans, bambara nut (ebi-abo)?	l) 1 2 8	
	Any nuts or seeds, like: m) Melon seed (egusi), pumpkin seeds (mkpuru anyu/ugbogu walnuts, groundnuts, shea nut, cashew nuts, bush mango (ogbono)?	, · · · · · · · · · · · · · · · · · · ·	
	Any milk or milk products, like: n) Milk, sour milk (nono), yogurt, cheese (wara)?	n) 1 2 8	-
	Any insects and other small protein foods, like: o) Winged termite (aku, esunsun, chinge, ako), cricket, snails (igbin/ejuna), sea snails (nkonko/isawuru), periwinkle, ogoi akankwu, African palm weevil larva (monini/ekuku/okuka/u	ngo,	
	Any red palm oil, like: p) Foods made with red palm oil, red palm nut, or red palm nut sauces?	rt pulp p) 1 2 8	
	Any other oils and fats, like: q) Oil, fats or butter added to food or used for cooking, includ vegetable oil, any other type of oil, butter, margarine (blue mayonnaise, shea butter, manshanu, extracted oils from n fruits and seeds, and all animal fat?	pand),	
	Any savoury and fried snacks, like: r) Crisps and chips, fried dough (puffpuff), other fried snacks (chinchin, kulikuli, donkuwa)?	r) 1 2 8	-
	Any sweets, like: s) Chocolates, candies, cookies/sweet biscuits and cakes, sweet pastries or ice cream?	veet s) 1 2 8	
	Any sugar-sweetened beverages, like: t) Sweetened fruit juices and "juice drinks", soft drinks/fizzy d chocolate drinks(milo), malt drinks, sweet tea or coffee with	,	
	Any condiments and seasonings, like: u) Salt, Maggi, black pepper, alligator pepper, yaji, bay leaf, u scent leaves, utazi, thyme, curry, ginger, garlic, cloves (kar tomato paste, ehuru, uyayak, uda, crayfish powder, locust used as seasoning, ogiri?	nafuru),	
	Any other beverages and foods, like: v) Coffee or tea if unsweetened, alcohol, clear broth, soup broolives, pickled cucumbers, herbal beverages/infusions (zotkunun aya, kunun dawa, water, kolanut, bitter kola?		

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
653B	CHECK 215 AND 218, ALL ROWS: NUMBER OF CHILDR RESPONDENT ONE OR MORE	EN BORN IN 2016-2018 LIVING WITH THE	> 701
	(NAME OF YOUNGEST CHILD LIVING WITH HER)		
654	The last time (NAME FROM 649) passed stools, what was done to dispose of the stools?	CHILD USED TOILET OR LATRINE 01 PUT/RINSED INTO TOILET OR LATRI 02 PUT/RINSED INTO DRAIN OR DITCH 03 THROWN INTO GARBAI 04 BURIED 05 LEFT IN THE OPI 06 OTHER 96 (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
701	Are you currently married or living together with a man as if married?	YES, CURRENTLY MARRIED 1 YES, LIVING WITH A MAN 2 NO, NOT IN UNION 3]→ 704
702	Have you ever been married or lived together with a man as if married?	YES, FORMERLY MARRIED 1 YES, LIVED WITH A MAN 2 NO 3	→ 712
703	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED 1 DIVORCED 2 SEPARATED 3	709
704	Is your (husband/partner) living with you now or is he staying elsewhere?	LIVING WITH HER	
705	RECORD THE HUSBAND'S/PARTNER'S NAME AND LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE. IF HE IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'.	NAME	
706	Does your (husband/partner) have other wives or does he live with other women as if married?	YES 1 NO 2 DON'T KNOW 8]→ 709
707	Including yourself, in total, how many wives or live-in partners does he have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS DON'T KNOW 98	
708	Are you the first, second, wife?	RANK	
709	Have you been married or lived with a man only once or more than once?	ONLY ONCE 1 MORE THAN ONCE 2	
710	MARRIED/ LIVED WITH A MAN ONLY ONCE a) In what month and year did you start living with your (husband/partner)? MARRIED/ LIVED WITH A MAN MORE THAN ONCE b) Now I would like to ask about your first (husband/partner). In what month and year did you start living with him?	MONTH]→ 712
711	How old were you when you first started living with him?	AGE	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
712	CHECK FOR PRESENCE OF OTHERS. BEFORE CONTI	NUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.	
713	Now I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. How old were you when you had sexual intercourse for the very first time?	NEVER HAD SEXUAL INTERCOURSE	→ 731
714	I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE	DAYS AGO	→ 716
	RECORDED IN DAYS, WEEKS OR MONTHS. IF 12 MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	YEARS AGO 4]→ 727

		LAST SEXUAL PARTNER	SECOND-TO-LAST SEXUAL PARTNER	THIRD-TO-LAST SEXUAL PARTNER
715	When was the last time you had sexual intercourse with this person?		DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3	DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3
716	The last time you had sexual intercourse with this person, was a condom used?	YES	YES	YES
717	Was a condom used every time you had sexual intercourse with this person in the last 12 months?	YES	YES	YES 1 NO 2
718	What was your relationship to this person with whom you had sexual intercourse? IF BOYFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	HUSBAND	HUSBAND	HUSBAND
719	How long ago did you first have sexual intercourse with this person?	DAYS	DAYS	DAYS
720	How many times during the last 12 months did you have sexual intercourse with this person? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, RECORD '95'.	NUMBER OF TIMES	NUMBER OF TIMES	NUMBER OF TIMES
721	How old is this person?	AGE OF PARTNER DON'T KNOW 98	AGE OF PARTNER DON'T KNOW 98	AGE OF PARTNER DON'T KNOW 98
722	Apart from this person, have you had sexual intercourse with any other person in the last 12 months?	YES	YES	
723	In total, with how many different people have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.			NUMBER OF PARTNERS LAST 12 MONTHS DON'T KNOW 98

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
724	CHECK 106: AGE 15-24	AGE 25-49	→ 727
725		NTLY MARRIED/	→ 727
726	In the past 12 months have you had sex or been sexually involved with anyone because he gave you or told you he would give you gifts, cash, or anything else?	YES	
727	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.	NUMBER OF PARTNERS IN LIFETIME DON'T KNOW 98	
728	·	N): NO, CONDOM OT USED ASKED	→ 731 → 731
729	You told me that a condom was used the last time you had sex. What is the brand name of the condom used at that time?	MALE CONDOMS 01 GOLD CIRCLE 01 DUREX 02 ROUGH RIDER 03 TWIN LOTUS 04 PLAIN CONDOMS 05 GO FLEX 06	
	IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.	OTHER96 (SPECIFY) DON'T KNOW	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
730	From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR 11 GOVERNMENT HOSPITAL 11 GOVERNMENT HEALTH CENTER 12 FAMILY PLANNING CLINIC 13 MOBILE CLINIC 14 FIELDWORKER 15 OTHER PUBLIC SECTOR 16 (SPECIFY)	
	(NAME OF PLACE)	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/CLINIC 21 PHARMACY 22 CHEMIST/PMS 23 PRIVATE DOCTOR 24 MOBILE CLINIC 25 FIELDWORKER 26 OTHER PRIVATE MEDICAL SECTOR 27 (SPECIFY)	
		OTHER SOURCE SHOP 31 CHURCH 32 FRIEND/RELATIVE 33 NGO 34 OTHER 96 (SPECIFY) 98	
731	PRESENCE OF OTHERS DURING THIS SECTION.	YES NO CHILDREN < 10	

SECTION 8. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
801	CHECK 304: NEITHER STERILIZED	HE OR SHE STERILIZED	→ 813
802	CHECK 226: PREGNANT N	OT PREGNANT OR UNSURE	→ 804
803	Now I have some questions about the future. After the child you are expecting now, would you like to have another child, or would you prefer not to have any more children?	HAVE ANOTHER CHILD 1 NO MORE 2 UNDECIDED/DON'T KNOW 8	→ 805]→ 812
804	Now I have some questions about the future. Would you like to have (a/another) child, or would you prefer not to have any (more) children?	HAVE (A/ANOTHER) CHILD 1 NO MORE/NONE 2 SAYS SHE CAN'T GET PREGNANT 3 UNDECIDED/DON'T KNOW 8	→ 807 → 813 → 811
805	CHECK 226: NOT PREGNANT OR UNSURE a) How long would you like to wait from now before the birth of (a/another) child? PREGNANT OR UNSURE b) After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?	MONTHS 1 YEARS 2 SOON/NOW	→ 811 → 813 → 811
806	CHECK 226: NOT PREGNANT OR UNSURE	PREGNANT	→ 812
807	CHECK 303: USING A CONTRACEPTIVE METHOD? OURRENTLY USING	CURRENTLY USING	> 813
808	CHECK 805: '24' OR MORE MONTHS NOT OR '02' OR MORE YEARS ASKED	'00-23' MONTHS OR '00-01' YEAR	→ 812
809	CHECK 714: DAYS, WEEKS OR MONTHS AGO	EARS \ AGO \ ASKED \	→ 811 → 811

SECTION 8. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
810	CHECK 804:	NOT MARRIED A	
	WANTS TO HAVE A/ANOTHER CHILD WANTS NO MORE/ NONE a) You have said that you do not want (a/another) child soon. Can you tell me why you are not using a method to prevent pregnancy? WANTS NO MORE/ NONE Con you have said that you do not want any (more) children. Can you tell me why you are not using a method to prevent pregnancy?	FERTILITY-RELATED REASONS NOT HAVING SEX B INFREQUENT SEX C MENOPAUSAL/HYSTERECTOMY D CAN'T GET PREGNANT E NOT MENSTRUATED SINCE LAST BIRTH F BREASTFEEDING G UP TO GOD/FATALISTIC H	
	Any other reason? Any other reason?	OPPOSITION TO USE	
	i RECORD ALL REASONS MENTIONED.	RESPONDENT OPPOSED	
		LACK OF KNOWLEDGE KNOWS NO METHOD	
		METHOD-RELATED REASONS SIDE EFFECTS/HEALTH CONCERNS O LACK OF ACCESS/TOO FAR P COSTS TOO MUCH Q PREFERRED METHOD NOT AVAILABLE R NO METHOD AVAILABLE S INCONVENIENT TO USE T INTERFERES WITH BODY'S NORMAL PROCESSES U	
		OTHER X (SPECIFY) Z DON'T KNOW Z	
811	CHECK 303: USING A CONTRACEPTIVE METHOD? NOT NO, NOT ASKED CURRENTLY USING C	YES, URRENTLY USING	→ 813
812	Do you think you will use a contraceptive method to delay or avoid pregnancy at any time in the future?	YES	
813	CHECK 216: HAS LIVING CHILDREN a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many the number of children would that be?	NONE	→ 815
	to have in your whole life, how many would that be? PROBE FOR A NUMERIC RESPONSE.	OTHER96 (SPECIFY)	→ 815
814	How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl?	BOYS GIRLS EITHER NUMBER	

SECTION 8. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
815	In the last few months have you:	YES NO	
	a) Heard about family planning on the radio?	a) RADIO1 2	
	b) Seen anything about family planning on the	b) TELEVISION 1 2	
	television?c) Read about family planning in a newspaper or magazine?	c) NEWSPAPER OR MAGAZINE 1 2	
	d) Received a voice or text message about family planning on a mobile phone?	d) MOBILE PHONE	
	e) Read/heard from social media (facebook, twitter, etc.)?	e) SOCIAL MEDIA 1 2	
	f) Read about family planning in a poster?	f) POSTER 1 2	
	g) Read about family planning in a leaflet or brochures?	g) LEAFLET OR BROCHURE 1 2	
	h) Heard about family planning from town crier?	h) TOWN CRIER 1 2	
	Heard about family planning from mobile public announcement?	i) MOBILE PUBLIC ANNOUNCEMEN 1 2	
815A	CHECK 815:		
013A	AT LEAST ONE	NOT A SINGLE	> 017
	` \	(HAS NOT HEARD R READ MESSAGE)	→ 817
	· · · · · · · · · · · · · · · · · · ·	,	
816	Please tell me which family planning messages you have heard or seen in the past few months?	AS FOR ME AND MY PARTNER WE `DEY KAMPE' WITH FEMALE CONDOM	
		UNSPACED CHILDREN MAKES THE GOING TOUGH FOR THE LOVE OF YOUR FAMILY,	
		GO FOR CHILD SPACING TODAY B	
	PROBE: Any others?	WELL-SPACED CHILDREN ARE EVERY PARENT'S JOY	
		IT'S NOT TOO LATE TO PREVENT UNWANTED	
		PREGNANCY D WHY IS YOUR WIFE LOOKING SO GOO E	
		OTHER X	
		(SPECIFY)	
817	CHECK 701:		
	YES, YES, LIVING	NO, L	→ 901
	MARRIED [♥] WITH A MAN [♥]		
818	CHECK 303: USING A CONTRACEPTIVE METHOD?		
	CURRENTLY CUR	NOT RENTLY	
	USING ₩ NOT —	USING	→ 820
	ASKED		→ 822
819	Would you say that using contraception is mainly your	MAINLY RESPONDENT	٦
	decision, mainly your (husband's/partner's) decision, or did you both decide together?	MAINLY HUSBAND/PARTNER 2 JOINT DECISION 3	→ 821
		OTHER 6	Ц
		OTHER6 (SPECIFY)	
820	Would you say that not using contraception is mainly your decision, mainly your (husband's/partner's)	MAINLY RESPONDENT	
	decision, or did you both decide together?	JOINT DECISION	
		OTHER 6	
		(SPECIFY)	
821	CHECK 304:	UE OD QUE ADE	
	NEITHER ARE ││ STERILIZED ↓	HE OR SHE ARE L STERILIZED	→ 901
822	Does your (husband/partner) want the same number of	SAME NUMBER	
<i>522</i>	children that you want, or does he want more or fewer	MORE CHILDREN 2	
	than you want?	FEWER CHILDREN	

SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
901	CHECK 701: CURRENTLY MARRIED/	NOT IN 🗍	
	LIVING WITH A MAN	UNION	→ 909
902	How old was your (husband/partner) on his last birthday?	AGE IN COMPLETED YEARS	
903	Did your (husband/partner) ever attend school?	YES	→ 906
904	What was the highest level of school he attended: primary, secondary, or higher?	PRIMARY 1 SECONDARY 2 HIGHER 3 DON'T KNOW 8	→ 906
905	What was the highest Class/Year he completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	CLASS/YEAR DON'T KNOW 98	
906	Has your (husband/partner) done any work in the last 7 days?	YES	→ 908
907	Has your (husband/partner) done any work in the last 12 months?	YES 1 NO 2 DON'T KNOW 8]→ 909
908	What is your (husband's/partner's) occupation? That is, what kind of work does he mainly do?		
909	Aside from your own housework, have you done any work in the last seven days?	YES	→ 913
910	As you know, some women take up jobs for which they are paid in cash or kind. Others sell things, have a small business or work on the family farm or in the family business. In the last seven days, have you done any of these things or any other work?	YES	→ 913
911	Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, maternity leave, or any other such reason?	YES	→> 913
912	Have you done any work in the last 12 months?	YES	→> 917
913	What is your occupation? That is, what kind of work do you mainly do?		

SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
914	Do you do this work for a member of your family, for someone else, or are you self-employed?	FOR FAMILY MEMBER	
915	Do you usually work throughout the year, or do you work seasonally, or only once in a while?	THROUGHOUT THE YEAR 1 SEASONALLY/PART OF THE YEAR 2 ONCE IN A WHILE 3	
916	Are you paid in cash or kind for this work or are you not paid at all?	CASH ONLY 1 CASH AND KIND 2 IN KIND ONLY 3 NOT PAID 4	
917	CHECK 701: CURRENTLY MARRIED/LIVING WITH A MAN	NOT IN UNION	→ 925
918	CHECK 916: CODE '1' OR '2' CIRCLED	OTHER	> 921
919	Who usually decides how the money you earn will be used: you, your (husband/partner), or you and your (husband/partner) jointly?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND 3 HUSBAND/PARTNER JOINTLY 3 OTHER 6 (SPECIFY)	
920	Would you say that the money that you earn is more than what your (husband/partner) earns, less than what he earns, or about the same?	MORE THAN HIM 1 LESS THAN HIM 2 ABOUT THE SAME 3 HUSBAND/PARTNER HAS NO EARNINGS 4 DON'T KNOW 8	→ 922
921	Who usually decides how your (husband's/partner's) earnings will be used: you, your (husband/partner), or you and your (husband/partner) jointly?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND 3 HUSBAND/PARTNER JOINTLY 3 HUSBAND/PARTNER HAS 4 NO EARNINGS 4 OTHER 6 (SPECIFY)	
922	Who usually makes decisions about health care for yourself: you, your (husband/partner), you and your (husband/partner) jointly, or someone else?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	
923	Who usually makes decisions about making major household purchases?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	

SECTION 9. HUSBAND'S BACKGROUND AND WOMAN'S WORK

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
924	Who usually makes decisions about visits to your family or relatives?	RESPONDENT 1 HUSBAND/PARTNER 2 RESPONDENT AND HUSBAND/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	
925	Do you own this or any other house either alone or jointly with someone else?	ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4	→ 928
926	Do you have a title deed for any house you own?	YES]→ 928
927	Is your name on the title deed?	YES	
928	Do you own any agricultural or non-agricultural land either alone or jointly with someone else?	ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4	→ 931
929	Do you have a title deed for any land you own?	YES]→ 931
930	Is your name on the title deed?	YES 1 NO 2 DON'T KNOW 8	
931	PRESENCE OF OTHERS AT THIS POINT (PRESENT AND LISTENING, PRESENT BUT NOT LISTENING, OR NOT PRESENT)	PRES./ PRES./ NOT NOT LISTEN. LISTEN. PRES.	
932	In your opinion, is a husband justified in hitting or beating his wife in the following situations: a) If she goes out without telling him? b) If she neglects the children? c) If she argues with him? d) If she refuses to have sex with him? e) If she burns the food?	YES NO DK a) GOES OUT	

SECTION 10. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1001	Now I would like to talk about something else. Have you ever heard of HIV or AIDS?	YES	→ 1042
1002	HIV is the virus that can lead to AIDS. Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners?	YES	
1003	Can people get HIV from mosquito bites?	YES	
1004	Can people reduce their chance of getting HIV by using a condom every time they have sex?	YES	
1005	Can people get HIV by sharing food with a person who has HIV?	YES	
1006	Can people get HIV because of witchcraft or other supernatural means?	YES	
1007	Is it possible for a healthy-looking person to have HIV?	YES	
1008	Can HIV be transmitted from a mother to her baby:	YES NO DK	
	a) During pregnancy?b) During delivery?c) By breastfeeding?	a) DURING PREGNANCY 1 2 8 b) DURING DELIVERY 1 2 8 c) BREASTFEEDING 1 2 8	
1009	CHECK 1008: AT LEAST ONE 'YES'	OTHER	→ 1011
1010	Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby?	YES 1 NO 2 DON'T KNOW 8	
1011	CHECK 208 AND 215:		
	I ACT DIDTH IN	NO BIRTHS	→ 1035
	2016-2018 V	LAST BIRTH IN 2015 OR EARLIER	→ 1035
1012	CHECK 408 FOR LAST BIRTH:		
	HAD ANTENATAL CARE √	NO ANTENATAL CARE	→ 1035
1014	During any of the antenatal visits for your last birth were you given any information about:	YES NO DK	
	a) Babies getting HIV from their mother?b) Things that you can do to prevent getting HIV?c) Getting tested for HIV?	a) HIV FROM MOTHER 1 2 8 b) THINGS TO DO 1 2 8 c) TESTED FOR HIV 1 2 8	
1035	Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	

SECTION 10. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1036	Do you think children living with HIV should be allowed to attend school with children who do not have HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1037	Do you think people hesitate to take an HIV test because they are afraid of how other people will react if the test result is positive for HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1038	Do people talk badly about people living with HIV, or who are thought to be living with HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1039	Do people living with HIV, or thought to be living with HIV, lose the respect of other people?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1040	Do you agree or disagree with the following statement: I would be ashamed if someone in my family had HIV.	AGREE 1 DISAGREE 2 DON'T KNOW/NOT SURE/DEPENDS 8	
1041	Do you fear that you could get HIV if you come into contact with the saliva of a person living with HIV?	YES 1 NO 2 SAYS SHE HAS HIV 3 DON'T KNOW/NOT SURE/DEPENDS 8	
1042	CHECK 1001: HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard about other infections that can be transmitted through sexual contact? NOT HEARD ABOUT HIV OR AIDS b) Have you heard about infections that can be transmitted through sexual contact?	YES	
1043	CHECK 713: HAS HAD SEXUAL INTERCOURSE	NEVER HAD SEXUAL INTERCOURSE	> 1051
1044	CHECK 1042: HEARD ABOUT OTHER SEXUALLY TRANS	SMITTED INFECTIONS?	→ 1046
1045	Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact?	YES	
1046	Sometimes women experience a bad-smelling abnormal genital discharge. During the last 12 months, have you had a bad-smelling abnormal genital discharge?	YES	
1047	Sometimes women have a genital sore or ulcer. During the last 12 months, have you had a genital sore or ulcer?	YES	
1048	CHECK 1045, 1046, AND 1047: HAS HAD AN INFECTION (ANY 'YES')	HAS NOT HAD AN INFECTION OR DOES NOT KNOW	→ 1051
1049	The last time you had (PROBLEM FROM 1045/1046/1047), did you seek any kind of advice or treatment?	YES	→ 1051

SECTION 10. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1050	Where did you go? Any other place? PROBE TO IDENTIFY THE TYPE OF SOURCE.	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT HEALTH CENTER B STAND-ALONE HTS CENTER C FAMILY PLANNING CLINIC D MOBILE HTS SERVICES E OTHER PUBLIC SECTOR	
	IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE)	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/CLINIC/ PRIVATE DOCTOR G STAND-ALONE HTS CENTER H PHARMACY I	
		CHEMIST/PMS STORE J MOBILE HTS SERVICES K OTHER PRIVATE MEDICAL SECTOR L (SPECIFY) OTHER SOURCE SHOP M OTHER X	
1051	If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex?	YES	
1052	Is a wife justified in refusing to have sex with her husband when she knows he has sex with other women?	YES 1 NO 2 DON'T KNOW 8	
1053	CHECK 701: CURRENTLY MARRIED/ LIVING WITH A MAN	NOT IN UNION	→ 1101
1054	Can you say no to your (husband/partner) if you do not want to have sexual intercourse?	YES	
1055	Could you ask your (husband/partner) to use a condom if you wanted him to?	YES 1 NO 2 DEPENDS/NOT SURE 8	

SECTION 11. OTHER HEALTH ISSUES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1101	Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months? IF YES: How many injections have you had? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.	NUMBER OF INJECTIONS	> 1104
1102	Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.	NUMBER OF INJECTIONS	→ 1104
1103	The last time you got an injection from a health worker, did he/she take the syringe and needle from a new, unopened package?	YES	
1104	Do you currently smoke cigarettes every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3]→ 1106
1105	On average, how many cigarettes do you currently smoke each day?	NUMBER OF CIGARETTES	
1106	Do you currently smoke or use any other type of tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	> 1108
1107	What other type of tobacco do you currently smoke or use? RECORD ALL MENTIONED.	KRETEKS A PIPES FULL OF TOBACCO B CIGARS, CHEROOTS, OR CIGARILLOS C WATER PIPE D SNUFF BY MOUTH E SNUFF BY NOSE F CHEWING TOBACCO G BETEL QUID WITH TOBACCO H OTHER X (SPECIFY)	
1108	Many different factors can prevent women from getting medical advice or treatment for themselves. When you are sick and want to get medical advice or treatment, is each of the following a big problem or not a big problem: a) Getting permission to go to the doctor? b) Getting money needed for advice or treatment? c) The distance to the health facility? d) Not wanting to go alone?	BIG NOT A BIG PROBLEM PROBLEM a) PERMISSION TO GO 1 2 b) GETTING MONEY 1 2 c) DISTANCE 1 2 d) GO ALONE 1 2	

SECTION 11. OTHER HEALTH ISSUES

NO.	QUESTIONS AND FILTERS		CODING CATEGORIES					
1108A	I am going to ask you about your opinion on behavior/practice on reducing the risk of malaria. Please tell me whether you agree or disagree with the following statements:		AGREE	DISAGREE	DON'T KNOW			
	b) The medicine given to pregnant women to prevent malaria works well to keep the mother healthy	b)	1	2	8			
	 The medicine given to pregnant women to prevent malaria works well to keep the baby healthy when it is born 	c)	1	2	8			
	The malaria tests are the only way to know if someone really has malaria or not	d)	1	2	8			
	f) Even if the malaria test shows that the fever is not caused by malaria, I will still seek out treatment for malaria because I don't trust the test result	f)	1	2	8			
	 i) When the entire course of malaria medicine is taken, the disease will be fully cured 	i)	1	2	8			
1108B	I am going to ask you about your opinion on consequences of malaria. Please tell me whether you agree or disagree with the following statements:		AGREE	DISAGREE	DON'T KNOW			
	a) Every case of malaria can potentially lead to death c) You don't worry about malaria because it can be easily treated	a) c)	1 1	2 2	8 8			
	 d) You know people who have become dangerously sick with malaria. 	d)	1	2	8			
	f) Only weak children can die from malaria	f)	1	2	8			
1109	Are you covered by any health insurance?	YES NO	YES					
1110	What type of health insurance are you covered by? RECORD ALL MENTIONED.	MUTU CO IN HEAL EM SOCIA OTHE						

SECTION 12. FEMALE GENITAL CUTTING/MUTILATION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1200	CHECK COVER PAGE: HOUSEHOLD SELECTED FOR M	IAN'S SURVEY?	
	HOUSEHOLD NOT SELECTED	HOUSEHOLD	→ 1401
	FOR MAN'S SURVEY 🖵	SELECTED	1401
1201	Now I would like to ask some questions about a practice known as female circumcision, that is, a practice in which a girl may have part of her genitals cut, for example, excision of the clitoris and the labia minora, scraping of tissue surrounding the vaginal orifice (angurya cuts) or cutting of the vagina (gishiri cuts) and even use of corrosive sunstances or herbs into vagina to tighten or narrow it or to cause bleeding. Have you ever heard about any of these practices?	YES	→ 1301
1202	Have you yourself ever had any of these procedures	YES 1	
	performed on you?	NO 2 DON'T KNOW 8	→ 1208
1203	Now I would like to ask you what was done to you at that	YES 1	→ 1205
	time. Was any flesh removed from the genital area?	NO 2 DON'T KNOW 8	
1204	Was the genital area just nicked without removing any	YES 1	
	flesh?	NO 2 DON'T KNOW 8	
		DON'T KNOW 8	
1205	Was your genital area sewn closed?	YES 1 NO 2	
		DON'T KNOW 8	
1205A	Which type of procedure was performed on you?	YES NO DK	
	a). Removal of eliteric clong with partial or total evoicion	a) REMOVAL OF CLITORIS 1 2 8	
	 a) Removal of clitoris along with partial or total excision of the labia minora? 	a) REMOVAL OF CLITORIS 1 2 8	
	 b) Infibulation: removal of clitoris, labia minora and adjacent medial part of labia majora and stitching it? 	b) INFIBULATION 1 2 8	
	c) Scraping of tissue surrounding the vaginal orifice	c) ANGURYA 1 2 8	
	(eg. Angurya cuts etc.)? d) Cutting of the vagina (eg. Gishiri cuts etc)?	d) GISHIRI 1 2 8	
	,	,	
1205B	Have you ever used corrosive substances or herbs into vagina with the aim of tightening or narrowing it or to	YES 1 NO 2	
	cause bleeding?	NO	
1206	How old were you when this procedure (GC6A/GC6B) was performed for the first time?	AGE IN COMPLETED YEARS	
	IF THE RESPONDENT DOES NOT KNOW THE	AS A BABY/DURING INFANCY	
	EXACT AGE, PROBE TO GET AN ESTIMATE.		
		DON'T KNOW 98	
1207	Who performed this procedure?	TRADITIONAL	
		TRADITIONAL CURCUMCISER	
		OTHER TRADITIONAL16	
		(SPECIFY)	
		HEALTH PROFESSIONAL DOCTOR	
		NURSE/MIDWIFE22	
		OTHER HEALTH PROFESSIONAL 26	
		(SPECIFY)	
		DON'T KNOW 98	
1208	CHECK 213, 215 AND 216:		
	HAS ONE OR MORE	HAS NO LIVING	
	LIVING DAUGHTERS 🔲 DAU	GHTERS BORN L	→ 1216
	BORN IN 2003 OR [♥] IN 2 LATER	2003 OR LATER	

SECTION 12. FEMALE GENITAL CUTTING/MUTILATION

CHECK 213, 215 AND 216: ENTER IN THE TABLE THE BIRTH HISTORY NUMBER AND NAME OF EACH LIVING DAUGHTER BORN IN 2003 OR LATER. ASK THE QUESTIONS ABOUT ALL OF THESE DAUGHTERS. BEGIN WITH THE YOUNGEST DAUGHTER. (IF THERE ARE MORE THAN 3 DAUGHTERS, USE ADDITIONAL QUESTIONNAIRES).

1209	Now I would like to ask you some questions about your (daughter/daughters).					
		YOUNGEST LIVING DAUGHTER	NEXT-TO-YOUNGEST LIVING DAUGHTER	SECOND-TO-YOUNGEST LIVING DAUGHTER		
1210	BIRTH HISTORY NUMBER AND NAME OF EACH LIVING DAUGHTER BORN IN 2003 OR LATER.	BIRTH HISTORY NUMBER NAME	BIRTH HISTORY NUMBER NAME	BIRTH HISTORY NUMBER NAME		
1211	Is (NAME OF DAUGHTER) circumcised?	YES	YES	YES		
1212	How old was (NAME OF DAUGHTER) when she was circumcised? IF THE RESPONDENT DOES NOT KNOW THE AGE, PROBE TO GET AN ESTIMATE.	AGE IN COMPLE- TED YRS DON'T KNOW 98	AGE IN COMPLE- TED YRS	AGE IN COMPLE- TED YRS DON'T KNOW 98		
1213	Was her genital area sewn closed?	YES	YES	YES		
1214	Who performed the circumcision?	TRADITIONAL TRADITIONAL CIRCUMCISER 11 TRAD. BIRTH ATTENDANT 12 OTHER TRAD. (SPECIFY) HEALTH PROFESSIONAL DOCTOR 21 NURSE/MIDWIFE 22 OTHER HEALTH PROFESSIONAL (SPECIFY) DON'T KNOW 98	TRADITIONAL TRADITIONAL CIRCUMCISER 11 TRAD. BIRTH ATTENDANT 12 OTHER TRAD. (SPECIFY) HEALTH PROFESSIONAL DOCTOR 21 NURSE/MIDWIFE 22 OTHER HEALTH PROFESSIONAL (SPECIFY) DON'T KNOW 98	TRADITIONAL TRADITIONAL CIRCUMCISER 11 TRAD. BIRTH ATTENDANT 12 OTHER TRAD. (SPECIFY) HEALTH PROFESSIONAL DOCTOR 21 NURSE/MIDWIFE 22 OTHER HEALTH PROFESSIONAL (SPECIFY) DON'T KNOW 98		
1215		GO BACK TO 1211 IN NEXT COLUMN; OR, IF NO MORE DAUGHTERS, GO TO 1216.	GO BACK TO 1211 IN NEXT COLUMN; OR, IF NO MORE DAUGHTERS, GO TO 1216.	GO BACK TO 1211 IN NEXT COLUMN; OR, IF NO MORE DAUGHTERS, GO TO 1216.		
1216	Do you believe that female circumcision is required by your religion?		YES NO NO RELIGION DON'T KNOW	2 3		
1217	Do you think that female circumcis should it be stopped?	sion should be continued, or	CONTINUED STOPPED DEPENDS DON'T KNOW	2 3		

SECTION 13. FISTULA

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1301	Sometimes a woman can have a problem of constant leakage of urine or stool from her vagina during the day and night. This problem usually occurs after a difficult childbirth, but may also occur after a sexual assault or after pelvic surgery.	YES	→1303
	Have you ever experienced a constant leakage of urine or stool from your vagina during the day and night?		
1302	Have you ever heard of this problem?	YES	→ 1401
1303	Did this problem start after you delivered a baby or had a stillbirth?	AFTER DELIVERED BABY 1 AFTER HAD STILLBIRTH 2 NEITHER 3	→ 1305
1304	Did this problem start after a normal labor and delivery, or after a very difficult labor and delivery?	NORMAL LABOR/DELIVERY	→ 1306
1305	What do you think caused this problem?	SEXUAL ASSAULT 1 PELVIC SURGERY 2 OTHER 6 (SPECIFY) DON'T KNOW 8	→ 1307
1306	How many days after (CAUSE OF PROBLEM FROM 1303 OR 1305) did the leakage start? ENTER '90' IF 90 DAYS OR MORE.	NUMBER OF DAYS AFTER DELIVERY/OTHER EVENT	
1306A	How old were you when you experienced this problem?	AGE IN YEARS	
1307	Have you sought treatment for this condition?	YES	→ 1309
1308	Why have you not sought treatment?	DO NOT KNOW CAN BE FIXED A DO NOT KNOW WHERE TO GO B TOO EXPENSIVE C TOO FAR D POOR QUALITY OF CARE E COULD NOT GET PERMISSION F EMBARRASSMENT G PROBLEM DISAPPEARED H OTHER X (SPECIFY)	1401
1309	From whom did you last seek treatment?	HEALTH PROFESSIONAL	
1310	Did you have an operation to fix the problem?	YES	
1311	Did the treatment stop the leakage completely? IF NO: Did the treatment reduce the leakage?	YES, STOPPED COMPLETELY 1 NOT STOPPED BUT REDUCED 2 NOT STOPPED AT ALL 3 DID NOT RECEIVE TREATMENT 4	
1312	Are there any (other) women in your household who suffer from obstetric fistula?	YES	→ 1401
1313	How many (other) women in your household suffer from obstetric fistula?	NUMBER DON'T KNOW 98	

