

MINISTRY OF HEALTH



Republic of Uganda

**Essential Medicines and Health Supplies List for Uganda
(EMHSLU)**

2012

Essential Medicines and Health Supplies List for
Uganda 2012 (EMHSLU)

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Foreword

The Ministry of Health elevated the Pharmacy section to a division because of the pharmaceutical sector's important contribution to achieving the overall outcomes and goals related to the health sector. The *National Health Policy*, the *National Drugs Policy*, the *Health Sector Strategic and Investment Plan*, and the *National Pharmaceutical Sector Strategic Plan* emphasize the promotion of appropriate use of medicines, health and laboratory supplies.

Appropriate use of medicines requires good diagnostic skills and access to well-performed laboratory services, good prescribing practices that follow clinical guidelines, good dispensing practices, and adherence to treatment by the patient. Very importantly, appropriate use requires the availability of essential medicines and health supplies (EMHS) at every service delivery point combined with an efficient monitoring and evaluation system.

For the first time in Uganda, essential medicines, health and laboratory supplies have been integrated into one list with the recognition that all three (essential medicines, health and laboratory supplies) are integral to the diagnosis and appropriate treatment of diseases. In addition, the combined essential medicines, health and laboratory supplies list has been level of use categorized and VEN classified. VEN classification is a

method for prioritizing items according to health impact. Both level of use and VEN classification are included to help facilities prioritize which items to order with the often limited funding they are allocated. By prioritizing correctly, stock levels of life-saving medicines and health supplies at the facility will increase, leading to better health care service for Ugandans. Using the Essential Medicines and Health Supplies List for Uganda (EMHSLU) to guide the quantification and procurement processes by level of use will result in the right conditions being treated at the right level of use and will possibly improve the referral system and overall health care services.

After VEN classification, 32% (195/604) of medicines, 32% (176/553) of health supplies and 36% (369/1013) of laboratory supplies were classified as Vital. If facilities prioritize the procurement (or ordering) of Vital medicines, health and laboratory supplies instead of procuring Essential and Necessary items the quantities of Vital items would increase proportionally to the increased budgetary allocation previously spend on Essential and Necessary items. This increase of Vital items would improve the facilities' ability to manage life-threatening conditions and diseases.

During their updates, the EMHSLU and *Uganda Clinical Guidelines* (UCG) were harmonized to ensure inclusion in the EMHSLU of all essential medicines, health and laboratory supplies needed to treat common conditions according to the UCG.

I recommend that the EMHSLU 2012 be used not only by providers in the public sector, but also by providers in the private not for profit and private for profit sectors to assure appropriate treatment and use of medicines, thereby avoiding polypharmacy. This will increase cost-effectiveness of the use of medicines, health and laboratory supplies in Uganda.



Hon. Dr. Ondoa J. D Christine

MINISTER OF HEALTH

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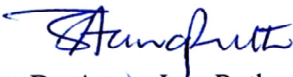
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Abbreviations and units

ad	auto-disable
ACTH	adrenocorticotrophic hormone
ALAT	alanine aminotransferase
ALT	alanine aminotransferase
ASAT	aspartate aminotransferase
AST	aspartate aminotransferase
BB	blood bank
blister	blister packed tablets/capsules
BNF	British National Formulary
BP	British Pharmacopoeia
BPC	British Pharmaceutical Codex
Ch	charriere size = 0.33cm
CD4	cluster of differentiation 4
CO2	carbon dioxide
DHS	dynamic hip screw
disp	disposable
DNA	deoxyribonucleic acid
EC	enteric coated
EEG	electroencephalography
EN	European standards
FG	French gauge
g	gram = 1,000 mg = 0.001 kg
H	hospital
HBMF	home based management of fever
HC4	health centre 4
HC3	health centre 3
HC2	health centre 2
HC1	health centre 1
HCV	hepatitis C virus
HDL	high density lipoprotein
HIV	human immunodeficiency virus

HMIS	health management information system
IgM	immunoglobulin M
IM	intramuscular
inf	infusion
inj	injection
IT	intrathecal
IU	international units
IV	intravenous
Ka	potassium
L	litre = 1,000 ml
LDL	low density lipoprotein
mg	milligram = 1,000 µg
Mg	magnesium
ml	millilitre = 0.001 L
MOH	Ministry of Health
MU	mega unit = one million (1,000,000) units
NaCl	sodium chloride
NR	national referral hospital
OPG	orthopantomograph
PCR	polymerase chain reaction
PMMA	polymethylmethacrylate
PFI	powder for injection
PFR	powder for reconstitution
PGA	polyglycolic acid
P.O.P	plaster of paris
RL	regional laboratory
RR	regional referral hospital
SC	subcutaneous
SR	slow-release
ul	micro liter = 0.001ml
W.O.W	without woven edge
µg	microgram = 0.001mg

Introduction

In 1999, the World Health Organization Expert Committee on Essential Medicines defined essential medicines as those medicines that satisfy the health care needs of the majority of the population at a price patients and the community can afford. The essential medicines should be available at all times, in adequate amounts, and in appropriate dosage forms.

The essential medicines concept is a public health principle that promotes efficient use of resources by establishing and using a limited list of carefully selected medicines. By selecting a few medicines, better treatment and easier supply, storage, and distribution can be assured at a lower cost. The concept is based on the observations that—

- The vast majority of health problems for most of the population can be treated with a small number of carefully selected medicines.
- In practice, most doctors and other health professionals routinely use fewer than 200 medicines; training and clinical experience should focus on the proper use of these medicines.

VEN classification

In VEN classification, items (medicines, health and laboratory supplies) are divided into three groups –

- Vital (V)—items are used to diagnose and manage life-threatening diseases
- Essential (E)—items are effective in diagnosis and management of less severe, but nevertheless, widespread illnesses
- Necessary (N)—items are used to diagnose or manage diseases with less impact on the population, or items with a high cost for marginal therapeutic benefit

Vital items have first priority, because they are lifesaving or critical for achieving targeted health outcomes. If these items are not available, it could mean the death of a patient or irreparable injury. Essential items have second priority; if these items are not available, the patient could suffer pain or great discomfort. Necessary items are needed and therefore on the order form; however, they have third priority.

The VEN-classified 2012 Essential Medicines and Health Supplies List for Uganda (EMHSLU) will help NMS prioritize which medicines and supplies to procure and which products to include in kits. Health facilities that do place orders for essential medicines, health and laboratory supplies are expected to order Vital products first, and if the budget allows, then order Essential products followed by Necessary products.

With limited resources available, facilities need to consistently keep the most important items on hand to manage and diagnose life-threatening conditions. VEN classification guides health workers to correctly prioritize items to procure and order based on health impact. Procurement, stock, and storage management are simplified by having a limited number of items available, which leads to better supply chain efficiency and effectiveness.

Uganda Medicine and Therapeutic Advisory Committee (UMTAC)

The Uganda Medicines and Therapeutic Advisory Committee (UMTAC) is a newly formed committee under Ministry of Health (MOH) with the overall goal to promote availability and appropriate use of medicine and health supplies in the private and public sectors.

UMTAC is comprised of up to 20 members that are appointed by the Director General Health Services. The members are specialists from different areas of Uganda's health care sector including Mulago Hospital, Makerere University and MOH technical programs. Please refer to the Acknowledgements section for a full list of UMTAC members. The Quality Assurance Department and the Pharmacy Division provide the Secretariat for UMTAC. For more details on UMTAC, please visit www.UMTAC.ug.

One of UMTAC's first major responsibilities have been the revision of the 2007 Essential Medicines List for Uganda.

Development of Essential Medicines and Health Supplies List for Uganda

UMTAC decided to extend the list to include health and laboratory supplies, introduce the VEN classification and categorize items as general or specialist. The general items can be used by all prescribers in HC1-4, hospital (H), regional referral hospital (RR) and national referral hospital (NR). Specialist items can only be used by specialized workers such as dentists, surgeons or midwives and is needed in lower quantities than the general products.

The three lists were drafted on the basis of the 2010 *Uganda Clinical Guidelines*, treatment guidelines from MOH public health programmes and the work from three UMTAC sub-committees; the medicine list sub-committee headed by the Pharmacy Division, the health supplies list sub-committee headed by a group of surgeons from Mulago Hospital and the laboratory supplies sub-committee headed by Central Public Health Laboratories. The draft 2012 EMHSLU was finalised following wide consultation including a three-day stakeholder workshop attended by 56 specialists and wide circulation of the proposed lists.

When deciding on the items to include in the lists, price of formulation was considered. For example, syrups and suspensions are usually more expensive than tablets and therefore are given a lower priority. The VEN classification of medicine was based on specialists' experience on the best ways to treat important conditions and diseases in Uganda. VEN classification of health and laboratory supplies was based on which items are needed for basic health care and treatment of important diseases.

Composition of the EMHSLU

The EMHSLU 2012 comprise a total of 604 medicines, 553 health supplies and 1013 laboratory supplies with 32%, 32% and 36% items classified as Vital on each list.

Table 1: Medicines in EMHSLU 2012 by level of use (LOU) and VEN classification

VEN LOU	Vital	Essential	Necessary	Total
Specialist	51	53	64	168
NR	2	3	2	7
RR	7	25	28	60
H	23	30	27	80
HC4	39	44	41	124
HC3	28	29	17	74
HC2	35	20	18	73
HC2 (HC1)	9	4	5	18
Total	194	208	202	604

Table 2: Supplies in EMHSLU 2012 by level of use (LOU) and VEN classification

VEN LOU	Vital	Essential	Necessary	Total
Specialist	33	182	37	252
NR	9	0	4	13
RR	8	6	1	15
H	26	26	5	57
HC4	56	32	24	112
HC3	9	16	5	30
HC2	29	22	14	65
HC2 (HC1)	6	1	2	9
Total	176	285	92	553

Table 3: Laboratory supplies in EMHSLU 2012 by level of use (LOU) and VEN classification

VEN LOU	Vital	Essential	Necessary	Total
BB	17	4	0	21
RL	22	0	0	22
RR	21	50	0	71
H	51	85	75	211
HC4	198	270	70	538
HC3	50	51	36	137
HC2	10	3	0	13
Total	369	463	181	1013

Changes to the 2007 EMLU

A total of 104 medicines were deleted from the 2007 Essential Medicine List for Uganda (EMLU) and 176 new medicines were included in 2012 essential medicines list. The main reasons for deletion and addition of medicines were new treatment guidelines and development of new and better formulation or fixed dose combinations.

Essential medicines deleted from 2007 edition

1. Acyclovir tablet 400mg
2. Alcuronium chloride injection 5mg/ml IV
3. Amoxicillin injection (PFR) 500mg IV/IM/inf
4. Amoxicillin syrup (PFR) 125mg/5ml
5. Ascorbic acid (vitamin C) tablet 100mg
6. Atropine injection 1mg/ml IV/IM
7. Betamethasone tablet 0.5mg
8. Bismuth chelate tablet 120mg
9. Calcium folinate (folinic acid) tablet 15mg
10. Chlordiazepoxide tablet 10mg
11. Chlordiazepoxide tablet 25mg
12. Chloroquine injection 40mg base/ml IM/SC
13. Chloroquine syrup 75mg base/5ml
14. Cimetidine tablet 400mg
15. Clofazimine capsule 100mg
16. Clonazepam injection 500mg/ml IV
17. Coal tar ointment 1%
18. Cortisone tablet 12.5mg
19. Cotrimoxazole syrup 240mg/5ml
20. Cyclizine injection 50mg/ml IM/slow IV
21. Cyclizine tablet 50mg
22. Cyproheptadine syrup 2mg/5ml
23. Cyproheptadine tablet 4mg
24. Dapsone tablet 100mg
25. Dexamethasone tablet 4mg

26. Didanosine tablet 25mg
27. Dihydrocodeine tablet 30mg
28. Diphtheria antitoxin injection 10,000 IU IM
29. Domperidone suppository 30mg
30. Edrophonium injection 10mg/ml IV
31. Efavirenz capsule 50mg
32. Efavirenz oral solution 30mg/ml
33. Electrolyte solutions for dialysis
34. Enflourane inhalation
35. Ergometrine + Oxytocin injection 500µg + 5IU/ml
IM
36. Ergometrine tablet 200µg
37. Erythromycin oral suspension (PFR) 125mg/5ml
38. Ethosuximide syrup 250mg/5ml
39. Ethyl chloride spray
40. Flucloxacillin capsule 250mg
41. Fluconazole tablet or capsule 100mg
42. Flucoxacillin syrup (PFR) 125mg/5ml
43. Folic acid tablet 1mg
44. Glyceryl trinitrate patch 200µg
45. Haloperidol decanoate injection oily 50mg/ml deep
IM
46. Ipecacuanha syrup 0.14%
47. Ketamine paed 10mg/ml IV/IM
48. Ketoconazole oral suspension 100mg/5ml
49. Lamivudine syrup 10mg/ml
50. Lamivudine+stavudine+nevirapine tablet
150+40+200mg
51. Lamivudine+stavudine+nevirapine tablet
150+30+200mg
52. Lamivudine+zidovudine+efavirenz tablet
150+300+600mg
53. Levodopa + carbidopa tablet 100mg + 10mg
54. Levonorgestrel implant capsules 28mg/capsule

55. Lignocaine dental cartridge 2%
56. Lignocaine paste 2-4%
57. Metformin tablet 850mg
58. Morphine injection 15mg/ml IV/IM/SC
59. Morphine tablet 30mg
60. Morphine tablet SR 10mg
61. Morphine tablet SR 30mg
62. Morphine tablet SR 60mg
63. Naloxone injection paed 20µg/ml IV/IM/SC
64. Nelfinavir tablet 250mg
65. Neomycin + betamethasone eye drops 0.5% + 0.1%
66. Nitrazepam tablet 5mg
67. Norgestrel tablet 75µg
68. Pethidine tablet 50mg
69. Phenytoin suspension 30mg/5ml
70. Primaquine tablet 7.5mg
71. Probenecid tablet 500mg
72. Prochlorperazine injection 12.5mg/ml deep IM
73. Propranolol tablet 10mg
74. Propranolol tablet 80mg
75. Quinidine tablet 200mg
76. Quinine mixture 100mg/5ml
77. Rabies vaccine human diploid injection IM/deep SC
single dose
78. Retinol (vitamin A) capsule (drops) 50,000IU
79. Rifampicin + isoniazid syrup 100mg + 50mg/5ml
80. Rifampicin + isoniazid tablet or capsule 150mg +
100mg
81. Rifampicin tablet or capsule 150mg
82. Rubella vaccine IM/deep SC single dose
83. Salbutamol injection 1mg/ml IV/inf
84. Salbutamol tablet 4mg
85. Salicylic acid ointment 5%
86. Senna tablet 7.5mg

87. Simple linctus syrup (BNF formula)
88. Sodium calcium edentate injection 200mg/ml IV
89. Sodium cromoglycate inhaler 5mg/metered dose (for adults)
90. Sodium nitrite injection 30mg/ml IV
91. Stavudine oral solution
92. Stavudine tablet 30mg
93. Stavudine tablet 40mg
94. Stavudine+didanosine +lopinavir/ritonavir tablet
95. Stilboestrol tablet 1mg
96. Thioridazine tablet 100mg
97. Thioridazine tablet 25mg
98. Tolbutamide tablet 500mg
99. Tubocurarine injection 10mg/ml IV
100. Typhoid vaccine injection IM/deep SC single dose
101. Verapamil tablet 40mg
102. Vincristine injection (PFR) 5mg IV
103. Vitamin B complex injection IM
104. Zidovudine+didanosine+lopinavir/ritonavir tablet

Essential medicines added to the 2012 edition

1. Abacavir oral solution 20mg/ml
2. Abacavir/lamivudine tablet 60mg/30mg
3. Acetylsalicylic acid tablet 75mg
4. Adenosine injection 3mg/ml
5. Alcohol with glycerine solution 70%
6. Alprazolam tablet 0.5mg
7. Amino acids injection, paediatric 10%
8. Amiodarone hydrochloride sterile concentrate 50mg/ml
9. Amiodarone hydrochloride tablet 200mg
10. Amlodipine tablet 10mg
11. Amphotericin B oral suspension 100mg/ml
12. Anthrax vaccine injection 0.125ml/0.5ml dose
13. Artesunate injection 60mg/ml
14. Artesunate suppository 200mg
15. Artesunate suppository 50mg
16. Atazanavir/ritonavir tablet 300mg/100mg
17. Azathioprine sodium powder for injection 100mg
18. Benzhexol hydrochloride tablet 2mg
19. Betamethasone injection 4mg/ml
20. Biphasic isophane insulin injection 20% soluble insulin+70% isophane insulin in 100IU/ml
21. Bleomycin powder for injection 15,000U
22. Bupivacaine hydrochloride (with preservative) injection 0.5%
23. Bupivacaine hydrochloride injection 0.5%
24. Calcium chloride (dehydrate) injection 10%
25. Calcium gluconate injection 10%
26. Candesartan cilexetil tablet 8mg
27. Carbamazepine tablet, chewable 100mg
28. Carboplatin injection 10mg/ml
29. Carvedilol tablet 12.5mg

