# B20-B21-B22-B23-B24 AIDS

(Acquired Immuno-Deficiency Syndrome)

RAT	IONALE FOR SURVEILLANCE
	AIDS is a disease targeted for reduced incidence, prevalence and smission (9GPW, target 6.3). Control measures are based on prevention and e strategies. Surveillance is necessary to assess national needs in education,
sup	plies, and health care and to anticipate spread in the community.
	veillance will provide epidemiological data used for national prevention and e plan and will be essential to evaluate the impact of control activities.
	COMMENDED CASE DEFINITIONS
pop	Different case definitions are used in different countries, depending on ulation factors (children, adults, relative occurrence of opportunistic
infe	ctions) and on the laboratory infrastructure and training available. Current e definitions include:
•	) CDC 1987 (4) WHO for surveillance (formerly
•	) CDC/CD4 Bangui/WHO/clinical) ) European (5) Expanded WHO for surveillance
(0	(formerly Abidjan)
	(6) Caracas/PAHO & revised Caracas/PAHO
(1	-3: for sophisticated laboratory facilities) (4-6: for limited laboratory facilities)
1. 2.	Revision of the CDC surveillance case definition for the Acquired Immune Deficiency Syndrome. <i>Morbidity and Mortality Weekly Record</i> , August 14, 1987, <b>36</b> (suppl.): 1S-15S. Case definitions for infectious conditions under public health surveillance. <i>Morbidity and</i> <i>Mortality Weekly Record</i> , May 2, 1987, <b>36</b> (RR-10): 5-6.
3. 4.	ANCELLE-PARK R. Expanded European AIDS case definition. <i>Lancet</i> , 1993; <b>341</b> : 441. <i>AIDS Surveillance in Europe,</i> Quarterly Report, 1993 (37). BUEHLER JW, DE COCK K, BRUNET J-B. Surveillance definitions for AIDS. <i>AIDS</i> 1993,
7.	<b>7</b> (suppl. 1): S73-S81. WHO case definitions for AIDS surveillance in adults and adolescents. <i>Weekly</i>
5.	<i>Epidemiological Record</i> , 1994, <b>69</b> (37): 273-275. Grupo de trabajo sobre definición de casos de SIDA. <i>Boletin epidemiologico de la OPS</i> ,
	1989, <b>10</b> (4): 9-11 / Working group on AIDS case definition, <i>PAHO Epidemiological Bulletin</i> , 1989, <b>10</b> (4): 9-11.
	WENIGER BG, QUINHOES EP, SERENO AB, <i>et al.</i> A simplified surveillance case definition of AIDS derived from empirical clinical data. The Clinical AIDS Study Group, and the Working Group on AIDS case definition. <i>Journal of Acquired Immune Deficiency Syndromes</i> , 1992, <b>5</b> (12): 1212-1223.
6.	BUEHLER JW, DE COCK K, BRUNET J-B. Surveillance definitions for AIDS. <i>AIDS</i> 1993, <b>7</b> (suppl. 1): S73-S81.
1.	1987 CDC SURVEILLANCE DEFINITION FOR AIDS
1A	<ul> <li>Without laboratory evidence of HIV infection (no other causes of immune suppression)</li> </ul>
	Indicator disease diagnosed definitively
	Candidiasis of the oesophagus, trachea, bronchi, or lungs
	Cryptococcosis, extrapulmonary
	Cryptosporidiosis with diarrhoea persisting >1 month Cytomegalovirus diseases of an organ other than liver, spleen, or lymph
no	des in patient >1 month of age
	Herpes simplex virus infection causing a mucocutaneous ulcer persisting month; or bronchitis, pneumonitis, or oesophagitis for any duration in a ient >1 month of age
	Kaposi sarcoma in a patient <60 years of age
oth	Lymphoma of the brain (primary) affecting a patient <60 years of age <i>Mycobacterium avium</i> complex or <i>M. kansasii</i> disease, disseminated (site er than/in addition to lungs, skin, cervical or hilar lymph nodes)
	Pneumocystis carinii pneumonia
	Progressive multifocal leukoencephalopathy

Toxoplasmosis of the brain in a patient >1 month of age In children <13: 2 or more bacterial infections within a 2-year period (septicaemia, pneumonia, meningitis, bone or joint infections) or abscess of an internal organ or body cavity – excluding otitis media or superficial abscesses.		
1B. With laboratory evidence of HIV infection		
Indicator disease diagnosed definitively		
Coccidioidomycosis, disseminated (at a site other than or in addition to lungs		
or cervical or hilar lymph nodes)		
HIV encephalopathy		
Histoplasmosis, disseminated (other than or in addition to lungs or cervical or hilar lymph nodes)		
Isosporiasis with diarrhoea persisting >1 month		
Kaposi sarcoma at any age		
Lymphoma of the brain (primary) at any age		
Non-Hodgkin's lymphoma		
Any mycobacterial disease caused by other than <i>M. tuberculosis</i> , disseminated		
Disease caused by <i>M. tuberculosis</i> , extrapulmonary		
Salmonella (non-typhoid) septicaemia, recurrent		
HIV wasting syndrome		
Indicator disease diagnosed presumptively		
Candidiasis of the oesophagus		
Cytomegalovirus retinitis with loss of vision		
Kaposi sarcoma		
Mycobacterial disease, disseminated		
Pneumocystis carinii pneumonia		
Toxoplasmosis of the brain in patient >1 month of age		
In children <13: lymphoid interstitial pneumonia and/or pulmonary lymphoid		
hyperplasia.		
2. CONDITIONS ADDED TO CDC SURVEILLANCE DEFINITION FOR		
AIDS WITH LABORATORY EVIDENCE OF HIV INFECTION (1B		

above)

In addition to those in the surveillance definition:

- CD4+ T-lymphocyte count <200 x 10<sup>6</sup>/litre (or a CD4 percentage <14%)
- Pulmonary tuberculosis
- Cervical cancer, invasive
- Recurrent pneumonia (more than one episode within a 12-month period)

# 3. EUROPEAN AIDS CASE DEFINITION

Same as revised CDC definition (2 above) without CD4+ T-lymphocyte count.