SECTION 14. ADULT AND MATERNAL MORTALITY MODULE

1401	Now I would like to ask you some questions about your brothers and sisters born to your natural mother, including those who are living with you, those living elsewhere and those who have died. From our experience in prior surveys, we know it may sometimes be difficult to establish a complete list of all the children born to your natural mother. We will work together to draw the most complete list and work to recall all your siblings. Could you please now give me the names of all of your brothers and sisters born to your natural mother. DO NOT FILL IN THE ORDER NUMBER YET.	
1	NAME ORDER NUMBER NAME ORDER NUMBER	
	a k	
	b	
	c m	
	dn	
	e	
	f	
	g q	
	i s	
	j t	
1402	CHECK 1401: ONE OR MORE BROTHERS OR SISTERS LISTED NO BROTHERS OR SISTERS LISTED	1404
1403	READ THE NAMES OF THE BROTHERS AND SISTERS TO THE RESPONDENT AND AFTER THE LAST ONE ASK: Are there any other brothers and sisters from the same mother that you have not mentioned?	
	NO YES LIST ADDITIONAL BROTHERS AND SISTERS IN 1401.	
1404	Sometimes people forget to mention children born to their natural mother because they do not live with them or they do not see them very often. Are there any brothers or sisters who do not live with you that you have not mentioned?	
	NO YES LIST ADDITIONAL BROTHERS AND SISTERS IN 1401.	
1405	Sometimes people forget to mention children born to their natural mother because they have died. Are there any brothers or sisters who died that you have not mentioned?	
	NO PYES SISTERS IN 1401.	
1406	Some people have brothers or sisters from the same mother but a different father. Are there any brothers or sisters born to your natural mother, but who have a different natural father, that you have not mentioned?	
	NO YES LIST ADDITIONAL BROTHERS AND SISTERS IN 1401.	
1407	COUNT THE NUMBER OF BROTHERS AND SISTERS RECORDED IN 1401. TOTAL BROTHERS AND SISTERS	

1408	CHECK 1407: Just to make make sure that I have this right: Your mother her lifetime. Is that correct? YES NO PR	had in TOTAL births, excluding you, during OBE AND CORRECT 1401 AND/OR 1407	
1409	CHECK 1407: ONE OR MORE BROTHERS/SISTERS BROTHER OR S	NO	→ 1501
1410	Please tell me, which brother or sister was born first? And RECORD '01' FOR THE ORDER NUMBER IN 1401 FOR SECOND, AND SO ON UNTIL YOU HAVE RECORDED SISTERS.	THE FIRST BROTHER OR SISTER, '02' FOR THE	
1411	How many births did your mother have before you were born?	NUMBER OF PRECEDING BIRTHS	

SECTION 14. ADULT AND MATERNAL MORTALITY MODULE

LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN 1401. ASK 1413 TO 1424 FOR ONE 1412 BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE. (05)1413 NAME OF (01)(02)(03)(04)(06)BROTHER OR SISTER 1414 Is (NAME) male MALE ... 1 MALE ... MALE ... 1 MALE ... or female? FEMALE . 2 FFMALE 2 FEMALE . 2 FEMALE . 2 FEMALE . 2 FEMALE . 2 Is (NAME) still YES 1 YES 1 YES 1 YES 1 1415 YES 1 YES 1 NO 2 ☐ GO TO 1417 ← NO 2 GO TO 1417 ← NO 2₇ GO TO 1417 ← NO 2 GO TO 1417 ← NO 2₇ GO TO 1417 ← NO 2₇ GO TO 1417 ← alive? DK 8 7 DK 87 GO TO (04) ← GO TO (05) ← GO TO (06) ← GO TO (03) < ✓ GO TO (07) ← GO TO (02) ← How old is 1416 (NAME)? GO TO (06) GO TO (07) GO TO (02) GO TO (03) GO TO (04) GO TO (05) 1417 How many years ago did (NAME) die? 1418 How old was (NAME) when (he/she) died? IF DON'T KNOW, IF MALE OR IF MALE OR IF MALE OR IF MALE OR IF MAI F OR IF MAI F OR PROBE AND DIED DIED DIED DIED DIED DIED **ASK** BEFORE 12 BEFORE 12 BEFORE 12 BEFORE 12 BEFORE 12 BEFORE 12 **ADDITIONAL** YEARS OF YEARS OF YEARS OF YEARS OF YEARS OF YEARS OF **QUESTIONS** AGE, GO TO AGE, GO TO AGE, GO TO AGE, GO TO AGE, GO TO AGE, GO TO TO GET AN 1423 1423 1423 1423 1423 1423 **ESTIMATE** Was (NAME) YES..... 1 -YES 17 1419 YES 17 YES 17 YES 17 YES 17 pregnant when GO TO 1422A ← GO TO 1422A 🔫 GO TO 1422A < GO TO 1422A < GO TO 1422A ← GO TO 1422A < she died? NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 YES 1 YES 17 YES 17 GO TO 1422A YES..... 17 YES 17 Did (NAME) die YES 17 1420 GO TO 1422A GO TO 1422A ← GO TO 1422A 🔫 GO TO 1422A 륮 durina GO TO 1422A ← childbirth? NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 1421 Did (NAME) die within two YES 1 YES..... 1 YES..... 1 YES 1 YES 1 YES 1 NO 2 GO TO 1423 ← NO 2 GO TO 1423 NO 27 GO TO 1423 NO 2 GO TO 1423 NO 2 GO TO 1423 ◀ NO 27 GO TO 1423 months after the end of a pregnancy or childbirth? 1422 How many days after the end of the pregnancy did (NAME) In which State 1422A did (NAME) WRITE THE STATE CODE. CHECK 1420: YES NO/ YES NO/ YES NO/ YES NO/ YES NO/ YES NO/ 1422B NUI IVU I INU I NUI I UVI NOT **ASKE ASKE ASKE ASKE ASKE ASKED** GO TO GO TO GO TO GO TO GO TO GO TO (02)(03)(04)(05)(06)(07)Was (NAMF)'s YES 1 YES 17 1423 YES 1 * YES 1-YES 1-YES 1 GO TO (02) death due to an GO TO (03) ← GO TO (04) ← GO TO (05) < ✓ GO TO (06) ← GO TO (07) < act of violence? NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 Was (NAME)'s YES 1 YES..... 1 YES 1 YES..... 1 1424 YES 1 YES 1 death due to an NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 accident? GO TO (04) GO TO (05) GO TO (06) GO TO (02) GO TO (03) GO TO (07) IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION.

SECTION 14. ADULT AND MATERNAL MORTALITY MODULE

LIST THE BROTHERS AND SISTERS ACCORDING TO THE ORDER NUMBER IN 1401. ASK 1413 TO 1424 FOR ONE 1412 BROTHER OR SISTER BEFORE ASKING ABOUT THE NEXT BROTHER OR SISTER. IF THERE ARE MORE THAN 12 BROTHERS AND SISTERS, USE AN ADDITIONAL QUESTIONNAIRE. NAME OF 1413 (07)(08)(09)(10)(11)(12)**BROTHER OR** SISTER Is (NAME) male MALE ... 1 MALE ... 1 MALE ... 1 MALE ... 1 1414 MALE ... 1 MALE ... or female? FEMALE . 2 FEMALE . 2 FEMALE . 2 FEMALE . 2 FEMALE . 2 FEMALE . 2 1415 Is (NAME) still YES.... 1 YES..... 1 YES.... 1 YES..... 1 YES.... 1 YES.... 1 alive? NO 2-NO 2-NO NO NO NO GO TO 1417 ← GO TO 1417 ← GO TO 1417 ← GO TO 1417 ← GO TO 1417 ← GO TO 1417 ← DK 87 DK 87 DK 87 DK 87 DK 8-DK 8-GO TO (08) GO TO (09) GO TO (10) GO TO (11) GO TO (12) GO TO (13) ← 1416 How old is (NAME)? GO TO (11) GO TO (08) GO TO (09) GO TO (10) GO TO (12) GO TO (13) 1417 How many years ago did (NAME) die? 1418 How old was (NAME) when (he/she) died? IF DON'T KNOW, IF MALE OR IF MALE OR IF MALE OR IF MALE OR IF MALE OR IF MALE OR PROBE AND DIED DIED DIED DIED DIED DIED ASK **BEFORE 12** BEFORE 12 **BEFORE 12 BEFORE 12 BEFORE 12** BEFORE 12 **ADDITIONAL** YEARS OF YEARS OF YEARS OF YEARS OF YEARS OF YEARS OF QUESTIONS AGE GO TO AGE GO TO AGE GO TO AGE GO TO AGE, GO TO AGE GO TO TO GET AN 1423 1423 1423 1423 1423 1423 **ESTIMATE** YES 1₇ GO TO 1422A ← YES 1₇ GO TO 1422A ✓ YES 1₇ GO TO 1422A < YES 17 GO TO 1422A 1419 Was (NAME) YES 17 YES..... 17 GO TO 1422A ← GO TO 1422A ← pregnant when she died? $NO\ \dots \ 2$ $NO\ \dots \ 2$ NO 2 NO 2 NO 2 NO 2 YES 1₇ GO TO 1422A ≪ YES 17 GO TO 1422A YES 17 GO TO 1422A YES 1₇ GO TO 1422A ← YES 17 GO TO 1422A YES 17 GO TO 1422A Did (NAME) die 1420 during childbirth? NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 Did (NAME) die 1421 within two YES.... 1 YES.... 1 YES.... 1 YES.... 1 YES..... 1 YES.... 1 months after NO 27 NO 2₁ NO 2-NO 2-NO 2-NO 2-GO TO 1423 ← GO TO 1423 ← GO TO 1423 ← GO TO 1423 ← GO TO 1423 ← the end of a GO TO 1423 ← pregnancy or childbirth? 1422 How many days after the end of the pregnancy did (NAME) 1422A In which State did (NAME) WRITE THE STATE CODE. 1422B CHECK 1420: YES YES NO/ YES NO/ YES NO/ NO/ NO/ **ASKE ASKE ASKE ASKE ASKE ASKE** GO TO GO TO GO TO GO TO GO TO CO TO (10) (80)(09)(11)(12)(13)YES 1 GO TO (10) ← 1423 Was (NAME)'s GO TO (13) ~ YES 17 YES 17 YES 17 YES 17 GO TO (08) GO TO (11) GO TO (12) GO TO (09) ← death due to an act of violence? NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 1424 Was (NAME)'s YES 1 YES 1 YES.... 1 YES 1 YES 1 YES 1 death due to an NO 2 NO 2 NO 2 NO 2 NO 2 NO 2 accident? GO TO (08) GO TO (09) GO TO (10) GO TO (11) GO TO (12) GO TO (13) IF NO MORE BROTHERS OR SISTERS, GO TO NEXT SECTION.

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES				SKIP
1500	CHECK COVER PAGE: WOMAN SELECTED FOR DV MODULE?					
	WOMAN SELECTED ☐ FOR THIS SECTION ↓	1	WOMAN NOT SELECTED			→ 1533
1501	CHECK FOR PRESENCE OF OTHERS: DO NOT CONTINUE UNTIL PRIVACY IS ENSURED. PRIVACY OBTAINED					
1501A	READ TO THE RESPONDENT: Now I would like to ask you questions about some other important aspects of a woman's life. You may find some of these questions very personal. However, your answers are crucial for helping to understand the condition of women in Nigeria. Let me assure you that your answers are completely confidential and will not be told to anyone and no one else in your household will know that you were asked these questions. If I ask you any question you don't want to answer, just let me know and I will go on to the next question.					
1502	CHECK 701 AND 702:					
	CURRENTLY MARRIED/ NEVER MARRIED/ MARRIED/ LIVED WITH A MAN (READ IN PAST TENSE WITH A MAN AND USE 'LAST' WITH 'HUSBAND/PARTNER')					→ 1516
1503	First, I am going to ask you about some situations which happen to some women. Please tell me if these apply to your relationship with your (last) (husband/partner)? YES NO DK					
	 a) He (is/was) jealous or angry if you (talk/talked) b) He frequently (accuses/accused) you of being c) He (does/did) not permit you to meet your fem d) He (tries/tried) to limit your contact with your fa e) He (insists/insisted) on knowing where you (ar times? 	unfaithful? ale friends? amily?	JEALOUS ACCUSES NOT MEET FRIEN NO FAMILY WHERE YOU ARE	1 IDS 1 1	2 8 2 8 2 8 2 8 2 8	
1504	Now I need to ask some more questions about your relationship with your (last) (husband/partner).					
	A. Did your (last) (husband/partner) ever:	B. How often did t months: often,				
		EVER	OFTEN	SOME- TIMES	NOT IN LAST 12 MONTHS	
	a) say or do something to humiliate you in front of others?	YES 1 NO 2 ↓	1	2	3	
	b) threaten to hurt or harm you or someone you care about?	YES 1 NO 2 ↓	1	2	3	
	c) insult you or make you feel bad about yourself?	YES 1 NO 2	→ 1	2	3	

NO.	QUESTIONS AND FILTERS			CODING C	ATEGORIES		SKIP
1505	A. Did your (last) (husband/partner) ever do any of the following things to you:			B. How often did this happen during the last 12 months: often, only sometimes, or not at all?			
		EVER		OFTEN	SOME- TIMES	NOT IN LAST 12 MONTHS	
	a) push you, shake you, or throw something at you?	YES 1 NO 2 ↓		1	2	3	
	b) slap you?	YES 1 NO 2		1	2	3	
	c) twist your arm or pull your hair?	YES 1 NO 2		1	2	3	
	d) punch you with his fist or with something that could hurt you?	YES 1 NO 2		1	2	3	
	e) kick you, drag you, or beat you up?	YES 1 NO 2		1	2	3	
	f) try to choke you or burn you on purpose?	YES 1 NO 2		1	2	3	
	g) threaten or attack you with a knife, gun, or other weapon?	YES 1 NO 2		1	2	3	
	h) physically force you to have sexual intercourse with him when you did not want to?	YES 1 NO 2		1	2	3	
	i) physically force you to perform any other sexual acts you did not want to?	YES 1 NO 2		1	2	3	
	j) force you with threats or in any other way to perform sexual acts you did not want to?	YES 1 NO 2		1	2	3	
1506	СНЕСК 1505А (а-j):						
	AT LEAST ONE ☐ 'YES' ↓		NOT A	SINGLE YES'			→ 1509
1507	How long after you first (got married/started living your (last) (husband/partner) did (this/any of these happen?		NUM	BER OF YEA	RS		
	IF LESS THAN ONE YEAR, RECORD '00'.		BEFORE MARRIAGE/BEFORE LIVING TOGETHER 95				
1508	Did the following ever happen as a result of what (husband/partner) did to you:	your (last)					
	a) You had cuts, bruises, or aches?		YES NO				
	b) You had eye injuries, sprains, dislocations, or	burns?	YES NO				
	c) You had deep wounds, broken bones, broken other serious injury?	teeth, or any	YES NO				
1509	Have you ever hit, slapped, kicked, or done anyth physically hurt your (last) (husband/partner) at tim was not already beating or physically hurting you?	es when he	YES NO			_	→ 1511

NO.	QUESTIONS AND FILTERS		CODING CATEGORIES				SKIP	
1510	In the last 12 months, how often have you done th (husband/partner): often, only sometimes, or not a		(last)	OFTEN 1 SOMETIMES 2 NOT AT ALL 3				
1511	Does (did) your (last) (husband/partner) drink alco	hol?		YES NO				→ 1513
1512	How often does (did) he get drunk: often, only son never?	netimes, o	or	OFTE SOME NEVE	ETIMES		2	
1513	Are (Were) you afraid of your (last) (husband/partithe time, sometimes, or never?	ner): mos	t of	SOME	OF THE TIMES AFRA		_	
1514	CHECK 709:							
	MARRIED MORE MARRIED ONLY ONCE							→ 1516
1515	A. So far we have been talking about the behavior of your (current/last) (husband/partner). Now I want to ask you about the behavior of any previous (husband/partner).			B. Ho	ow long ago d	id this last happ	en?	
		EVEF	₹		0 - 11 MONTHS AGO	12+ MONTHS AGO	DON'T REMEMBER	
	a) Did any previous (husband/partner) ever hit, slap, kick, or do anything else to hurt you physically?	YES NO	1 2 ↓	→	1	2	3	
	b) Did any previous (husband/partner) physically force you to have intercourse or perform any other sexual acts against your will?	YES NO	1 2 \ \	→	1	2	3	
	c) Did any previous (husband/partner) humiliate you in front of others, threaten to hurt you or someone you care about, or insult you or make you feel bad about yourself?	YES NO	1 · · 2 · · · · · · · · · · · · · · · ·	→	1	2	3	
1516	CHECK 701 AND 702: EVER MARRIED/EVER LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN LIVED WITH A MAN years old has anyone hit you, slapped you, kicked you, or done anything else to hurt you physically?					2	→ 1519	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1517	Who has hurt you in this way? Anyone else? RECORD ALL MENTIONED.	MOTHER/STEP-MOTHER A FATHER/STEP-FATHER B SISTER/BROTHER C DAUGHTER/SON D OTHER RELATIVE E CURRENT BOYFRIEND F FORMER BOYFRIEND G MOTHER-IN-LAW H FATHER-IN-LAW I OTHER IN-LAW J TEACHER K EMPLOYER/SOMEONE AT WORK L POLICE/SOLDIER M OTHER X (SPECIFY)	
1518	In the last 12 months, how often has (this person/have thes persons) physically hurt you: often, only sometimes, or not a		
1519	CHECK 201, 226, AND 230: EVER BEEN PREGNANT ('YES' ON 201 OR 226 OR 230)	NEVER BEEN PREGNANT	1522
1520	Has any one ever hit, slapped, kicked, or done anything els hurt you physically while you were pregnant?	e to YES	→ 1522
1521	Who has done any of these things to physically hurt you who you were pregnant? Anyone else? RECORD ALL MENTIONED.	IIIE CURRENT HUSBAND/PARTNER A MOTHER/STEP-MOTHER B FATHER/STEP-FATHER C SISTER/BROTHER D DAUGHTER/SON E OTHER RELATIVE F FORMER HUSBAND/PARTNER G CURRENT BOYFRIEND H FORMER BOYFRIEND I MOTHER-IN-LAW J FATHER-IN-LAW K OTHER IN-LAW L TEACHER M EMPLOYER/SOMEONE AT WORK N POLICE/SOLDIER O	
1522	CHECK 701 AND 702: EVER MARRIED/EVER NE	EVER MARRIED/NEVER LIVED WITH A MAN	→ 1522B