30. Cefixime tablet 200mg
31. Cerebrolysin injection 5ml
32. Cetirizine hydrochloride tablet 10mg
33. Chlorambucil tablets 2mg
34. Chlorhexidine cutaneous solution 2%
35. Chlorhexidine gluconate mouthwash 0.2%
36. Chlorhexidine solution 0.05%
37. Cisatracurium injection 2mg/ml
38. Cisplatin injection 1mg/ml
39. Clindamycin injection 150mg/ml
40. Coal tar solution 5%
41. Combined mineral vitamin mix powder
42. Cotrimoxazole intravenous infusion 96mg/ml
43. Cyclosporin capsule 100mg
44. Cyclosporin concentrate for IV inf 50mg/ml
45. Cyclosporin tablet 25mg
46. Dexamethasone sodium phosphate eye drops 0.1%
47. Dexamethasone tablet 0.5mg
48. Dexamethasone+tobramycin topical 0.1%+0.3%
49. Diazepam injection 5mg/ml
50. Diclofenac suppository 12.5mg
51. Diclofenac suppository 50mg
52. Diethylcarbamazine tablet 100mg
53. Diphtheria-Pertussis-Tetanus-Hepatitis B-
Haemophilus injection vial
54. Dobutamine concentrate for IV infusion 12.5mg/ml
55. Docetaxel infusion 10mg/ml
56. Efavirenz capsule 100mg
57. Embricitabine capsule 200mg
58. Enalapril maleate tablet 5mg
59. Enoxaparin sodium injection 100mg/ml
60. Etomidate injection 2mg/ml
61. Etonogestrel implant 68mg
62. Etoposide powder for injection 100mg

63. Fat emulsion injection 20%
64. Ferrous salt paediatric oral solution 25mg/ml
65. Flumazenil injection 0.1mg/ml
66. Fluorouracil injection 50mg/ml
67. Fluoxetine capsule 20mg
68. Formula 100 powder 100kCal+2.9g protein/100ml
69. Formula 75 powder 75kCal+0.9g protein/100ml
70. Gemcitabine powder for injection 200mg
71. Glimepiride tablet 4mg
72. Glycopyrrolate injection 200µg/ml
73. Goserelin implant 3.6mg
74. Granisetron injection 1mg/ml
75. Halothane liquid for inhalation 100%
76. Human papilloma virus vaccine (type 16+18) injection 40µg/ml+40µg/ml
77. Hyaluronidase injection 1,500IU
78. Hydrocortisone sodium succinate powder for injection 100mg
79. Hydroxocobalamin (vitamin B12) injection 1mg/ml
80. Hydroxyethylcellulose (artificial tears) eye drops 0.44%
81. Ifosfamide powder for injection 1g
82. Iodine+potassium iodide solution 2%
83. Irinotecan hydrochloride infusion 20mg/ml
84. Labetalol hydrochloride injection 5mg/ml
85. Lactulose solution 3.1-3.7g/5ml
86. Lamotrigine tablet 100mg
87. Levodopa+carbidopa tablet 100mg+25mg
88. Levonorgestrel implant 75mg
89. Levonorgestrel tablet 750µg
90. Lignocaine hydrochloride + adrenaline injection 1% + 1:200,000
91. Lignocaine hydrochloride injection 50mg/ml

92. Liquid concentrate for haemodialysis liquid
32mEq/L+5mEq/L
93. Liquid concentrate for haemodialysis liquid
33mEq/L+4mEq/L
94. Lopinavir/ritonavir oral solution 80/20mg/ml
95. Lopinavir/ritonavir tablet 200mg/50mg
96. Losartan potassium tablet 50mg
97. Mebendazole tablet 100mg
98. Medical air medical gas
99. Mefloquine tablet 250mg
100. Methylphenidate hydrochloride tablet 5mg
101. Methylprednisolone powder for injection 500mg
102. Methylrosanilinium chloride (gentian violet) paint
0.5%
103. Misoprostol tablet 200µg
104. Mitomycin powder for injection 20mg
105. Morphine oral solution 20mg/ml
106. Naltrexone hydrochloride tablet 50mg
107. Natamycin eye ointment 1%
108. Neomycin sulphate+dexamethasone eye
drops/ointment 0.35%+0.1%
109. Noradrenaline acid tartrate injection 2mg/ml
110. Olanzapine tablet 10mg
111. Oseltamivir phosphate tablet 75mg
112. Paromomycin capsules 250mg
113. Peritoneal dialysis solution 1.5% (glucose)
114. Peritoneal dialysis solution 2.5% (glucose)
115. Peritoneal dialysis solution 4.25% (glucose)
116. Phenylephrine hydrochloride injection 10mg/ml
117. Pneumococcal polysaccharide conjugate vaccine
injection 0.5ml/dose vial
118. Phytomenadione (vitamin K1) injection 1mg/ml
119. Pilocarpine, intracameral injection 0.5%
120. Pioglitazone tablet 30mg

121. Povidone eye drops 5%
122. Prednisolone acetate forte eye drops 1%
123. Prednisolone sodium phosphate eye drops 0.5%
124. Prednisolone tablet 20mg
125. Prednisolone tablet 5mg
126. Prednisolone tablet 5mg
127. Promethazine hydrochloride injection 25mg/ml
128. Promethazine hydrochloride tablet 25mg
129. Rabeprazole sodium injection 20mg
130. Ranitidine injection 25mg/ml
131. Ready to use therapeutic feeds paste
132. Remifentanyl hydrochloride powder for injection
1mg
133. Rifampicin+clofazimine+dapsone tablet
450mg+150mg+50mg
134. Rifampicin+clofazimine+dapsone tablet
600mg+300mg+100mg
135. Rifampicin+dapsone 450mg+50mg
136. Rifampicin+dapsone tablet 600mg+100mg
137. Rifampicin+isoniazid tablet 150mg+75mg
138. Rifampicin+isoniazid tablet 60mg+30mg
139. Rifampicin+isoniazid+pyrazinamide tablet
60mg+30mg+150mg
140. Rifampicin+isoniazid+pyrazinamide+ethambutol
tablet 150mg+75mg+400mg+275mg
141. Risperidone tablet 2mg
142. Ritodrine hydrochloride tablet 10mg
143. Rituximab concentrate for IV inf 10mg/ml
144. Rocuronium bromide injection 10mg/ml
145. Rotavirus vaccine, live attenuated oral suspension
1.5ml prefilled oral syringe
146. Sodium chromoglycate eye drops 2%
147. Sodium hyaluronate intraocular liquid 12mg/ml
148. Sodium valproate syrup 200mg/5ml

149. Sodium valproate tablet (crushable) 100mg
150. Sodium valproate tablet (enteric coated) 500mg
151. Starch emulsion injection
152. Stavudine/lamivudine tablet 12mg/30mg
153. Stavudine/lamivudine tablet 30mg/150mg
154. Stavudine/lamivudine tablet 6mg/30mg
155. Stavudine/lamivudine/nevirapine dispersible tablet
12mg/60mg/100mg
156. Stavudine/lamivudine/nevirapine dispersible tablet
6mg/30mg/50mg
157. Temozolamide capsule 250mg
158. Tenofovir disoproxil tablet 300mg
159. Tenofovir disoproxil/emtricitabine tablet
300mg/200mg
160. Tenofovir disoproxil/lamivudine tablet
300mg/150mg
161. Tenofovir/emtricitabine/efavirenz tablet
300mg/200mg/600mg
162. Tenofovir/lamivudine/efavirenz tablet
300mg/300mg/600mg
163. Thiamine injection 100mg/ml
164. Thiamine tablet 100mg
165. Tobramycin eye drops 0.3%
166. Trichloroacetic acid cream 10%
167. Tryptan blue ophthalmic solution 0.06%
168. Vancomycin injection 500mg
169. Vecuronium bromide powder for injection 10mg
170. Vitamin B compound (vitamin B3+B2+B1) tablet
171. Zidovudine solution 10mg/ml
172. Zidovudine/lamivudine tablet 200mg/150mg
173. Zidovudine/lamivudine/abacavir tablet
300mg/150mg/300mg
174. Zidovudine/lamivudine/nevirapine tablet
300mg/150mg/200mg

175. Zinc sulphate efferverscent tablet 20mg

176. Zinc sulphate tablet 30mg

Amendments

Proposals for amendments to the EMHSLU 2012 with relevant arguments and literature should be send to:

Secretariat,

Uganda Medicines and Therapeutics Advisory Committee,
Pharmacy Division, Ministry of Health,

PO Box 7272, Kampala

morries2001@yahoo.com or sebisubi@yahoo.co.uk

How to use the list

Medicine names

The relevant International Non-proprietary Name (INN) or generic names are used throughout the list. According to the National Medicines Policy and Authority Statute 1993 sec 12, generic names shall be used for prescribing and labelling (i.e., including dispensing) of medicines, except where no such generic or suitable alternative non-proprietary name exists. The INN name should be written on prescriptions and dispensed medicine, never use the brand name and abbreviations should be avoided unless the abbreviation is well accepted and known. For example, AZT a well known abbreviation for zidovudine.

Level of use (L)

Each item has a designation representing the lowest level of use; all levels above and including this level are allowed to prescribe and dispense the item. This designation is in line with the diagnostic and clinical skills expected to be

available at that level. In the specialist lists, the use of an item is further restricted to facilities where a specific type of clinical and/or diagnostic expertise is available (e.g., certain ophthalmological preparations). Below are the levels used in the lists including the highest educational level for the lower health facilities:

BB	Blood bank
NR	National referral hospital
RL	Regional laboratory
RR	Regional referral hospital
H	Hospital
HC4	Health centre 4 (Medical Officer)
HC3	Health centre 3 (Clinical Officer)
HC2	Health centre 2 (Enrolled Comprehensive Nurse)
HC1	Health centre 1 (community level)

VEN classification (C)

Interpretation of the VEN classification is such that if a commodity is classified as Vital at HC2, it presupposes that the commodity is also Vital at higher level of use i.e. HC3, HC4 and hospitals. However, the item might not be stocked and regarded Vital at the higher levels of use as other alternatives may be available and preferred. If a commodity is Vital at HC4, it implies that the commodity is Vital at HC4 and above, but is not available for use in HC3 and HC2 at all. The definitions of the three groups are –

- Vital (V)—medicines used to treat life-threatening diseases and health supplies and laboratory commodities that are necessary for basic healthcare
- Essential (E)—medicines are effective to treat less severe, but nevertheless, widespread illnesses

-
- Necessary (N)—medicines used for diseases with less impact on the population, medicines of doubtful efficacy, or medicines with a high cost for marginal therapeutic benefit

Column labels

In the following lists, the three last columns are labelled as follows –

DS = dosage form

STR = strength

L = Level of use

C = VEN classification

Section A: General Medicines

MEDICINE	DS	STR	L	C
1. ANAESTHETICS				
1.1 General anaesthetics and oxygen				
Etomidate	Injection	2mg/ml	RR	E
Halothane	Liquid for inhalation	100%	HC4	V
Medical air	Medical gas	99.99%	HC4	V
Oxygen	Medical gas	99.8%	HC4	V
1.2 Local anaesthetics				
Bupivacaine (with preservative)	Injection	0.50%	RR	V
Lignocaine	Injection	2%	HC2	V
Lignocaine	Spray	10%	HC4	N
Lignocaine	Ointment	5%	HC4	N
Lignocaine	Gel	2%	HC3	N
Lignocaine (preservative free)	Injection	5%	HC4	V
Lignocaine + adrenaline	Injection	1% + 1:200,000	NR	N
1.3 Preoperative and peri-operative medication				
Atropine	Injection	1mg/ml	HC4	V
Diazepam	Rectal tube	2mg/ml	HC4	V
Diazepam	Injection	5 mg/ml	HC4	V

MEDICINE	DS	STR	L	C
2. ANALGESICS, ANTIPYRETICS				
2.1 Non-opioids				
Acetylsalicylic acid	Tablet	300mg	HC2	E
Diclofenac	Suppository	12.5mg	H	V
Diclofenac	Suppository	50mg	NR	E
Diclofenac	Tablet	25mg	HC4	E
Diclofenac	Injection	25mg/ml	HC4	V
Ibuprofen	Tablet	200mg	HC3	E
Paracetamol	Tablet	500mg	HC2	E
Paracetamol	Suppository	125mg	HC2	E
2.2 Medicines used for gout				
Indomethacin	Capsule	25mg	H	N
2.3 Opioid analgesics				
Codeine	Tablet	30mg	HC4	E
Morphine	Oral solution	10mg/5ml	HC3	E
Morphine (concentrated)	Oral solution	20mg/ml	NR	V
Morphine	Injection	10mg/ml	H	V
Pethidine	Injection	50mg/ml	HC4	V
3. ANTI-ALLERGICS AND MEDICINES USED IN ANAPHYLAXIS				
Cetirizine	Tablet	10mg	H	N
Chlorphenamine maleate	Tablet	4mg	HC2	E

MEDICINE	DS	STR	L	C
Epinephrine (adrenaline)	Injection	1mg/ml	HC2	V
Hydrocortisone sodium succinate	Powder for injection	100mg	HC3	V
Prednisolone	Tablet	5mg	HC4	E
Promethazine	Tablet	25mg	HC2	E
Promethazine	Injection	25mg/ml	HC4	E
4. ANTIDOTES				
4.1 General antidotes				
Charcoal (activated)	Tablet	250mg	HC2	E
Flumazenil	Injection	0.1mg/ml	H	V
Pralidoxime	Powder for injection	1g	RR	E
4.2 Specific antidotes				
Benztropine	Injection	1mg/ml	H	E
Calcium gluconate	Injection	10%	HC3	E
Naloxone	Injection	400µg/ml	NR	E
5. ANTIPILEPTICS AND ANTICONVULSANTS				
Carbamazepine	Tablet	200mg	HC3	V
Carbamazepine	Tablet (chewable)	100mg	HC3	V
Carbamazepine	Syrup	100mg/5ml	HC4	N
Clonazepam	Tablet	2mg	RR	E
Diazepam	Rectal tube	2mg/ml	HC2	V
Diazepam	Injection	5mg/ml	HC4	V

MEDICINE	DS	STR	L	C
Ethosuximide	Capsules	250mg	RR	E
Magnesium sulphate	Injection	500mg/ml	HC3	V
Phenobarbitonal	Tablet	30mg	HC2	E
Phenobarbitonal	Injection	200mg/ml	H	V
Phenytoin	Injection	50mg/ml	RR	V
Phenytoin	Tablet	50mg	HC2	V
Phenytoin	Tablet	100mg	HC2	V
Valproate	Tablet (EC)	500mg	RR	V
Valproate	Tablet (crushable)	100mg	H	N
Valproate	Syrup	200mg/5ml	H	N

6. ANTI-INFECTIVE MEDICINES

6.1 Antihelmintics

6.1.1 Intestinal antihelmintics

Albendazole	Tablet	400mg	HC2 (HC1)	V
Mebendazole	Tablet	500mg	HC2	E
Mebendazole	Tablet	100mg	HC2	E
Niclosamide	Tablet	500mg	HC4	N

6.1.2 Antifilarials (only specialist treatment)

6.1.3 Antischistosomes

Praziquantel	Tablet	600mg	HC4	E
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6.2 Antibacterials

6.2.1 Beta-lactam medicines

Amoxicillin	Tablet	250mg	HC2	V
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MEDICINE	DS	STR	L	C
Amoxicillin	Capsule	500mg	HC2	V
Ampicillin	Powder for injection	500mg	HC3	V
Azithromycin	Tablet	250mg	RR	N
Azithromycin	Oral suspension	200mg/5ml	HC2	N
Benzathine benzylpenicillin	Powder for injection	2.4 MU	HC3	E
Benzylpenicillin	Powder for injection	600mg	HC3	E
Cefixime	Tablet	200mg	H	N
Ceftriaxone	Powder for injection	1g	HC4	V
Cefuroxime axetil	Tablet	250mg	RR	E
Cefuroxime axetil	Oral suspension	125mg/5ml	RR	N
Cefuroxime sodium	Injection	750mg	RR	E
Cloxacillin	Powder for injection	500mg	HC4	E
Phenoxymethylpenicillin	Tablet	250mg	HC2	N
Procaine benzylpenicillin forte	Powder for injection	4 MU	HC3	V
Vancomycin	Injection	500mg	RR	E
6.2.2 Other antibacterial medicines				
Chloramphenicol	Powder for injection	1g	HC3	V
Chloramphenicol	Capsule	250mg	HC4	V

