



Republic of Kenya

**Kenya**  
**Essential**  
**Medical**  
**Supplies**  
**List 2016**

Ministry of Health



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# Kenya Essential Medical Supplies List 2016

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<sup>1</sup> Proposals for amendments to the list should be submitted using the KEMSL Proposed Amendment Form (p39)

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## Foreword

This Kenya Essential Medical supplies List (KEMSL) is published for the first time in conjunction with the fifth edition of the Kenya Essential Medicines List (KEML). Together, they comprise critical tools in supporting the provision of the Kenya Essential Package for Health (KEPH<sup>2</sup>), which is a core strategy for reversing the declining trends in the country's health status.

Like the KEML, the KEMSL is an investment guide - a guide for the investment of healthcare funds in financing the most appropriate medical supplies to achieve therapeutic aims in response to prioritised public health need.

It is also meant to guide policy, focus of attention and resources (time, financial, technical and human) in areas and activities which support the above aims, such as training, quality assurance, financing & insurance, regulation & monitoring, appropriate use, operational research and local production.

As such the KEMSL must be fully responsive to the aims and objectives of national health policies and strategies. It represents a major advance in the continuing efforts to improve health services provision in the health sector, through public, private and faith-based providers.

The KEMSL is a further key tool for use in efforts to attain equity and high standards in healthcare. It is intended to guide the development, production, procurement and supply, use of medical supplies and devices, as well the development, monitoring and evaluation of strategies aimed at improving access to, and appropriate utilisation of Essential Medical Supplies in Kenya.

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<sup>2</sup> For details of KEPH see Health Sector Strategic and Investment Plan (KHSSP) July 2013-June 2017, The Second Medium Term Plan for Health: Transforming Health: Accelerating Attainment of Health Goals

(Available at [http://www.who.int/pmnch/media/events/2013/kenya\\_hssp.pdf](http://www.who.int/pmnch/media/events/2013/kenya_hssp.pdf))

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It is for use by *all disciplines* of healthcare workers, general practitioners, specialists and healthcare management personnel as well as students and interns.

It is meant to guide medical supplies investments for *all relevant actors* in Kenya and represents best practice in the selection of medical supplies for optimum therapeutic outcomes. Therefore, it is applicable to, and recommended for use by policymakers and public sector providers at national and county levels, by private, faith-based and NGO actors, and by development partners.

The listing of medical supplies in a national list such as the KEMSL is only the initial step of a series of measures which must be implemented to ensure that the expected benefits and substantial health impact are realised.

Given its critical importance, the Ministry of Health is committed to support the KEMSL and to institutionalize the underlying principles and concepts, in respect of evidence-based priority-setting for medical supplies and other health technologies.

In preparing this KEMSL, it is gratifying to note the successful application of a meticulous, systematic, consensus-achieving process. This has resulted in a highly-relevant and up-to-date list reflecting current best clinical and therapeutic practice and adapted to the prevailing health sector context.

This arduous and technically complex task has been only been completed so well through the sustained commitment and excellent work of many individuals who contributed their time and expertise to develop the KEMSL.

On behalf of the Ministry of Health, we acknowledge and sincerely thank all the contributors, the reviewers and the editor who made this



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KEMSL a reality<sup>3</sup>. I would also like to acknowledge the technical guidance and the financial support provided by MSH in compiling this KEMSL.

The regular and consistent use of the KEMSL can be expected to improve healthcare in Kenya and to enhance Appropriate Medical Supplies Use (AMSU) by healthcare workers, health managers, patients and the public thereby contributing to the attainment of the Sustainable Development Goals (SDGs) and the Vision 2030 Goal of 'creating an enabling environment for the provision of sustainable quality healthcare that is cost-effective and accessible to all Kenyans'.

We strongly encourage all health professionals to make the best use of this KEMSL in their daily work, to provide feedback on its use, and any suggestions towards its improvement and future revisions.



**Dr Cleopa Mailu**  
Cabinet Secretary for Health

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<sup>3</sup> See Annex 1, p35 for a list of all those involved



# Preface

## Rationale for Development of the KEMSL

Management of medical supplies, devices and technologies is key to the effective and efficient provision of quality healthcare services. This first edition of KEMSL provides a critical reference tool to inform managers and administrators of health institutions of the existence and recommended utilisation of the essential supplies list.

Health is a highly dynamic field, with new approaches, treatment protocols and therapeutic products entering the market on a continuous basis, therefore, the KEMSL is developed to standardize health care procurement and delivery of essential supplies and commodities for purposes of equity, access, affordability and availability.

## Comprehensive Service Delivery Approach

The review of the 1st National Health sector Strategic Plan (NHSSP I) in 2004 highlighted, amongst other issues, evidence of stagnating or downward trends in health indicators, especially in key areas of maternal, newborn and child health. To respond to this worrying trend, the health sector in Kenya initiated an accelerated reform process to halt, and then reverse this trend. The reform process is enshrined in NHSSP II, whose mid-term goal is “to reduce health inequalities and reverse the downward trends in health-related outcome and impact indicators”. Key tenets of this Plan are to increase equitable access to healthcare services; to improve the quality, responsiveness, efficiency and effectiveness of service delivery; to foster partnerships in health and to improve financing of the health sector.

As part of the reform process, the sector elaborated clear operational approaches to enable it achieve its strategic objectives. Among these are comprehensive, multi-level service delivery approach to guide investment priorities at *community, dispensary/health centre and hospital* levels; the form and content of clinical management and pharmaceutical services to be provided at each level; standardized

medical supplies, devices and technologies; the service standards to be attained and other inputs required to provide the services. Investment plans now guide multi-year prioritization for key areas of the sector<sup>4,5</sup>. The sector also defined health service norms and standards<sup>6</sup> comprising the human resource, infrastructure, equipment and financing inputs required to ensure efficient and effective delivery of healthcare services to the population.

### **The Kenya Essential Package for Health (KEPH)**

KEPH<sup>7</sup> is a life-cohort based approach to the delivery of healthcare services, which defined in a comprehensive manner, the services which the sector is to prioritize so as to maintain health at all the different stages of life. It defines the priority services that are necessary to be provided at 6 distinct levels of care – from the community level up to tertiary hospitals - for each of 6 defined life cohorts: pregnancy and the newborn (up to 2 weeks), early childhood (to 5 years), late childhood (6-12 years), adolescence and youth (13-24 years), adulthood (25-59 years) and the elderly (60+ years).

KEPH also provides the framework for referral of clients across the sector providers, and it aims to improve utilization of health services at lower levels of care, beginning at the community level, as well as networking among providers and facilities across the different levels and between the public and non-public providers. KEPH also guides the types of medicines and other health inputs to be made available at each level and for each cohort, in line with the services to be provided and the corresponding expertise for the level, as defined in the sector norms and standards.

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<sup>4</sup> *Strategic Plan 2008-2012*, Ministry of Medical Services, Nairobi, Kenya, July 2008

<sup>5</sup> *Strategic Plan 2008-2012*, Ministry of Public Health and Sanitation, Nairobi, Kenya, December 2008.

<sup>6</sup> *The Second Health Sector Strategic Plan - Norms and Standards for Health Service Delivery in Kenya*, Ministry of Health, Nairobi, Kenya, 2006.

<sup>7</sup> *The Second National Health Sector Strategic Plan of Kenya – The Kenya Essential Package for Health*, Ministry of Health, Nairobi, 2007

The KEMSL has endeavored to align with these strategic orientations in the health sector.

### **KEMSL Development Process**

The document was developed through a careful, systematic and consultative process undertaken by a representative Technical Working Group (TWG) of the National Medicines and Therapeutics Committee<sup>8</sup> (NMTC) that was selected and appointed by the Director of Medical Services.

The TWG comprised 12 members drawn from clinical practice at primary and secondary care facilities, and from policy level<sup>9</sup>. They represented a broad mix of medical supplies expertise from nursing and diagnostics to imaging, oral health and rehabilitation. The TWG was answerable to the NMTC which is chaired by the DMS.

In undertaking the exercise of compiling the first Essential Medical Supplies List in Kenya, the TWG held two 3-day retreats. The first was to develop and agree on the Standard Operating procedure (SOP) to be applied, understand the guiding principles, including the context of selection of medical supplies taking into consideration the right of Kenyans to health as enshrined in the Constitution as well as Kenyan blue print to development, *Vision 2030* and application of the multiple selection criteria<sup>10</sup>. The outcome of this retreat was a zero draft list.

This was followed a month later by a second retreat to review and further develop the zero draft. In order to resolve the few remaining issues, the TWG subsequently held several consultations with key resource persons in the relevant speciality areas, which provided valuable further inputs to the list.

The whole process was undertaken based on the mandate from the Kenya Health Policy whose goal is to ‘attain the highest possible standard of health in a responsive manner’ and in response to the policy objective ‘provide essential healthcare’.

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<sup>8</sup> See Annex 5, p42 for more information on the NMTC

<sup>9</sup> See Annex 4, p41 for the TWG TORs

<sup>10</sup> See p3

The TWG applied the principles of efficiency and cost-effectiveness in application of health technologies with the aim of ‘ensuring that effective, safe, and affordable health products and technologies are available and rationally used at all times’.