# 4. WHO CASE DEFINITION FOR AIDS SURVEILLANCE (formerly BANGUI/WHO/CLINICAL)

WHO clinical case definition for AIDS in an adult or adolescents (>12 years of age) when diagnostic resources are limited. For the purposes of AIDS surveillance an adult or adolescent (>12 years of age) is considered to have AIDS if at least 2 of the following major signs are present in combination with at least 1 of the minor signs listed below, and if these signs are not known to be related to a condition unrelated to HIV infection.

Major signs (2 signs or more):

- Weight loss ≥10% of body weight
- Chronic diarrhoea for >1 month
- Prolonged fever for >1 month (intermittent or constant)

**Required point score** 

<ul> <li>Minor signs (1 or more):</li> <li>Persistent cough for &gt;1 month</li> <li>Generalized pruritic dermatitis</li> <li>History of herpes zoster</li> <li>Oropharyngeal candidiasis</li> <li>Chronic progressive or disseminated herpes virus infection</li> <li>Generalized lymphadenopathy</li> <li>The presence of either generalized Kaposi sarcoma or cryptococcal</li> </ul>				
meningitis is sufficient for the diagnosis of AIDS for surveillance purposes.				
5. EXPANDED WHO CASE DEFINITION FOR AIDS SURVEILLA	NCE			
(formerly ABIDJAN)				
<ul> <li>For the purpose of epidemiological surveillance, an adult (&gt;12 years is considered to have AIDS if a test for HIV antibody shows positive result one or more of the following are present: <ul> <li>10% body weight loss or cachexia, with diarrhoea or fever, or both intermittent or constant, for at least 1 month, not known to be due condition unrelated to HIV infection</li> <li>Cryptococcal meningitis</li> <li>Pulmonary or extra-pulmonary tuberculosis</li> <li>Kaposi sarcoma</li> <li>Neurological impairment sufficient to prevent independent daily advantage.</li> </ul> </li> </ul>	s, and n, to a			
<ul> <li>not known to be due to a condition unrelated to HIV infection (for example, trauma or cerebrovascular accident)</li> <li>Candidiasis of the oesophagus (which may presumptively be diag based on the presence of oral candidiasis accompanied by dysph</li> <li>Clinically diagnosed life-threatening or recurrent episodes of pneu with or without etiological confirmation</li> <li>Invasive cervical cancer</li> </ul>	agia)			
6. REVISED CARACAS/PAHO AIDS DEFINITION				
<ul> <li>A patient is defined as having AIDS when:</li> <li>cumulative points assigned for conditions listed hereafter equal or exceed 10, and</li> <li>HIV serology is positive</li> <li>Cases in which the total point score equals or exceeds the required s of 10, but HIV serology is pending are considered "provisional cases". Per with cancer, or with immunosuppressive therapies, or where the sign / syn are attributed to conditions other than HIV infection are excluded.</li> </ul>	score sons			
Symptoms / signs / diagnosis points ass	-			
Kaposi sarcoma10Disseminated / extrapulmonary / non-cavitary pulmonary tuberculosis10Oral candidiasis / hairy leukoplakia5Pulmonary tuberculosis with cavitation, or unspecified5Herpes zoster $\leq 60$ years age5Central nervous system dysfunction5Fever( $\geq 38^{\circ}$ C) $\geq 1$ month2Cachexia or >10% weight loss2				
Asthenia ≥1 month Persistent dermatitis Anaemia, lymphopenia, and/or thrombocytopenia Persistent cough or any pneumonia (except tuberculosis) for ≥1month Lymphadenopathy ≥1 cm at ≥2 non-inguinal sites	2 2 2 2 2			

≥10

Contact regional / National AIDS programmes for the case definition in use in a given country.

#### Case classification

- Depends on the case definition.
  - Please check with National AIDS programmes.

### **RECOMMENDED TYPES OF SURVEILLANCE**

Routine monthly reporting of aggregated data from periphery to intermediate level.

Routine quarterly reporting of aggregated data from intermediate level to central level.

International: report updates every 12 months in the *Weekly Epidemiological Record* 

#### Other sources of data:

- Hospitals
- Practitioners
- Tuberculosis wards
- Mortality reports and statistics
- Active case finding

# **RECOMMENDED MINIMUM DATA ELEMENTS**

#### Case-based data for reporting

• Unique identifier, age, sex, geographical area, mode of transmission (e.g., blood transfusion, drug use, other)

#### Aggregated data for reporting

• Number of cases by age and sex, number of cases, mode of transmission (e.g., blood transfusion, drug use, other)

#### **RECOMMENDED DATA ANALYSES, PRESENTATION, REPORTS**

Graphs:	Number of cases by age, sex, geographical area, risk factors.
Tables:	Number of cases by age, sex, geographical area, risk factors.
Maps:	Number of cases by geographical area.

#### PRINCIPAL USES OF DATA FOR DECISION-MAKING

- Assess the magnitude of the problem
- Identify high risk areas for further intervention
- Plan public health measurements
- Assess impact on clinical services
- Plan health care services and supplies
- Validate HIV surveillance data

# SPECIAL ASPECTS

Use of HIV surveillance (see page 56) for forecasting AIDS incidence.

# CONTACT

#### **Regional Offices**

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