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
1522A	Now I want to ask you about things that may have been done you by someone other than (your/any) (husband/partner). At time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform other sexual acts when you did not want to?	any YES	→ 1523 → 1524A
1522B	At any time in your life, as a child or as an adult, has anyone ever forced you in any way to have sexual intercourse or perform any other sexual acts when you did not want to?	YES	1526
1523	Who was the person who was forcing you the very first time happened?	this CURRENT HUSBAND/PARTNER 01 FORMER HUSBAND/PARTNER 02 CURRENT/FORMER BOYFRIEND 03 FATHER/STEP-FATHER 04 BROTHER/STEP-BROTHER 05 OTHER RELATIVE 06 IN-LAW 07 OWN FRIEND/ACQUAINTANCE 08 FAMILY FRIEND 09 TEACHER 10 EMPLOYER/SOMEONE AT WORK 11 POLICE/SOLDIER 12 PRIEST/RELIGIOUS LEADER 13 STRANGER 14 OTHER 96	
1524	CHECK 701 AND 702: EVER MARRIED/EVER LIVED WITH A MAN a) In the last 12 months, has anyone other than (your/any) (husband/partner) physically forced you to have sexual intercourse when you did not want to? NEVER MARRIED/NEVER LIVED WITH A MAN b) In the last 12 months anyone physically for you to have sexual intercourse when you not want to?	has ced YES 1]→ 1525
1524A	CHECK 1505A (h-j) and 1515A(b) AT LEAST ONE ☐ 'YES' 'YES'	NOT A SINGLE 'YES'	> 1526
1525	CHECK 701 AND 702: EVER MARRIED/EVER LIVED WITH A MAN a) How old were you the first time you were forced to have sexual intercourse or perform any other sexual acts by anyone, including (your/any) husband/partner? NEVER MARRIED/NEVER LIVED WITH A MAN LIVED WITH A MAN first first time you we forced to have sexual intercourse or perform any other sexual acts any other sexual acts of the provided HTML of	re AGE IN COMPLETED YEARS	
1526	CHECK 1505A (a-j), 1515A (a,b), 1516, 1520, 1522A, AND AT LEAST ONE YES'	1522B: NOT A SINGLE YES'	→ 1530
1527	Thinking about what you yourself have experienced among t different things we have been talking about, have you ever tr to seek help?		→ 1529

NO.	QUESTIONS AND FILTERS		CODING CATEGORIES	SKIP
1528	From whom have you sought help? Anyone else? RECORD ALL MENTIONED.		OWN FAMILY A HUSBAND'S/PARTNER'S FAMILY B CURRENT/FORMER HUSBAND/PARTNER C CURRENT/FORMER BOYFRIEND D FRIEND E NEIGHBOR F RELIGIOUS LEADEF G DOCTOR/MEDICAL PERSONNEL H POLICE I LAWYER J SOCIAL SERVICE ORGANIZATION K OTHER X (SPECIFY)	→ 1530
1529	Have you ever told any one about this?		YES	
1530	As far as you know, did your father ever beat your	mother?	YES	
	THANK THE RESPONDENT FOR HER COOPER OF HER ANSWERS. FILL OUT THE QUESTIONS MODULE ONLY.			
1531	DID YOU HAVE TO INTERRUPT THE INTERVIEW BECAUSE SOME ADULT WAS TRYING TO LISTEN, OR CAME INTO THE ROOM, OR INTERFERED IN ANY OTHER WAY?		YES, YES, MORE ONCE THAN ONCE NO	
1532	INTERVIEWER'S COMMENTS/EXPLANATION F	OR NOT COMPL	LETING THE DOMESTIC VIOLENCE MODULE.	
1533	CHECK 223A: ONE OR MORE DEATHS		NO DEATHS	→ 1535
1534	READ TO THE RESPONDENT: I would like to inform you that detailed information circumstances surrounding the deaths of children of 5 years will be collected in the near future so the government of Nigeria can provide health services reduce these deaths. If you do not mind, another to coming at a leter date to interview members of the about the death (s) you have told me about. Is this	under the age at the federal s to help team will be household	YES	
1535	RECORD THE TIME.		HOURS MINUTES	

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:
COMMENTS ON SPECIFIC QUESTIONS:
ANY OTHER COMMENTS:
SUPERVISOR'S OBSERVATIONS
EDITOR'S OBSERVATIONS

INSTRUCTIONS:					COL. 1	COL. 2	
		02	FEB	01			2019
		01	JAN	02			
ONLY ONE CODE SHOULD APPEAR IN ANY BOX.		12	DEC	03			
COLUMN 1 REQUIRES A CODE IN EVERY MONTH.		11 10	NOV OCT	04 05			
CODES FOR EACH COLUMN:	2	09	SEP	06			•
	2	08	AUG	07			2
COLUMN 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE (2)	0 1	07 06	JUL JUN	08 09			0
B BIRTHS	8	05	MAY	10			1 8
P PREGNANCIES	0	04	APR	11			0
T TERMINATIONS		03 02	MAR FEB	12			
0 NO METHOD		02	JAN	13 14			
1 FEMALE STERILIZATION		12	DEC	15			
2 MALE STERILIZATION		11	NOV	16			
3 IUD		10	OCT	17			
4 INJECTABLES 5 IMPLANTS	2	09 08	SEP AUG	18 19			2
6 PILL	0	07	JUL	20			0
7 CONDOM	1	06	JUN	21			1
8 FEMALE CONDOM 9 EMERGENCY CONTRACEPTION	7	05	MAY	22 23			7
J STANDARD DAYS METHOD		04 03	APR MAR	23 24			
K LACTATIONAL AMENORRHEA METHOD		02	FEB	25			
L RHYTHM METHOD		01	JAN	26			
M WITHDRAWAL		12	DEC	27			
X OTHER MODERN METHOD		11 10	NOV	28 29			
Y OTHER TRADITIONAL METHOD	_	09	OCT SEP	30			_
COLUMN 2: DISCONTINUATION OF CONTRACEPTIVE USE	2	80	AUG	31			2
A INFERIOUENT OF WILLIAMS ANNAV	0	07	JUL	32			0
INFREQUENT SEX/HUSBAND AWAY BECAME PREGNANT WHILE USING	1	06 05	JUN MAY	33 34			1
2 WANTED TO BECOME PREGNANT	6	04	APR	35			6
3 HUSBAND/PARTNER DISAPPROVED		03	MAR	36			
4 WANTED MORE EFFECTIVE METHOD 5 SIDE EFFECTS/HEALTH CONCERNS		02 01	FEB JAN	37 38			
6 LACK OF ACCESS/TOO FAR 7 COSTS TOO MUCH		12 11	DEC NOV	39 40			
8 INCONVENIENT TO USE		10	OCT	41			
F UP TO GOD/FATALISTIC	2	09	SEP	42			2
A DIFFICULT TO GET PREGNANT/MENOPAUSAL D MARITAL DISSOLUTION/SEPARATION	0	08 07	AUG JUL	43 44			0
X OTHER	1	06	JUN	45			1
(ODEOUR)	5	05	MAY	46			5
(SPECIFY) Z DON'T KNOW		04 03	APR MAR	47 48			
		02	FEB	49			
		01	JAN	50			
		12	DEC	51			
		11 10	NOV OCT	52 53			
	_	09	SEP	54			•
	2	08	AUG	55			2
	0 1	07 06	JUL JUN	56 57			0
	4	05	MAY	58			1 4
	4	04	APR	59			4
		03 02	MAR FEB	60 61			
		01	JAN	62			
		12	DEC	63			
		11	NOV	64			
		10	OCT	65 66			
	2	09 08	SEP AUG	66 67			2
	0	07	JUL	68			0
	1	06	JUN	69			1
	3	05 04	MAY APR	70 71			3
		03	MAR	72			
		02	FEB	73			
		01	JAN	74			

FORMATTING DATE: 07 Jun 2017 ENGLISH LANGUAGE: 26 May 2018

NIGERIA DEMOGRAPHIC AND HEALTH SURVEY - 2018 MAN'S QUESTIONNAIRE

NIGERIA

NATIONAL POPULATION COMMISSION

IDENTIFICATION					
STATE					
LOCAL GOVT. AREA					
LOCALITY					
ENUMERATION AREA					
NAME OF HOUSEHOLD	HEAD				
CLUSTER NUMBER					
HOUSEHOLD NUMBER					
NAME AND LINE NUME	BER OF MAN				
		INTERVIEWER	RVISITS		
	1	2	3	FINAL VISIT	
DATE				DAY MONTH	
INTERVIEWER'S NAME RESULT*				YEAR INT. NO. RESULT*	
NEXT VISIT: DATE				TOTAL NUMBER OF VISITS	
*RESULT CODES: 1 COMPLETED 4 REFUSED 2 NOT AT HOME 5 PARTLY COMPLETED 7 OTHER 3 POSTPONED 6 INCAPACITATED SPECIFY					
LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF INTERVIEW** NATIVE LANGUAGE OF (YES = 1, NO = 2)					
LANGUAGE OF QUESTIONNAIRE** ENGLISH **LANGUAGE CODES: 01 ENGLISH 02 HAUSA 04 IGBO					
NAME	UPERVISOR NU	IMBER	NAME	FIELD EDITOR NUMBER	

INTRODUCTION AND CONSENT

household was selected for the survey. The questions usua not be shared with anyone other than members of our survey.	. I am working with Nigeria Population Commission. We are conducting a formation we collect will help the government to plan health services. Your lly take about 20 minutes. All of the answers you give will be confidential and will be team. You don't have to be in the survey, but we hope you will agree to answer you question you don't want to answer, just let me know and I will go on to the next
In case you need more information about the survey, you mhousehold.	ay contact the person listed on the card that has already been given to your

Do you have any questions? May I begin the interview now?

SIGNATURE OF INTERVIEWER	DATE	
RESPONDENT AGREES TO BE INTERVIEWED 1	RESPONDENT DOES NOT AGREE TO BE INTERVIEWED :	2 → END

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
101	RECORD THE TIME.	HOURS	
102	How long have you been living continuously in (NAME OF CURRENT CITY, TOWN OR VILLAGE OF RESIDENCE)? IF LESS THAN ONE YEAR, RECORD '00' YEARS.	YEARS ALWAYS 95 VISITOR 96]→ 105
103	Just before you moved here, did you live in a city, in a town, or in a rural area?	CITY 1 TOWN 2 RURAL AREA 3	
104	Before you moved here, which state did you live in?	ABIA 01 ADAMAWA 02 AKWA IBOM 03 ANAMBRA 04 BAUCHI 05 BAYELSA 06 BENUE 07 BORNO 08 CROSS RIVER 09 DELTA 10 EBONYI 11 EDO 12 EKITI 13 ENUGU 14 FCT-ABUJA 15 GOMBE 16 IMO 17 JIGAWA 18 KADUNA 19 KANO 20 KATSINA 21 KEBBI 22 KOGI 23 KWARA 24 LAGOS 25 NASARAWA 26	

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
		NIGER 27 OGUN 28 ONDO 29 OSUN 30 OYO 31 PLATEAU 32 RIVERS 33 SOKOTO 34 TARABA 35 YOBE 36 ZAMFARA 37 OUTSIDE OF NIGERIA 96	
105	In what month and year were you born?	MONTH 98 DON'T KNOW MONTH 98 YEAR 9998	
106	How old were you at your last birthday? COMPARE AND CORRECT 105 AND/OR 106 IF INCONSISTENT.	AGE IN COMPLETED YEARS	
107	Have you ever attended school?	YES	→ 111
108	What is the highest level of school you attended: primary, secondary, or higher?	PRIMARY 1 SECONDARY 2 HIGHER 3	
109	What is the highest (class/year) you completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	CLASS/YEAR	
110	CHECK 108: PRIMARY OR SECONDARY	HIGHER	→ 113
111	Now I would like you to read this sentence to me. SHOW CARD TO RESPONDENT. IF RESPONDENT CANNOT READ WHOLE SENTENCE, PROBE: Can you read any part of the sentence to me?	CANNOT READ AT ALL 1 ABLE TO READ ONLY PART OF THE SENTENCE 2 ABLE TO READ WHOLE SENTENCE 3 NO CARD WITH REQUIRED LANGUAGE 4 (SPECIFY LANGUAGE) BLIND/VISUALLY IMPAIRED 5	

SECTION 1. RESPONDENT'S BACKGROUND

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
112	CHECK 111:		
		'1' OR '5' CIRCLED	> 114
113	Do you read a newspaper or magazine at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
114	Do you listen to the radio at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
115	Do you watch television at least once a week, less than once a week or not at all?	AT LEAST ONCE A WEEK 1 LESS THAN ONCE A WEEK 2 NOT AT ALL 3	
116	Do you own a mobile telephone?	YES	→ 118
117	Do you use your mobile phone for any financial transactions?	YES	
118	Do you have an account in a bank or other financial institution that you yourself use?	YES	
119	Have you ever used the internet?	YES	→ 122
120	In the last 12 months, have you used the internet?		
	IF NECESSARY, PROBE FOR USE FROM ANY LOCATION, WITH ANY DEVICE.	YES	→ 122
121	During the last one month, how often did you use the internet: almost every day, at least once a week, less than once a week, or not at all?	ALMOST EVERY DAY 1 AT LEAST ONCE A WEEK 2 LESS THAN ONCE A WEEK 3 NOT AT ALL 4	
122	What is your religion?	CATHOLIC 1 OTHER CHRISTIAN 2 ISLAM 3 TRADITIONALIST 4	
		OTHER6	
123	What is your ethnic group?	(ETHNIC GROUP)	
124	In the last 12 months, how many times have you been away from home for one or more nights?	NUMBER OF TIMES	→ 201
46-			~ 201
125	In the last 12 months, have you been away from home for more than one month at a time?	YES	

SECTION 2. REPRODUCTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
201	Now I would like to ask about any children you have had during your life. I am interested in all of the children that are biologically yours, even if they are not legally yours or do not have your last name. Have you ever fathered any children with any woman?	YES 1 NO 2 DON'T KNOW 8]→ 206
202	Do you have any sons or daughters that you have fathered who are now living with you?	YES	→ 204
203	a) How many sons live with you? b) And how many daughters live with you? IF NONE, RECORD '00'.	a) SONS AT HOMEb) DAUGHTERS AT HOME	
204	Do you have any sons or daughters that you have fathered who are alive but do not live with you?	YES	→ 206
205	a) How many sons are alive but do not live with you? b) And how many daughters are alive but do not live with you? IF NONE, RECORD '00'.	a) SONS ELSEWHERE b) DAUGHTERS ELSEWHERE	
206	Have you ever fathered a son or a daughter who was born alive but later died? IF NO, PROBE: Any baby who cried, who made any movement, sound, or effort to breathe, or who showed any other signs of life even if for a very short time?	YES]→ 208
207	a) How many boys have died? b) And how many girls have died? IF NONE, RECORD '00'.	a) BOYS DEADb) GIRLS DEAD	
208	SUM ANSWERS TO 203, 205, AND 207, AND ENTER TOTAL. IF NONE, RECORD '00'.	TOTAL CHILDREN	
209	CHECK 208: HAS HAD MORE THAN ONE CHILD HAS NOT ANY CHILE		→ 211 → 301
210	Did all of the children you have fathered have the same biological mother?	YES	
211	CHECK 208: HAS HAD ONLY ONE CHILD ONE CHILD a) How old were you when your first child was born? HAS HAD ONLY ONE CHILD V How old were you when your child was born?	AGE IN YEARS	
212	CHECK 203 AND 205: AT LEAST ONE LIVING CHILD	NO LIVING CHILDREN	→ 301

SECTION 2. REPRODUCTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
213	CHECK 203 AND 205: MORE THAN ONE ONLY ONE LIVING CHILD a) How old is your youngest child?	AGE IN YEARS	
214		GEST) CHILD IS ARS OR OLDER	→ 301
215	CHECK 203 AND 205: MORE THAN ONE LIVING CHILD LIVING CHILD LIVING CHILD b) What is the name of your youngest child?	(NAME OF (YOUNGEST) CHILD)	
216	When (NAME)'s mother was pregnant with (NAME), did she have any antenatal check-ups?	YES 1 NO 2 DON'T KNOW 8]→ 218
217	Were you ever present during any of those antenatal check-ups?	PRESENT 1 NOT PRESENT 2	
218	Was (NAME) born in a hospital or health facility?	HOSPITAL/HEALTH FACILITY	
219	When a child has diarrhea, how much should he or she be given to drink: more than usual, about the same as usual, less than usual, or nothing to drink at all?	MORE THAN USUAL 1 ABOUT THE SAME 2 LESS THAN USUAL 3 NOTHING TO DRINK 4 DON'T KNOW 8	