The TWG received substantial support, and utilized key reference material from work that had been done by, MEDS, MSH and KEMSA, which greatly facilitated the work.

The final draft was subjected to further review at a stakeholder meeting which was followed by final compilation and extensive editorial work.

In summary, the KEMSL is the product of a meticulous, scientific and harmonious process that involved careful application of defined criteria, and evidence-based decision-making, in line with current best practice.

### **KEMSL Revision & Amendment Procedure**

Essential medical supplies lists should be regularly updated to keep pace with best practice, optimize investments in healthcare and maintain continuing relevance and usefulness. So mechanisms for the monitoring, systematic review and revision should be put in place to keep updating the KEMSL.

To respond to this need, it is planned that a new edition of the KEMSL will be produced at least once every 2 years depending on the nature and extent of cumulative amendments required. Urgent interim amendments will be disseminated as required through the already established health sector coordination forums and other mechanisms for communication with health care providers.

The review and revision of future editions of the KEMSL will be coordinated by the National Medicines & Therapeutics Committee (NMTC). In this strictly evidence-based process, the NMTC will be well guided by:

- feedback obtained from operational research on KEMSL use in each of the key management areas identified in the **Main Uses of an EMSL** (see p4)
- reports on KEMSL use obtained through feedback by users and during the course of supportive supervision

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- New information from manufacturers and suppliers about their products
- New information obtained through quality assurance activities such as post-market surveillance
- MoH-approved changes in disease management protocols (with concurrent changes to the relevant Clinical Guidelines)
- results of other relevant health research into disease management and medical supplies, devices and technologies utilisation.
- KEMSL Amendment Proposal Forms (see p39) received from users

In order to understand fully the relevance and wide range of application of the KEMSL, readers are urged to become familiar with the **Main Uses of an EMSL** as summarised on p4 and to study the **Selection Criteria** used as listed on p3. This will surely enrich the continuous review & revision needed to keep the KEMSL revised, relevant and useful as a tool for improving the quality, reliability and cost-effectiveness of health care services.





## Presentation of Information

Items on the KEMSL are listed by broad categories (Sections): general medical supplies, radiological supplies, oral health supplies, rehabilitative supplies.

Within each Section, items are listed in alphabetical order.

The List represents the priority needs for the health-care system. Items on the List are:

- Considered to be the most efficient, safe and cost-effective for the relevant category
- Expected to be routinely available in health facilities (at the appropriately designated levels of care)
- Expected to be affordable to the majority of the population. All efforts should be made to ensure **equitable access** to supplies and devices on the List.

Priority essential medical supplies and devices were identified on the basis of current and anticipated future public health relevance and their potential for appropriate use in safe and effective patient management.

### Level of Use

This indicates the lowest level of the health system at which each particular medical commodity and/or device may reasonably be expected to be appropriately used (ie. after correct diagnosis and a correct decision on management of the condition according to current best clinical practice).

It is thus the *lowest level* at which the medical supply or device is expected to be available for use (ie. distributed, stored, prescribed, requisitioned, issued).

The current levels are as follows:

- 1 = Community Health Services
- 2 = Dispensary/Clinic
- 3 = Health Centre

4 = Primary Hospital<sup>11</sup>

5 = Secondary Hospital<sup>12</sup>

6 = Tertiary Hospital<sup>13</sup>

## Abbreviations & Acronyms

### Used in text:

EMS	Essential Medical Supplies
EMSL	Essential Medical Supplies List
KEPH	Kenya Essential Package for Health
MTC	Medicines & Therapeutics Committee (Institutional)
NMTC	National MTC
TWG	Technical Working Group

### Used in the KEMSL table:

CH	French gauge
FG	French gauge or Friction Grip
g	Gram
G	Gauge
H	Height
HP	High performance
L	Length or Litre
m	Metre
pcs	pieces
PGA	Polyglycolic acid
PMMA	Polymethylmethacrylate
ppm	Parts per million
RBN	Round-bodied needle
RC(N)	Reverse cutting (needle)
SS	Stainless steel
W	Width

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<sup>11</sup> Formerly District Hospitals, now (Sub-)County Hospitals

<sup>12</sup> Formerly Provincial Hospitals, now County Referral Hospitals

<sup>13</sup> National (Referral) Hospitals

# Essential Medical Supplies list (EMSL)

## Background Information

### Enhancing Access to Essential Medical Supplies (EMS)

Access to Essential Medical Supplies is a core component of the *right to health*, and a requisite to the attainment of national health goals. This Kenya Essential Medical Supplies List (KEMSL) defines the priority focus for investment in medical supplies by the health sector, towards ensuring the provision of equitable healthcare to the population in line with defined sector strategies, norms and standards.

As the key guiding principles are the same, the KEMSL is based on the Concept of **Essential Medicines**, defined by WHO as:

- those that meet **priority health care needs** of the population
- carefully and systematically selected using an *evidence-based process* with due regard to:
  - **public health relevance**
  - clear evidence on **efficacy**<sup>14</sup> and **safety**
  - comparative **cost-effectiveness**
- meant to be always available in a functioning health-care system:
  - in **adequate amounts**
  - in **appropriate forms**
  - with **assured quality** and **adequate information**
  - at an **affordable price** for the individual & community

### Benefits of an EMSL to a Country

#### Priority Setting

The EMSL represents priority-setting on two levels: careful identification of the priority health interventions, and the careful selection of a limited range of EMS results in a higher quality of care, better medical supplies management (including improved quality) and more cost-effective use of health resources

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<sup>14</sup> For medical supplies the terms 'effectiveness' or 'performance' may be substituted

## General

- It is expected that with proper use of the EMS list there will be positive impact within health-care systems. This is very important in resource-scarce settings where public sector medical supplies availability is often erratic
- Measures to ensure regular EMS supply will result in real health gains and in increased public confidence in health services and government of the day

## Specific

- **Supply system:** use of an EMSL leads to easier and more-efficient procurement, storage, distribution, stock management & record keeping; lower stocks (smaller item range, predictable procurement with reduced level of safety stocks); better quality assurance (can focus on fewer items); easier prescribing, requisitioning and issuance (greater familiarity with fewer items); more effective local production (efficiency in producing fewer items for a more predictable market)
- **Prescribing/Requisitioning:** use of an EMSL enables user training to more focused and easier to deliver, more experience to be gained with fewer medical supplies, and production of more focused medical supplies information.
- **Cost:** use of an EMSL should lead to lower treatment costs (through selection of the most cost-effective items), more competition (through identification of key items for national investment and therefore a substantial market for potential suppliers) and lower supplies management costs (fewer items to manage)
- **Patient Use:** use of an EMSL will result in focused education efforts on fewer, well known medical supplies, improved patient knowledge on their use, increased adherence to recommended use, and improved medical supplies availability

## Essential Medical Supplies Selection Criteria

Inclusion of a medical supplies item on the EMSL should be considered if the commodity, as far as reasonably possible, meets the following criteria:

1. **Relevance/Need:** *Public health relevance and contributes towards meeting the priority health care needs of the population*
2. **Safety:** *Scientifically proven and acceptable safety (side-effects & toxicity) in its expected way of use*
3. **Comparative Effectiveness/Performance:** *Proven and reliable effectiveness/performance compared with available alternatives (based on adequate and scientifically sound data from clinical use )*
4. **Quality:** *Compliance with internationally acceptable quality standards, as recognized by the national medicines regulatory authority - currently the Pharmacy and Poisons Board (including maintenance of quality under expected conditions of storage & use)*
5. **Performance:** *Sufficient evidence of acceptable performance in a variety of settings (eg. levels of health care)*
6. **Comparative cost-benefit:** *a favourable cost-benefit ratio (in terms of total management costs) compared with alternatives*
7. **Local Suitability/Appropriateness:** *Preference should be given to a medical supply item which is well known to health professionals, suitable for local use (eg. method of use, staff training, support facilities) and socio-culturally appropriate (eg. method of use/administration)*
8. **Local Production:** *Wherever possible the medical product should have the possibility of being manufactured locally (for improved availability, reduced procurement costs)*

## Main Uses of the KEMSL

The KEMSL should be one of the cornerstones of the national healthcare system, and a key component of the national health policy. It is a vitally important tool and reference source for guiding the management of common health conditions in the country, as well as the management and utilization of EMS at national, county and institutional (ie. health facility) levels.

The KEMSL aims to support the smooth functioning of the healthcare system and radically improve the availability and appropriate use of medical supplies, for improved health status of the population. The health sector will realize the full benefits of the KEMSL when it is routinely, appropriately and fully utilized in the following key areas:

1. **Healthcare Financing & EMS Budgeting:** The KEMSL should be used as a basis for prioritization of investment of available healthcare finances and, together with careful and systematic quantification of needs, for the estimation of required annual medical supply budgets at all levels of the healthcare system. It should also form the basis for EMS financing by development partners.
2. **Health Insurance Schemes:** EMS are a major cost element in healthcare financing for Government, insurance schemes and partners. As the sector elaborates a comprehensive healthcare financing system, the KEMSL should be used as the basis for expanding coverage or reimbursement of medical supplies cost.
3. **Procurement, Supply & Distribution (including Donations):** The KEMSL should be used as a basis for determining medical supplies procurement requirements for all health care levels, ie. from dispensary level, to county level and up to the national referral level. This applies equally to public procurement by the national and county governments as well as procurement by the faith-based, NGO, private sector and other actors. The carefully selected list will help to guide investment of scarce health resources towards providing the most appropriate medicines, to patients and the public.