MEDICINE	DS	STR	L	C
Ciprofloxacin	Tablet	250mg	HC3	E
Ciprofloxacin	Tablet	500mg	HC2	V
Cotrimoxazole	Tablet	120mg	HC2	V
Cotrimoxazole	Tablet	480mg	HC2	V
Cotrimoxazole	IV infusion	96mg/ml	RR	E
Doxycycline	Tablet	100mg	HC2	V
Erythromycin	Tablet (scored)	250mg	HC4	N
Gentamicin	Injection	40mg/ml	HC3	V
Metronidazole	IV infusion	5mg/ml	HC4	V
Metronidazole	Tablet	200mg	HC2	V
Nalidixic acid	Tablet	500mg	H	N
Nitrofurantoin	Tablet	100mg	HC2	E

6.2.3 Antileprosy medicines

Prednisolone	Tablet	20mg	HC3	E
Prednisolone	Tablet	5mg	HC3	E
Rifampicin + clofazimine + dapson	Tablet (blister)	600mg + 300mg + 100mg	HC3	V
Rifampicin + clofazimine + dapson	Tablet (blister)	450mg + 150mg + 50mg	HC3	V
Rifampicin + dapson	Tablet (blister)	600mg + 100mg	HC3	V
Rifampicin + dapson	Tablet (blister)	450mg + 50mg	HC3	V
Thalidomide	Tablet	50mg	RR	N

MEDICINE	DS	STR	L	C
6.2.4 Antituberculosis medicines				
Ethambutol	Tablet	400mg	HC3	E
Ethambutol + isoniazid	Tablet	400mg + 150mg	HC3	E
Isoniazid	Tablet	100mg	HC3	E
Pyrazinamide	Tablet	500mg	HC3	E
Rifampicin + isoniazid	Tablet	60mg + 30mg	HC3	V
Rifampicin + isoniazid	Tablet	150mg + 75mg	HC3	E
Rifampicin + isoniazid	Tablet	300mg + 150mg	HC3	V
Rifampicin + isoniazid + pyrazinamide	Tablet	60mg + 30mg + 150mg	HC3	V
Rifampicin + isoniazid + pyrazinamide + ethambutol	Tablet	150mg + 75mg + 400mg + 275mg	HC3	V
Streptomycin	Powder for injection	1g	HC3	V
6.3 Antifungal medicines				
Amphotericin B	Oral suspension	100mg/ml	RR	E
Clotrimazole	Pessary	500mg	HC2	E
Griseofulvin	Tablet	125mg	HC3	N
Griseofulvin	Tablet	500mg	HC3	N
Miconazole	Pessary	100mg	HC4	N
Nystatin	Pessary	100,000IU	HC3	E

MEDICINE	DS	STR	L	C
Nystatin	Oral suspension	100,000 IU/ml	HC2	E
Nystatin	Tablet	500,000IU	HC3	N
6.4 Antiprotozoal medicines				
6.4.1 Antiamoebic medicines				
Metronidazole	Tablet	200mg	HC2	V
Tinidazole	Tablet	500mg	H	N
6.4.2 Antileishmaniasis medicines (only specialist treatment)				
6.4.3 Antimalarial medicines				
Artemether	Injection	80mg/ml	HC3	E
Artemether + lumefantrine	Tablet	20mg + 120mg	HC2	V
Artesunate	Injection	60mg/ml	HC3	V
Artesunate	Suppository	50mg	HC2 (HC1)	V
Artesunate	Suppository	200mg	HC2 (HC1)	V
Artesunate + amodiaquine	Tablet	50mg + 200mg	HC4	E
Chloroquine	Tablet	155mg	HC4	E
Dihydroartemisinin + piperazine	Tablet	40mg + 320mg	HC4	N

MEDICINE	DS	STR	L	C
Mefloquine	Tablet	250mg	RR	N
Proguanil	Tablet	100mg	HC4	N
Quinine	Injection	300mg/ml	HC3	E
Quinine	Tablet	300mg	HC3	E
Sulfadoxine + pyrimethamine	Tablet	500mg + 25mg	HC2	V
6.4.4 Antitrypanosomal medicines (African trypanosomiasis)(only specialist treatment)				
6.4.5 Antitrichomoniasis medicines				
Tinidazole	Tablet	500mg	RR	N
6.4.6 Medicines used in toxoplasmosis				
Clindamycin	Capsule	150mg	H	E
Clindamycin	Injection	150mg/ml	H	E
6.5 Antiviral medicines				
Aciclovir	Tablet	200mg	HC4	E
7. ANTIMIGRAINE MEDICINES				
7.1 Treatment of acute attacks				
Acetylsalicylic acid	Tablet	300mg	HC2 (HC1)	N
Ergotamine	Tablet	1mg	H	E
Paracetamol	Tablet	500mg	HC2 (HC1)	E
7.2 Prophylaxis				
Propranolol	Tablet	20mg	HC4	V

MEDICINE	DS	STR	L	C
8. ANTINEOPLASTIC AND IMMUNOSUPPRESSIVE MEDICINES				
8.1 Immunosuppressive medicines (only specialist treatment)				
8.2 Cytotoxic medicines (only specialist treatment)				
8.3 Hormones and antihormones				
Betamethasone	Injection	4mg/ml	HC4	E
Hydrocortisone sodium succinate	Powder for injection	100mg	HC4	V
Prednisolone	Tablet	5mg	HC4	E
9. ANTI-PARKINSONISM MEDICINES				
Benzhexol	Tablet	2mg	HC4	E
Benztropine	Injection	1mg/ml	HC4	E
10. MEDICINES AFFECTING THE BLOOD				
10.1 Antianaemia medicines				
Ferrous salt	Tablet	60mg iron	HC2 (HC1)	N
Ferrous salt + folic acid	Tablet	60mg iron + 400µg	HC2 (HC1)	V
Ferrous salt paediatric	Oral solution	25mg iron /ml	HC2	N
Folic acid	Tablet	5mg	HC2	N
Hydroxocobalamin (vitamin B12)	Injection	1mg/ml	H	E

MEDICINE	DS	STR	L	C
10.2 Anticoagulants and antagonists				
Enoxaparin	Injection	100mg/ml	H	N
Heparin	Injection	5000IU/ml	H	V
Phytomenadione (vitamin K ₁)	Injection	1mg/ml	HC3	V
Phytomenadione (vitamin K ₁)	Injection	10mg/ml	HC4	E
Protamine	Injection	10mg/ml	H	E
Warfarin	Tablet	5mg	H	V
Warfarin	Tablet	1mg	H	E
10.3 Fibrinolytic medicines (only specialist treatment)				
11. BLOOD PRODUCTS AND PLASMA SUBSTITUTES				
11.1 Plasma expanders				
Dextran 70	IV infusion	6%	HC4	E
Polygeline solution	IV infusion	3.5%	HC4	N
11.2 Plasma extracts (only specialist treatment)				
12. CARDIOVASCULAR MEDICINES				
12.1 Angianguinal medicines				
Acetylsalicylic acid	Tablet	75mg	HC4	E
Atenolol	Tablet	100mg	H	V
Glyceryl trinitrate	Tablet (sublingual)	500µg	H	V

MEDICINE	DS	STR	L	C
Isosorbide dinitrate	Tablet (sublingual)	5mg	H	N
Nifedipine	Tablet	10mg	H	E
12.2 Antidysrhythmic medicines				
Adenosine	Injection	3mg/ml	RR	E
Propranolol	Tablet	40mg	HC4	E
12.3 Antihypertensive medicines				
Atenolol	Tablet	100mg	H	N
Captopril	Tablet	25mg	H	E
Enalapril	Tablet	5mg	RR	N
Hydralazine	Tablet	25mg	RR	E
Hydralazine	Tablet	50mg	H	N
Hydralazine	Powder for injection	20mg	HC4	V
Lisinopril	Tablet	10mg	H	E
Losartan	Tablet	50mg	RR	N
Methyldopa	Tablet	250mg	HC3	E
Nifedipine	Tablet	20mg	HC3	E
Propranolol	Tablet	40mg	HC4	E
12.4 Medicines used in heart failure				
12.4.1 Cardiac glycosides				
Digoxin	Tablet	62.5µg	HC4	E
Digoxin	Tablet	250µg	HC4	E
Digoxin	Injection	250µg/ml	H	N

MEDICINE	DS	STR	L	C
12.4.2 Medicines used in vascular shock				
Dopamine	Concentrate for IV inf	40mg/ml	H	E
Hydrocortisone sodium succinate	Powder for injection	100mg	HC4	E
13. DERMATOLOGICAL MEDICINES				
13.1 Topical Antifungals				
Benzoic acid + salicylic acid	Ointment	6% + 3%	HC2	N
Clotrimazole	Cream	1%	HC3	E
Miconazole	Cream	2%	H	N
Nystatin	Cream/ointment	100,000IU/g	HC3	N
Sulphur + salicylic acid	Cream/ointment	2% + 2%	HC3	N
13.2 Topical Antiinfectives				
Chlorhexidine	Cream	5%	HC4	N
Chlorhexidine	Cutaneous solution	2%	HC2	N
Framycetin	Impregnated gauze	1%	HC3	N
Iodine	Tincture	2%	HC2 (HC1)	N
Methylrosanilinium chloride (gentian violet)	Paint	1%	HC2	N
Methylrosanilinium chloride (gentian violet)	Paint	0.50%	HC2	N

MEDICINE	DS	STR	L	C
Neomycin + bacitracin	Ointment	5mg + 250IU	H	N
Potassium permanganate	Aqueous solution	0.01% (1:10,000)	HC4	N
Silver sulphadiazine	Cream	1%	HC3	N
Trichloroacetic acid	Cream	10%	H	N
13.3 Topical Anti-inflammatory medicines				
Betamethasone	Cream/ointment	0.10%	HC4	N
Calamine	Lotion	15%	HC2 (HC1)	E
Hydrocortisone	Cream/ointment	1%	HC3	N
13.4 Keratoplastics and keratolytics				
Benzoylperoxide	Lotion/cream	5%	HC4	N
Coal tar	Solution	5%	H	N
Dithranol	Ointment	0.10%	H	N
Podophyllum resin	Solution	15%	HC4	N
Salicylic acid	Ointment	2%	HC2	N
13.5 Scabicide				
Benzyl benzoate	Application	25%	HC2	N
13.6 Pediculicide				
Malathion	Lotion aqueous	0.5%	HC2	N
13.7 Other topical preparations				
Silver nitrate	Pencil	40%	HC3	N

MEDICINE	DS	STR	L	C
14. DIAGNOSTIC MEDICINES				
14.1 Ophthalmic diagnostic medicines				
Fluorescein sodium	Eye drops	1%	HC4	V
Iodine + potassium iodide (Lugol's iodine)	Solution	2%	HC3	N
Physostigmine	Eye drops	0.25%	RR	N
Rose bengal	Eye drops	1%	HC4	N
14.2 Radiocontrast media (only specialist treatment)				
14.3 Other diagnostic medicines				
Acetic acid	Solution	5%	HC3	E
Iodine + potassium iodide (Lugol's iodine)	Solution	2%	HC3	E
15. DISINFECTANTS AND ANTISEPTICS				
15.1 Antiseptics				
Cetrimide + chlorhexidine	Solution	0.15% + 0.015%	HC2	N
Chlorhexidine	Solution	0.05%	HC2	N
Chlorhexidine gluconate	Solution	20%	HC2	N
Chlorhexidine gluconate	Mouthwash	0.20%	HC2	N
Hydrogen peroxide	Solution	6%	HC2	N

MEDICINE	DS	STR	L	C
Povidoneiodine	Solution	10% (equiv. 1% iodine)	HC3	N
15.2 Disinfectants				
Alcohol with glycerin	Solution	70%	HC2 (HC1)	E
Calcium or sodium hypochlorite	Solution	5%	HC2 (HC1)	E
Glutaraldehyde	Solution	2%	H	N
16. DIURETICS				
Bendroflumethiazide	Tablet	5mg	HC3	E
Furosemide	Injection	10mg/ml	HC4	V
Furosemide	Tablet	40mg	HC4	E
Spironolactone	Tablet	50mg	H	N
17. GASTROINTESTINAL MEDICINES				
17.1 Antacids and other antiulcer medicines				
Magnesium trisilicate compound, BP	Tablet	370mg	HC2	E
Omeprazole	Tablet	20mg	HC4	E
Ranitidine	Tablet	150mg	H	E
Ranitidine	Injection	25mg/ml	H	E
17.2 Antiemetics				
Metoclopramide	Tablet	10mg	HC4	E
Metoclopramide	Injection	5mg/ml	HC4	E

MEDICINE	DS	STR	L	C
Prochlorperazine maleate	Tablet	5mg	HC4	E
Promethazine	Tablet	25mg	HC3	N
Promethazine	Injection	25mg/ml	HC3	N
17.3 Antihaemorrhoidals				
Bismuth subgallate compound BP	Suppository	320mg	HC4	N
17.4 Antispasmodics (only specialist treatment)				
17.5 Laxatives				
Bisacodyl	Tablet	5mg	HC3	E
Bisacodyl	Paediatric suppository	5mg	HC4	N
Lactulose	Solution	3.1-3.7g/5ml	RR	N
17.6 Medicines used in diarrhoea				
17.6.1 For oral rehydration				
Oral rehydration salts	Oral powder for solution	WHO formula-tion	HC2 (HC1)	V
17.6.2 Antidiarrhoeals				
Codeine	Tablet	30mg	HC4	E
Loperamide	Tablet	2mg	H	N
Zinc sulphate	Tablet	30mg	HC2	E
Zinc sulphate	Tablet (ef-fervescent)	20mg	HC2 (HC1)	V

MEDICINE	DS	STR	L	C
18. HORMONES, OTHER ENDOCRINE MEDICINES AND CONTRACEPTIVES				
18.1 Adrenal hormones and synthetic substitutes				
Dexamethasone	Tablet	0.5mg	H	N
Dexamethasone	Injection	4mg/ml	HC4	E
Hydrocortisone sodium succinate	Powder for injection	100mg	HC3	V
Methylprednisolone	Powder for injection	500mg	RR	N
Prednisolone	Tablet	5mg	HC4	V
18.2 Androgens (only specialist treatment)				
18.3 Hormonal Contraceptives				
Ethinylestradiol + levonorgestrel	Tablet	30µg + 150µg	HC2	E
Ethinylestradiol + levonorgestrel	Tablet	50µg + 250µg	HC2	E
Ethinylestradiol + norethisterone	Tablet	50µg + 1mg	HC2	E
Ethinylestradiol + norgestrel	Tablet	30µg + 300µg	HC2 (HC1)	V
Etonogestrel	Implant (1 radiopaque rod)	68mg	HC3	V
Levonorgestrel	Tablet	750µg	HC2 (HC1)	V
Levonorgestrel	Implant (2 silicone rods)	75mg	HC3	E

MEDICINE	DS	STR	L	C
Medroxyprogesterone acetate	Injection (aqueous suspension)	150mg/ml	HC2	V

18.4 Oestrogens (only specialist treatment)

18.5 Insulins and other antidiabetic medicines

Biphasic isophane insulin (soluble + isophane insulin)	Injection	30% + 70% in 100IU/ml	HC4	V
Glibenclamide	Tablet	5mg	HC4	V
Insulin isophane	Injection	100IU/ml	HC4	V
Insulin zinc suspension	Injection	100IU/ml	HC4	N
Metformin	Tablet	500mg	HC4	V
Soluble insulin	Injection	100IU/ml	HC4	V

18.6 Ovulation inducers (only specialist treatment)

18.7 Progestogens (only specialist treatment)

18.8 Thyroid hormones and antithyroid medicines

Carbimazole	Tablet	5mg	H	V
Levothyroxine (thyroxine)	Tablet	100µg	H	V

MEDICINE	DS	STR	L	C
19. IMMUNOLOGICALS				
19.1 Immunologicals, diagnostic medicines				
Tuberculin purified protein derivative (PPD)	Injection	100IU/ml	HC4	N
19.2 Sera and immunoglobulins				
Anti-D immunoglobulin, human	Injection	250µg/ml	RR	E
Antirabies immunoglobulin, human	Injection	150IU/ml	H	V
Antirabies vaccine, human diploid	Injection	≥2.5IU/ 0.5 ml	H	V
Antiscorpion serum	Injection	mixture of <i>Androctonus</i> , <i>Leiurus</i> and <i>Buthus spp</i> in 10ml vial	RR	N
Antitetanus immunoglobulin, human	Injection	500IU	HC4	V
Antivenom sera polyvalent (East and Central Africa)	Injection	mixture of 11 <i>Bitis</i> , <i>Naja</i> , <i>Echis</i> and <i>Dendroaspis spp</i> in 10ml vial	H	E