SECTION 3. CONTRACEPTION

301	Now I would like to talk about family planning - the various ways or metho Have you ever heard of (METHOD)?	ods that a couple can use to delay or avoid a pregnancy.
01	Female Sterilization. PROBE: Women can have an operation to avoid having any more children.	YES
02	Male Sterilization. PROBE: Men can have an operation to avoid having any more children.	YES
03	IUD. PROBE: Women can have a loop or coil placed inside them by a doctor or a nurse which can prevent pregnancy for one or more years.	YES
04	Injectables. PROBE: Women can have an injection by a health provider that stops them from becoming pregnant for one or more months.	YES
05	Implants. PROBE: Women can have one or more small rods placed in their upper arm by a doctor or nurse which can prevent pregnancy for one or more years.	YES
06	Pill. PROBE: Women can take a pill every day to avoid becoming pregnant.	YES
07	Condom. PROBE: Men can put a rubber sheath on their penis before sexual intercourse.	YES
08	Female Condom. PROBE: Women can place a sheath in their vagina before sexual intercourse.	YES
09	Emergency Contraception. PROBE: As an emergency measure, within three days after they have unprotected sexual intercourse, women can take special pills to prevent pregnancy.	YES
10	Standard Days Method. PROBE: A woman uses a string of colored beads to know the days she can get pregnant. On the days she can get pregnant, she uses a condom or does not have sexual intercourse.	YES
11	Lactational Amenorrhea Method (LAM). PROBE: Up to six months after childbirth, before the menstrual period has returned, women use a method requiring frequent breastfeeding day and night.	YES
12	Rhythm Method. PROBE: To avoid pregnancy, women do not have sexual intercourse on the days of the month they think they can get pregnant.	YES
13	Withdrawal. PROBE: Men can be careful and pull out before climax.	YES
14	Have you heard of any other ways or methods that women or men can use to avoid pregnancy?	YES, MODERN METHOD
		(SPECIFY) YES, TRADITIONAL METHOD
		B B NO

SECTION 3. CONTRACEPTION

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
302	In the last few months have you:	YES NO	
	a) Heard about family planning on the radio?	a) RADIO 1 2	
	b) Seen anything about family planning on the television?	b) TELEVISION	
	 c) Read about family planning in a newspaper or magazine? 	c) NEWSPAPER OR MAGAZINE 1 2	
	d) Received a voice or text message about family planning on a mobile phone?	d) MOBILE PHONE	
	e) Read/heard from social media (facebook, twitter, etc.)?	e) SOCIAL MEDIA 1 2	
	f) Read about family planning in a poster?	f) POSTER 1 2	
	g) Read about family planning in a leaflet or brochures?	g) LEAFLET OR BROCHURE 1 2	
	h) Heard about family planning from town crier?	h) TOWN CRIER 1 2	
	 i) Heard about family planning from mobile public announcement? 	i) MOBILE PUBLIC ANNOUNCEMEN 1 2	
302A	CHECK 302:		
	AT LEAST ONE	NOT A SINGLE (MACANITATION)	→ 303
	` \	(HAS NOT HEARD R READ MESSAGE)	
302B	Please tell me which family planning messages you	AS FOR ME AND MY PARTNER WE 'DEY KAMPE'	
	have heard or seen in the past few months?	WITH FEMALE CONDOM A UNSPACED CHILDREN MAKES THE GOING	
		TOUGH FOR THE LOVE OF YOUR FAMILY, GO FOR CHILD SPACING TODAY	
	PROBE: Any others?	WELL-SPACED CHILDREN ARE EVERY	
		PARENT'S JOY C IT'S NOT TOO LATE TO PREVENT UNWANTED	
		PREGNANCY D WHY IS YOUR WIFE LOOKING SO GOO E	
		OTHER X	
		(SPECIFY)	
303	In the last few months, have you discussed family planning with a health worker or health professional?	YES	
304	Now I would like to ask you about a woman's risk of		
	pregnancy. From one menstrual period to the next, are there certain days when a woman is more likely to	YES	
	become pregnant when she has sexual relations?	NO 2 DON'T KNOW 8]→ 306
305	Is this time just before her period begins, during her	JUST BEFORE HER PERIOD BEGINS	
	period, right after her period has ended, or halfway between two periods?	DURING HER PERIOD	
	2011001: 4110 political.	HALFWAY BETWEEN TWO PERIODS 4	
		OTHER 6 (SPECIFY)	
		DON'T KNOW	
306	After the birth of a child, can a woman become pregnant before her menstrual period has returned?	YES 1 NO 2	
	25.5.5 not monocadi ponod nao rodimou:	NO 2 DON'T KNOW 8	
307	I will now read you some statements about contraception. Please tell me if you agree or disagree	DIO	
	with each one.	DIS- AGREE AGREE DK	
	 a) Contraception is a woman's concern and a man should not have to worry about it. 	a) CONTRACEPTION WOMAN'S CONCERN 1 2 8	
	b) Women who use contraception may become	b) WOMEN MAY BECOME	
	promiscuous.	PROMISCUOUS 1 2 8	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
401	Are you currently married or living together with a woman as if married?	YES, CURRENTLY MARRIED 1 YES, LIVING WITH A WOMAN 2 NO, NOT IN UNION 3]→ 404
402	Have you ever been married or lived together with a woman as if married?	YES, FORMERLY MARRIED 1 YES, LIVED WITH A WOMAN 2 NO 3	→ 413
403	What is your marital status now: are you widowed, divorced, or separated?	WIDOWED 1 DIVORCED 2 SEPARATED 3	410
404	Is your (wife/partner) living with you now or is she staying elsewhere?	LIVING WITH HIM	
405	Do you have other wives or do you live with other women as if married?	YES (MORE THAN ONE WIFE) 1 NO (ONLY ONE WIFE) 2	→407
406	Altogether, how many wives or live-in partners do you have?	TOTAL NUMBER OF WIVES AND LIVE-IN PARTNERS	
407	CHECK 405: ONE WIFE/ PARTNER a) Please tell me the name of (your wife/the woman you are living with as if married). Please tell me the name of each of your wives or each woman you are living with as if married. RECORD THE NAME AND THE LINE NUMBER FROM THE HOUSEHOLD QUESTIONNAIRE FOR EACH WIFE AND LIVE-IN PARTNER. IF A WOMAN IS NOT LISTED IN THE HOUSEHOLD, RECORD '00'. ASK 408 FOR EACH PERSON.	How old was (NAME) on her last birthday? LINE NAME NUMBER AGE	
409	CHECK 407: ONE WIFE/ PARTNER	MORE THAN ONE WIFE/ PARTNER	> 411
410	Have you been married or lived with a woman only once or more than once?	MORE THAN ONCE 1 ONLY ONCE 2	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
411	CHECK 405 AND 410: BOTH ARE CODE '2' a) In what month and year did you start living with your (wife/partner)? b) Now I would like to ask about your first (wife/partner). In what month and year did you start living with her?	MONTH 98 DON'T KNOW MONTH 98 YEAR 9998]→ 413
412	How old were you when you first started living with her?	AGE	
413	CHECK FOR PRESENCE OF OTHERS. BEFORE CONTI	NUING, MAKE EVERY EFFORT TO ENSURE PRIVACY.	
414	I would like to ask some questions about sexual activity in order to gain a better understanding of some important life issues. Let me assure you again that your answers are completely confidential and will not be told to anyone. If we should come to any question that you don't want to answer, just let me know and we will go to the next question. How old were you when you had sexual intercourse for the very first time?	NEVER HAD SEXUAL INTERCOURSE	→ 501
415	I would like to ask you about your recent sexual activity. When was the last time you had sexual intercourse? IF LESS THAN 12 MONTHS, ANSWER MUST BE RECORDED IN DAYS, WEEKS OR MONTHS. IF 12	DAYS AGO	→ 417
	MONTHS (ONE YEAR) OR MORE, ANSWER MUST BE RECORDED IN YEARS.	YEARS AGO 4	<u></u> → 427

		LAST SEXUAL PARTNER	SECOND-TO-LAST SEXUAL PARTNER	THIRD-TO-LAST SEXUAL PARTNER
416	When was the last time you had sexual intercourse with this person?		DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3	DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3
417	The last time you had sexual intercourse with this person, was a condom used?	YES	YES	YES
418	Was a condom used every time you had sexual intercourse with this person in the last 12 months?	YES	YES	YES
419	What was your relationship to this person with whom you had sexual intercourse? IF GIRLFRIEND: Were you living together as if married? IF YES, RECORD '2'. IF NO, RECORD '3'.	WIFE	WIFE	WIFE 1 LIVE-IN PARTNER 2 GIRLFRIEND NOT LIVING WITH RESPONDENT 3 CASUAL ACQUAINTANCE 4 CLIENT/SEX WORKER 5 OTHER 6 (SPECIFY)
420	How long ago did you first have sexual intercourse with this person?	DAYS	DAYS	DAYS AGO 1 WEEKS AGO 2 MONTHS AGO 3 YEARS AGO 4
421	How many times during the last 12 months did you have sexual intercourse with this person? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF TIMES IS 95 OR MORE, RECORD '95'.	NUMBER OF TIMES	NUMBER OF TIMES	NUMBER OF TIMES
422	How old is this person?	AGE OF PARTNER DON'T KNOW 98	AGE OF PARTNER DON'T KNOW 98	AGE OF PARTNER DON'T KNOW 98
423	Apart from this person, have you had sexual intercourse with any other person in the last 12 months?	YES	YES	
424	In total, with how many different people have you had sexual intercourse in the last 12 months? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.			NUMBER OF PARTNERS LAST 12 MONTHS DON'T KNOW 98

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
425	CHECK 419 (ALL COLUMNS): AT LEAST ONE PARTNER IS A SEX WORKER	NO PARTNERS ARE SEX WORKERS	→ 427
426	CHECK 419 AND 417 (ALL COLUMNS): CONDOM USED WITH EVERY SEX WORKER	OTHER -	→ 430 → 431
427	In the last 12 months, did you pay anyone in exchange for having sexual intercourse?	YES	→ 429
428	Have you ever paid anyone in exchange for having sexual intercourse?	YES]→ 431
429	The last time you paid someone in exchange for having sexual intercourse, was a condom used?	YES	→ 431
430	Was a condom used during sexual intercourse every time you paid someone in exchange for having sexual intercourse in the last 12 months?	YES	
431	In the past 12 months have you given any gifts or other goods in order to have sex or to become sexually involved with anyone?	YES	→ 433
432	Have you ever given any gifts or other goods in order to have sex or to become sexually involved with anyone?	YES	
433	In total, with how many different people have you had sexual intercourse in your lifetime? IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE. IF NUMBER OF PARTNERS IS 95 OR MORE, RECORD '95'.	NUMBER OF PARTNERS IN LIFETIME	
434	CHECK 417: MOST RECENT PARTNER (FIRST COLUMN	1)	
	CONDOM —	NOT ASKED L	→ 438
	USED NO C	CONDOM USED	→ 438
435	You told me that a condom was used the last time you had sex. What is the brand name of the condom used at that time?	MALE CONDOMS 01 GOLD CIRCLE 02 DUREX 03 ROUGH RIDER 04 TWIN LOTUS 05 PLAIN CONDOMS 06 GO FLEX 07	
	IF BRAND NOT KNOWN, ASK TO SEE THE PACKAGE.	OTHER 96 (SPECIFY) DON'T KNOW	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
436	From where did you obtain the condom the last time? PROBE TO IDENTIFY TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE.	PUBLIC SECTOR GOVERNMENT HOSPITAL	
		(SPECIFY)	
	(NAME OF PLACE)	PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/CLINIC 21 PHARMACY 22 CHEMIST/PMS STORE 23 PRIVATE DOCTOR 24 MOBILE CLINIC 25 FIELDWORKER 26 OTHER PRIVATE MEDICAL SECTOR	
		(SPECIFY)	
		OTHER SOURCE SHOP 31 CHURCH 32 FRIEND/RELATIVE 33 NGO 34	
		OTHER96 Comparison	
437	The last time you had sex did you or your partner use any method other than a condom to avoid or prevent a pregnancy?	YES	→ 439]→ 440
438	The last time you had sex did you or your partner use any method to avoid or prevent a pregnancy?	YES]→ 440
439	What method did you or your partner use? PROBE: Did you or your partner use any other method to prevent pregnancy? RECORD ALL MENTIONED.	FEMALE STERILIZATION A MALE STERILIZATION B IUD C INJECTABLES D IMPLANTS E PILL F CONDOM G FEMALE CONDOM H EMERGENCY CONTRACEPTION I STANDARD DAYS METHOD J LACTATIONAL AMENORRHEA METHOD K RHYTHM METHOD L WITHDRAWAL M OTHER MODERN METHOD X OTHER TRADITIONAL METHOD Y	→ 501
440	Do you know of a place where you can obtain a method of family planning?	YES	

SECTION 5. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
501	LIVING WITH A PARTNER \(\tag{1} \)	NTLY MARRIED ND NOT LIVING TH A PARTNER	→ 514
502	CHECK 439: MAN NOT STERILIZED	MAN STERILIZED	> 514
503	CHECK 407: ONE WIFE/ PARTNER	MORE THAN ONE WIFE/ PARTNER	→ 509
504	Is your (wife/partner) currently pregnant?	YES]→ 507
505	Now I have some questions about the future. After the child you and your (wife/partner) are expecting now, would you like to have another child, or would you prefer not to have any more children?	HAVE ANOTHER CHILD 1 NO MORE 2 UNDECIDED/DON'T KNOW 8]→ 514
506	After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?	MONTHS	→ 514
507	CHECK 208: HAS FATHERED CHILDREN a) Now I have some questions about the future. Would you like to have another child, or would you prefer not to have any more children? HAS NOT FATHERED CHILDREN b) Now I have some questions about the future. Would you like to have a child, or would you prefer not to have any children?	HAVE (A/ANOTHER) CHILD 1 NO MORE/NONE 2 SAYS COUPLE CAN'T GET PREGNANT 3 WIFE/PARTNER STERILIZED 4 UNDECIDED/DON'T KNOW 8	→ 514
508	CHECK 208: HAS FATHERED CHILDREN a) How long would you like b) How long would you like to wait from now before the birth of another child? HAS NOT FATHERED CHILDREN CHILDREN to wait from now before the birth of a child?	MONTHS	→ 514
509	Are any of your (wives/partners) currently pregnant?	YES]→ 512

SECTION 5. FERTILITY PREFERENCES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
510	Now I have some questions about the future. After the (child/children) you and your (wives/partners) are expecting now, would you like to have another child, or would you prefer not to have any more children?	HAVE ANOTHER CHILD 1 NO MORE 2 UNDECIDED/DON'T KNOW 8]→514
511	After the birth of the child you are expecting now, how long would you like to wait before the birth of another child?	MONTHS 1 YEARS 2 SOON/NOW .993 OTHER 996 (SPECIFY) .998	→ 514
512	CHECK 208: HAS FATHERED CHILDREN a) Now I have some questions about the future. Would you like to have another child, or would you prefer not to have any more children? HAS NOT FATHERED CHILDREN b) Now I have some questions about the future. Would you like to have a child, or would you prefer not to have any children?	HAVE (A/ANOTHER) CHILD 1 NO MORE/NONE 2 SAYS COUPLE CAN'T GET PREGNANT 3 (WIFE/WIVES/PARTNER(S)) STERILIZED 4 UNDECIDED/DON'T KNOW 8	→ 514
513	CHECK 208: HAS FATHERED CHILDREN a) How long would you like to wait from now before the birth of another child? HAS NOT FATHERED CHILDREN HOW long would you like to wait from now before the birth of a child?	MONTHS	
514	CHECK 203 AND 205: HAS LIVING CHILDREN a) If you could go back to the time you did not have any children and could choose exactly the number of children to have in your whole life, how many would that be? PROBE FOR A NUMERIC RESPONSE.	NONE	→ 601 → 601
515	How many of these children would you like to be boys, how many would you like to be girls and for how many would it not matter if it's a boy or a girl?	NUMBER BOYS GIRLS EITHER NUMBER 96 (SPECIFY)	

SECTION 6. EMPLOYMENT AND GENDER ROLES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
601	Have you done any work in the last seven days?	YES	→ 604
602	Although you did not work in the last seven days, do you have any job or business from which you were absent for leave, illness, vacation, or any other such reason?	YES	→ 604
603	Have you done any work in the last 12 months?	YES	→ 607
604	What is your occupation? That is, what kind of work do you mainly do?		
605	Do you usually work throughout the year, or do you work seasonally, or only once in a while?	THROUGHOUT THE YEAR 1 SEASONALLY/PART OF THE YEAR 2 ONCE IN A WHILE 3	
606	Are you paid in cash or kind for this work or are you not paid at all?	CASH ONLY 1 CASH AND KIND 2 IN KIND ONLY 3 NOT PAID 4	
607	LIVING WITH A PARTNER	CURRENTLY MARRIED AND NG WITH A PARTNER	> 612
608	CHECK 606: CODE '1' OR '2' CIRCLED	OTHER	→ 610
609	Who usually decides how the money you earn will be used: you, your (wife/partner), or you and your (wife/partner) jointly?	RESPONDENT 1 WIFE/PARTNER 2 RESPONDENT AND WIFE/PARTNER JOINTLY 3 OTHER 6 (SPECIFY)	
610	Who usually makes decisions about health care for yourself: you, your (wife/partner), you and your (wife/partner) jointly, or someone else?	RESPONDENT 1 WIFE/PARTNER 2 RESPONDENT AND WIFE/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	
611	Who usually makes decisions about making major household purchases?	RESPONDENT 1 WIFE/PARTNER 2 RESPONDENT AND WIFE/PARTNER JOINTLY 3 SOMEONE ELSE 4 OTHER 6	