Use of the KEMSL will help focus management efforts on a needs-based and prioritized list of critical items, and can greatly improve the functioning and efficiency of medical commodities supply and distribution systems. The KEMSL should be used as a basis for pre-printed order forms for the pull system of medical supply to health facilities. The *level of use (LOU)* designation should be used to guide the supply and use of medical supplies at the appropriate levels of care, as defined in KEPH.

4. **Donations:** potential EMS donors and recipients should use the KEMSL to determine the most appropriate types and presentations of medical commodities for donation to meet public health priorities, including health emergencies.
5. **Healthcare Workforce Development:** KEMSL should be key references in the training of health care personnel, to provide correct orientation on evidence-based management of health conditions, as well as the appropriate prescribing/requisitioning, issuance and medical supplies utilization. This includes formal and in-service training, as well as continuing professional development of healthcare professionals. Use of these tools can help to correctly orientate health service delivery towards optimal utilization of EMS.
6. **EMS Regulation & Monitoring (including Quality Assurance):** The KEMSL should be used as a basis for ensuring an effective system of regulation of all activities involving medical commodities (including import, export, local production, registration, levels of distribution/use, quality monitoring, post-market surveillance, prescribing/requisitioning). The KEMSL should guide medical supplies regulatory decision-making, aimed at enhancing access to Essential Medical Supplies. This may include fast-track registration and incentives to stimulate local medical supplies production of items listed on the KEMSL. Information that is comprehensive and unbiased should be made available to health workers and the public and due emphasis placed on market surveillance for quality, safety and efficacy of items listed on the KEMSL.

7. **Appropriate Use of EMS:** The KEMSL should be used as a basis for designing strategies and initiatives to promote the correct use of medical supplies by health professionals, patients and the public. Such activities should focus on promoting and improving utilization of Essential Medical Supplies (on the KEMSL) as the most appropriate for attaining maximum health benefits.

In particular the KEMSL should be used as the focus of related surveys, studies, operational research by the National Medicines & Therapeutics Committee (NMTC) and institutional MTCs, with the aim of improving the availability, affordability, prescribing/requisitioning, method of use of EMS for greater public health impact. It should also be used as a basis for appropriate and effective additional monitoring and control measures applicable to any items designated on the list for *restricted use only*.

8. **EMS Policy Monitoring & Operational Research:** up to date clinical guidelines together with the KEMSL should be used to identify parameters for monitoring, evaluation and operational research in the health sector, with the aim of ensuring the continued relevance of EMS policies to current health care requirements; as well as establishing the required evidence base for effective, systematic and regular KEMSL review and revision.
9. **EMS Manufacturing:** the KEMSL should be used as a basis for local manufacturing decisions focusing on priority public health items. Incentives for local production should primarily target products listed on the KEMSL.



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# Kenya Essential Medical Supplies List 2016

#	Item Name	Description	LOU
<b>A. Essential General Medical Supplies</b>			
<b>1. Bags</b>			
1.1	Bag, colostomy	a) Child	4
		b) Adult 22.6 x 16.5cm	4
1.2	Bag, dialysis collection	a) Neonatal	4
		b) Child	4
		c) Adult	4
1.3	Bag, bicarbonate ( <i>Bi-bag</i> ®)	For haemodialysis (650g)	4
1.4	Bag, enteral feeding	With administration set (1.2L)	4
1.5	Condom	a) Female	1
		b) Male	1
1.6	Penile sheath (uridome)	Standard size	3
1.7	Urine collector bag	2L	3
1.8	Urine bag, graduated, with inlet & outlet	2L	3
<b>2. Catheters and Cannulas</b>			
2.1	Cannula, IV	a) 26G	2
		b) 24G	2
		c) 22G	2
		d) 20G	2
		e) 18G	2
		f) 16G	2
2.2	Catheter, Foley's, 2-way	a) CH08, 30mL	2
		b) CH14, 30mL	2
		c) CH16, 30mL	2
		d) CH18, 30mL	2
		e) CH24, 30mL	3
2.3	Catheter, Foley's, 3-way	a) CH22, 30mL	3

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#	Item Name	Description	LOU
2.3	Catheter, Nelaton	a) FG08	2
		b) FG14	2
		c) FG16	2
		d) FG18	2
2.4	Catheter, subclavian, 3-way		3
2.5	Catheter, suction, with regulatory valve	a) FG04	2
		b) FG06	2
		c) FG08	2
		d) FG10	2
		e) FG14	2
		f) FG16	2
		g) FG18	2
2.6	Catheter, umbilical	a) Arterial	4
		b) Venous	4
2.7	Catheter, Tenkhoff	a) Neonatal	4
		b) Child	4
		c) Adult	4
<b>3. Gloves</b>			
3.1	Gloves, examination, single-use	a) Small	1
		b) Medium	1
		c) Large	1
3.2	Gloves, gynaecological	Size 7.5	2
3.3	Gloves, heavy duty	Size 7.5	2
3.4	Gloves, surgical, sterile, single-use	a) Size 6.0	2
		b) Size 7.0	2
		c) Size 7.5	2
<b>4. Infection Prevention &amp; Control Supplies (IPC)</b>			
4.1	Apron	Disposable	3
4.2	Cap, theatre	Disposable	3
4.3	Goggles, safety	Plastic	2

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#	Item Name	Description	LOU
4.4	Gown	Disposable	3
<b>5. Injection Supplies</b>			
<b>5.1 Needles</b>			
5.1.1	Needle, bone marrow	Set	4
5.1.2	Needle, disposable	a) 23G	2
		b) 21G	2
5.1.3	Needle, epidural	Set with 18G needle	4
5.1.4	Needle, fistula	a) 14G	3
		b) 15G	5
		c) 16G	5
		d) 17G	5
5.1.5	Needle, intraosseous	a) Child	4
		b) Adult	4
5.1.6	Needle, scalp vein	a) 23G	2
		b) 25G	2
5.1.7	Needle, spinal	a) 25G (90mm)	3
		b) 22G (90mm)	3
<b>7.2 Syringes</b>			
7.2.1	Syringe, BCG	With needle	2
7.2.2	Syringe, disposable, with needle (re-use prevention)	a) 23G, 2mL	2
		b) 21G, 5mL	2
		c) 21G, 10mL	2
7.2.3	Syringe, disposable without needle	a) 2ml	2
		b) 5ml	2
		c) 10ml	2
		d) 20ml	2
		e) 50mL	2
7.2.4	Syringe, insulin	29G with needle	1
<b>7.3 Infusion Supplies</b>			
7.3.1	Blood giving set	Double chamber	4

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#	Item Name	Description	LOU
7.3.2	Giving set, with burette, 100-150mL	a) blood	4
		b) IV fluids	3
7.3.3	Infusion giving set	IV fluids, with air inlet	2
7.3.4	Stopcock	3-way	4
<b>7.4 Other Injection Supplies</b>			
7.4.1	Pre-injection alcohol swab	Pack of 100	2
<b>8. Masks</b>			
8.1	Mask, anaesthetic, economy, reusable	a) Neonatal	4
		b) Child	4
		c) Adult	4
8.2	Mask, anaesthetic filter	Disposable, in-line, HME	4
8.3	Mask, face	a) Disposable	1
		b) N95 respirator	3
8.5	Mask, oxygen	a) Neonatal	3
		b) Child	3
		c) Adult	3
8.6	Mask, surgical	Disposable	3
<b>9. Maternal &amp; Newborn Supplies</b>			
9.1	Clamp, cord		1
9.2	Individualized Birth Plan Pack	Contains: surgical blade with handle, surgical gloves size 7, cord clamp, cotton wool maternity pad	1
9.3	Maternity pad	26cm x 9cm x 1cm (12)	1
<b>10. Oropharyngeal Airways</b>			
10.1	Oropharyngeal airway (OPA, Guedel)	a) Size 00	3
		b) Size 0	3
		c) Size 2	3
		d) Size 4	3
<b>11. Sterilization Items</b>			
11.1	Tape, autoclave	19mm x 55m	2

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#	Item Name	Description	LOU
11.2	Sterilization closure bag	a) Small	2
11.2	Sterilization closure bag	b) Large	2
<b>12. Surgical Blades</b>			
12.1	Blade, skin grafting	Disposable	4
12.2	Blade, surgical with handle	a) Size 11	2
		b) Size 15	2
		c) Size 23	3
12.3	Knife, skin grafting	Disposable	4
<b>13. Surgical Dressings</b>			
13.1	Bandage, cotton, loose woven (WOW)	7.5cm x 4.5m	1
13.2	Bandage, crepe, elastic	a) 10cm x 4.5m	1
		b) 15cmx4.5m	1
		c) 20cm x 2.75m	1
13.3	Cotton gauze,	a) Plain, 90cm x 90m, 1,500g	2
		b) X-ray detectable, 90cm x 90m, 1,500g	4
13.4	Cotton wool	400g (min)	1
13.5	Dressing, adhesive	7.5cm x 4.5m	3
13.6	Dressing, IV cannula, adhesive	Standard size	3
13.7	Dressing, haemostatic, absorbable	a) 1" x 2" (10)	4
		b) 2" x 4" (10)	4
		c) 4" x 4" (10)	4
13.8	Dressing, paraffin gauze	10cm x 10cm	2
13.9	Eye pad		3
13.10	Tape, surgical, porous, adhesive	2.5cm x 5m (transparent)	2
13.11	Zinc oxide strapping	7.5cm x 4.5m	1
<b>14. Sutures</b>			
<b>14.1 Absorbable</b>			
14.1.1	Suture, polyglactin	a) No.9/0, 6.5mm micropoint-spatula, 15cm	3
		b) No.7/0, 11mm precision point reverse cutting, 45cm	3