MEDICINE	DS	STR	L	C
Normal immunoglobulin, human	Injection	16%	NR	N
19.3 Vaccines				
<i>19.3.1 Vaccines for routine immunisation</i>				
BCG vaccine (freeze dried)	Injection	1.5mg vial with 1.5ml diluents	HC2	V
Diphtheria-pertussis-tetanus (DPT)	Suspension for injection	25 Lf <i>Diphtheria Toxoid</i> ; 6 Lf <i>Tetanus Toxoid</i> ; 10,000 million <i>Borditella Pertussis</i> in 20-dose vial (10ml)	HC2	V
Diphtheria-pertussis-tetanus-hepatitis B- <i>haemophilus influenzae</i> B (DPT HepB-Hib)	Injection	2-dose vial	HC2	V
Measles vaccine, live attenuated	Powder for injection	10 x 0.5ml dose vial + diluent	HC2	V

MEDICINE	DS	STR	L	C
Pneumococcal polysaccharide conjugate vaccine (adsorbed)	Injection	0.5ml/dose in 2 dose vial	HC2	V
Poliomyelitis vaccine, live attenuated	Oral solution	20-dose vial (2ml)	HC2	V
Rotavirus vaccine, live attenuated	Oral suspension	1.5ml prefilled oral syringe	HC2	V
Tetanus toxoid	Injection	≥40IU/0.5ml	HC2	V
19.3.2 Vaccines for specific groups of individuals				
Anthrax vaccine	Injection	0.125ml (anthrax antigens)/0.5 ml dose	RR	V
Hepatitis B vaccine	Intradermal injection	Single-dose vial	HC4	E
Human papilloma virus vaccine (type 16 + type 18 capsid protein)	Injection	40µg/ml + 40µ/ml	HC2	V
Meningococcal vaccine conjugate (A+C)	Injection	0.5ml-vial	HC4	E
Plague vaccine	Injection	Single-dose vial	H	N
Yellow fever vaccine, live	Injection	1,000 LD50 units/0.5ml	H	N

MEDICINE	DS	STR	L	C
20. MUSCLE RELAXANTS AND CHOLINESTERASE INHIBITORS				
Cisatracurium	Injection	2mg/ml	H	N
Rocuronium bromide	Injection	10mg/ml	H	E
Vecuronium bromide	Powder For Injection	10mg	NR	V
21. OPHTHALMOLOGICAL PREPARATIONS				
21.1 Antiinfective medicines				
Chloramphenicol	Ophthalmic ointment	1%	HC2	N
Chloramphenicol	Eye drops	0.50%	HC2	N
Ciprofloxacin	Ophthalmic solution	0.30%	RR	N
Gentamicin	Drops (for eye/ear)	0.30%	HC4	N
Povidone	Eye drops	5%	RR	E
Tetracycline	Eye ointment	1%	HC2	V
Tobramycin	Eye drops	0.3%	RR	E
21.2 Anti-infective and anti-inflammatory medicines				
Dexamethasone + tobramycin	Topical	0.1% + 0.3%	RR	E
Hydrocortisone + oxytetracycline + polymyxin B	Eye drops	1.5% + 0.5% + 10,000IU/ml	HC4	N

MEDICINE	DS	STR	L	C
Neomycin + dexamethasone	Eye drops/ointment	0.35%+0.1%	RR	E
21.3 Anti-inflammatory medicines				
Betamethasone	Eye drops	0.10%	HC4	N
Dexamethasone	Eye drops	0.10%	RR	E
Hydrocortisone	Eye drops	1%	HC4	N
Hydrocortisone	Eye ointment	0.50%	HC4	N
Prednisolone	Eye drops	0.50%	HC4	E
Prednisolone, forte	Eye drops	1%	HC4	N
Sodium chromoglycate	Eye drops	2%	RR	N
21.4 Antifungal medicines				
Econazole	Eye drops	2%	RR	N
Natamycin	Ophthalmic suspension	5%	RR	N
Natamycin	Eye ointment	1%	RR	E
21.5 Antiviral medicines				
Aciclovir	Eye ointment	3%	HC4	E
Ganciclovir	Ophthalmic gel	0.15%	RR	E
21.6 Local anaesthetics				
Bupivacaine	Injection	0.50%	H	E

MEDICINE	DS	STR	L	C
Hyaluronidase	Injection (powder for reconstitu- tion)	1,500IU	RR	E
Tetracaine (amethocaine)	Eye drops	0.50%	H	E
Tetracaine (amethocaine)	Eye drops	1%	HC4	N
21.7 Miotics and antiglaucoma medicines				
Acetazolamide	Tablet	250mg	RR	E
Diethylcarbamazine	Tablet	100mg	RR	N
Pilocarpine	Eye drops	2%	RR	N
Pilocarpine	Eye drops	4%	RR	N
Pilocarpine, intracameral	Injection	0.50%	RR	E
Sodium hyaluronate	Intraocular liquid	12mg/ml	RR	N
Timolol maleate	Eye drops	0.25%	RR	N
Timolol maleate	Eye drops	0.50%	RR	N
Tryptan blue	Ophthalmic solution	0.06%	RR	N
21.8 Mydriatics				
Atropine	Eye drops	1%	HC4	N
Cyclopentolate	Eye drops	1%	HC4	N
Phenylephrine	Eye drops	10%	HC4	N
21.9 Anti-metabolites				
Fluorouracil	Injection	50mg/ml	RR	N

MEDICINE	DS	STR	L	C
Mitomycin	Powder for injection	20mg	RR	N
21.10 Lubricants				
Hydroxyethylcellulose (artificial tears)	Eye drops	0.44%	H	E
21.11 Astringents				
Zinc sulphate	Eye Drops	0.20%	RR	N
22. OXYTOCICS AND ANTI-OXYTOCICS				
22.1 Oxytocics				
Ergometrine maleate	Injection	500µg/ml	HC4	N
Misoprostol	Tablet	200µg	HC2	V
Oxytocin	Injection	10IU/ml	HC3	E
22.2 Anti-oxytocics (tocolytics)				
Nifedipine	Capsule (immediate release)	10mg	HC3	E
Ritodrine	Tablet	10mg	RR	V
23. PERITONEAL AND HAEMODIALYSIS SOLUTIONS				
Liquid concentrate for haemodialysis	Liquid	32mEq/L bicarbonate + 5mEq/L acetate	RR	V
Peritoneal dialysis solution	Solution	2.5% (glucose)	RR	E

MEDICINE	DS	STR	L	C
Peritoneal dialysis solution	Solution	4.25% (glucose)	RR	E
24. PSYCHOTHERAPEUTIC MEDICINES				
Amitriptyline	Tablet	25mg	HC3	V
Benzhexol	Tablet	2mg	HC2	V
Carbamazepine	Tablet	200mg	HC4	V
Chlorpromazine	Tablet	25mg	HC2	E
Chlorpromazine	Tablet	100mg	HC2	V
Chlorpromazine	Injection	25mg/ml	HC4	V
Diazepam	Injection	5mg/ml	HC4	V
Diazepam	Tablet	5mg	HC2	V
Fluoxetine	Capsule	20mg	H	V
Fluphenazine decanoate	Injection (oily)	25mg/ml	H	E
Haloperidol	Tablet	5mg	HC4	E
Haloperidol	Tablet	10mg	HC4	V
Haloperidol	Injection	5mg/ml	HC4	V
Imipramine	Tablet	25mg	HC4	E
Promethazine	Tablet	25mg	HC2	V
Promethazine	Injection	25mg/ml	HC3	V
Trifluoperazine	Tablet	5mg	H	E
25. MEDICINES ACTING ON THE RESPIRATORY TRACT				
25.1 Antiasthmatic medicines				
Aminophylline	Tablet	100mg	HC3	N

MEDICINE	DS	STR	L	C
Aminophylline	Injection	25mg/ml	HC4	N
Beclomethasone	Aerosol inhalation	50µg/metered dose inhalation	HC4	E
Epinephrine (adrenaline)	Injection	1mg/ml	HC4	V
Prednisolone	Tablet	5mg	HC4	V
Salbutamol	Nebuliser solution	2mg/ml	HC3	V
Salbutamol	Respirator solution	5mg/ml	H	V
Salbutamol	Aerosol inhalation	100µg/metered inhalation	HC4	E
Salbutamol	Tablet	4mg	HC3	E
25.2 Antitussive medicines				
Codeine	Tablet	30mg	HC4	E
26. SOLUTIONS CORRECTING WATER, ELECTROLYTE AND ACID-BASE DISTURBANCES				
26.1 For oral rehydration				
Oral rehydration salts	Powder for 1L	WHO formula	HC2 (HC1)	V
26.2 Parenterals				
Calcium chloride (dihydrate)	Injection	10%	H	E
Calcium gluconate	Injection	10%	H	E
Darrow's solution	Injection	½ strength in 5% glucose	HC3	V

MEDICINE	DS	STR	L	C
Glucose	IV infusion	5%	HC3	V
Glucose	IV infusion	50%	HC3	V
Potassium chloride	Sterile concentrate	150mg/ml	H	V
Sodium bicarbonate	IV injection	8.4%	RR	E
Sodium chloride	IV infusion	0.9%	HC3	V
Sodium lactate compound (Hartmann's and Ringer's lactate solution)	IV infusion	BP formula	HC4	E
26.3 Miscellaneous				
Water for injection	Injection	2ml	HC2	V
Water for injection	Injection	5ml	HC2	V
Water for injection	Injection	10ml	HC2	V
27. VITAMINS AND MINERALS				
Calcium lactate	Tablet	300mg	HC3	N
Multivitamin	Tablet	BPC 73	HC2 (HC1)	N
Phytomenadione (vitamin K ₁)	Injection	1mg/ml	HC2	V
Potassium chloride	Tablet	600mg	H	E
Pyridoxine (vitamin B ₆)	Tablet	50mg	HC3	E
Retinol (vitamin A)	Capsule	100,000IU	HC2	E

MEDICINE	DS	STR	L	C
Retinol (vitamin A)	Capsule	200,000IU	HC2	V
Thiamine	Tablet	100mg	HC4	E
Thiamine	Injection	100mg/ml	H	E
Vitamin B compound (B ₃ +B ₂ +B ₁)	Tablet	15mg + 1mg + 1mg	RR	V
Vitamin B compound (strong) (B ₅ +B ₆ +B ₂ +B ₁)	Tablet	20mg + 2mg + 2 mg + 5mg	HC4	N

28. EAR, NOSE AND OROPHARYNGEAL PREPARATIONS

28.1 Ear preparations

Betamethasone	Eye/ear drops	0.10%	H	E
Clotrimazole	Solution	1%	H	E
Gentamicin	Ear drops	0.30%	H	V

28.2 Nasal preparations

Beclomethasone	Nasal spray (aqueous suspension)	50µg/me-tered spray	H	N
Ephedrine	Nasal drops	1%	H	E
Lignocaine + epinephrine (adrenaline)	Nasal drops	2% + 1:100,000	RR	N
Xylometazoline	Paediatric nasal drops	0.05%	HC4	E
Xylometazoline	Nasal drops	0.10%	HC4	E

MEDICINE	DS	STR	L	C
28.3 Oropharyngeal preparations				
Lignocaine	Lozenge	4%	HC4	N
Lignocaine	Spray	5%	HC4	N
Miconazole	Oral gel	24mg/ml(20mg/g)	HC4	N
Povidone-iodine	Mouthwash	1%	HC3	N
Triamcinolone acetonide	Oral paste	0.10%	RR	N
29. MEDICINES FOR NEUROSURGICAL USE				
29.1 For cerebral metabolism/perfusion				
Cerebrolysin	Injection	5ml	NR	E
30. ANTIRETROVIRAL MEDICINES				
30.1 Nucleoside/nucleotide reverse transcriptase inhibitors (NRTI)				
Abacavir	Oral solution	20mg/ml	HC4	E
Abacavir	Tablet	300mg	HC4	E
Emtricitabine	Capsule	200mg	HC 4	E
Lamivudine	Tablet	150mg	HC4	N
Tenofovir	Tablet	300mg	HC4	N
Zidovudine	Oral solution	10mg/ml	HC4	V
Zidovudine	Tablet	300mg	HC4	N

MEDICINE	DS	STR	L	C
30.2 Non-nucleoside reverse transcriptase inhibitors (NNRTI)				
Efavirenz	Tablet	600mg	H	V
Efavirenz	Capsule	200mg	H	E
Efavirenz	Capsule	100mg	H	E
Nevirapine	Tablet	200mg	H	V
Nevirapine	Syrup	10mg/ml	HC4	V
Nevirapine	Tablet	200mg	HC4	V
30.3 Protease inhibitor (PI)				
Atazanavir + ritonavir	Tablet	300mg + 100mg	H	N
Lopinavir + ritonavir	Oral solution	80mg + 20mg/ml	HC4	E
Lopinavir + ritonavir	Tablet	100mg + 25mg	H	N
Lopinavir + ritonavir	Capsule	133.3mg + 33.3mg	H	N
Lopinavir + ritonavir	Tablet	200mg + 50mg	H	V
30.4 Dual fixed dose combinations				
Abacavir + lamivudine	Tablet	60mg + 30mg	HC4	E
Stavudine + lamivudine	Tablet	6mg + 30mg	HC4	V
Stavudine + lamivudine	Tablet	12mg + 60mg	HC4	V
Stavudine + lamivudine	Tablet	30mg + 150mg	HC4	N

MEDICINE	DS	STR	L	C
Tenofovir + emtricitabine	Tablet	300mg + 200mg	HC4	N
Tenofovir + lamivudine	Tablet	300mg + 150mg	HC4	V
Zidovudine + lamivudine	Tablet	300mg + 150mg	HC4	V
30.5 Triple fixed dose combinations				
Stavudine + lamivudine + nevirapine	Dispersible tablet	6mg + 30mg + 50mg	H	V
Stavudine + lamivudine + nevirapine	Dispersible tablet	12mg + 60mg + 100mg	H	V
Tenofovir + emtricitabine/efavirenz	Tablet	300mg + 200mg + 600mg	HC4	N
Tenofovir + lamivudine + efavirenz	Tablet	300mg + 300mg + 600mg	HC4	E
Zidovudine + lamivudine + abacavir	Tablet	300mg + 150mg + 300mg	RR	N
Zidovudine + lamivudine + nevirapine	Tablet	300mg + 150mg + 200mg	HC4	V
31. NUTRITION				
Formula 75	Powder	75 kCal + 0.9g protein/100ml	H	V

MEDICINE	DS	STR	L	C
Formula 100	Powder	100 kCal + 2.9g protein/100ml	H	E
Ready to use therapeutic-feeds (RUTF)	Paste	30% full fat milk, 28% sugar, 15% vegetable oil, 15% peanut butter, 1.6% mineral vitamin mix	HC2 (HC1)	N

SECTION B: GENERAL HEALTH SUPPLIES

ITEM DESCRIPTION	SPECIFICATION	L	C
1. ADMINISTRATION SETS, CANNULAS, NEEDLES AND SYRINGES			
Air ring set, rubber with pump	43 x 15cm	H	N
Airway guedel	00	HC4	V
Airway guedel	0	HC4	V
Airway guedel	1	HC4	V
Airway guedel	2	HC4	V
Airway guedel	3	HC4	V
Airway guedel	4	HC4	V
Blood collecting bag	450ml	RR	V
Blood giving set, disposable	Standard	HC4	V
Blood transfer bag	250ml	RR	V
Cannula IV with inj port and stopper	20G, 0.9mm	HC3	N
Cannula IV with inj port and stopper	24G, 1.9mm	HC3	V
Cannula IV with inj port and stopper	22G, 0.7mm	HC3	E
Cannula IV with inj port and stopper	18G, 1.2mm	HC3	V
Cannula IV with inj port and stopper	16G, 1.2 mm	HC3	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Colostomy and ileostomy bag	25-55mm	H	E
Immunization , ad, needle	0.05ml, needle 23G	HC2	V
Immunization syringes, ad, needle	0.5ml, needle 23G	HC2	V
Nasal oxygen cannula twin	Adult, 200cm	HC4	V
Nasal oxygen cannula twin	Paediatric, 160cm	HC4	V
Needle, dental cartridge type	G27 x 42mm	HC4	E
Needle, dental cartridge type	G27 x 25mm	HC4	E
Needle, dental luer	G27 x 25mm	HC4	E
Needle, for insulin device	Depends on device	HC4	E
Needle, hypodermic, luer	0.45 x 13mm	HC4	E
Needle, lumbar puncture	22G x 90mm	HC4	V
Needle, lumbar puncture	23G x 90mm	HC4	V
Needle, lumbar puncture	25G x 90mm	HC4	V
Set infusion	Adult, 15-20 drops/ml, 120cm long	HC2	V
Set infusion	Paediatric, 60 drops/ml	HC2	V
Set, blood transfusion, Y-site	10 drops/ml	HC4	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Syringe disposable, hypodermic, luer	Insulin 100IU/ml	HC4	V
Syringe with needle	20ml	HC3	E
Syringe, disposable	60ml	HC4	E
Syringe, disposable, hypodermic, luer	10ml, needle 21G	HC3	E
Syringe, disposable, hypodermic, luer including needle	5ml, needle 21G	HC2	E
Syringe, disposable, hypodermic, luer including needle	2ml, needle 23G	HC2	E
Syringes ad + needle disposable detached	2ml	HC2	N
Syringes ad + needle disposable detached	5ml	HC2	V
Syringes ad + needle disposable detached	10ml	HC2	N
Urine collecting bag with outlet, disposable	2L	HC4	E
2. ANTISEPTICS, DETERGENTS AND DESINFECTANTS			
Alcohol	95% not denaturated	H	E
Alcohol handscrub	Pocket size	HC2	N
Alcohol swab	70%	HC2	V
Enzymatic detergent (cidizyme solution)	2.2 – 2.7%	HC2	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Formaldehyde solution (formalin)	36-38%	HC4	V
Glutaraldehyde	2%	HC4	E
Hydrogen peroxide	Solution, 6%	HC2	E
Liquid soap detergent	For hospital use, 6.5-7pH	HC2	V
Ortho-phthalaldehyde	5.75%	HC2	N
Polyvidone-iodine	Solution, 10%	HC4	E
Presepts granules, disinfectant	100g	HC2	N
Presepts tablets, disinfectant	2.5g	HC2	N
Sodium hypochlorite	6%	HC2	V