SECTION 6. EMPLOYMENT AND GENDER ROLES

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
612	Do you own this or any other house either alone or jointly with someone else?	ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4	→ 615
613	Do you have a title deed for any house you own?	YES]→ 615
614	Is your name on the title deed?	YES	
615	Do you own any agricultural or non-agricultural land either alone or jointly with someone else?	ALONE ONLY 1 JOINTLY ONLY 2 BOTH ALONE AND JOINTLY 3 DOES NOT OWN 4	→ 618
616	Do you have a title deed for any land you own?	YES]→ 618
617	Is your name on the title deed?	YES	
618	In your opinion, is a husband justified in hitting or beating his wife in the following situations: a) If she goes out without telling him? b) If she neglects the children? c) If she argues with him? d) If she refuses to have sex with him? e) If she burns the food?	YES NO DK a) GOES OUT 1 2 8 b) NEGLECTS CHILDREN 1 2 8 c) ARGUES 1 2 8 d) REFUSES SEX 1 2 8 e) BURNS FOOD 1 2 8	

SECTION 7. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
701	Now I would like to talk about something else. Have you ever heard of HIV or AIDS?	YES	→ 727
702	HIV is the virus that can lead to AIDS. Can people reduce their chance of getting HIV by having just one uninfected sex partner who has no other sex partners?	YES	
703	Can people get HIV from mosquito bites?	YES	
704	Can people reduce their chance of getting HIV by using a condom every time they have sex?	YES	
705	Can people get HIV by sharing food with a person who has HIV?	YES 1 NO 2 DON'T KNOW 8	
706	Can people get HIV because of witchcraft or other supernatural means?	YES 1 NO 2 DON'T KNOW 8	
707	Is it possible for a healthy-looking person to have HIV?	YES 1 NO 2 DON'T KNOW 8	
708	Can HIV be transmitted from a mother to her baby:	YES NO DK	
	a) During pregnancy?b) During delivery?c) By breastfeeding?	a) DURING PREGNANCY 1 2 8 b) DURING DELIVERY 1 2 8 c) BREASTFEEDING 1 2 8	
709	CHECK 708:	_	
	AT LEAST ONE 'YES' \	OTHER	→ 720
710	Are there any special drugs that a doctor or a nurse can give to a woman infected with HIV to reduce the risk of transmission to the baby?	YES 1 NO 2 DON'T KNOW 8	

SECTION 7. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
720	Would you buy fresh vegetables from a shopkeeper or vendor if you knew that this person had HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
721	Do you think children living with HIV should be allowed to attend school with children who do not have HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
722	Do you think people hesitate to take an HIV test because they are afraid of how other people will react if the test result is positive for HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
723	Do people talk badly about people living with HIV, or who are thought to be living with HIV?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
724	Do people living with HIV, or thought to be living with HIV, lose the respect of other people?	YES 1 NO 2 DON'T KNOW/NOT SURE/DEPENDS 8	
725	Do you agree or disagree with the following statement: I would be ashamed if someone in my family had HIV.	AGREE 1 DISAGREE 2 DON'T KNOW/NOT SURE/DEPENDS 8	
726	Do you fear that you could get HIV if you come into contact with the saliva of a person living with HIV?	YES 1 NO 2 SAYS HE HAS HIV 3 DON'T KNOW/NOT SURE/DEPENDS 8	
727	CHECK 701: HEARD ABOUT HIV OR AIDS a) Apart from HIV, have you heard about other infections that can be transmitted through sexual contact? NOT HEARD ABOUT HIV OR AIDS b) Have you heard about infections that can be transmitted through sexual contact?	YES	
728	CHECK 414: HAS HAD SEXUAL INTERCOURSE	NEVER HAD SEXUAL INTERCOURSE	→ 736
729	CHECK 727: HEARD ABOUT OTHER SEXUALLY TRANS	MITTED INFECTIONS?	→ 731
730	Now I would like to ask you some questions about your health in the last 12 months. During the last 12 months, have you had a disease which you got through sexual contact?	YES	
731	Sometimes men experience an abnormal discharge from their penis. During the last 12 months, have you had an abnormal discharge from your penis?	YES	
732	Sometimes men have a sore or ulcer near their penis. During the last 12 months, have you had a sore or ulcer on or near your penis?	YES	

SECTION 7. HIV/AIDS

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
733	CHECK 730, 731 AND 732: HAS HAD AN INFECTION (ANY 'YES')	HAS NOT HAD AN	→ 736
734	The last time you had (PROBLEM FROM 730/731/732), did you seek any kind of advice or treatment?	YES	→ 736
735	Where did you go? Any other place? PROBE TO IDENTIFY THE TYPE OF SOURCE. IF UNABLE TO DETERMINE IF PUBLIC OR PRIVATE SECTOR, WRITE THE NAME OF THE PLACE. (NAME OF PLACE)	PUBLIC SECTOR GOVERNMENT HOSPITAL A GOVERNMENT HEALTH CENTER B STAND-ALONE HTS CENTER C FAMILY PLANNING CLINIC D MOBILE HTS SERVICES E OTHER PUBLIC SECTOR PRIVATE MEDICAL SECTOR PRIVATE HOSPITAL/CLINIC/ PRIVATE DOCTOR G STAND-ALONE HTS CENTER H PHARMACY I CHEMIST/PMS STORE J MOBILE HTS SERVICES K OTHER PRIVATE MEDICAL SECTOR L (SPECIFY) OTHER SOURCE SHOP M OTHER (SPECIFY)	
736	If a wife knows her husband has a disease that she can get during sexual intercourse, is she justified in asking that they use a condom when they have sex?	YES	
737	Is a wife justified in refusing to have sex with her husband when she knows he has sex with women other than his wives?	YES	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
801	Some men are circumcised, that is, the foreskin is completely removed from the penis. Are you circumcised?	YES]→ 805
802	How old were you when you got circumcised?	AGE IN COMPLETED YEARS	
803	Who did the circumcision?	TRADITIONAL PRACTITIONER/FAMILY/FRIENE . 1 HEALTH WORKER/PROFESSIONAL . 2 OTHER	
804	Where was it done?	HEALTH FACILITY 1 HOME OF A HEALTH WORKER/PROFESSIONA 2 CIRCUMCISION DONE AT HOME 3 RITUAL SITE 4 OTHER HOME/PLACE 5 DON'T KNOW 8	
805	Now I would like to ask you some other questions relating to health matters. Have you had an injection for any reason in the last 12 months? IF YES: How many injections have you had? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.	NUMBER OF INJECTIONS	→ 808
806	Among these injections, how many were administered by a doctor, a nurse, a pharmacist, a dentist, or any other health worker? IF NUMBER OF INJECTIONS IS 90 OR MORE, OR DAILY FOR 3 MONTHS OR MORE, RECORD '90'. IF NON-NUMERIC ANSWER, PROBE TO GET AN ESTIMATE.	NUMBER OF INJECTIONS	→ 808
807	The last time you got an injection from a health worker, did he/she take the syringe and needle from a new, unopened package?	YES 1 NO 2 DON'T KNOW 8	
808	Do you currently smoke tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	→811 →810
809	In the past, have you smoked tobacco every day?	YES]→ 812
810	In the past, have you ever smoked tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	813

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
811	On average, how many of the following products do you currently smoke each day? Also, let me know if you use the product, but not every day. IF RESPONDENT REPORTS USING THE PRODUCT		
	BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.	NUMBER DAILY	
	a) Manufactured cigarettes?	a) MANUFACTURED CIGARETTES	I П
	b) Hand-rolled cigarettes?	b) HAND-ROLLED CIGARETTES	
	c) Kreteks?	c) KRETEKS	
	d) Pipes full of tobacco?	d) PIPES FULL OF TOBACCO	→ 813
	e) Cigars, cheroots, or cigarillos?	e) CIGARS, CHEROOTS, OR CIGARILLOS	
	f) Number of water pipe sessions?	f) NUMBER OF WATER PIPE SESSIONS	
	g) Any others? (SPECIFY)	g) OTHERS	
812	On average, how many of the following products do you currently smoke each week? Also, let me know if you use the product, but not every week.		
	IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.	NUMBER WEEKLY	
	a) Manufactured cigarettes?	a) MANUFACTURED CIGARETTES	
	b) Hand-rolled cigarettes?	b) HAND-ROLLED CIGARETTES	
	c) Kreteks?	c) KRETEKS	
	d) Pipes full of tobacco?	d) PIPES FULL OF TOBACCO	
	e) Cigars, cheroots, or cigarillos?	e) CIGARS, CHEROOTS, OR CIGARILLOS	
	f) Number of water pipe sessions?	f) NUMBER OF WATER PIPE SESSIONS	
	g) Any others? (SPECIFY)	g) OTHERS	
813	Do you currently use smokeless tobacco every day, some days, or not at all?	EVERY DAY 1 SOME DAYS 2 NOT AT ALL 3	→ 815 → 815A

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
814	On average, how many times a day do you use the following products? Also, let me know if you use the product, but not every day.		
	IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY DAY, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.	TIMES DAILY	
	a) Snuff, by mouth?	a) SNUFF, BY MOUTH]]
	b) Snuff, by nose?	b) SNUFF, BY NOSE	
	c) Chewing tobacco?	c) CHEWING TOBACCO	→ 815A
	d) Betel quid with tobacco?	d) BETEL QUID WITH TOBACCO	
	e) Any others? (SPECIFY)	e) ANY OTHERS	
815	On average, how many times a week do you use the following products? Also, let me know if you use the product, but not every week.		
	IF RESPONDENT REPORTS USING THE PRODUCT BUT NOT EVERY WEEK, RECORD '888'. IF THE PRODUCT IS NOT USED AT ALL, RECORD '000'.	TIMES WEEKLY	
	a) Snuff, by mouth?	a) SNUFF, BY MOUTH	
	b) Snuff, by nose?	b) SNUFF, BY NOSE	
	c) Chewing tobacco?	c) CHEWING TOBACCO	
	d) Betel quid with tobacco?	d) BETEL QUID WITH TOBACCO	
	e) Any others? (SPECIFY)	e) ANY OTHERS	
815A	I am going to ask you about your opinion on behavior/practice on reducing the risk of malaria. Please tell me whether you agree or disagree with the following statements:	AGREE DISAGREE DON'T KNOW	
	b) The medicine given to pregnant women to prevent malaria works well to keep the mother healthy	b) 1 2 8	
	 The medicine given to pregnant women to prevent malaria works well to keep the baby healthy when it is born 	c) 1 2 8	
	The malaria tests are the only way to know if someone really has malaria or not	d) 1 2 8	
	 f) Even if the malaria test shows that the fever is not caused by malaria, I will still seek out treatment for malaria because I don't trust the test result 	f) 1 2 8	
	When the entire course of malaria medicine is taken, the disease will be fully cured	i) 1 2 8	_

NO.	QUESTIONS AND FILTERS		CODING	G CATEGORIES		SKIP
815B	I am going to ask you about your opinion on consequences of malaria. Please tell me whether you agree or disagree with the following statements:		AGREE	DISAGREE	DON'T KNOW	
	a) Every case of malaria can potentially lead to death c) You don't worry about malaria because it can be easily treated	a) c)	1 1	2 2	8 8	
	d) You know people who have become dangerously sick with malaria.	d)	1	2	8	
	f) Only weak children can die from malaria	f)	1	2	8	
816	Are you covered by any health insurance?	YES NO				→ 818
817	What type of health insurance are you covered by? RECORD ALL MENTIONED.	C IN HEAI E SOC OTH	TH INSURANCE THE	D HEALTH	B C	
818	RECORD THE TIME.		RS			

INTERVIEWER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING INTERVIEW

COMMENTS ABOUT INTERVIEW:
COMMENTS ON SPECIFIC QUESTIONS:
ANY OTHER COMMENTS:
SUPERVISOR'S OBSERVATIONS
EDITOR'S OBSERVATIONS

FORMATTING DATE: 09 Jun 2015 ENGLISH LANGUAGE: 26 May 2018

NIGERIA DEMOGRAPHIC AND HEALTH SURVEYS 2018 BIOMARKER QUESTIONNAIRE

NIGERIA

IDENTIFICATION						
STATE LOCAL GOVT. AREA LOCALITY ENUMERATION AREA NAME OF HOUSEHOLD HEAD CLUSTER NUMBER HOUSEHOLD NUMBER						
HOUSEHOLD SELECTE	ED FOR MICROSCOPY (
SELECTED FOR SELECTED FOR	MICROSCOPY = 1 DBS = 2					
		FIELDWOF	RKER VISITS			
	1	2	3	FINAL VISIT		
DATE FIELDWORKER'S NAME NEXT VISIT: DATE				DAY MONTH YEAR TOTAL NUMBER OF VISITS		
TIME NOTES:			_			
TOTAL ELIGIBLE WOMEN TOTAL ELIGIBLE CHILDREN						
LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF INTERVIEW** LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF QUESTIONNAIRE** LANGUAGE OF CYCLE **LANGUAGE CODES: 01 ENGLISH 02 HAUSA 04 IGBO TRANSLATOR (YES = 1, NO = 2) **LANGUAGE CODES: 01 ENGLISH 02 HAUSA 04 IGBO						
SUPERV	/ISOR NUMB	BER	NAME	FIELD EDITOR NUMBER		

101	CHECK COLUMN 11 IN HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 102; IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S).				
		CHILD 1	CHILD 2	CHILD 3	
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	LINE NUMBER	LINE NUMBER	LINE NUMBER	
103	IF MOTHER INTERVIEWED: COPY CHILD'S DATE OF BIRTH (DAY, MONTH, AND YEAR) FROM BIRTH HISTORY. IF MOTHER NOT INTERVIEWED ASK: What is (NAME)'s date of birth?	DAY	DAY	DAY	
104	CHECK 103: CHILD BORN IN 2013- 2018?	YES	YES	YES	
105	WEIGHT IN KILOGRAMS.	KG	KG	KG	
106	HEIGHT IN CENTIMETERS.	CM	CM	CM	
107	MEASURED LYING DOWN OR STANDING UP?	LYING DOWN 1 STANDING UP 2	LYING DOWN 1 STANDING UP 2	LYING DOWN	
108	MEASURER: ENTER YOUR FIELDWORKER NUMBER.	FIELDWORKER NUMBER	FIELDWORKER NUMBER	FIELDWORKER NUMBER	
109	CHECK 103: CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR 5 PREVIOUS MONTHS?	0-5 MONTHS 1 (SKIP TO 130) OLDER 2	0-5 MONTHS 1 (SKIP TO 130) COLDER 2	0-5 MONTHS 1 (SKIP TO 130) COLDER 2	
110	NAME AND RELATIONSHIP TO THE CHILD OF ADULT RESPONSIBLE FOR THE CHILD. GET LINE NUMBER FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.	RELATIONSHIP TO THE CHILD LINE NUMBER (RECORD '00' IF NOT LISTED)	RELATIONSHIP TO THE CHILD LINE NUMBER (RECORD '00' IF NOT LISTED)	RELATIONSHIP TO THE CHILD LINE NUMBER [] (RECORD '00' IF NOT LISTED)	
111	ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT.	serious health problem that usual will assist the government to develorn in 2013 or later take part in a finger or heel. The equipment used used before and will be thrown averaged. The blood will be tested for anem will be kept strictly confidential and team. Do you have any questions? You can say yes or no. It is up to	elop programs to prevent and treat anemia testing in this survey and gi ed to take the blood is clean and co way after each test. nia immediately, and the result will be nd will not be shared with anyone ot	tion, or chronic disease. This survey anemia. We ask that all children ive a few drops of blood from a completely safe. It has never been be told to you right away. The result	