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#	Item Name	Description	LOU
14.1.1	Suture, polyglactin	c) No.5/0, 19mm ½C RBN, 75cm	3
		d) No.4/0, 26mm ½C RBN, 75cm	3
		e) No.3/0, 36mm ½C RBN, 75cm	3
		f) No.2/0, 45mm ½C RBN, 75cm	3
		g) No.0, 45mm ½C RBN, 75cm	3
		h) No.1, 45mm ½C RBN,75cm	3
		i) No.2, 45mm ½C RBN x 90cm	3
14.1.2	Suture, polyglycolic acid	a) No.3/0, 36mm ½C RBN, 75cm	3
		b) No.2/0, 40mm ½C RBN, 75cm	2
		c) No.0, 45mm ½C RBN, 75cm	3
		d) No.1,45mm ½C RBN,75cm	3
		e) No.3/0, 36mm ½C cutting, 75cm	3
<b>15.2 Non-absorbable</b>			
15.2.1	Suture, nylon	a) No.10/0, 6.5mm micropoint-spatula needle, 10cm	3
		b) No.2/0, 40mm ½C RCN, 75cm	3
15.2.2	Suture, polypropylene	No.4/0, 22mm ½C RCN, 75cm	2
<b>16. Tubes</b>			
16.1	Nasal prongs single-use (with tubing)	a) Neonatal	2
		b) Child	2
		c) Adult	3
16.2	Nasopharyngeal airway	a) Size 5	2
		b) Size 6	2
		c) Size 8	2
16.3	Tube, endotracheal, cuffed	a) Size 5.5	3
		b) Size 6.5	3
		c) Size 7.0	3
		d) Size 7.5	3



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#	Item Name	Description	LOU
16.4	Tube, endotracheal, uncuffed	a) Size 2.5	3
		b) Size 3.5	3
		c) Size 4.0	2
16.5	Tube, feeding	a) FG04	2
		b) FG06	2
		c) FG08	2
		d) FG09	2
		e) FG10	2
		f) FG12	2
		g) FG14	2
		h) FG18	2
16.6	Tube, haemodialysis (arterial/venous blood tubing set)	a) Child	4
		b) Adult	4
16.7	Tube, intercostal drainage	a) CH28	4
		b) CH26	3
		c) CH16	3
16.8	Tube, peritoneal dialysis, adapter	a) Neonatal	4
		b) Child	4
		c) Adult	4
16.9	Tube, peritoneal dialysis, connector	a) Neonatal	4
		b) Child	4
		c) Adult	4
16.10	Tube, rubber, corrugated drainage	a) Child	4
		b) Adult	4
16.11	Tube, tracheostomy cuffed	a) Size 2.5	3
		b) Size 3.5	3
		c) Size 4.0	3
16.12	Tube, tracheostomy, uncuffed	a) Size 4.0	3
16.13	Tube, rectal, disposable	a) 22G	3
		b) 20G	3

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#	Item Name	Description	LOU
16.13	Tube, rectal, disposable	c) 18G	3
16.14	Tube, suction	a) Neonatal	2
		b) Child	2
		c) Adult	2
16.15	Tube, suction, mini closed wound drainage	Unit	4
16.16	Y-line, peritoneal dialysis	a) Neonatal	4
		b) Child	4
		c) Adult	4
<b>17. Waste Disposal Items</b>			
17.1	Bin liner for medical waste	Specified colour and size	2
17.2	Safety box	5L	2
<b>18. Other Items</b>			
18.1	Cup and spoon for ORS		2
18.2	Diaper	a) Neonatal	4
		b) Child	4
		c) Adult	4
18.3	Blood glucose test strip	As per specific glucometer (100)	2
18.4	Invalid air ring	a) rubber, 40cm	4
		b) rubber, 45cm	4
18.5	Litmus paper	pH test strips	2
18.6	Patient identification band	a) Adult	2
		b) Child	2
		c) neonate	2
18.7	Skin stapler, reusable	With staples	4
18.8	Tongue depressor, wooden	19mm x 140mm	1
18.9	Tourniquet	3cm x 30cm	1
18.10	Thyroidectomy (surgical) clip		4
18.11	Urinalysis test strips ( <i>Uristicks</i> ®)	Pack of 100	2

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#	Item Name	Description	LOU
<b>B. Essential Radiological Supplies</b>			
<b>1. Films &amp; related supplies</b>			
<b>1.1 Films</b>			
1.1.1	Digital film	a) DI-HL, 20 x 25cm	4
		b) DI-HL, 25 x 35cm	4
		c) DI-HL, 25 x 30cm	4
		d) DI-HL, 35 x 43cm	4
		e) DI-ML, 20 x 25cm	4
		f) DT 2B, 20 x 25cm	4
		g) DT 2B, 25 x 30cm	4
		h) DT 2B, 35 x 43cm	4
		i) DT 2 Mammo, 20 x 25cm	4
		j) DVB, 20 x 25cm	4
		k) DVB, 28 x 35cm	4
		l) DVB, 25 x 30cm	4
		m) DVB, 35 x 43cm	4
		n) DVM, 20 x 25cm	4
1.1.2	Green-sensitive film	a) ISO 200, 18 x 24cm	3
		b) ISO 200, 24 x 30cm	3
		c) ISO 200, 15 x 40cm	3
		d) ISO 200, 18 x 43cm	3
		e) ISO 400, 30 x 40cm	3
		f) ISO 400, 35 x 35cm	3
		g) ISO 400, 35 x 43cm	3
1.1.3	Intra-oral bitewing film	a) 3 x 4cm	3
1.1.4	Intra-oral occlusal film	b) 5 x 7cm	3
1.1.5	Intra-oral periapical film	c) 2 x 3cm (child)	3
		d) 3 x 4cm (adult)	3
1.1.6	Orthopantomogram (OPG) film	15 x 30cm	4
1.1.7	Mammography film	a) ISO 200, 18 x 24cm	4
		b) ISO 200, 24 x 30cm	4

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#	Item Name	Description	LOU
1.1.8	Radiation monitoring film (personal)	3 x 4cm	2
<b>1.2 Film envelopes</b>			
1.2.1	Film envelope, large	37 x 46cm	2
1.2.2	Film envelope, small	25 x 32cm	2
<b>1.3 Film processing chemical concentrates</b>			
1.3.1	Developer, auto	To make 40L	2
1.3.2	Developer, manual		2
1.3.3	Fixer, auto		2
1.3.4	Fixer, manual		2
<b>2. Ultrasound scanning material</b>			
2.2.1	Gel, transmission	5L	2
2.2.2	Paper, thermal printing	High glossy, min: 110mm x 18m	2
<b>3. Contrast media</b>			
<b>3.1 Radiocontrast media</b>			
3.1.1	Barium sulphate, aqueous suspension	20-200% (as required)	4
3.1.2	Iohexol	140-350mg iodine/mL (5ml, 10ml, 20mL amp)	4
3.1.3	Meglumine + sodium amidotrizoate, oral solution, sugar-free	3.3g/5mL + 500mg/5mL (equiv. to 370mg iodine/mL)	4
3.1.4	Meglumine iotroxate	5-8g iodine in 100-250mL	4
<b>3.2 MRI Contrast Media</b>			
3.2.1	Gadobutrol solution for injection	1.5 mmol/ml (equivalent to 604.72mg/mL)	4
3.2.2	Gadodiamide solution for injection	0.5 mmol/ml (equivalent to 287mg/mL)	4
3.2.3	Gadopentate dimeglumine solution for injection	0.5 mmol/ml (equivalent to 469.01mg/mL)	4
<b>4. Small Equipment</b>			
<b>4.1 Film Hangers</b>			
4.1.1	Dental film hanger	Clip (10)	2
4.1.2	General film hanger	a) 15 x 40cm	2
		b) 18 x 24cm	2