3. *BANDAGES AND DRESSINGS*

Adhesive tape	2.5cm x 5m	HC2	N
Bandage cotton W.O.W. hydrophilic	75mm x 4m	HC3	N
Bandage crepe, stretched	100mm x 4.5m	HC2	E
Bandage P.O.P	100mm x 2.75m	H	E
Bandage P.O.P	150mm x 2.75m	H	E
Bandage triangular cotton	136 x 96 x 96cm	HC3	N
Gauze absorbent, ribbon	25mm x 12m	HC4	E
Gauze bandage	7.5cm x 3.65-4m	HC4	E
Gauze bandage	10cm x 3-4m	HC4	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Gauze pads, non-sterile	10 x 10cm	HC4	N
Gauze pads, sterile	10 x 10cm	HC4	N
Gauze pads, sterile	10 x 10cm	HC4	N
Gauze pads, sterile	10 x 10cm	HC4	N
Gauze swabs, abdominal	30 x 50cm, non-Sterile	HC4	V
Gauze, hydrophilic	90cm X 50m, x-ray detectable	HC4	E
Gauze, paraffin	10 x 10cm	HC4	E
Gauze, paraffin, medicated	10 x 10cm	HC4	E
Gauze, W.O.W, hydrophilic	90cm x 50m	HC2	V
Plaster, adhesive elastic	100mm x 4.5m	HC4	N
Plaster, adhesive elastic	75mm x 4.5m	HC4	E
Plaster, adhesive, zinc oxide	75mm x 5m	HC2	V
Wool, cotton	500g	HC2	V
Wool, cotton	200g	HC2	N
4. BLADES AND BLADE HANDLES			
Blades scalpel	Size 10	HC4	N
Blades scalpel	Size 12	HC4	N
Blades scalpel	Size 20	HC4	N
Blades scalpel	Size 21	HC4	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Blades scalpel	Size 22	HC2	V
Blades scalpel	Size 23	HC4	N
Blades scalpel	Size 24	HC4	N
Scalpel handle for surgical blades	No.3	HC4	E
Scalpel handle for surgical blades	No.4	HC4	E
5. LIGATURES AND SUTURE MATERIALS AND SURGICALS			
Bone wax	2.5g tablet	RR	V
Catgut chromic, suture 0(M4)	75cm, n:40mm 1/2-C RBODY	HC4	V
Catgut chromic, suture 0(M4)	150cm, no needle	HC4	N
Catgut chromic, suture 0(M4)	75cm, n:45mm 1/2-C RBODY	HC4	E
Catgut chromic, suture 1(M5)	75cm, n: 40mm tapercut 1/2-C	HC3	E
Catgut chromic, suture 2(M6)	75cm N:45mm tapercut 1/2-C heavy	HC2	V
Catgut chromic, suture 2/0(M3.5)	75cm, 35mm 1/2-C RBODY	HC4	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Catgut chromic, suture 2/0(M3.5)	150cm, no needle	HC3	V
Colostomy bag, closed, size 2	Diameter 30mm 200 x 140m	H	N
Colostomy bag, closed, size 3	Diameter 30mm, 250 x 150m	H	N
Colostomy bag, open, reusable	35mm	H	N
Eye suture nylon 10/0	Double armed	RR	V
Nylon, suture (0)	100cm thread length	HC3	E
Nylon, suture (1)	100cm thread length	HC3	E
Nylon, suture (2)	100cm thread length	HC3	E
Nylon, suture (2/0)	45cm thread length	HC3	V
Nylon, suture (3/0)	45cm thread length	HC3	E
Nylon, suture (3/0)	70cm, 28mm needle	HC3	E
PGA, suture (0)	90cm thread length	H	E
PGA, suture (1)	90cm thread length	H	E
PGA, suture (2)	75cm thread length	H	E

ITEM DESCRIPTION	SPECIFICATION	L	C
PGA, suture (2/0)	90cm thread length	H	V
PGA, suture (3/0)	45cm thread length	H	E
PGA, suture (3/0)	70cm thread length	H	E
Silk black, braided, suture 0(M3.5)	180cm, no needle	H	E
Silk black, braided, suture 2/0(M3))	180cm, no needle	H	E
Silk black, suture 0(M3.5)	75cm, N:30mm 1/2-C Rbody	H	E
Silk black, suture 1(M4)	1m, n: 90mm 3/8-C Cutting	H	E
Silk black, suture 3/0(M2)	45cm, n: 26mm curved rev. cutt	H	E
Silk black, suture 3/0(M2)	75cm, n:25mm 1/2-C Rbody	H	E
Silk black, suture 4/0(M1.5)	45cm, N:19mm curved rev cut	H	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Silk black, suture 5/0(M1)	75cm, n:16mm, cutt. cvd	H	E
Silk, suture (0)	100cm thread length	HC3	E
Silk, suture (0)	75cm thread length	HC3	E
Silk, suture (1)	75cm thread length	HC3	V
Silk, suture (1)	100cm thread length	HC3	E
Silk, suture (1)	2 x 75cm, no needle	HC3	E
Silk, suture (2)	50cm thread length	HC3	E
Silk, suture (2/0)	45cm thread length	HC3	E
Silk, suture (2/0)	75cm thread length	HC3	E
Surgicel-absorbable haemostat	10 x 20cm	H	E
Vicryl, suture (0)	75cm thread, 31mm needle	HC4	E
Vicryl, suture (1)	75cm thread, 40mm needle	HC4	V
Vicryl, suture (2)	75cm thread, 45mm needle	HC4	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Vicryl, suture (2/0)	75cm thread, 31mm needle	HC4	V
Vicryl, suture (4/0)	75cm thread, 20mm needle	RR	E

6. *CATHETERS AND TUBES*

Catheter stopper	For all sizes	HC4	N
Catheter, condom	Small	H	E
Catheter, condom	Medium	H	E
Catheter, condom	Large	H	E
Catheter, nelaton	FG14	HC4	N
Catheter, nelaton	FG18	HC4	N
Catheter, suction	FG5	HC4	V
Catheter, suction	FG6	HC4	V
Catheter, suction	FG8	HC4	V
Catheter, suction	FG10	HC4	V
Catheter, suction	FG12	HC4	V
Catheter, suction	FG14	HC4	V
Catheter, suction	FG16	HC4	V
Catheter, suction	FG18	HC4	V
Endotracheal tube, oral/nasal, plain	3.5mm	HC4	V
Endotracheal tube, oral/nasal, plain	4mm	HC4	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Endotracheal tube, oral/nasal, plain, plastic, cuffed	7mm	HC2 (HC1)	V
Endotracheal tube, oral/nasal, plastic, cuffed	5mm	HC4	V
Endotracheal tube, oral/nasal, plastic, cuffed	6.5mm	HC3	V
Endotracheal tube, oral/nasal, plastic, cuffed	6mm	HC2	V
Endotracheal tube, oral/nasal, plastic, cuffed	8mm	HC2 (HC1)	V
Endotracheal tube, oral/nasal, plastic, plain	3mm	HC2 (HC1)	V
Endotracheal tube, oral/nasal, plastic, plain	4.5mm	HC2	V
Endotracheal tube, oral/nasal, plastic, plain	5mm	HC3	V
Endotracheal tube, oral/nasal, plastic, plain	6mm	HC4	V
Feeding tube premature, disp	FG6 x 30/40cm	H	V
Gastroduodenal tube	FG8 x 80cm	NR	N
Gastroduodenal tube	FG12 x 80cm	NR	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Gastroduodenal tube	FG16 x 130cm	NR	N
Gastroduodenal tube	FG18 x 130cm	NR	N
Nasogastric tube	Adult, G16	HC4	V
Nasogastric tube	Adult, G14	HC4	V
Nasogastric tube	Children, G4	H	V
Nasogastric tube	Children, G10	HC4	V
Nasogastric tube	Children, G6	HC4	V
Nasogastric tube	Children, G5	HC3	V
Nasogastric tube	Children, G8	HC3	V
Nasogastric tube	Children, G9	HC4	V
Rectal tube	CH24	H	E
Rectal tube	CH26	H	E
Thorax drainage	CH18	H	V
Thorax drainage	CH24	H	V
Thorax drainage	CH26	H	V
Thorax drainage	CH30	H	V
Thorax drainage	CH36	H	V
Thorax drainage bottle, plastic	1000ml	H	V
Thorax drainage system with 2 bottles + stand	5L bottles	H	E
Tracheostomy tube set	Size 2.5	RR	V
Tracheostomy tube set	Size 3.0	RR	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Tracheostomy tube set	Size 3.5	RR	V
Tracheostomy tube set	Size 4.0	H	V
Tracheostomy tube set	Size 4.5	H	V
Tracheostomy tube set	Size 5.0	H	V
Tracheostomy tube set	Size 6.0	H	V
Tracheostomy tube set	Size 7.0	H	V
Tracheostomy tube set	Size 7.5	HC4	V
Tracheostomy tube set	Size 8.0	H	V
Tracheostomy tube set	Size 9.0	H	V
Tracheostomy tube set	Size 10.0	H	V
Urethral catheter, foley	3-5ml, FG8, 2-way	HC4	E
Urethral catheter, foley	3-5ml, FG10 2-way	HC4	N
Urethral catheter, foley	10-30ml, FG12 2-way	HC4	V
Urethral catheter, foley	10-30ml, FG14 2-way	HC4	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Urethral catheter, foley	10-30ml, FG16 2-way	HC2	V
Urethral catheter, foley	10-30ml, FG18 2-way	HC4	E
Urethral catheter, foley	10-30ml, FG20 2-way	HC4	E
Urethral catheter, foley	10-30ml, FG22 2-way	HC4	N
Urethral catheter, foley	10-30ml, FG24 2-way	HC4	N
7. GLOVES			
Examination gloves, latex, non-sterile	Medium	HC2 (HC1)	V
Examination gloves, latex, non-sterile	Large	HC2 (HC1)	N
Examination gloves, latex, non-sterile	Small	HC2 (HC1)	N
Gynaecological gloves	6.5	HC2	E
Gynaecological gloves	7.5	HC2	E
Gynaecological gloves	8.5	HC2	E
Heavy duty gloves, household	8	HC2	E
Orthopaedics gloves	7.5	RR	E
Orthopaedics gloves	8	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Surgeon gloves, sterile	7	HC4	E
Surgeon gloves, sterile	7.5	HC2	V
Surgeon gloves, sterile	8	HC4	E
Surgeon gloves, sterile	8.5	HC4	E
Surgeon gloves, sterile	6	HC4	E
Surgeon gloves, sterile	6.5	HC4	E

8. *STATIONARY AND STOCK MANAGEMENT*

HBMF register for community distributors	Book	HC2 (HC1)	V
Medical form 5	Book	H	V
Out patients register HMIS 031	Book, 200 pages	HC2	V
Requisition and issue voucher book	Book	HC2	V
Stock card (HMIS 015)	Card	HC2	V

9. *WARD AND THEATRE SUPPLIES AND ACCESSORIES*

Eye shield	Single	RR	E
Oxygen mask with chamber nebulizer	Adult size	HC4	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Oxygen mask with connection tube	Adult size	HC4	V
Oxygen mask with connection tube	Paediatric size	HC4	V
Oxygen mask, with chamber nebulizer	Paediatric size	HC4	V
Oxygen regulator, cylinder mounted		HC4	V
Resuscitator, adult	1900ml bag volume	HC2	V
Resuscitator, infant	1000ml bag volume	HC2	V
Safe delivery (maternity) kit	Standard	HC2	V
Safety box for syringes and needle disposal	5L capacity	HC2	V
Safety glasses	EN 170	HC2	V
Safety pin	Assorted size	HC2	N
Shaver	Single blade, disp	HC4	N
Stopcock, luer	3-way, disp	HC2	V
Surgical brush (scrubbing)	Piece	HC4	V
Surgical mop	12 x 15 cm	HC4	V
10. RADIOLOGY AND OTHER IMAGING SUPPLIES			
Barium sulphate for X-ray	BP, 1kg	RR	E
ECG	Gel	RR	V
EEG	Gel, OneStep	NR	V
Lead apron	100 x 60cm	H	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Ultrasound gel	Gel	HC4	V
Ultrasound paper	110mm x 20mm	HC4	V
X-ray developer and replenisher	2.6kg for 22.5L	H	V
X-ray developer and replenisher	Rapid process	NR	V
X-ray film	Blue sensitive, 18 x 24cm	H	V
X-ray film cassette with screen	18 x 24cm	H	V
X-ray film cassette with screen	24 x 30cm	H	V
X-ray film cassette with screen	30 x 40cm	H	V
X-ray film cassette with screen	35 x 35cm	H	V
X-ray film cassette with screen	35 x 43cm	H	V
X-ray film, rapid processing	Blue sensitive, 24 x 30cm	NR	V
X-ray film, rapid processing	Blue sensitive, 30 x 40cm	NR	V
X-ray film, rapid processing	Blue sensitive, 35 x 35cm	NR	V
X-ray film, rapid processing	Blue sensitive 20 x 25.4cm	NR	V
X-ray film, rapid processing	Blue sensitive, 35 x 43cm	NR	V
X-ray fixer	Auto processing, rapid	NR	V
X-ray fixer	Powder, 3.3kg for 22.5L	NR	V

ITEM DESCRIPTION	SPECIFICATION	L	C
11. PROTECTIVES			
Apron plastified linen, heavy duty	90 x 100cm	HC2	E
Apron protective, disposable	90 x 100cm	HC2	E
Bin liners	Black	HC2	E
Bin liners	Brown	HC2	E
Bin liners	Red	HC2	E
Bin liners	Yellow	HC2	E
Boots theatre, white, antistatic	Size 10	HC2	E
Boots theatre, white, antistatic	Size 11	HC2	E
Boots theatre, white, antistatic	Size 12	HC2	E
Boots theatre, white, antistatic	Size 7	HC2	E
Boots, theatre, white, antistatic	Size 8	HC2	E
Boots, theatre, white, antistatic	Size 9	HC2	E
Cap, surgical, head and neck, disposable, non-woven	62 x 27cm	HC4	N
Linen material	Blue	HC4	V
Mackintosh plastic (apron)	Per 1m	HC2	E
Mackintosh rubber (sheeting)	Brown, per 1m	HC2	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Material for theatre gown	Green	HC4	V
Material for theatre gown	Navy blue	HC4	V
Material for theatre gown	Sky blue	HC4	V
Sheeting, Mackintosh	Red rubber, 20m roll, 90cm wide	HC2	N
12. MISCELLANEOUS SUPPLIES			
Applicator stick with cotton tip	150x2.2mm	HC4	E
Autoclave tape	50m	HC4	V
Bedpan, stainless steel	Standard	HC4	V
Body bag	Adult, 70 x 215cm/90 x 234cm	HC4	V
Bowl without lid	Stainless steel, 7x12cm	HC2	N
Bowl without lid	Stainless steel, 8x16cm	HC2	N
Bowl without lid	Stainless steel, 10x24cm	HC2	N
Bulb sucker	Rubber, 60ml	HC2	V
Condoms	Male generic bulk foiled	HC2 (HC1)	V
Dispensing envelopes	Plastic, 75 x 110mm	HC2	V
Drain corrugated	Rubber, 305 x 155mm	RR	N
Face masks, disposable	2-ply operation theatre	HC4	E