101	CHECK COLUMN 11 IN HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 102; IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S).				
		CHILD 1	CHILD 2	CHILD 3	
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	NAME	NAME	
111A	CIRCLE THE CODE AND SIGN YOUR NAME.	GRANTED 1] (SIGN) REFUSED 2] NOT PRESENT/OTHER . 3] (SKIP TO 130)	GRANTED 1] (SIGN) REFUSED 2] NOT PRESENT/OTHER . 3] (SKIP TO 130)	GRANTED	
112	Has (NAME) had blood transfusion in the past 3 months?	YES	YES	YES	
112A	ASK CONSENT FOR GENOTYPE TEST FROM PARENT/OTHER ADULT.	As part of this survey, we are asking children all over the country to take a test to see if they have sickle cell anemia (SS) or its trait (AS). Sickle cell disease (SCD) is an inherited blood disorder, which affects children early in life often with repeated episodes of catastrophic illness and bone pains with varying periods of relative good health in between. This survey will assist the government to develop programs for the prevention and management of sickle cell disease. We ask that all children born in 2013 or later take part in genotype testing in this survey and give a few drops of blood from a finger or heel. One blood drop will be tested for genotype immediately, and the result will be told to you right away. The equipment used to take the blood is clean and completely safe. It has never been used before and will be thrown away after each test. The result will be kept strictly confidential and will not be shared with anyone other than members of our survey team. Do you have any questions? You can say yes or no. It is up to you to decide. Will you allow (NAME OF CHILD) to participate in the genotype test?			
112B	CIRCLE THE CODE AND SIGN YOUR NAME.	GRANTED	GRANTED	GRANTED	
112C	ASK CONSENT FOR MALARIA TEST FROM PARENT/OTHER ADULT.	As part of this survey, we are asking children all over the country to take a test to see if they have malaria. Malaria is a serious illness caused by a parasite transmitted by a mosquito bite. This survey will assist the government to develop programs to prevent malaria. We ask that all children born in 2013 or later take part in malaria testing in this survey and give a few drops of blood from a finger or heel. The blood will be tested for malaria immediately, and the result will be told to you right away. All results will be kept strictly confidential and will not be shared with anyone other than members of our survey team. Do you have any questions? You can say yes or no. It is up to you to decide. Will you allow (NAME OF CHILD) to participate in the malaria test?			
112D	CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.	GRANTED 1 7 REFUSED 2 - (SIGN AND ENTER YOUR FIELDWORKER NUMBER)	GRANTED 1 - REFUSED 2 - (SIGN AND ENTER YOUR FIELDWORKER NUMBER)	GRANTED 1 7 REFUSED 2 - (SIGN AND ENTER YOUR FIELDWORKER NUMBER)	

101	CHECK COLUMN 11 IN HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 102; IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S).				
		CHILD 1	CHILD 2	CHILD 3	
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	NAME	NAME	
112E	PREPARE EQUIPMENT AND SUPPLIES TEST(S).	ONLY FOR THE TEST(S) FOR W	HICH CONSENT HAS BEEN OBT	AINED AND PROCEED WITH THE	
112F	PLACE BAR CODE LABEL FOR MALARIA LAB TEST OR GENOTYPE CONFIRMATORY LAB TEST.	PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994	PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994	PUT THE 1ST BAR CODE LABEL HERE. NOT PRESENT 99994	
		REFUSED 99994 OTHER	REFUSED 99994 OTHER 99996	REFUSED 99995 OTHER 99996	
	MENTION WHERE BAR CODE PLACED BASED ON THE TEST.	SLIDE A DBS B	SLIDE A DBS B	SLIDE A DBS B	
			TRANSMITTAL FORM C		
		RESULTS OF HEM	OGLOBIN TEST		
113	RECORD HEMOGLOBIN LEVEL HERE AND IN THE PAMPHLET.	G/DL	G/DL	G/DL	
		RESULTS OF GE	NOTYPE TEST		
113A	CIRCLE THE CODE FOR THE GENOTYPE RDT.	TESTED 1 NOT PRESENT 2 REFUSED 3 - OTHER 6 (SKIP TO 114)	TESTED 1 NOT PRESENT 2 REFUSED 3 - OTHER 6 - (SKIP TO 114) ←	TESTED 1 NOT PRESENT 2 REFUSED 3 - OTHER 6 - (SKIP TO 114)	
113B	RECORD THE RESULT OF THE GENOTYPE RDT HERE AND IN THE PAMPHLET.	AA 1— AS 2— AC 3— SC 4— (SKIP TO 114) — SS 5	AA	AA	
113C	SICKLE CELL ANEMIA (SS) REFERRAL	The genotype test shows that (N/be taken to a health facility imme	•	emia. Your child is very ill and must	
	RECORD THE RESULT OF THE GENOTYPE TEST ON THE REFERRAL FORM.				
		RESULTS OF MAL	ARIA RDT TEST		
114	CIRCLE THE CODE FOR THE MALARIA RDT.	TESTED 1 NOT PRESENT 2 ¬ REFUSED 3 ¬ OTHER 6 ¬ (SKIP TO 128) ←	TESTED 1 NOT PRESENT 2 REFUSED 3 OTHER 6 (SKIP TO 128)	TESTED 1 NOT PRESENT 2 REFUSED 3 OTHER 6 (SKIP TO 128)	
115	RECORD THE RESULT OF THE MALARIA RDT HERE AND IN THE PAMPHLET.	POSITIVE	POSITIVE	POSITIVE	

101	CHECK COLUMN 11 IN HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER AND NAME FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 102; IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S).			
		CHILD 1	CHILD 2	CHILD 3
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	NAME	NAME
118	Does (NAME) suffer from any of the following illnesses or symptoms: a) Extreme weakness? b) Heart problems? c) Loss of consciousness? d) Rapid or difficult breathing? e) Seizures? f) Abnormal bleeding? g) Jaundice or yellow skin? h) Dark urine?	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS 1 2 c) LOSS OF CONSCIOUS. 1 2 d) RAPID BREATHING 1 2 e) SEIZURES 1 2 f) BLEEDING 1 2 g) JAUNDICE 1 2 h) DARK URINE 1 2	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS 1 2 c) LOSS OF CONSCIOUS. 1 2 d) RAPID BREATHING 1 2 e) SEIZURES 1 2 f) BLEEDING 1 2 g) JAUNDICE 1 2 h) DARK URINE 1 2	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS 1 2 c) LOSS OF CONSCIOUS. 1 2 d) RAPID BREATHING 1 2 e) SEIZURES 1 2 f) BLEEDING 1 2 g) JAUNDICE 1 2 h) DARK URINE 1 2
119	CHECK 118: ANY 'YES' CIRCLED?	NO YES (SKIP TO 122)	NO YES (SKIP TO 122)	NO YES (SKIP TO 122)
120	CHECK 113: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA 1 (SKIP TO 122) 8.0 G/DL OR ABOVE 2 NOT PRESENT	BELOW 8.0 G/DL, SEVERE ANEMIA 1 (SKIP TO 122) 8.0 G/DL OR ABOVE 2 NOT PRESENT	BELOW 8.0 G/DL, SEVERE ANEMIA
121	In the past two weeks has (NAME) taken or is taking ACT given by a doctor or health center to treat the malaria? VERIFY BY ASKING TO SEE TREATMENT	YES	YES	YES
122	SEVERE MALARIA REFERRAL RECORD THE RESULT OF THE MALARIA RDT ON THE REFERRAL FORM.	The malaria test shows that (NAME OF CHILD) has malaria. Your child also has symptoms of severe malaria. The malaria treatment I have will not help your child, and I cannot give you the medication. Your child is very ill and must be taken to a health facility right away. (SKIP TO 128)		
123	ALREADY TAKING ACT REFERRAL STATEMENT	You have told me that (NAME OF CHILD) had already received ACT for malaria. Therefore, I cannot give you additional ACT. However, the test shows that he/she has malaria. If your child has a fever for two days after the last dose of ACT, you should take the child to the nearest health facility for further examination. (SKIP TO 130)		
124	READ INFORMATION FOR MALARIA TREATMENT AND CONSENT STATEMENT TO PARENT/OTHER	called ACT. ACT is very effective	child has malaria. We can give you and in a few days it should get rid the medicine. This is up to you. Ple	

101	CHECK COLUMN 11 IN HOUSEHOLD QU YEARS IN QUESTION 102; IF MORE THA			L ELIGIBLE CHILDREN 0-5
		CHILD 1	CHILD 2	CHILD 3
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	NAME	LINE NUMBER
125	CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.	ACCEPTED MEDICINE . 1 (SIGN) REFUSED	ACCEPTED MEDICINE . 1 (SIGN) REFUSED . 2 OTHER 6	ACCEPTED MEDICINE 1 7 (SIGN)
126	CHECK 125: MEDICATION ACCEPTED	ACCEPTED MEDICINE . 1 REFUSED 2 ¬ OTHER 6 ¬ (SKIP TO 130) ←	ACCEPTED MEDICINE . 1 REFUSED 2 ¬ OTHER 6 − (SKIP TO 130) ←	ACCEPTED MEDICINE . 1 REFUSED
127	TREATMENT FOR CHILDREN WITH	TREATMENT WITH ACT		
	POSITIVE MALARIA TESTS	WEIGHT (in kg)	AGE	ARTEMETHER-LUMEFANTRINE
		LESS THAN 5 KGS	NOTHING	NOTHING
		5-14 KGS 15-25 KGS	6 MONTHS - 3 YEARS 4 - 8 YEARS	1 TABLET TWICE A DAY FOR 3 DAYS 2 TABLETS TWICE A DAY FOR 3 DAYS
		IF CHILD WEIGHS LESS THAN CHILD TO HEALTH FACILITY.	5 KGS, DO NOT LEAVE DRUGS.	TELL PARENTS TO TAKE
			sicker or does not get better in two	ever, fast or difficult breathing, is not days, you should take him/her to a
128	CHECK 113: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA 1 8.0 G/DL OR ABOVE 2— NOT PRESENT 3— REFUSED 4— OTHER 6— (SKIP TO 130)	BELOW 8.0 G/DL, SEVERE ANEMIA 1 8.0 G/DL OR ABOVE 2 NOT PRESENT 3 REFUSED 4 OTHER 6 (SKIP TO 130)	BELOW 8.0 G/DL, SEVERE ANEMIA 1 8.0 G/DL OR ABOVE 2 — NOT PRESENT 3 — REFUSED 4 — OTHER 6 — (SKIP TO 130)
129	SEVERE ANEMIA REFERRAL RECORD THE RESULT OF THE ANEMIA TEST ON THE REFERRAL FORM.	The anemia test shows that (NAN taken to a health facility immedia	/IE OF CHILD) has severe anemia. tely.	Your child is very ill and must be
130	GO BACK TO 103 IN NEXT COLUMN OF IF NO MORE CHILDREN, GO TO 201.	THIS QUESTIONNAIRE OR IN THE	HE FIRST COLUMN OF THE NEX	Γ PAGE;

		CHILD 4	CHILD 5	CHILD 6
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	NAME	LINE NUMBER
103	IF MOTHER INTERVIEWED: COPY CHILD'S DATE OF BIRTH (DAY, MONTH, AND YEAR) FROM BIRTH HISTORY. IF MOTHER NOT INTERVIEWED ASK: What is (NAME)'s date of birth?	DAY	DAY	DAY
104	CHECK 103: CHILD BORN IN 2013- 2018?	YES	YES	YES
105	WEIGHT IN KILOGRAMS.	KG	KG	KG
106	HEIGHT IN CENTIMETERS.	CM	CM	CM
107	MEASURED LYING DOWN OR STANDING UP?	LYING DOWN 1 STANDING UP 2	LYING DOWN 1 STANDING UP 2	LYING DOWN 1 STANDING UP 2
108	MEASURER: ENTER YOUR FIELDWORKER NUMBER.	FIELDWORKER NUMBER	FIELDWORKER NUMBER	FIELDWORKER NUMBER
109	CHECK 103: CHILD AGE 0-5 MONTHS, I.E., WAS CHILD BORN IN MONTH OF INTERVIEW OR 5 PREVIOUS MONTHS?	0-5 MONTHS 1 (SKIP TO 130) CLDER 2	0-5 MONTHS 1 (SKIP TO 130) CDDER 2	0-5 MONTHS 1 (SKIP TO 130) CDDER 2
110	NAME AND RELATIONSHIP TO THE CHILD OF ADULT RESPONSIBLE FOR THE CHILD. GET LINE NUMBER FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.	RELATIONSHIP TO THE CHILD LINE NUMBER (RECORD '00' IF NOT LISTED)	NAME RELATIONSHIP TO THE CHILD LINE NUMBER (RECORD '00' IF NOT LISTED)	NAME RELATIONSHIP TO THE CHILD LINE NUMBER (RECORD '00' IF NOT LISTED)
111	ASK CONSENT FOR ANEMIA TEST FROM PARENT/OTHER ADULT.	serious health problem that usua survey will assist the government children born in 2013 or later take blood from a finger or heel. The chas never been used before and The blood will be tested for anem result will be kept strictly confider survey team. Do you have any questions? You can say yes or no. It is up to	ting people all over the country to tally results from poor nutrition, infect to develop programs to prevent a part in anemia testing in this survequipment used to take the blood i will be thrown away after each testina immediately, and the result will not be shared with an you to decide.	ction, or chronic disease. This nd treat anemia. We ask that all vey and give a few drops of s clean and completely safe. It t. be told to you right away. The yone other than members of our

		CHILD 4	CHILD 5	CHILD 6
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME NAME	NAME	LINE NUMBER
111A	CIRCLE THE CODE AND SIGN YOUR NAME.	GRANTED	GRANTED	GRANTED
112	Has (NAME) had blood transfusion in the past 3 months?	YES	YES	YES
112A	ASK CONSENT FOR GENOTYPE TEST FROM PARENT/OTHER ADULT.	sickle cell anemia (SS) or its trait which affects children early in life pains with varying periods of relat to develop programs for the previous was that all children born in 2 few drops of blood from a finger of and the result will be told to your completely safe. It has never bee will be kept strictly confidential ar survey team.	cing children all over the country to (AS). Sickle cell disease (SCD) is often with repeated episodes of crive good health in between. This sention and management of sickle of the country of the countr	an inherited blood disorder, atastrophic illness and bone survey will assist the government cell disease. Itesting in this survey and give a ted for genotype immediately, take the blood is clean and away after each test. The result other than members of our
112B	CIRCLE THE CODE AND SIGN YOUR NAME.	GRANTED	GRANTED 1 (SIGN) REFUSED 2 NOT PRESENT/OTHER . 3 (SKIP TO 130)	(SIGN)
112C	ASK CONSENT FOR MALARIA TEST FROM PARENT/OTHER ADULT.	malaria. Malaria is a serious illne will assist the government to deve We ask that all children born in 2 drops of blood from a finger or he be told to you right away. All resu other than members of our surve Do you have any questions? You can say yes or no. It is up to	eel. The blood will be tested for ma Its will be kept strictly confidential y team.	ed by a mosquito bite. This survey sting in this survey and give a few alaria immediately, and the result will and will not be shared with anyone
112D	CIRCLE THE CODE, SIGN YOUR NAME, AND ENTER YOUR FIELDWORKER NUMBER.	GRANTED 1 REFUSED 2 2 (SIGN AND ENTER YOUR FIELDWORKER NUMBER)	GRANTED 1 REFUSED 2 2 2 (SIGN AND ENTER YOUR FIELDWORKER NUMBER)	GRANTED 1 7 REFUSED 2 7 (SIGN AND ENTER YOUR FIELDWORKER NUMBER)

		CHILD 4	CHILD 5	CHILD 6	
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	NAME	LINE NUMBER	
112E	PREPARE EQUIPMENT AND SUPPLIES	ONLY FOR THE TEST(S) FOR W	HICH CONSENT HAS BEEN OB	TAINED AND PROCEED WITH	
	THE TEST(S).	()			
112F	PLACE BAR CODE LABEL FOR MALARIA LAB TEST OR GENOTYPE CONFIRMATORY LAB TEST.	PUT THE 1ST BAR CODE LABEL HERE.	PUT THE 1ST BAR CODE LABEL HERE.	PUT THE 1ST BAR CODE LABEL HERE.	
		NOT PRESENT 99994 REFUSED 99995 OTHER 99996	NOT PRESENT 99994 REFUSED 99995 OTHER 99996	NOT PRESENT 99994 REFUSED 99995 OTHER 99996	
	MENTION WHERE BAR CODE	SLIDE A	SLIDE A	SLIDE A	
	PLACED BASED ON THE TEST.	DBS B	DBS B	DBS B	
		TRANSMITTAL FORM C		TRANSMITTAL FORM . C	
		RESULTS OF HEMO	OGLOBIN TEST		
113	RECORD HEMOGLOBIN LEVEL HERE AND IN THE ANEMIA AND MALARIA PAMPHLET.	G/DL	G/DL	G/DL	
		NOT PRESENT 994 REFUSED 995 OTHER 996	NOT PRESENT .994 REFUSED .995 OTHER .996	NOT PRESENT	
		RESULTS OF GENOTYPE TEST			
113A	CIRCLE THE CODE FOR THE	TESTED 1	TESTED 1	TESTED 1	
1137	GENOTYPE RDT.	NOT PRESENT 2 - REFUSED 3 - OTHER 6 - (SKIP TO 114)	NOT PRESENT	NOT PRESENT 2 — REFUSED 3 — OTHER 6 — (SKIP TO 114) ←	
113B	RECORD THE RESULT OF THE GENOTYPE RDT HERE AND IN THE PAMPHLET.	AA 1 AS 2 AC 3- SC 4 (SKIP TO 114) SS 5	AA	AA	
113C	SICKLE CELL ANEMIA (SS) REFERRAL	The genotype test shows that (NA be taken to a health facility immediately imm		emia. Your child is very ill and must	
	RECORD THE RESULT OF THE GENOTYPE TEST ON THE REFERRAL FORM.				
		RESULTS OF MALA	ARIA RDT TEST		
114	CIRCLE THE CODE FOR THE MALARIA RDT.	TESTED 1 NOT PRESENT 2 REFUSED 3 - OTHER 6 - (SKIP TO 128)	TESTED 1 NOT PRESENT 2 ¬ REFUSED 3 ¬ OTHER 6 ¬ (SKIP TO 128)	TESTED	
115	RECORD THE RESULT OF THE MALARIA RDT HERE AND IN THE PAMPHLET.	POSITIVE	POSITIVE	POSITIVE	