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#	Item Name	Description	LOU
4.1.2	General film hanger	c) 18 x 43cm	2
		d) 24 x 30cm	2
		e) 30 x 40cm	2
		f) 35 x 35cm	2
		g) 35 x 43cm	2
<b>4.2 Green Intensifying Screens</b>			
4.2.1	Intensifying screen, green	a) 15 x 40cm	2
		b) 18 x 24cm	2
		c) 18 x 43cm	2
		d) 24 x 30cm	2
		e) 30 x 40cm	2
		f) 35 x 35cm	2
		g) 35 x 43cm	2
<b>4.3 X-ray cassettes</b>			
4.3.1	X-ray cassette, gridded and loaded with green-sensitive screen	a) 18 x 43cm	2
		b) 24 x 30cm	2
		c) 35 x 43cm	2
4.3.2	X-ray cassette, loaded with green-sensitive screen	a) 15 x 40cm	2
		b) 18 x 24cm	2
		c) 18 x 43cm	2
		d) 24 x 30cm	2
		e) 30 x 40cm	2
		f) 35 x 35cm	2
		g) 35 x 43cm	2
<b>5. Other X-ray items</b>			
5.1	Anatomical side-marker	Piece	2
5.2	Digital imaging plate	Piece	2
5.3	Patient's name (ID) printer	Piece	2
5.4	Patient positioning pads	Set (11 pieces)	2
5.5	Safelight, green-sensitive	Piece, for use with green-	2
5.6	Thermoluminescent dosimeter (TLD)	Lithium-fluoride	2
5.7	X-ray cassette box	Holds at least 2 of each size of x-ray cassettes	2



#	Item Name	Description	LOU
<b>C. Essential Rehabilitative Care Supplies</b>			
<b>1. Bandages</b>			
1.1	Compression stockings	Seamed	3
1.2	Plaster of Paris bandage, fast-setting	10cm x 2.75m roll	3
1.3	Stockinette bandage, elastic	30cm x 800g roll	3
<b>2. Braces</b>			
2.1	Cervical collar, rigid, standard adjustable	a) Small	3
		b) Medium	
		c) Large	
2.2	Corset, lumbo-sacral	a) Small	3
		b) Medium	
		c) Large	
2.3	Corset, thoraco-lumbar	a) Small	3
		b) Medium	
		c) Large	
<b>3. Mobility Aids</b>			
3.1	Crutches, axillary, adjustable	a) Child size	3
		b) Adult size	3
3.2	Crutches, elbow, adjustable	a) Child size	3
		b) Adult size	3
3.3	Pedal walker	L 16" x W 13 3/4" x H 19 3/4"	3
3.4	Quadripod stand	a) Child size	3
		b) Adult size	3
3.5	Scooter board	a) 12" x 16"	3
		b) 24" x 16"	3
3.6	Tripod stand	a) Child size	3
		b) Adult size	3
3.7	Wheel chair, foldable	a) Child size	3
		b) Adult size	3
3.8	Walking cane, adjustable	Adult size	3

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#	Item Name	Description	LOU
<b>4. Evaluation Kits</b>			
4.1	Goniometer	Plastic 12" 360 degree	3
4.2	Hand evaluation set	Hydraulic hand dynamometer, pinching gauge, goniometer	3
4.3	Pattern blocks & boards kit	100 pattern blocks, 6 colours, 10 shapes Board: 7 5/8" x 6 1/8"	3
4.4	Sensory motor kit	Bag with 12 different tactile rings, balls, tangle	3
4.5	Vestibular dome, 3-piece	Vinyl coated, polyurethane filler, latex-free with straps H 13", Diam 43"	3
<b>5. Immobilising Aids</b>			
5.1	Thomas splint	a) Child size	3
		b) Adult size	3
5.2	Tristander, adjustable	45-810mm-1140mm	3
		58-1090mm-1470mm	3
5.3	Tumble form deluxe strap wedge	H 102mm, W 508mm, L 559mm, incline 22"	3
		H 305mm, W 610mm, L 711mm, incline 28"	3
<b>6. Games Items</b>			
<b>6.1 For adults</b>			
6.1.1	Ball	Standard	4
6.1.2	Badminton bat	Standard	4
6.1.3	Badminton shuttlecock	Standard	4
6.1.4	Chess board	Set	4
6.1.5	Draughts	Set	4
6.1.6	Dart board	Standard	4
6.1.7	Dart arrow	Set	4
6.1.8	Dart flight	Set	4
6.1.9	Net	Standard	4
6.1.10	Scrabble	Set	4
<b>6.2 For children</b>			
6.2.1	Beach (therapy) ball	a) Small	3



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#	Item Name	Description	LOU
6.2.1	Beach (therapy) ball	b) Medium	3
		c) Large	3
6.2.2	Crawling tunnel	Standard	3
<b>7. Heat-transmitting media</b>			
7.1	Hydrocollator hot pack	a) Knee & shoulder	3
		b) Neck	
		c) Oversize	
		d) 25cm x 30cm	
7.2	Paraffin wax, therapeutic		3
7.3	Ultrasonic gel	Medium viscosity	3
<b>8. Massage Liquids</b>			
8.1	Glycerine	1L	3
8.2	Olive oil	1L	3
<b>9. Materials &amp; Sheets</b>			
9.1	Aluminium sheet	14cm x 20cm	3
9.2	Adhesive strip, male and female, white	a) 25mm x 10m	3
		b) 50mm x 10m	
9.3	Arm sling	a) Small (8.25cm)	3
		b) Medium (9.5cm)	
		c) Large(10.8cm)	
9.4	Cork, pressed	Smooth grain finish, flexible sheet	3
9.5	Elastic cord	1.6mm x 9.1m	3
9.6	Microcellular rubber sheet	a) Hard, 5mm	3
		b) Soft, 5mm	
9.7	Non-perforated sheet	5mm x 46cm x 61cm (4)	3
9.8	Orthopaedic padding	15cm	3
9.9	Outrigger line (nylon)	9kg x 247m, latex-free	3
9.10	Plaster of Paris powder,	Fast-setting (25kg)	3
9.11	Polyethylene foam splinting material	3.2mm x 102cm x 76cm beige (8)	3
9.12	Polypropylene sheet	5mm	3

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#	Item Name	Description	LOU
9.13	Splinting material	a) Perforated 1%	3
		b) Solid, white sheet, 6mm x 46cm x 61cm	3
9.14	Therapeutic putty	85g	3
9.15	Toe puff	2.5mm (25)	3
<b>10. Prosthetic Components</b>			
10.1	Module, trans-femoral	a) Child size	3
		b) Adult size	
10.2	Module, trans-tibial	a) Child size	3
		b) Adult size	
10.3	Sach foot with toes, negroid colour	a) 22cm	3
		b) 24cm	
		c) 26cm	
10.4	Peg board	Easy grip, set	3
<b>11. Self-Care Assistive Devices</b>			
11.1	Folding commode	H 1m, W 45cm	3
11.2	Long handled sponge + applicator	L 495mm, W 80g	3
11.3	Muscle tester	Standard	3
11.4	Shoe horn	Long handled, chromed metal, L 600mm, W 233g	3
11.5	Stadiometer	Standard	3
11.6	Tape measure	Inch and cm	3
11.7	Toys	Assorted	3
<b>12. Skills training items</b>			
12.1	Beads	Packet	4
12.2	Cotton material	Roll	4
12.3	Fishing line	Roll	4
12.4	Knitting wool	Roll	4
12.5	Leather	Square	4
12.6	Machine thread		4
12.7	Timber		4

#	Item Name	Description	LOU
<b>D. Essential Oral Health Supplies &amp; Devices</b>			
<b>1. Conservative Dentistry</b>			
<b>1.1 Consumables</b>			
1.1.1	Amalgam capsule	2 spill, 600mg (50)	3
1.1.2	Articulating paper	68mm x 80mm, horse shoe (12 booklet box)	3
1.1.3	Bonding agent, refill	6mL	3
1.1.4	Bur, surgical	a) FG carbide, high-speed HP (10)	3
		b) FG carbide, low-speed HP (10)	3
		c) FG, diamond, high-speed HP (5)	3
		d) FG, diamond, low-speed HP (5)	3
		e) FG, stainless steel, carbide, straight hand piece, HP (10)	3
		f) Notched, carbide, contra-angle, CA (10)	3
1.1.5	Calcium hydroxide kit	Tubes, 13g base, 11g catalyst	3
1.1.6	Cement kit	a) Glass ionomer, light-cure, 2 x 2g syringes, tips (25), shades: A1, A2, A3, A3.5, B1, C2, bleach white, universal opaque	3
		b) Glass ionomer, luting, powder 33g, liquid 12mL, accessories	3
		c) Glass ionomer, self-cure, powder 25g, liquid 12ml, accessories	3
		d) Zinc oxide-eugenol, powder 30g, liquid 15mL	3
1.1.7	Composite, chemical cure kit	Base, catalyst, etching gel, accessories	3
1.1.8	Composite, light cure kit	9 x 4g composite syringes, shades: A1, A2, A3.5, B1, B2, B3, C1, C2, C3	3
1.1.9	Cotton roll	a) 8mm x 40mm, child (50)	2
		b) 10mm x 38mm, adult (50)	2
1.1.10	Crown, polycarbonate	Pack (100)	3
1.1.11	Etching agent, refill kit	4 x 1.2mL syringes, 8 dispenser needles, 37.5 % free phosphoric acid	3