ITEM DESCRIPTION	SPECIFICATION	L	C
First aid kit	Standard kit	HC2 (HC1)	E
Gallipot, stainless steel	200 or 300ml	HC2	N
Microscope tape, adhesive dressing	2.5cm x 5m	RR	E
Mucus extractor, disposable	Adult, CH10, OD 3.3mm	HC4	N
Mucus extractor, disposable	Infant	HC4	E
Pap smear kits	Kit	HC4	V
Tongue Depressor	Wooden, 150 x 18mm	HC4	N
Umbilical clamp	Piece	H	N
Umbilical tape	3mm x 100m	HC2	V
Undercast padding (synthetic cotton)	7.5cm X 3m (2.7m)	H	E
Undercast padding (synthetic cotton)	15cm X 3m (2.7m)	H	E
Urinal	1L/2L	HC4	N
Urine collecting bag, sterile	Adult, 2L	HC4	E
Urine collector, sterile	Paediatric, 2L	HC4	N
Vein compressor	Latex free	HC3	N

SECTION C: SPECIALIST MEDICINES

MEDICINE	DOSAGE FORM	STR	L	C
1. ANAESTHETICS				
1.1 General anaesthetics and oxygen				
Desflurane	Liquid for inhalation	100%	NR	E
Isoflurane	Liquid for inhalation	≥99.9%	HC4	V
Ketamine	Injection	50mg/ml	HC4	V
Nitrous oxide	Medical gas	99.999%	H	E
Propofol	Injection	10mg/ml	H	V
Sevoflurane	Liquid for inhalation	100%	NR	V
Thiopental sodium	Powder for injection	500mg	HC4	V
1.2 Local anaesthetics				
Bupivacaine	Injection	0.25%	RR	E
Bupivacaine	Injection	0.50%	RR	V
Lignocaine	Injection (epidural)	2%	RR	V
Lignocaine + epinephrine (adrenaline)	Injection (dental cartridge)	2% + 1:80 000	HC4	V
1.3 Preoperative and peri-operative medication				
Droperidol	Injection	2.5mg/ml	H	E
Ephedrine	Injection	3mg/ml	HC4	V
Fentanyl	Injection	50µg/ml	H	V
Glycopyrrolate	Injection	200µg/ml	RR	V
Lignocaine	Injection	50mg/ml	HC4	V

MEDICINE	DOSAGE FORM	STR	L	C
Lorazepam	Injection	4mg/ml	H	E
Midazolam	Injection	2mg/ml	RR	V
Phenylephrine	Injection	10mg/ml	H	V
Remifentanyl	Powder for injection	1mg	NR	V

2. ANALGESICS, ANTIPYRETICS

2.1 Non-opioids (only general treatment)

2.2 Medicines used for gout

Allopurinol	Tablet	100mg	H	E
Colchicine	Tablet	500µg	H	V

2.3 Opioid analgesics

Papaveretum + hyoscine	Injection	15.4mg/ml + 0.4mg/ml	RR	N
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3. ANTI-ALLERGICS AND MEDICINES USED IN ANAPHYLAXIS

Dexamethasone	Injection	4mg/ml	HC4	E
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4. ANTIDOTES

4.1 General (only general treatment)

4.2 Specific

Calcium folinate (folic acid)	Injection	3mg/ml	RR	E
Desferrioxamine mesilate	Powder for injection	500mg	NR	N
Dimercaprol	Injection	50mg/ml	NR	N
Methionine	Tablet	250mg	H	N

MEDICINE	DOSAGE FORM	STR	L	C
Methylthioninium chloride (methylene blue)	Injection	10mg/ml	H	N
Penicillamine	Tablet	250mg	NR	N
Sodium thiosulphate	Injection	250mg/ml	NR	N
5. ANTIEPILEPTICS AND ANTICONVULSANTS				
Valproate	Tablet (EC)	200mg	H	V
6. ANTI-INFECTIVE MEDICINES				
6.1 Antihelminthics				
6.1.1 Intestinal antihelminthic (only general medicine)				
6.1.2 Antifilarials				
Diethylcarbamazine citrate	Tablet	50mg	H	N
Ivermectin	Tablet	6mg	HC3	E
6.1.3 Antischistosomal (only general medicine)				
6.2 Antibacterials				
6.2.1 Beta-lactam medicines				
Amoxicillin + clavulanic acid	Tablet	250mg + 125mg	RR	E
Paromomycin sulphate	Capsule	250mg	NR	N
6.2.2 Other antibacterial medicines (only general medicine)				
6.2.3 Antileprosy medicines (only general medicine)				
6.2.4 Antituberculosis medicines (only general medicine)				
6.3 Antifungal medicines				
Amphotericin B	Powder for injection	50mg	H	V

MEDICINE	DOSAGE FORM	STR	L	C
Fluconazole	Capsule	50mg	HC4	V
Fluconazole	Capsule	200mg	HC4	V
Flucytosine	Injection	10mg/ml	RR	N
Ketoconazole	Tablet	200mg	HC3	N

6.4 Antiprotozoal medicines

6.4.1 Antiamoebic medicines (only general medicine)

6.4.2 Antileishmaniasis medicines (only general medicine)

Pentamidine isethionate	Powder for injection	300mg	RR	E
Sodium stibogluconate	Injection	100mg/ml	RR	E

6.4.3 Antimalarial medicines (only general medicine)

6.4.4 Antitrypanosomal medicines (African trypanosomiasis)

Melarsoprol	Injection	36mg/ml	RR	N
Nifurtimox	Tablet	30mg	RR	E
Nifurtimox	Tablet	120mg	RR	E
Nifurtimox	Tablet	250mg	RR	E
Pentamidine isethionate	Powder for injection	300mg	RR	E
Suramin sodium	Powder for injection	1g	RR	N

6.4.5 Antitrichomoniasis medicines (only general medicine)

6.4.6 Medicines used in toxoplasmosis

Pyrimethamine	Tablet	25mg	H	E
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6.5 Antiviral medicines

Ganciclovir sodium	Powder for injection	500mg	RR	E
Oseltamivir phosphate	Tablet	75mg	RR	E

MEDICINE	DOSAGE FORM	STR	L	C
7. ANTIMIGRAINE MEDICINES				
7.1 Treatment of acute attacks (only general medicine)				
7.2 Prophylaxis (only general medicine)				
8. ANTINEOPLASTIC AND IMMUNOSUPPRESSIVE MEDICINES				
8.1 Immunosuppressive medicines				
Azathioprine	Powder for injection	100mg	NR	N
Azathioprine	Tablet	50mg	NR	E
Cyclosporin	Tablet	25mg	NR	N
Cyclosporin	Capsules	100mg	NR	N
Cyclosporin	Concentrate for IV inf	50mg/ml	NR	N
8.2 Cytotoxic medicines				
Asparaginase	Powder for injection	10,000IU	NR	N
Bleomycin	Powder for injection	15,000IU	RR	V
Calcium folinate (folinic acid)	Tablet	15mg	RR	N
Calcium folinate (folinic acid)	Injection	10mg/ml	NR	E
Carboplatin	Injection	10mg/ml	RR	E
Chlorambucil	Tablet	2mg	RR	E
Cisplatin	Injection	1mg/ml	NR	V
Cyclophosphamide	Powder for injection	1g	NR	V
Cyclophosphamide	Tablet	50mg	NR	N

MEDICINE	DOSAGE FORM	STR	L	C
Cytarabine	Injection	100mg/ml	NR	V
Dacarbazine	Powder for injection	100mg	NR	V
Dactinomycin	Powder For Injection	500µg	NR	V
Daunorubicin	Powder For Injection	50mg	NR	V
Docetaxel	Infusion	10mg/ml	RR	V
Doxorubicin (adriamycin)	Powder for injection	50mg	NR	V
Etoposide	Powder for injection	100mg	NR	V
Fluorouracil	Injection	50mg/ml	NR	V
Gemcitabine	Powder for injection	200mg	NR	V
Goserelin	Implant	3.6mg	RR	V
Hydroxycarbamide (hydroxyurea)	Capsule	500mg	NR	V
Ifosfamide	Powder for injection	1g	NR	V
Irinotecan	Infusion	20mg/ml	NR	V
Mercaptopurine	Tablet	50mg	NR	V
Methotrexate	Tablet	2.5mg	RR	E
Methotrexate	Injection	50mg/ml	NR	E
Mustine	Powder for injection	10mg	NR	E
Procarbazine	Capsule	50mg	NR	V
Rituximab	Concentrate for IV inf	10mg/ml	NR	E
Stilboestrol	Tablet	5mg	RR	E
Temozolamide	Capsule	250mg	NR	V

MEDICINE	DOSAGE FORM	STR	L	C
Thioguanine	Tablet	40mg	NR	E
Vincristine	Injection	1mg/ml	RR	V
8.3 Hormone and antihormones				
Dexamethasone	Tablet	4mg	HC4	E
Dexamethasone	Injection	4mg/ml	H	E
Tamoxifen	Tablet	20mg	NR	E
9. ANTI-PARKINSONISM MEDICINES				
Levodopa + carbidopa	Tablet	100mg + 25mg	NR	E
Levodopa + carbidopa	Tablet	250mg + 25mg	NR	E
10. MEDICINES AFFECTING THE BLOOD				
10.1 Antianaemia medicines (only general medicine)				
10.2 Anticoagulants and antagonists (only general medicine)				
10.3 Fibrinolytic medicines				
Streptokinase	Powder for injection	250,000IU	RR	V
11. BLOOD PRODUCTS AND PLASMA SUBSTITUTES				
11.1 Plasma expanders (only general medicine)				
11.2 Plasma extracts				
Albumin, human	IV infusion	25%	RR	E
Factor VIII concentrate	Dried powder for injection	1,500IU	NR	N
Factor IX (coagulation factors II, VII, IX, X) complex concentrate	Dried powder for injection	1,000IU	RR	N

MEDICINE	DOSAGE FORM	STR	L	C
12. CARDIOVASCULAR MEDICINES				
12.1 Angiangular medicines				
Carvedilol	Tablet	12.5mg	RR	E
12.2 Antidysrhythmic medicines				
Amiodarone	Tablet	200mg	NR	N
Amiodarone	Sterile concentrate	50mg/ml	NR	E
Atenolol	Tablet	100mg	H	N
Lignocaine	Injection	20mg/ml	RR	V
Procainamide	Tablet	250mg	RR	N
Propranolol	Injection	1mg/ml	RR	N
12.3 Antihypertensive medicines				
Amlodipine	Tablet	10mg	RR	E
Candesartan cilexetil	Tablet	8mg	NR	N
Labetalol	Injection	5mg/ml	RR	E
12.4 Medicines used in heart failure				
12.4.1 Cardiac glycosides (only general medicine)				
12.4.2 Medicines used in vascular shock				
Dobutamine	Concentrate for IV inf	12.5mg/ml	NR	V
Epinephrine (adrenaline)	Injection	1mg/ml	HC4	V
Norepinephrine (noradrenaline)	Injection	2mg/ml	RR	V
13. DERMATOLOGICAL MEDICINES (only general medicine)				

MEDICINE	DOSAGE FORM	STR	L	C
14. DIAGNOSTIC MEDICINES				
14.1 Ophthalmic diagnostic medicines (only general medicine)				
14.2 Radiocontrast media				
Barium sulphate	Powder in water	75%	RR	N
Diatrizoate	Injection	60%	RR	N
Diatrizoate	Injection	76%	RR	N
Iodised oil fluid	Injection	38%	RR	N
Ioglycamate	Injection	17%	RR	N
Ioglycamate	Injection	35%	RR	N
Iohexol	Injection	18%	RR	N
Iohexol	Injection	24%	RR	N
Iohexol	Injection	30%	RR	N
Iohexol	Injection	35%	RR	N
Iopanoic acid	Tablet	500mg	RR	N
Iothalamate	Injection	54%	RR	N
Iothalamate	Injection	60%	RR	N
Iothalamate	Injection	70%	RR	N
14.3 Other diagnostic medicines (only general medicine)				
15. DISINFECTANTS AND ANTISEPTICS (only general medicine)				
16. DIURETICS				
Mannitol	IV infusion	20%	RR	E

MEDICINE	DOSAGE FORM	STR	L	C
17. GASTROINTESTINAL MEDICINES				
17.1 Antacids and other antiulcer medicines (only general medicine)				
Rabeprozole	Injection	20mg	H	N
17.2 Antiemetics				
Domperidone	Tablet	10mg	H	N
Domperidone	Suspension	5mg/5ml	H	N
Granisetron	Injection	1mg/ml	RR	E
17.3 Antihæmorrhoidals (only general medicine)				
17.4 Antispasmodics				
Hyoscine	Injection	20mg/ml	RR	N
Propantheline	Tablet	15mg	H	N
17.5 Laxatives (only general medicine)				
17.6 Medicines used in diarrhoea (only general medicine)				
18. HORMONES, OTHER ENDOCRINE MEDICINES AND CONTRACEPTIVES				
18.1 Adrenal hormones and synthetic substitutes				
ACTH (corticotrophin)	Powder for injection	40 IU	RR	N
Cortisone acetate	Tablet	25mg	RR	N
18.2 Androgens				
Methyltestosterone	Tablet	5mg	RR	N
Testosterone enantate	Injection (oily)	250mg/ml	RR	N
18.3 Hormonal contraceptives (only general medicine)				

MEDICINE	DOSAGE FORM	STR	L	C
18.4 Oestrogens				
Stilboestrol	Tablet	5mg	RR	N
18.5 Insulins and other antidiabetic medicines				
Glimepiride	Tablet	4mg	RR	N
Pioglitazone	Tablet	30mg	RR	N
18.6 Ovulation inducers				
Bromocriptine	Tablet	2.5mg	RR	N
Clomifene	Tablet	50mg	RR	N
18.7 Progestogens				
Norethisterone	Tablet	5mg	RR	E
18.8 Thyroid hormones and antithyroid medicines				
Iodine (I) + potassium iodide	Oral solution	5% + 10%, 130mg/ml total I	RR	E
19. IMMUNOLOGICALS (only general medicine)				
20. MUSCLE RELAXANTS AND CHOLINESTERASE INHIBITORS				
Atracurium besilate	Injection	10mg/ml	H	V
Neostigmine	Tablet	15mg	NR	N
Neostigmine	Injection	2.5mg/ml	HC4	N
Pancuronium bromide	Injection	2mg/ml	HC4	V
Suxamethonium	Injection	50mg/ml	HC4	V
21. OPHTHALMOLOGICAL PREPARATIONS (only general medicine)				
22. OXYTOCICS AND ANTI-OXYTOCICS (only general medicine)				

MEDICINE	DOSAGE FORM	STR	L	C
23. PERITONEAL AND HAEMODIALYSIS SOLUTIONS				
Peritoneal dialysis solution	Solution	1.5% (glucose)	RR	V
Liquid concentrate for haemodialysis (bicarbonate + acetate)	Liquid	33mEq/l + 4mEq/l	RR	V
24. PSYCHOTHERAPEUTIC MEDICINES				
Alprazolam	Tablet	0.5mg	RR	N
Haloperidol	Injection (oily)	100mg/ml	RR	V
Lamotrigine	Tablet	100mg	NR	E
Lithium carbonate	Tablet	400mg	NR	E
Lorazepam	Tablet	2.5mg	RR	E
Methylphenidate	Tablet	5mg	RR	E
Naltrexone	Tablet	50mg	RR	E
Olanzapine	Tablet	10mg	RR	E
Risperidone	Tablet	2mg	NR	N
Zuclopenthixol decanoate	Injection (oily)	200mg/ml	RR	N
25. MEDICINES ACTING ON THE RESPIRATORY TRACT (only general medicine)				
26. SOLUTIONS CORRECTING WATER, ELECTROLYTE AND ACID-BASE DISTURBANCES (only general medicine)				

MEDICINE	DOSAGE FORM	STR	L	C
27. VITAMINS, MINERALS AND THERAPEUTIC FEEDS				
Ergocalciferol (vitamin D ₂)	Tablet	250µg (10,000 IU)	NR	E
Hydroxocobalamin (vitamin B ₁₂)	Injection	1mg/ml	RR	E
28. EAR, NOSE AND OROPHARYNGEAL PREPARATION (only general medicine)				
29. MEDICINES FOR NEUROSURGICAL USE				
29.1 For cerebral metabolism/perfusion				
Piracetam	Tablet	800mg	NR	E
Piracetam	Injection	125mg/ml	NR	E
30. ANTIRETROVIRAL MEDICINES (only general medicine)				
31. NUTRITION				
Amino acids (paediatric)	Injection	10%	NR	N
Combined mineral vitamin mix	Powder	Ka, Mg + other essential minerals	HC4	E
Fat emulsion	Injection (emulsion)	20%	NR	N
Starch emulsion	Injection (emulsion)	80% oil in water	NR	N