		CHILD 4	CHILD 5	CHILD 6	
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	LINE NUMBER	LINE NUMBER	LINE NUMBER	
118	Does (NAME) suffer from any of the following illnesses or symptoms: a) Extreme weakness? b) Heart problems? c) Loss of consciousness? d) Rapid or difficult breathing? e) Seizures? f) Abnormal bleeding? g) Jaundice or yellow skin? h) Dark urine?	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS 1 2 c) LOSS OF CONSCIOUS. 1 2 d) RAPID BREATHING 1 2 e) SEIZURES 1 2 f) BLEEDING 1 2 g) JAUNDICE 1 2	YES NO a) EXTREME WEAKNESS 1 2 b) HEART PROBLEMS 1 2 c) LOSS OF CONSCIOUS. 1 2 d) RAPID BREATHING 1 2 e) SEIZURES 1 2 f) BLEEDING 1 2 g) JAUNDICE 1 2 h) DARK URINE 1 2	YES NO a) EXTREME	
119	CHECK 118: ANY 'YES' CIRCLED?	NO YES (SKIP TO 122)	NO YES (SKIP TO 122)	NO YES (SKIP TO 122)	
120	CHECK 113: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA 1 (SKIP TO 122) 8.0 G/DL OR ABOVE . 2 NOT PRESENT 3 REFUSED 4 OTHER 6	BELOW 8.0 G/DL,	BELOW 8.0 G/DL, SEVERE ANEMIA 1 (SKIP TO 122) 8.0 G/DL OR ABOVE 2 NOT PRESENT 3 REFUSED 4 OTHER 6	
121	In the past two weeks has (NAME) taken or is taking ACT given by a doctor or health center to treat the malaria? VERIFY BY ASKING TO SEE TREATMENT	YES	YES	(SKIP TO 123) ←	
122	SEVERE MALARIA REFERRAL RECORD THE RESULT OF THE MALARIA RDT ON THE REFERRAL FORM.	severe malaria. The malaria treat	ME OF CHILD) has malaria. Your of the of the control of the contro	d, and I cannot give you the	
123	ALREADY TAKING ACT REFERRAL STATEMENT	cannot give you additional ACT. I	F CHILD) had already received AC However, the test shows that he/sh dose of ACT, you should take the	ne has malaria. If your child has	
124	READ INFORMATION FOR MALARIA TREATMENT AND CONSENT STATEMENT TO PARENT/OTHER	called ACT. ACT is very effective	child has malaria. We can give yo and in a few days it should get rid ve the child the medicine. This is u	of the fever and other	

		CHILD 4	CHILD 5	CHILD 6
102	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 11.	NAME	LINE NUMBER	LINE NUMBER
125	CIRCLE THE APPROPRIATE CODE AND SIGN YOUR NAME.	ACCEPTED MEDICINE . 1	ACCEPTED MEDICINE . 1	ACCEPTED MEDICINE . 1
126	CHECK 125: MEDICATION ACCEPTED	ACCEPTED MEDICINE . 1 REFUSED 2 ¬ OTHER 6 ¬ (SKIP TO 130) ←	ACCEPTED MEDICINE . 1 REFUSED 2 ¬ OTHER 6 ¬ (SKIP TO 130) ←	ACCEPTED MEDICINE . 1 REFUSED 2 ¬ OTHER 6 ¬ (SKIP TO 130) ←
127	TREATMENT FOR CHILDREN WITH	TREATMENT WITH ACT		
	POSITIVE MALARIA TESTS	WEIGHT (in kg)	AGE	ARTEMETHER-LUMEFANTRINE
		LESS THAN 5 KGS 5-14 KGS 15-25 KGS	NOTHING 6 MONTHS - 3 YEARS 4 - 8 YEARS	NOTHING 1 TABLET TWICE A DAY FOR 3 DAYS 2 TABLETS TWICE A DAY FOR 3 DAYS
		IF CHILD WEIGHS LESS THAN 5 KGS, DO NOT LEAVE DRUGS. TELL PARENTS CHILD TO HEALTH FACILITY.		. TELL PARENTS TO TAKE
			ER ADULT: If [NAME] has a high fets sicker or does not get better in or treatment right away.	
128	CHECK 113: HEMOGLOBIN RESULT	BELOW 8.0 G/DL, SEVERE ANEMIA 1 8.0 G/DL OR ABOVE 2 NOT PRESENT 3 REFUSED 4 OTHER 6 (SKIP TO 130)	NOT PRESENT 3— REFUSED 4—	BELOW 8.0 G/DL, SEVERE ANEMIA 1 8.0 G/DL OR ABOVE 2 NOT PRESENT 3 REFUSED 4 OTHER 6 (SKIP TO 130)
129	SEVERE ANEMIA REFERRAL RECORD THE RESULT OF THE ANEMIA TEST ON THE REFERRAL FORM.	The anemia test shows that (NAN be taken to a health facility imme	/IE OF CHILD) has severe anemia diately.	ı. Your child is very ill and must
130	GO BACK TO 103 IN NEXT COLUMN OF IF NO MORE CHILDREN, GO TO 201.	THIS QUESTIONNAIRE OR IN T	HE FIRST COLUMN OF AN ADD	ITIONAL QUESTIONNAIRE;

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

201	ELIGIBLE WOMEN IN	HOUSEHOLD QUESTIONNAIRE. RECORD THE LINE NUMBER, NAME, AGE, AND MARITAL STATUS FOR ALL 02, 203, AND 204. [THAN THREE WOMEN, USE ADDITIONAL QUESTIONNAIRE(S).			
		WOMAN 1	WOMAN 2	WOMAN 3	
202	CHECK HOUSEHOLD QUESTIONNAIRE: LINE NUMBER FROM COLUMN 9. NAME FROM COLUMN 2.	LINE NUMBER	LINE NUMBER	LINE NUMBER	
203	CHECK HOUSEHOLD QUESTIONNAIRE COLUMN 7 (AGE):	15-17 YEARS	15-17 YEARS	15-17 YEARS	
204	CHECK HOUSEHOLD QUESTIONNAIRE COLUMN 8 (MARITAL STATUS):	CODE 4 (NEVER IN UNION) . 1 OTHER 2	CODE 4 (NEVER IN UNION) . 1 OTHER 2	CODE 4 (NEVER IN UNION) . 1 OTHER 2	
205	WEIGHT IN				
205	WEIGHT IN KILOGRAMS.	KG	KG	KG	
		NOT PRESENT 99994 REFUSED 99995 OTHER 99996	NOT PRESENT 99994 REFUSED 99995 OTHER 99996	NOT PRESENT 99994 REFUSED 99995 OTHER 99996	
206	HEIGHT IN CENTIMETERS.	СМ	СМ	CM	
		NOT PRESENT 9994 REFUSED 9995 OTHER 9996	NOT PRESENT 9994 REFUSED 9995 OTHER 9996	NOT PRESENT 9994 REFUSED 9995 OTHER 9996	
207	MEASURER: ENTER YOUR FIELDWORKER NUMBER.	FIELDWORKER NUMBER	FIELDWORKER NUMBER	FIELDWORKER NUMBER	
208	CHECK 203: AGE	15-17 YEARS	15-17 YEARS	15-17 YEARS	
209	CHECK 204: MARITAL STATUS	CODE 4 (NEVER IN UNION) . 1 (SKIP TO 216) CTHER 2	CODE 4 (NEVER IN UNION) . 1 (SKIP TO 216) CTHER 2	CODE 4 (NEVER IN UNION) . 1 (SKIP TO 216) - 2	

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

		1	WOMAN 1	WOMAN 2	WOMAN 3
		NAME FROM COLUMN 2.	NAME	NAME	NAME
•					
		АГ	OULT RESPONDENT CO	DNSENT FOR ANEMIA	TEST
ADULT RESPORDERT	210	ASK CONSENT FOR ANEMIA TEST.	problem that usually results from poor to develop programs to prevent and tree. For the anemia testing, we will need a clean and completely safe. It has nevel blood will be tested for anemia immed.	few drops of blood from a finger. The er er been used before and will be thrown a liately, and the result will be told to you ri red with anyone other than members of	This survey will assist the government quipment used to take the blood is away after we take your blood. The ight away. The result will be kept
	211	CIRCLE THE CODE AND SIGN YOUR NAME.	GRANTED	GRANTED	GRANTED
	211A	CHECK 226 IN WOMAN'S QUESTIONNAIRE OR ASK: Are you pregnant?	YES	NO 2- DON'T KNOW 8	YES
	216	NAME AND RELATIONSHIP TO THE ADOLESCENT OF ADULT RESPONSIBLE FOR THEM. GET LINE NUMBER FROM COLUMN 1 OF HOUSEHOLD SCHEDULE.	RELATIONSHIP TO THE ADOLESCENT	RELATIONSHIP TO THE ADOLESCENT	RELATIONSHIP TO THE ADOLESCENT
			(RECORD '00' IF NOT LISTED)	(RECORD '00' IF NOT LISTED)	(RECORD '00' IF NOT LISTED)
_		PARFNT			,
PARENT RESP ADULT	217	PARENT ASK CONSENT FOR ANEMIA TEST FROM PARENT/ADULT.	AL/RESPONSIBLE ADL As part of this survey, we are asking p problem that usually results from poor to develop programs to prevent and tre For the anemia testing, we will need a clean and completely safe. It has neve tested for anemia immediately, and the	people all over the country to take an and nutrition, infection, or chronic disease. The eat anemia. If ew drops of blood from a finger. The ear been used before and will be thrown a general twill be told to you and (NAME Of the shared with anyone other than mention decide.	emia test. Anemia is a serious health This survey will assist the government quipment used to take the blood is away after each test. The blood will be F MINOR) right away. The result will

WEIGHT, HEIGHT, AND HEMOGLOBIN MEASUREMENT FOR WOMEN AGE 15-49

	WOMAN 1	WOMAN 2	WOMAN 3
NAME FROM COLUMN 2.	NAME	NAME	NAME

L					
		M I	INOR RESPONDENT CO	ONSENT FOR ANEMIA	TEST
MINOR RESPONDEN	219	ASK CONSENT FOR ANEMIA TEST FROM RESPONDENT.	problem that usually results from poor to develop programs to prevent and tree. For the anemia testing, we will need a clean and completely safe. It has nevel blood will be tested for anemia immediate.	few drops of blood from a finger. The ere been used before and will be thrown a liately, and the result will be told to you a liht away. The result will be kept strictly crvey team.	This survey will assist the government equipment used to take the blood is away after we take your blood. The and (NAME OF
NT CONSENT	220	CIRCLE THE CODE AND SIGN YOUR NAME.	GRANTED 1 7 MINOR RESPONDENT REFUSED 2 7 (SIGN) (IF REFUSED, SKIP TO 233) NOT PRESENT/OTHER 3 7 (SKIP TO 233)	GRANTED 17 MINOR RESPONDENT REFUSED 27 (SIGN) (IF REFUSED, SKIP TO 233) NOT PRESENT/OTHER 37 (SKIP TO 233)	GRANTED 17 MINOR RESPONDENT REFUSED 27 (SIGN) (IF REFUSED, SKIP TO 233) NOT PRESENT/OTHER 37 (SKIP TO 233)
	220A	CHECK 226 IN WOMAN'S QUESTIONNAIRE OR ASK: Are you pregnant?	YES	YES	YES
Г					
	229	PREPARE EQUIPMENT AND SUPPLIES ONLY FOR THOSE FOR WHICH CONSENT HAS BEEN OBTAINED AND PROCEED WITH THE TEST.			
	231	RECORD HEMOGLOBIN LEVEL HERE AND IN ANEMIA PAMPHLET.	G/DL	G/DL	G/DL
	233	GO BACK TO 202 IN NI IF NO MORE WOMEN,	EXT COLUMN OF THIS QUESTIONNA , END INTERVIEW.	IRE OR IN THE FIRST COLUMN OF A	N ADDITIONAL QUESTIONNAIRE;

FIELDWORKER'S OBSERVATIONS

TO BE FILLED IN AFTER COMPLETING BIOMARKERS

SUPERVISOR'S OBSERVATIONS
EDITOR'S OBSERVATIONS

NIGERIA DEMOGRAPHIC AND HEALTH SURVEY 2018 FIELDWORKER QUESTIONNAIRE

NIGERIA
NATIONAL POPULATION COMMISSION

LANGUAGE OF QUESTIONNAIRE ENGLISH

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
100	What is your name?		
	•		
		NAME	
101	RECORD FIELDWORKER NUMBER		
101	NEOOND FILEDWONNER NOWBER	NUMBER	
INSTRU	ICTIONS		
Informat	tion on all Nigeria DHS field workers is collected as part of the	Nigeria DHS survey. Please fill out the questions below. The	
informat	ion you provide will be part of the survey data file; however, yo	our name will be removed and will not be part of the data file. T	nank you
for provi	ding the information needed.		
102	In what state do you live?	ABIA01	<u> </u>
102	in what state do you live:	ADAMAWA02	
		AKWA IBOM	
		ANAMBRA04	
		BAUCHI05	
		BAYELSA06	
		BENUE 07	
		BORNO08	
		CROSS RIVER	
		DELTA 10	
		EBONYI 11	
		EDO12	
		EKITI 13	
		ENUGU 14	
		FCT-ABUJA	
		GOMBE	
		IMO 17 JIGAWA 18	
		KADUNA 19 KANO 20	
		KATSINA	
		KEBBI	
		KOGI	
		KWARA 24	
		LAGOS	
		NASARAWA 26	
		NIGER 27	
		OGUN 28	
		ONDO 29	
		OSUN 30	
		OYO 31	
		PLATEAU32	
		RIVERS	
		SOKOTO	
		TARABA	
		YOBE	
		ZAMFARA 37	
103	Do you live in a city, town, or rural area?	CITY 1	_
100	20 you live in a only, town, or rular alou:	TOWN 2	
		RURAL 3	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
104	How old are you? RECORD AGE IN COMPLETED YEARS.	AGE	
105	Are you male or female?	MALE	
106	What is your current marital status?	CURRENTLY MARRIED 1 LIVING WITH A MAN/WOMAN 2 WIDOWED 3 DIVORCED 4 SEPARATED 5 NEVER MARRIED OR LIVED WITH A MAN/WOMAN 6	
107	How many living children do you have? INCLUDE ONLY CHILDREN WHO ARE YOUR BIOLOGICAL CHILDREN.	LIVING CHILDREN	
108	Have you ever had a child who died?	YES	
109	What is the highest level of school you attended: primary, secondary, or higher?	PRIMARY 1 SECONDARY 2 HIGHER 3	
110	What is the highest class/year you completed at that level? IF COMPLETED LESS THAN ONE YEAR AT THAT LEVEL, RECORD '00'.	CLASS/YEAR	
111	What is your religion?	CATHOLIC 01 OTHER CHRISTIAN 02 ISLAM 03 TRADITIONALIST 04 NO RELIGION 95 OTHER 96 (SPECIFY)	
112	What is your ethnicity?	ETHNICITY	
113	What languages can you speak? RECORD ALL LANGUAGES YOU CAN SPEAK.	ENGLISH A HAUSA B YORUBA C IGBO D URHOBO E IBIBIO F EDO G FULFULDE H KANURI I OTHER X (SPECIFY)	

NO.	QUESTIONS AND FILTERS	CODING CATEGORIES	SKIP
114	What is your mother tongue/native language (language spoken at home growing up)?	ENGLISH 01 HAUSA 02 YORUBA 03 IGBO 04 URHOBO 05 IBIBIO 06 EDO 07 FULFULDE 08 KANURI 09 OTHER 96 (SPECIFY)	
115	Have you ever worked on a DHS survey prior to this one?	YES	
116	Have you ever worked on any other survey prior to this one (not a DHS)?	YES	
117	Were you already working for the National Population Commission (NPC) at the time you were employed to work on this DHS?	YES 1 NO 2	→ 119
118	Are you a permanent or temporary employee of the National Population Commission (NPC)?	PERMANENT 1 TEMPORARY 2	
119	If you have comments, please write them here.		

ADDITIONAL DHS PROGRAM RESOURCES

The DHS Program Website – Download free DHS reports, standard documentation, key indicator data, and training tools, and view announcements.	DHSprogram.com	
STATcompiler – Build custom tables, graphs, and maps with data from 90 countries and thousands of indicators.	Statcompiler.com	
DHS Program Mobile App – Access key DHS indicators for 90 countries on your mobile device (Apple, Android, or Windows).	Search DHS Program in your iTunes or Google Play store	
DHS Program User Forum – Post questions about DHS data, and search our archive of FAQs.	userforum.DHSprogram.com	
Tutorial Videos – Watch interviews with experts and learn DHS basics, such as sampling and weighting, downloading datasets, and how to read DHS tables.	www.youtube.com/DHSProgram	
Datasets – Download DHS datasets for analysis.	DHSprogram.com/Data	
Spatial Data Repository – Download geographically-linked health and demographic data for mapping in a geographic information system (GIS).	spatialdata.DHSprogram.com	
Social Media – Follow The DHS Program and join the	conversation. Stay up to date through	gh:
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