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#	Item Name	Description	LOU
1.1.12	Face mask	3-ply (box of 50)	2
1.1.13	Finishing strip	a) 150mm x 4mm (medium)	3
		b) 150mm x 5.5mm (wide)	3
1.1.14	Fissure sealant kit	a) Light-cure, 4 x 1g syringes, 3mL etch, tips, accessories	3
		b) Self cure, complete kit	2
1.1.15	Handpiece lubricant spray	Turbine spray, 500mL	3
1.1.16	Interdental wedge	Assorted, box (200)	3
1.1.17	Matrix band	Stainless steel, 0.002G (12)	3
1.1.18	Mouth mirror	Refill, complete: mirror + handle	3
1.1.19	Mylar strip	0.002G (1000)	3
1.1.20	Patient bib	Disposable, 30cm x 45cm (500)	2
1.1.21	Retention pin kit	a) Stainless steel, complete kit (50)	4
		b) Titanium, complete kit (50)	4
1.1.22	Saliva ejector	a) 10 x 13.5mm, stainless steel, HV	4
		b) Disposable, high volume (100)	3
		c) Disposable, low volume (100)	3
1.1.23	Sterilization pouch	a) 75mm x 255mm	3
		b) 85mm x 165mm	3
		c) 90mm x 230mm	3
<b>1.2 Instruments</b>			
1.2.1	Mixing slab, glass	Glass, 10cm x 10cm	3
1.2.2	Probe	a) Periodontal, colour-coded, graduated, double-ended	3
		b) Endodontic, colour-coded, graduated, double-ended	3
		c) Explorer, double-ended	2
1.2.3	Restorative kit	a) Amalgam carrier, plugger, burnisher, carver, matrix band retainer, spatula, condensor, dycal applicator	3
		b) Titanium coated, plugger, condenser, in/out curvature, (L/R) curvature	3

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#	Item Name	Description	LOU
<b>1.3 Devices</b>			
1.3.1	Amalgamator	Capsule type, 4500 rpm, 0-30 seconds, universal, 240v	3
1.3.2	Coupling motor	Quick coupling, multi-flex, lighted	3
1.3.3	Curing light unit	LED, complete unit, curing times (5, 10, 15, 20, 25, 30, 40 seconds), preset programmes (fast mode, soft 1 mode, soft 2 mode)	3
1.3.4	Handpiece, contra-angle high speed	4-holed , push-button chuck, fibre optic, 25,000 lux, autoclavable, 3-5 port sprays, 390,000-450,000 rpm	3
1.3.5	Handpiece, contra-angle, low speed	4-holed, uses RA burs, autoclavable, 5,000-25,000 rpm, push-button chuck, fibre optic (25,000 lux), single spray	3
1.3.6	Handpiece, straight	Twist-lock chuck, external spray, autoclavable	3
<b>2. Oral Surgery, Pathology and Radiology</b>			
<b>2.1 Consumables</b>			
2.1.1	Arch bar	Roll, 1m	3
2.1.2	Arch wire	0.5mm (10)	3
2.1.3	Aspiration needle, wide bore	a) 25G	4
		b) 23G	4
		c) 21G	4
		d) 19G	4
2.1.4	Blade, surgical	a) Size 12	3
		b) Size 15	3
2.1.5	Bone wax	Tube, 2.5g	4
2.1.6	Drain, rubber corrugated	a) Sheet, all sizes	3
		b) Tubing, all sizes	3
2.1.7	Dressing pad	Absorbent, sterile, 10cm x 10 cm	3
2.1.8	Dry-socket dressing (alveolar) paste	Paste (12g jar	3

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#	Item Name	Description	LOU
2.1.9	Gauze pad	Sterile, 7.5cm x 7.5cm	3
2.1.10	Haemostatic sponge	Gelatin, absorbable, 10mm x 10mm x 10mm	3
2.1.11	Needle, dental	a) Short 30G (100)	2
		b) Short 27G (100)	2
		c) Long 27G (100)	2
2.1.12	Pen, surgical marker	Set, marker, ruler, label	4
2.1.13	Sterilization pouch	a) 75mm x 255mm	3
		b) 85mm x 165mm	3
		c) 90mm x 230mm	3
2.1.14	Suture with needle	a) 1/2c, 3/8rc, silk, 3.0	3
		b) 1/2c, 3/8rc, PGA, 3.0	3
		c) 1/2c, 3/8rc, catgut, 3.0	3
		d) 1/2c, 3/8rc, chromic, 3.0	3
		e) 3/8c, RC, silk, 3.0	3
		f) 3/8c, RC, PGA, 3.0	3
		g) 3/8c, RC, catgut, 3.0	3
		h) 3/8c, RC, chromic, 3.0	3
2.1.15	Wire, surgical	a) 0.4mm x 3m, 24G	3
		b) 0.5mm x 3m, 25G	3
2.1.16	Zinc oxide-eugenol, dressing pack	Base & catalyst tubes	3
<b>2.2 Instruments</b>			
2.2.1	Bone file, Howard	a) Coarse serrations	4
		b) Fine serrations	4
		c) Super-fine serrations	4
2.2.2	Bone file Miller	a) Coarse serrations	4
		b) Fine serrations	4
		c) Super-fine serrations	4
2.2.3	Bone rongeur	15.5cm long, 3mm tip, SS	3
2.2.4	Dental syringe	SS, reusable, cartridge type, aspirating, 1.8mL	2
2.2.5	Extraction kit	a) Adult, assorted extraction forceps	2
		b) Child, assorted extraction forceps	2

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#	Item Name	Description	LOU
2.2.5	Extraction kit	c) Root forceps, upper & lower, universal	3
		d) Apical fragment forceps	3
2.2.6	Forceps	a) Artery, curved	3
		b) Artery, straight	3
		c) Cheatle	3
		d) Tissue, 12cm, non-toothed	3
		e) Tissue, 12cm, toothed	3
2.2.7	Maxillofacial fracture kit	Standard kit with accessories	3
2.2.8	Needle holder	Mathieu 5 1/2"	3
2.2.9	Suture removal kit	Standard, universal kit	2
2.2.10	Tweezers	a) SS, lockable	3
		b) SS, non-lockable	3
2.2.11	Wire cutters	a) Clinical, soft wire cutter, SS, autoclavable	3
		b) Laboratory, hard wire cutter, SS, autoclavable	3
2.2.12	Wire holder	Dental, Mathieu, SS	3
<b>2.3 Devices</b>			
2.3.1	Mouth gag	a) Child, SS	2
		b) Adult, SS	2
2.3.2	Mouth prop	a) Adult, rubber/Nortel material, SS, autoclavable	2
		b) Child, rubber/Nortel material, SS, autoclavable	2
2.3.3	Sterilization drum	Specific to size of instruments and autoclave	2
2.3.4	Maxillofacial surgery kit	Standard, universal kit, complete with accessories	5
<b>3. Periodontology and Preventive Dentistry</b>			
<b>3.1 Consumables</b>			
3.1.1	Dental floss	a) Unwaxed, box (25-100m )	2
		b) Waxed, box (25-100m )	2
3.1.2	Fluoride varnish	22,600 ppm fluoride (30mL)	2

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#	Item Name	Description	LOU
3.1.3	Periodontal pack	Base and catalyst	4
3.1.4	Polishing brush	Medium (12)	3
3.1.5	Prophylaxis cup	a) Rubber, white, webbed, snap-on, hard (144)	3
		b) Rubber, white, webbed, snap-on, soft (144)	
3.1.6	Prophylaxis paste	50g jar	2
<b>3.2 Instruments</b>			
3.2.1	Curette	Gracey curettes, SS, set: 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14, 15/16, 17/18 (pcs)	3
3.2.2	Scaler, hand	Gracey scalers, SS, set: 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 13/14, 15/16, 17/18 (pcs)	2
3.2.3	Scaler, ultrasonic	a) Inserts, 25/30K (Cavitron®)	2
		b) Tips, 25/30K (Cavitron®)	2
<b>3.3 Devices</b>			
3.3.1	Scaler unit	Ultrasonic, portable, complete unit, 25/30K inserts, 220-240 v	2
<b>4. Prosthodontics and Orthodontics</b>			
<b>4.1 Consumables</b>			
4.1.1	Acrylic teeth	a) Complete set, pcs (28)	3
		b) Lower anterior set, pcs (6)	3
		c) Lower posterior set, pcs (8)	3
		d) Upper anterior set, pcs (6)	3
		e) Upper posterior set, pcs (8)	3
4.1.2	Brush wheel/cup	Mounted (12)	3
4.1.3	Bur, laboratory	a) Carbide, shaft ø 2.35mm, HP (12)	3
		b) Diamond, shaft ø 2.35mm, HP (12)	3
		c) SS, shaft ø 2.35mm, HP (12)	3
4.1.4	Mop	Calico, cloth type, 4"x ½", 25 leaf	3
4.1.5	Cold mould seal	5L	3
4.1.6	Crown, assorted	a) SS, child	3
		b) SS, adult	3