SECTION D: SPECIALIST HEALTH SUPPLIES

ITEM DESCRIPTION	SPECIFICATION	L	C
1. BLADES AND BLADE HANDLES			
Blades scalpel	Size 11	H	V
Blades scalpel	Size 15	H	V
2. LIGATURES AND SUTURE MATERIALS AND SURGICALS			
PGA, suture (3/0)	30mm needle length	RR	E
PGA, suture (4/0)	45cm thread length	RR	E
PGA, suture (4/0)	70cm thread length	RR	E
PGA, suture (5/0)	45cm thread length	RR	E
PGA, suture (5/0)	70cm thread length	RR	E
PGA, suture (6/0)	45cm thread length	RR	E
Eye suture nylon 9/0	Single armed	RR	V
Eye suture nylon 10/0	Single armed	RR	V
3. ORTHOPAEDIC SUPPLIES			
Angled blade plate	50mm blade, 95°, 6 holes	RR	E
Angled blade plate	50mm blade, 95°, 7 holes	RR	E
Angled blade plate	50mm blade, 95°, 8 holes	RR	E
AO femur nails	10mm diameter, 34-40mm length	RR	E
AO femur nails	11mm diameter, 34-40mm length	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
AO femur nails	12mm diameter, 34-40mm length	RR	E
AO femur nails	13mm diameter, 34-40mm length	RR	E
AO tibia nails	8mm diameter, 32-36mm length	RR	N
AO tibia nails	9mm diameter, 32-36mm length	RR	N
AO tibia nails	10mm diameter, 32-36mm length	RR	N
AO tibia nails	11mm diameter, 32-36mm length	RR	N
Austin Moore prosthesis	43mm diameter	RR	N
Austin Moore prosthesis	44mm diameter	RR	N
Austin Moore prosthesis	45mm diameter	RR	N
Austin Moore prosthesis	46mm diameter	RR	N
Austin Moore prosthesis	47mm diameter	RR	N
Bipolar prosthesis	43mm diameter	RR	N
Bipolar prosthesis	44mm diameter	RR	N
Bipolar prosthesis	45mm diameter	RR	N
Bipolar prosthesis	46mm diameter	RR	N
Bipolar prosthesis	47mm diameter	RR	N
Cancellous screw	Partially and fully threaded, 3.5mm, 15mm length	RR	E
Cancellous screw	Partially and fully threaded, 3.5mm, 20mm length	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Cancellous screw	Partially and fully threaded, 3.5mm, 25mm length	RR	E
Cancellous screw	Partially and fully threaded, 3.5mm, 30mm length	RR	E
Cancellous screw	Partially and fully threaded, 3.5mm, 35mm length	RR	E
Cancellous screw	Partially and fully threaded, 3.5mm, 40mm length	RR	E
Cancellous screw	Partially and fully threaded, 3.5mm, 45mm length	RR	E
Cancellous screw	Partially and fully threaded, 3.5mm, 50mm length	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, length 30mm	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, 35mm length	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, 40mm length	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, 45mm length	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, 50mm length	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Cancellous screw	Partially and fully threaded, 4.5mm, 55mm length	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, 60mm length	RR	E
Cancellous screw	Partially and fully threaded, 4.5mm, 65mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 14mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 16mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 18mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 20mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 22mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 24mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 26mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 28mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 30mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 32mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 34mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 36mm length	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Cortical compression screw	Diameter 3.5mm, 38mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 40mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 42mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 44mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 46mm length	RR	E
Cortical compression screw	Diameter 3.5mm, 48mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 16mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 18mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 20mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 22mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 24mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 26mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 28mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 30mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 32mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 34mm length	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Cortical compression screw	Diameter 4.5mm, 36mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 38mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 40mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 42mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 44mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 46mm length	RR	E
Cortical compression screw	Diameter 4.5mm, 48mm length	RR	E
Diathermy cables and tips	Varying sizes	RR	E
Drill bits	2.5"	RR	E
Drill bits	2.7"	RR	E
Drill bits	3.2"	RR	E
Dynamic compression plates	Diameter 3.5mm, 6 holes	RR	E
Dynamic compression plates	Diameter 3.5mm, 7 holes	RR	E
Dynamic compression plates	Diameter 3.5mm, 8 holes	RR	E
Dynamic compression plates	Diameter 4.5mm, 8 holes	RR	E
Dynamic compression plates	Diameter 4.5mm, 9 holes	RR	E
Dynamic compression plates	Diameter 4.5mm, 10 holes	RR	E
Dynamic compression plates	Diameter 4.5mm, 11 holes	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Dynamic compression plates	Diameter 4.5mm, 12 holes	RR	E
Dynamic compression plates	Diameter 4.5mm, 13 holes	RR	E
Dynamic compression plates	Diameter 4.5mm, 14 holes	RR	E
Dynamic hip screw (DHS)	75mm	RR	E
Dynamic hip screw (DHS)	80mm	RR	E
Dynamic hip screw (DHS)	85mm	RR	E
Dynamic hip screw (DHS)	90mm	RR	E
Dynamic hip screw (DHS)	95mm	RR	E
Dynamic hip screw (DHS) side plates	Angle 130 or 135, 4 holes side plate	RR	E
Dynamic hip screw (DHS) side plates	Angle 130 or 135, 5 holes side plate	RR	E
Dynamic hip screw (DHS) side plates	Angle 130 or 135, 6 holes side plate	RR	E
Dynamic hip screw (DHS) side plates	Angle 130 or 135, 7 holes side plate	RR	E
External fixators	Rods, single and double clamps and connecting rods	RR	V
Ilizarov bars	Short, medium and long	RR	N
Ilizarov bolts	Central hole, 1.8mm, 2mm side slot: 1.8mm, 2mm: Plain	RR	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Ilizarov wires	1.8mm diameter	RR	E
Ilizarov wires	2.0mm diameter	RR	E
Kuntcher nails	8mm diameter, 34-40mm length	RR	E
Kuntcher nails	9mm diameter, 34-40mm length	RR	E
Kuntcher nails	10mm diameter, 34-40mm length	RR	E
Kuntcher nails	11mm diameter, 34-40mm length r	RR	E
Kuntcher nails	12mm diameter, 34-40mm length	RR	E
K-wires	0.75mm diameter	RR	E
K-wires	1 mm diameter	RR	E
K-wires	1.5 mm diameter	RR	E
K-wires	1.8 mm diameter	RR	E
K-wires	2 mm diameter	RR	E
K-wires	2.5mm diameter	RR	E
L plates	4 holes	RR	E
L plates	5 holes	RR	E
L plates	6 holes	RR	E
L plates	7 holes	RR	E
One-third tubular plates	5 holes	RR	E
One-third tubular plates	6 holes	RR	E
One-third tubular plates	7 holes	RR	E
Ortho-Phthalaldehyde	Solution, 5.75%	RR	E
Reconstruction plates	Diameter 3.5mm, 58-262mm, 5-22 holes	RR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Rush rods	Medium	RR	N
Schanz pins	2.5mm	RR	E
Schanz pins	3mm	RR	E
Schanz pins	4mm	RR	E
Schanz pins	5mm	RR	E
Schanz pins	6mm	RR	E
Semi-tubular plates	5 holes	RR	E
Semi-tubular plates	6 holes	RR	E
Semi-tubular plates	7 holes	RR	E
Semi-tubular plates	8 holes	RR	E
Small external fixators for forearms and hands	single pin clamp, 4.0x2.5mm	RR	E
Small external fixators for forearms and hands	connecting clamp	RR	E
Soft wires	2mm diameter	RR	E
Soft wires	2.5mm diameter	RR	E
Soft wires	2.7mm diameter	RR	E
Soft wires	3.2mm diameter	RR	E
Steinmanns pin with tracer tips both end	3.5-4mm diameter	RR	N
T plates	4 holes	RR	E
T plates	5 holes	RR	E
T plates	6 holes	RR	E
T plates	7 holes	RR	E
Tourniquet, esmarch	10 no.	RR	E

4. HAEMODIALYSIS

Bicarbonate powder	81.25g/l	NR	V
Bloodlines (come with dialysers)	Depending on dialyser	NR	V

ITEM DESCRIPTION	SPECIFICATION	L	C
Catheter	Size 15	NR	E
Catheter	Size 16	NR	E
Catheter	Size 17.5	NR	V
Catheter	Size 20	NR	E
Dialysers, filters	Small adult, F7	NR	V
Dialysers, filters	Average adult, F8	NR	V
Dialysers, filters	Children, F5	NR	V

5. PERITONEAL DIALYSIS

Adapters and connectors	ISO compliant	NR	V
Diaslysis collecting bag	Varies	NR	V
Tenkhoff catheter	Adult	NR	V
Tenkhoff catheter	Children	NR	V
Y-line	ISO compliant	NR	V

6. DENTAL SUPPLIES

Acrylic teeth, lower anterior	Set of 6	RR	E
Acrylic teeth, lower posterior	Set of 6	RR	E
Acrylic teeth, upper anterior	Set of 6	RR	E
Acrylic teeth, upper posterior	Set of 6	RR	E
Arch bars, dental	12	RR	E
Bite wing dental films	3 x 4cm	H	E
Cold mould seal	1L	RR	E
Dental drill bits	Red, long and short	NR	E
Dental drill bits	Green	NR	E
Dental drill bits	Blue	NR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Dental impression material, alginate	500g bottle	H	N
Dental mercury	500g	HC4	E
Dental mirrors	1 1/8	NR	V
Dental needles	28G (long)	H	N
Dental needles	28G (short)	H	N
Dental plaster	1kg bag	RR	E
Dental probes	Piece	NR	V
Dental silver alloy	2 x 12g	HC4	E
Dental stone	1kg bag	RR	E
Dycal® (Calcium hydroxide) liquid and powder	13g base + 11g catalyst	H	E
Ethyl chloride spray	Spray, 100ml	HC4	E
Eugenol liquid	50ml bottle	HC4	E
Glass ionomer cement kit (with powder, measure and water dispenser)	60g powder	H	E
Gutta parch packets	Assorted Sizes 45-80	H	N
Gutta parch packets	Assorted Sizes 15-40	H	N
Hand piece oil spray	500ml	HC4	E
Heat cure monomer liquid	250ml	RR	E
Heat cure powder	500g	RR	E
Inverted cone bur	size 5ml	HC4	E
Light cure composite materials	Pack	HC4	N
Lindemann bur	Shank diameter 2.35mm	NR	E
Manipulates and screws	2mm	NR	E

ITEM DESCRIPTION	SPECIFICATION	L	C
Matrix band holders	Piece	HC4	N
Matrix band strips	Packet	HC4	N
Modelling wax	500mg	RR	E
Occlusal dental X-ray films	5 x 7cm	H	E
Orbital floor mesh	ISO compliant	NR	E
Orthopantomograph (OPG) dental X-ray films	15x30cm	H	E
Paediatric dental X-ray films	2x3cm	H	E
Paper points	15-40	H	N
Paper points	45-80	H	N
Periapical dental X-ray	3 x 4cm	H	E
Polishing brush	Set	RR	E
Pumice	1kg	RR	E
Reconstruction plate of the mandible	2.4	NR	E
Root canal broaches	15-40	H	N
Root canal broaches	40-80	H	N
Root canal files	15-40	H	N
Root canal files	40-80	H	N
Root canal sealer kit	Tube	H	N
Round bur	Size 5ml	HC4	E
Self cure monomer	250ml	RR	E
Self cure powder, clear	500g	RR	E
Self cure powder, pink	500g	RR	E
Silver point for root canal filling	Size 10, 15, 20	H	N

ITEM DESCRIPTION	SPECIFICATION	L	C
Socket dressing material (alvogy)	10ml	H	N
Stainless steel wires	0.45mm	H	E
Straight crosscut fissure bur	Size 5ml	HC4	E
Suction tubes (saliva ejectors)	0.5mm, 30m	HC4	E
Tapered fissure bur	Size 5ml	HC4	E
Temporary filling material (Cavit®)	7g	HC4	E
Titanium screws	Ordinary	NR	E
Titanium screws	Emergency	NR	E
Tweezers, dental	Piece	HC4	E
Zinc oxide (eugenol) powder	80g	HC4	E
Zinc phosphate cement powder (regular set)	90g	HC4	E
Zinc phosphate liquid	25ml	H	E

7. OPTHALMIC SUPPLIES

Polymethylmethacrylate (PMMA) intraocular lenses, 4 point fixation	Anterior chamber 18D	RR	V
PMMA intraocular lenses, 4 point fixation	Anterior chamber 19D	RR	V
PMMA intraocular lenses, 4 point fixation	Anterior chamber 20D	RR	V
PMMA intraocular lenses, posterior chamber	5mm diameter 12.5mm length, 21D	RR	V

ITEM DESCRIPTION	SPECIFICATION	L	C
PMMA intraocular lenses, posterior chamber	5mm diameter 12.5mm length, 22D	RR	V
PMMA intraocular lenses, posterior chamber	5mm diameter 12.5mm length, 23D	RR	V
PMMA intraocular lenses posterior chamber	5mm diameter 12.5mm length, 24D	RR	V
PMMA intraocular lenses, posterior chamber	5mm diameter 12.5mm length, 25D	RR	V
PMMA intraocular lenses, posterior chamber	6mm diameter 12.5mm length, 21D	RR	V
PMMA intraocular lenses, posterior chamber	6mm diameter 12.5mm length, 22D	RR	V
PMMA intraocular lenses, posterior chamber	6mm diameter 12.5mm length, 23D	RR	V
PMMA intraocular lenses, posterior chamber	6mm diameter 12.5mm length, 24D	RR	V
PMMA intraocular lenses, posterior chamber	6mm diameter 12.5mm length, 25D	RR	V
8. PROTECTIVES			
Theatre gown	Dark green	HC4	V
Theatre Trouser	Light green	HC4	V
9. MISCELLANEOUS SUPPLIES			

ITEM DESCRIPTION	SPECIFICATION	L	C
Bedpan	Adult, autoclavable, polypropylene	HC4	N
Bone marrow needles set	Adult	RR	E
Bone marrow needles set	Paediatric	RR	E

SECTION E: LABORATORY SUPPLIES

ITEM DESCRIPTION	UNIT	L	C
1. TESTING KITS			
1.1 HIV testing kits			
Determine HIV 1/2 test kit + chase buffer	100	HC2	V
Stat-pak dipstick HIV 1/2 test kit	30	HC2	V
Unigold HIV 1/2 test kit	20	HC2	V
1.1.1 Specimen collection HIV testing accessories			
Alcohol swab	100	HC2	V
Band-aid	100	HC3	V
Blood lancet, fixed point	200	HC2	V
Blood lancet, safety	200	HC2	V
Capillary tube, 15% capillary draw, 200 µl, EDTA	100	HC2	E
CD4 stabilization tubes	100	HC4	V
Needle holder	250	HC2	V
Pasteur pipette paddle, 50 µl drop (3ml)	100	HC2	V
Sharps container	1	HC2	E
Vacutainer 4ml plain tubes	100	HC4	V
Vacutainer 6ml plain tubes	100	BB	V
Vacutainer fluoride tubes	100	HC4	V
Vacutainer needle 21G	100	HC2	V
Vacutainer, 85% venous draw, 4 ml, EDTA, plastic	100	HC3	V

ITEM DESCRIPTION	UNIT	L	C
1.2 Other testing kits including reagents			
Blood glucose test strips	50	HC3	V
Brucella abortus Ag	5ml	HC4	E
Brucella melistensis Ag	5ml	HC4	N
Cryptococcal latex antigen	100	H	V
HCG latex antigen	100	H	E
HCG pregnancy test strips	100	HC3	V
IgM (tubex)	25 tests	HC 2	E
Malaria rapid diagnostics test (RDT)	25	HC2	V
RPR antigen	100	H	E
RPR test strips	100	HC3	V
Toxoplasma screening test	25 tests	H	N
TPHA antigen	100	H	E
Treponema specific test strips	100	HC3	V
Urine test strips	100	HC3	E
1.3 Reconstituted laboratory reagents for malaria, CBC, tuberculosis and opportunistic infections			
Ammonium solution (hemoglobin estimation) 0.04%	500ml	HC3	V
Formal saline 10%	1000ml	HC3	E
Hydrochloride (hemoglobin estimation) 0.1N	1000ml	HC3	V
Leishman's stain	1000ml	HC4	V
May grunwald	1000ml	H	E
Turks solution (white blood cell count) 2%	500ml	HC3	E

ITEM DESCRIPTION	UNIT	L	C
1.4 Tuberculosis reagents kit		HC3	V
Methylene blue 0.5%	1000ml		
Microscope slide, single frosted	100		
Strong carbol fuchsin	1000ml		
Sulphuric acid 25%	1000ml		
1.5 Tuberculosis florescent diagnostics kit		RR	V
Auramine-o stain	1000ml		
Hydrochloride in ethanol, 0.5% in 70%	1000ml		
Methylene blue 0.125%	1000ml		
1.6 Malaria fields stain reagent kit			
Cuvettes	100	HC4	V
Cyanmethaemoglobin standard	10ml	HC4	V
Drabkin capsules, 6 capsules per vial	500L	HC4	V
Field B Stain solution	1000ml	HC3	V
Field stain A solution	1000ml	HC3	V
Giemsa stain	1000ml	H	V
Hemoglobin (Hb) calorimetry kit	Kit	HC3	V
Phosphate buffer tablets	50 tablets	HC3	V
Sodium chloride (saline) 0.85%	1000ml	HC3	V
Sodium metabisulphite	500 g	HC3	E
1.7 Gram stain kit		HC3	V
Acetone alcohol 50%	1000ml		
Crystal violet 2%	1000ml		