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#	Item Name	Description	LOU
4.1.6	Crown, assorted	c) Polycarboxylate (100)	3
4.1.7	Dental stone	Bag/drum, 25kg	3
4.1.8	Die stone	Crown & bridge, 5kg	3
4.1.9	Emery cloth	Hard wearing, 15mm x 25m roll, grit (120)	3
4.1.10	Expansion screw kit	Assorted, standard x-screws, 4 x 1/4 turn, SS	3
4.1.11	Finishing kit	Ceramic, assorted, complete kit	3
4.1.12	Impression material	a) Alginate (500g) (24)	3
		b) Greenstick compound, sticks	3
		c) Compound, cakes (10)	3
		d) Rubber based, regular, base (90mL), catalyst (45mL), adhesive (15mL)	3
		e) Zinc oxide eugenol: base, catalyst	3
4.1.13	Modelling wax	500g, 24 sheets, 1.5mm thick	3
4.1.14	Monomer	a) Acrylic, heat-cure, PMMA (250mL)	3
		b) Acrylic, self-cure, PMMA (250mL)	3
4.1.15	Molar band kit	a) Colour coded bands (80)	3
		b) Mandibular	3
		c) Maxillary	3
4.1.16	Ortho-resin kit	Polymer 1kg, monomer 50mL, separating media 1L, spray nozzle	3
4.1.17	Wire, orthodontic/clasp	a) Coil, 0.50mm/20, 50m , SS	3
		b) Coil, 0.60mm/23, 40m , SS	3
		c) Coil, 0.70mm/28, 30m , SS	3
		d) Coil, 0.80mm/31, 20m , SS	3
		e) Coil, 0.90mm/36, 10m, SS	3
4.1.18	Plaster of Paris	Regular set, lab-plaster, 25 kg	3
4.1.19	Polishing disc	Paper, abrasive type A (pin-hole), assorted, coarse ,fine, super-fine	3
4.1.20	Polishing brush	Black/white bristles, 2"x 2 row, 2 1/2" x 3 row, 3 1/2" x 4 row (10)	3

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#	Item Name	Description	LOU
4.1.21	Polymer	a) Acrylic, heat-cure PMMA, 1kg, pink-veined	3
		b) Acrylic, self-cure PMMA, 500g, pink-veined	3
4.1.22	Porcelain material kit	Standard kit, shades A1-A3	4
4.1.23	Porcelain polishing kit	Complete, standard kit, accessories	4
4.1.24	Pumice powder	a) Coarse, 1kg (5)	3
		b) Medium, 1kg (5)	3
4.1.25	Refractory die material kit	Powder 30g + liquid 15mL	4
4.1.26	Sticky wax	Sticks (12)	3
4.1.27	T-band	a) Small (100)	3
		b) Large (100)	3
4.1.28	Tooth material kit	Shades A1, A2, A3, A3-5, B1, B2, B3, C1, C3	3
4.1.29	Whiting powder	1kg pack (5)	3
<b>4.2 Instruments</b>			
4.2.1	Impression tray set	a) Dentate, assorted, upper & lower (pairs)	3
		b) Edentulous, assorted, upper & lower (pairs)	3
4.2.2	Orthodontic plier kit	Assorted set including: Adams, clasp bending, crimping, flat nose, loop-forming, spring former, wire-bending	3
4.2.3	Retraction cord packing instruments	Standard, circler, plain , serrated (pcs)	3
<b>4.3 Devices</b>			
4.3.1	Articulator	a) Universal, free plane	3
		b) Universal, plain line	3
4.3.2	Autoclave	23L	2
4.3.3	Bench press (flask holder)	Two flask capacity	3
4.3.4	Casting unit	All types, casting centrifugal unit, Induction type, accessories, 560 x 400 x 580 mm, 220-240V	3
4.3.5	Curing bath unit	5 x 3 flask capacity	3
4.3.6	Curing flask	Bronze forged, upper, lower (pairs)	3

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#	Item Name	Description	LOU
4.3.7	Laboratory micromotor unit	Portable, heavy duty, (2,000-50,000) rpm, foot control, brushless 220-240v	3
4.3.8	Mixing bowls	a) PVC, 300mL	3
		b) PVC, 400mL	3
4.3.9	Model trimmer	Dual wheel, 2 x 450w	3
4.3.10	Polishing lathe unit	Complete with suction, 2-speed, wet/dry, 1000-3000 rpm, 240v 200/500w	3
4.3.11	Porcelain furnace	Portable, unrestricted programme design, 220-240V, 50/60Hz, 385 x 710 x 285mm, with accessories	4
4.3.12	Protective eye glass	Non-fog, reduced glare, non-slip fit, side shields	3
<b>5. Pulp Therapy</b>			
<b>5.1 Consumables</b>			
5.1.1	Barbed broach	21mm (10)	3
5.1.2	Camphor monochlorophenol (CMCP)	15mL	3
5.1.3	Endodontic file, sizes 15-80	a) 21mm (6)	3
		b) 25mm (6)	3
		c) 31mm (6)	3
5.1.4	Endodontic reamer, sizes 15-80	a) 21mm (6)	3
		b) 25mm (6)	3
		c) 31mm (6)	3
5.1.5	Endodontic reamer	Ni-Ti (15-80), sizes: 10/04, 15/05, 20/06, 25/06, cassette (8)	4
5.1.6	Ethylenediaminetetraacetic acid (EDTA)	125mL	3
5.1.7	Ferrous sulphate solution	15.5%, 4.5g	3
5.1.8	Formocresol	4.5g bottle	3
5.1.9	Gates gidden drill	Pack of 6	3
5.1.10	Gutta-percha	Sizes 15-80, assorted pack, 6vials/cells, points (120)	3
5.1.11	Mummifying paste	12g jar	3
5.1.12	Paper point	Absorbent, size 15-80, sterile (200)	3

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#	Item Name	Description	LOU
5.1.13	Polishing disc	Diamond, with mandrel	3
5.1.14	Retention post system ( <i>Para-Post</i> ®)	Vented & serrated posts, stainless steel (10)	3
5.1.16	Retraction cord	a) Thin (100 )	3
		b) Medium (100)	3
		c) Thick (100)	3
5.1.17	Root canal sealant kit	2-paste system, base and catalyst	3
5.1.18	Rubber dam kit (adult/child)	a) Rubber dam clamps No. 26, 27, 28, 29, 30, 31, 51, 60	4
		b) Rubber dam holder, SS	4
		c) Rubber dam forceps	4
		d) 1.93mm punch	4
		e) Rubber dam frame adult, child, SS	4
		f) Heavy squares of rubber dam material	4
5.1.19	Tetrachloroethylene (root filling remover)	13mL	4
5.1.20	White polishing stone	a) Mounted (10)	3
		b) Unmounted (10)	3
<b>5.2 Instruments</b>			
5.2.1	Cotton/dressing plier	a) Regular tip with stop pin	3
		b) Serrated tip with stop pin	3
5.2.2	Endo-aspirator	1.7mm, right angle, SS	4
5.2.3	Retraction cord packing instruments	a) Standard-circlet, plain, serrated, double-end	3
		b) Circlet-serrated, angled, double end	3
5.2.4	Root canal condenser/spreader	Double-end, SS	3
5.2.5	Root canal plugger	Double-end, SS	3
<b>5.3 Devices</b>			
5.3.1	Glass bead warmer	Capacity 14 X 13 X 19cm, chamber (5cm diameter), 200 glass beads	3

## Annex 1: Contributors to KEMSL 2016 Development

Following is a list of those who contributed to the various stages of KEMSL 2016 development as described on p.ix indicating their position or area of expertise and place of work.

### The National Medicines & Therapeutics Committee (NMTC 2014)

Dr Izaq Odongo	MoH, Head of DCRHS (Chair)
Dr Sarah Chuchu	MoH, Pharmaceutical Services (Secretary)
Dr Esther Ogara	MoH, Research
Dr Priscilla S Migiro	MoH, Specialised Clinical Services
Mr Micah Kisoo	MoH, General Clinical Services
Dr Josphat Mbuva	MoH, Pharmaceutical Services
Mr Fredrick Omiah	MoH, Nursing Services
Mr Francis Mwalloh	MoH, Medical Laboratory Services
Dr Elizabeth Onyiego	MoH, Oral Health Services

### The Technical Working Group on KEMSL Development

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## KEMSL 2016

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Dr Miriam Mureithi	MoH, Dental/public health specialist
Dr Mary Mwacharo	KNH, Dental/public health specialist
Dr Chris Forshaw	MoH/Danida, Technical Advisor and Editor

### Acronyms

Danida	Danish International Development Assistance
HCMP	Health Commodities Management Programme
KEMSA	Kenya Medical Supplies Agency, Nairobi
KNH	Kenyatta National Hospital, Nairobi
MEDS	Mission for Essential Drugs and Supplies, Nairobi
MoH	Ministry of Health HQ, Nairobi
MSH	Management Sciences for Health, Nairobi
NPHL	National Public Health Laboratory, Nairobi
UoN	University of Nairobi
SDS	School of Dental Sciences

## Annex 2: References

1. *KEMSA Customer Order Form (current version April 2015)* Kenya Essential Medical Supplies Authority, Nairobi  
Used to obtain information on local (public sector) medical supplies availability and prices.
2. *MEDS Catalogue 2016*, Mission for Essential Drugs & Supplies, Nairobi  
Used to obtain information on local (FBO sector) medical supplies availability and prices.
3. *UNICEF Supply Catalogue* (available at [https://supply.unicef.org/unicef\\_b2c/app/displayApp/\(layout=7.0-12\\_1\\_66\\_67\\_115&carea=%24ROOT\)/.do?rf=y](https://supply.unicef.org/unicef_b2c/app/displayApp/(layout=7.0-12_1_66_67_115&carea=%24ROOT)/.do?rf=y))  
Source of information on (and specifications of) the most widely used medical supplies
4. *Essential Medicines and Health Supplies List for Uganda (EMHSLU 2012)*, Ministry of Health, Kampala, Uganda (available at <http://www.medicines Transparency.org/fileadmin/uploads/News/Essential%20Medicines%20%26%20Health%20Supplies%20List%202012.pdf>)  
Useful for comparative purposes
5. *The Interagency Emergency Health Kit 2011: Medicines and medical devices for 10,000 people for approximately three months*, WHO/UNICEF (available at <http://www.who.int/medicines/publications/emergencyhealthkit2011/en/>)  
Useful for information on the most critical medical supplies
6. *Disaster Management Guidelines, Emergency Surgical Care In Disaster Situations*, WHO (2009) (available at <http://www.who.int/surgery/publications/EmergencySurgicalCareinDi>

[asterSituations.pdf](#)) Has useful Essential Emergency Equipment Generic List

7. *Medical supplies and equipment for primary health care: A practical resource for procurement and management*, ECHO (2001) (available at <http://apps.who.int/medicinedocs/documents/s20282en/s20282en.pdf>) Has useful information on types, specifications and quantities of essential medical supplies needed for this level
8. *Solomon Islands Essential Medical Supplies List 2015*, National Pharmacy Services Division, Ministry of Health & Medical Services (available at <https://www.medbox.org/solomon-islands-essential-medical-supplies-list-2015/download.pdf>). Comprehensive list which is useful for comparison and checking completeness.





**3. Supporting Arguments/Evidence Base:**

**4. Supporting References/Relevant Documentation:**

**5. Signature:**

**6. Date:**

## **Annex 4: Terms of Reference for the TWG on Development of the KEMSL**

- a) Selection of medical supplies for listing on Kenya Essential Medical Supplies List
- b) Application of best practices in the review process, eg. essential medicines concepts, principles of rational selection, affordable prices and sustainable financing
- c) Make reference to the Constitution of Kenya 2010, Vision 2030, Kenya Health Policy 2014-2030 and Kenya National Pharmaceutical Policy and any other relevant documents in the review process
- d) Adhere to the standard operating procedures (SOPs) developed and adopted by the NMTC for the review process including those for managing conflict of interest
- e) Engage/consult/collaborate with relevant experts and stakeholders in the review process

## Annex 5: The National Medicines & Therapeutics Committee (2014)

### Membership<sup>15</sup>:

1. Director of Medical Services (DMS) (Chair)
2. Head, Pharmaceutical Services/Chief Pharmacist (Secretary)
3. Pharmacist (Pharmaceutical Services/Medicines Supply Chain)
4. Head, Nursing Services
5. Head, Laboratory Services
6. Head, Oral Health Services
7. Head, Specialised Clinical Services
8. Head, General Clinical Services
9. Head, Research Unit
10. Head, Administration

### Terms of Reference:

1. Coordinate the development and review of policies on clinical governance and use of medicines & other EHPT<sup>16</sup>
2. In coordination with the MoH Department of Health Standards, Quality Assurance & Regulation (DHSQAR) develop standards and guidelines on:
  - Establishment and operations of Medicines and Therapeutics Committees at various levels (national, county and institutional)
  - Appropriate prescribing and dispensing
  - Safe and cost-effective use of medicines and other EHPT, including use of evidence-based standardized approaches, adverse event monitoring and reporting, medicines information, and quality assurance
  - Clinical audits and medicines use evaluation studies
3. In coordination with DHSQAR, formulate, review and update all relevant therapeutics guidelines, including the:
  - National Clinical Guidelines

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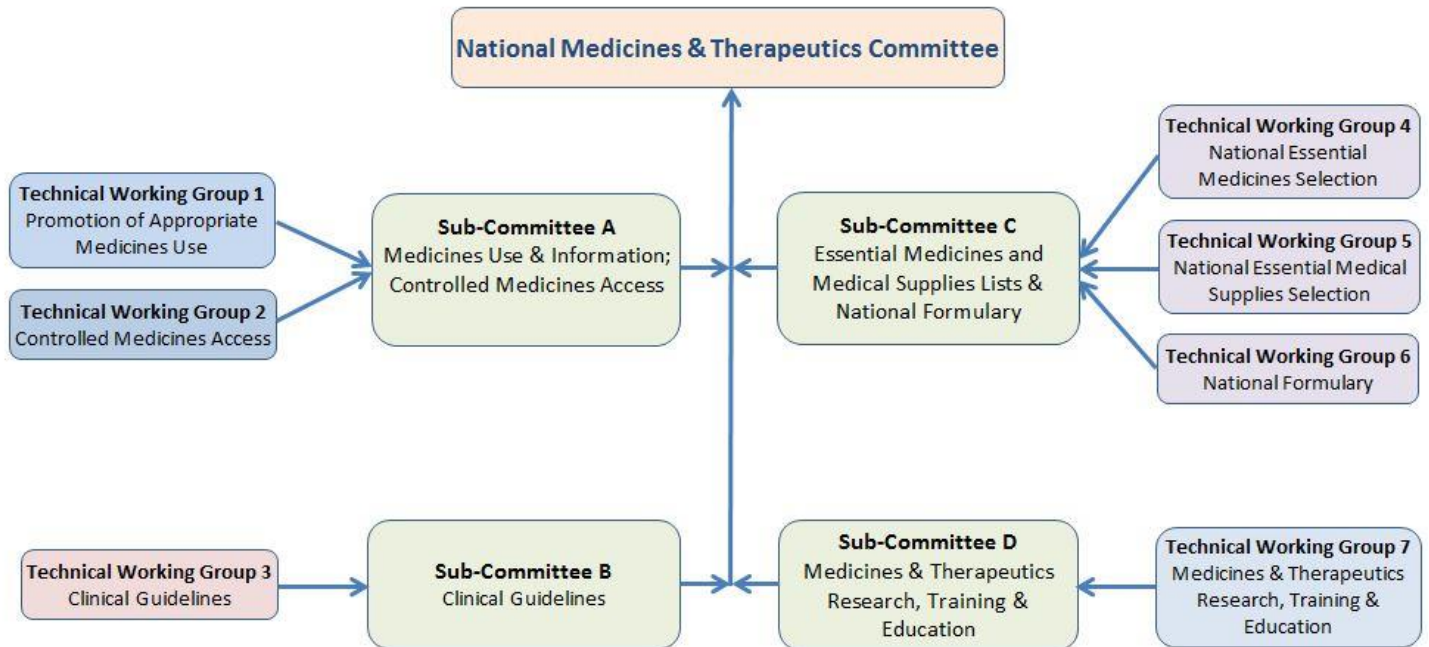
<sup>15</sup> All MoH officers

<sup>16</sup> Essential Health Products and Technologies

- National Formulary
  - National Essential Medicines & Medical Supplies (Devices) lists
4. In collaboration with relevant stakeholders, review medicines and therapeutics research findings and recommend appropriate interventions to inform policy development; identify, propose and commission as appropriate, areas requiring further research
  5. Collaborate with the relevant National and County health authorities to plan and implement mitigation measures in the event of emergency disease outbreaks or health threats, e.g. identification of items for inclusion in buffer stocks of EHPT, coordination and use of emergency donations
  6. Collaborate with relevant departments involved in the introduction of disease-based or vertical programmes in relation to the selection and use of any medicines and/or other EHPT
  7. Increase awareness and understanding of the critical role, functions and activities of the NMTC and advocate for adequate support and funding
  8. Provide leadership in improving awareness and education relating to the safe and appropriate use of medicines & other EHPT amongst health care professionals and consumers
  9. Provide technical support to county and facility MTCs through the development and dissemination of MTC guidelines, training materials, and capacity building
  10. Support the development, review and revision as necessary of pre-service, in-service and CPD training courses in therapeutics and the management and use of medicines and other EHPT
  11. Perform any other relevant task as may be assigned by the appointing authority

See over for the **NMTC Organisational Structure**

## Organisational Structure



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The **Kenya Essential Medical Supplies List 2016** is an indispensable guide to medical supplies recommended for use in the management of common conditions in Kenya. It is primarily directed at health care providers and medical supplies managers in all health sectors (public, faith-based, private). It should be used together with the current versions of updated national clinical guidelines for conditions where such guidelines exist.

As technical and administrative guides for the health sector, these documents should also be of great interest and usefulness to healthcare trainers, trainees, interns and researchers as well others who may have an interest in, or responsibility for, the national health system.

The medical supplies recommended in the KEMSL have been carefully and systematically selected using a meticulous process, applying well-defined criteria, and based on the latest available and internationally accepted evidence on best clinical practice and patient management.

Therefore, they are the optimum set of medical supplies needed to ensure provision of the Kenya Essential Package for Health (KEPH), which is part of the sector's comprehensive approach for health services delivery to the population. The KEMSL is published in the context of ongoing health reforms aimed at *reversing the declining trends in the national health status*, by ensuring equitable access to healthcare services.

The KEMSL is a key guide for ensuring access to Essential Medical Supplies, aimed at stimulating investment in local production, procurement and supply systems, and improved utilisation of medical supplies, as well as strategies for healthcare financing and for Appropriate Medical Supplies Use (AMSU). Routine use as recommended can be expected to have a major positive impact on the health status of Kenyans.