ITEM DESCRIPTION	UNIT	L	C
Gram's iodine	1000ml		
Neutral red 0.1%	1000ml		
1.8 Tuberculosis florescent diagnostics kit		RR	V
Auramine-o stain	1000ml		
Hydrochloride in ethanol, 0.5% in 70%	1000ml		
Methylene blue 0.125%	1000ml		
1.9 Coagulation reagents			
Ammonium oxalate	500g	H	N
Brilliant cresyl blue (haematology)	25g	H	N
Dobell's iodine	25g	H	N
Fibrinogen	2ml	H	E
Humased tubes	100	H	E
Thromboplastin	2 ml	H	E
2. CHEMICALS			
Acetic acid, C.P., 2.5L pieces	1L	HC3	E
Acid ethanol, 3%, 5 x 250ml	1L	HC3	N
Alcohol, 70%	1L	HC3	E
Bleach	1 gallon	HC3	N
Bleach, made to 10%	1L	HC3	E
Bleach, teepol, 4% available chlorine	1L	HC3	E
Copper sulphate 10%	500ml	HC3	N
Ethanol, absolute	2.5L	HC3	N
Ethanol, denatured, 95%	20L	HC3	N

ITEM DESCRIPTION	UNIT	L	C
Formalin	500ml	HC3	E
Glycerol	1L	HC3	N
Hydrochloric acid,	1L	HC3	E
Hydrochloric acid, 32%,	2.5L	HC3	E
Hydrogen peroxide 3%, amber glass	500ml	HC3	E
Methanol	5L	HC3	E
Neo-clear xylene substitute	4 L	HC3	E

3. REAGENTS AND SUPPLIES FOR CONFIRMATION OF OTHER EPIDEMICS

3.1 Culture media and biochemical's

Alkaline peptone water agar, dehydrated powder	500g	H	N
API-20E kit	1	H	E
Bile aesculin agar	500g	H	N
Blood base agar, dehydrated powder	500g	H	E
Blood culture system (diphasic)	1	H	E
Brain heart infusion broth, dehydrated powder	500g	H	N
Carry-blair agar, dehydrated powder	500g	H	V
DCA agar, dehydrated powder	500g	H	E
GC base agar	500g	H	E
Haemoglobin powder agar, dehydrated powder	500g	H	E
Heamophilus sensitivity agar,	500g	H	E

ITEM DESCRIPTION	UNIT	L	C
dehydrated powder			
Kligler iron agar	500g	H	N
MacConkey agar, dehydrated powder	500g	H	E
Maconkey sorbitol agar, dehydrated powder	500g	H	E
Muller Hinton agar, dehydrated powder	500g	H	E
Nutrient agar, dehydrated powder	500g	H	N
Phenyl alanine	500g	H	E
Saboraud dextrose agar	500g	H	E
Selenite F broth, dehydrated powder	500g	H	N
SIM agar, dehydrated powder	500g	H	E
Skimmed milk	500g	H	E
TCBS agar, dehydrated powder	500g	H	E
Tryptone soya broth base	500g	H	E
TSI agar, dehydrated powder	500g	H	E
Urea agar, dehydrated powder	500g	H	E
XLD agar, dehydrated powder	500g	H	E
3.2 Antimicrobial density discs kits			
Ampicillin 10µg	1	H	E
Bacitracin	1	H	V
Ceftrioxin µg	1	H	E
Chloramphenicol 10µg	1	H	E
Ciprofloxacin 1µg	1	H	E
Cotrimoxazole 25µg	1	H	E

ITEM DESCRIPTION	UNIT	L	C
Erythromycin 5µg	1	H	E
Gentamicin 100µg	1	H	E
Methicilin	1	H	V
Metronidazole	1	H	V
Nalidixic acid 30µg	1	H	E
Penicillin G 10µg	1	H	E
Tetracycline 10µg	1	H	E

3.3 Identification bio-chemicals

E-strip test	100 strips	RR	E
Factor V	50 pieces	H	V
Factor X	50 pieces	H	V
Factor X+V	50 pieces	H	V
Iso vitalex	10ml	H	E
Optochin	50 pieces	H	V
Pastorex rapid kit for meningitis	1	H	V
Slidex latex rapid kit for cholera	1	H	E
Yersinia pestis rapid kit	1	H	E

3.4 Typing sera

Enteroinvasive escherichia coli 0157	2ml	H	E
Escherichia coli polyvalent 0157	2ml	H	N
Escherichia coli polyvalent A	2ml	H	N
Escherichia coli polyvalent B	2ml	H	N
Escherichia coli polyvalent C	2ml	H	N
Neisseria meningitidis monovalent A	2ml	H	V

ITEM DESCRIPTION	UNIT	L	C
Neisseria meningitidis monovalent B	2ml	H	E
Neisseria meningitidis monovalent C	2ml	H	E
Neisseria meningitidis monovalent D	2ml	H	E
Neisseria meningitidis monovalent W135	2ml	H	V
Neisseria meningitidis monovalent X	2ml	H	E
Neisseria meningitidis monovalent Y	2ml	H	E
Neisseria meningitidis monovalent Z	2ml	H	N
Neisseria meningitidis polyvalent A-D	2ml	H	V
Salmonella monovalent 09	2ml	H	E
Salmonella monovalent H gm	2ml	H	E
Salmonella monovalent Hd	2ml	H	E
Salmonella monovalent vi	2ml	H	E
Salmonella polyvalent A-S	2ml	H	E
Shigella boydii	2ml	H	V
Shigella dysenteriae monovalent type 1	2ml	H	V
Shigella dysenteriae polyvalent 1-10	2ml	H	V
Shigella sonnei phase 1 and 2	2ml	H	V
Vibrio cholerae 01 and 0139 rapid	100 tests	H	V

ITEM DESCRIPTION	UNIT	L	C
test			
Vibrio cholerae 01 monovalent ogawa	2ml	H	V
Vibrio cholerae 01 monovalent, inaba	2ml	H	V
Vibrio cholerae 01 polyvalent ogawa, inaba	2ml	H	V
4. CD4 REAGENTS			
4.1 Flow cytometer, partec, cyflow, cell counter analyzer reagent kits		HC4	V
Partec, cyflow, counter CD4 easy count kit,	100 tests		
Partec, cyflow, counter CD4, CD4% easy count kit	100 tests		
Partec, cyflow, counter check beads, green, 2x25ml	50 tests		
Partec, cyflow, SL cleaning solution	250ml		
Partec, cyflow, SL decontamination solution	250ml		
Partec, cyflow, SL sample tubes, 3.5ml	500 tubes		
Partec, cyflow, SL sheath fluid	5L		
Partec, cyflow, SL thermal printer paper	5 rolls		
4.2 BD FACSCalibur reagent kit		RR	V
Calbright 3TM (FITC, PE, PerCP, unlabelled)	25 tests		

ITEM DESCRIPTION	UNIT	L	C
Falcon tubes (4ml)	125		
Flow cytometry, BD FACS, multicheck, low control	2.5ml		
Flow cytometry, BD FACS, clean solution	5L		
Flow cytometry, BD FACS, flow sheath fluid	20L		
Flow cytometry, BD FACS, lysing solution	100ml		
Flow cytometry, BD FACS, multicheck normal control	2.5ml		
Flow cytometry, BD FACS, MultiTest CD3/CD8/CD45/CD4 with TruCOUNT tubes	50 tests		
Flow cytometry, BD FACS, rinse solution	5L		
Flow cytometry, BD FACS, TruCOUNT controls	30 tests		
Flow cytometry, BD FACSCalibur, APC, BD	25 tests		
Flow cytometry, BD FACSCalibur, flow cytometer, each	20L		
Flow cytometry, BD FACSCalibur, multicheck control low	2.5ml		
Flow cytometry, BD FACSCalibur/FACSScan, FACS lysing solution	30ml		
Printer paper	Reams		
4.3 BD FACSCount reagents kit		HC4	V
BD FACS, clean solution,	5L		

ITEM DESCRIPTION	UNIT	L	C
BD FACS, multicheck control	2.5ml		
BD FACS, multicheck, low control, lymphosure	2.5 ml		
BD FACS, rinse solution	5ml		
BD FACSCount reagent kit, CD4% kit	50 tests		
BD FACSCount reagent kit, double tube	50 tests		
BD FACSCount, control	25 tests		
BD FACSCount, flow solution	20L		
BD FACSCount, thermal printing paper	5 rolls		
4.4 EPICS XL (Beckman Coulter)		H	N
Flow check (6605359)	1		
Flow count (7547053)	1		
FlowClenz (3011)	5L		
Immunoprep (7546999)	1		
Immunotrol (6607077)	1		
Isoflow (6605359)	20L		
PLG CD4 antibodies (627808)	1		
Polypropylene tubes (2523749)	1		
4.5 CD4 point of care machine (PIMA)		HC3	V
Finger stick sample collection kit	100 test pack		
PIMA bead standard	1 set		
PIMA CD4 100X cartridge kit	100 test pack		

ITEM DESCRIPTION	UNIT	L	C
PIMA printer paper 1, 10 rolls	100 test pack		
4.6 PointCare Now		HC4	V
PointCare Now reagent kit (consists of CD4/CD4%/Hem reagent,diluent,100 pcs of gloves,100 pcs of EDTA K3 tubes, needles, acclchol swabs, one biohazard bag) for 100 tests.	Kit		
4.7 EasyCD4 (GUAVA)		HC4	E
AURICA CD4 SURE	Kit		
AURICA CD4 SURE reagent kit (40015)	Kit		
Guava EasyCD4 reagent kit (4500-0180) No additional manufacturer consumables needed	Kit		
5. DNA PCR			
5.1 Reagents for Roche Amplicor DNA PCR			
Aerosol resistant pipette tip, sterile, pre-packed, 1000µl	96	RL	V
Aerosol resistant pipette tip, sterile, pre-packed, 200µl	96	RL	V
Controls (high positive, low positive and negative)	1 pack	RL	V
MicroAmp PCR reaction tubes caps, 8 strip	1	RL	V
MicroAmp PCR reaction tubes, 8	1	RL	V

ITEM DESCRIPTION	UNIT	L	C
strip, 0.2ml			
Permanent lab marker, extra fine tip, black	1	RL	V
Pipetting reservoir	1	RL	V
Polypropylene, sterile, conical tubes with screw cap, 50ml	1	RL	V
Sarstedt sterile polypropylene screw cap tubes, 2ml	1000/box	RL	V
Serological pipette, sterile, disposable, 10ml	1	RL	V
Serological pipette, sterile, disposable, 25ml	1	RL	V
Serological pipette, sterile, disposable, 5ml	1	RL	V
Transfer pipettes, sterile bulb, 3ml	500/pack	RL	V
5.2 Reagents for Roche AmpliPrep/Taqman DNA PCR			
Spex kit	100 tests	RL	V
Test kits (HIM Qual)	96 tests	RL	V
Wash buffer	5L	RL	V
5.3 Consumables			
Clips	100 pcs	RL	V
K-tips	12 racks of 72	RL	V
K-tubes	Racks	RL	V
Sample input tubes (S-tubes)	100 pcs	RL	V
Sample processing unit (SPU)	360 pcs	RL	V
Sample racks	1 pc	RL	V

ITEM DESCRIPTION	UNIT	L	C
6. HEMATOLOGY REAGENTS			
6.1 HumaCount 5 part reagents		H	V
HumaCount basophil 5	1L		
HumaCount 5 control	3x2.5ml		
HumaCount cleaner	1L		
HumaCount control	3x2.5ml		
HumaCount diluent	20L		
HumaCount eosinophil 5	1L		
HumaCount lyse	1L		
6.2 HumaCount 3 part reagents kit		HC4	V
HumaCount clean	1L		
HumaCount control high	3x2.5ml		
HumaCount controls low	3x2.5ml		
HumaCount controls normal	3x2.5ml		
HumaCount diluent	20L		
HumaCount lyse	1L		
6.3 Sysmex 5 part reagent kit		H	V
Cell clean	1		
Cell pack	20L		
Controls	1		
E-check H (4 tubes)	1		
E-check L (4 tubers)	1		
E-check N (4 tubes)	1		

ITEM DESCRIPTION	UNIT	L	C
Stromatolyzer 4DL	1		
Stromatolyzer 4DS	1		
Sulfolyzer	1		
6.4 Sysmex 3 part reagent kit		HC4	V
Cell clean	1		
Cell pack	20L		
Controls	1		
E-check H	1		
E-check L	1		
E-check N	1		
Sulfolyzer	1		
6.5 BC MINDRAY		HC4	N
Mindray clean	1		
Mindray controls	1		
Mindray diluents	20L		
Mindray lyse	1		
Mindray rinse	1		
6.6 Hema Screen 18		HC4	N
APC hemolyser	2L		
Decotergent	5L		
Detergent solution	5L		
Isotonic solution	20L		
Printer paper	5L		

ITEM DESCRIPTION	UNIT	L	C
6.7 Coulter ACT reagent kit		H	V
AcT 5 diff controls (L,N,H)	6x2.3ml		
AcT 5 diff diluents	20L		
AcT 5 diff fix	1L		
AcT 5 diff HGB lyse	400ml		
AcT 5 diff rinse	1L		
AcT 5 diff WBC lyse	1L		
6.8 NHON KODEN reagent kit		HC4	V
Cleanac (normal)	1		
Cleanac 3 (strong)	1		
Hematology control, H (5DH)	1		
Hematology control, L (5DL)	1		
Hematology control, N (5ND)	1		
Hemolynac 3N	1		
Hemolynac 5N	1		
Isotonac 3 diluent	20L		
6.9 Hematology, ABX		H	N
ABX difftrol twin pack 2 normal x 3ml	1		
ABX difftrol twin pack, 2 high x 3ml	1		
ABX difftrol twin pack, 2 low x 3ml	1		
ABX Pentra 400, amylase CP cassette	125 tests		

ITEM DESCRIPTION	UNIT	L	C
ABX Pentra, alphalyse, 0.4L, horiba ABX 400ml	1		
ABX Pentra, basolyse, horiba ABX, 1L	1L		
ABX Pentra, cleaner, 1L	1L		
ABX Pentra, diluent, horiba ABX, 20L	20L		
ABX Pentra, eosinofix, horiba ABX, 1L	1L		
ABX Pentra, miniclean, 1L	1L		
ABX Pentra, minolyse LMG 1L	1L		
ABX Pentra, minoton, 20L	20L		
ABX Pentra, Minotrol 16 twin pack 2H x 2.5ml	1		
ABX Pentra, minotrol 16 twin pack 2N x 2.5ml	1		
6.10 CELL-DYN 22 (also refer to 9.2)		H	N
CELL-DYN 22, tri-level control	12 x 2.5ml		
CELL-DYN CD1800, 16 tri-level control	12 x 2.5ml		
CELL-DYN CD1800, calibrator,	2 x 2.5ml		
CELL-DYN CD1800, CN-free diff lyse	3.8L		
CELL-DYN CD1800, detergent, 20L	20L		
CELL-DYN CD1800, diluent reagent, 20L	20L		

ITEM DESCRIPTION	UNIT	L	C
CELL-DYN CD1800, isotonic diluent, 20L	20L		
CELL-DYN CD3700 detergent reagent	20L		
CELL-DYN CD3700 sheath reagent, 10L	10L		
CELL-DYN CD3700, CN-free HGB/WIC lyse reagent,	3.8L		
CELL-DYN CD3700, diluent reagent, 20L	20L		
CELL-DYN, aperture plate, RBC 60um	1		
CELL-DYN, aperture plate, WBC 100um,	1		
CELL-DYN, enzymatic cleaner concentrate	2 x 250ml		

7. CHEMISTRY REAGENTS

7.1 Cobas C 111 equipment reagents		HC4	V
Cobas C 111 a-amylase pancrease	400.00	HC4	E
Cobas C 111 alanine aminotransferase/ALT/GPT	400.00	HC4	V
Cobas C 111 alkaline phosphatase	4x100	HC4	E
Cobas C 111 asparat aminotransferase/AST/GOT	400.00	HC4	V
Cobas C 111 bilirubin direct	400.00	HC4	V
Cobas C 111 bilirubin total	400.00	HC4	V
Cobas C 111 cleaning solution	1L	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Cobas C 111 consumable supplies	1	HC4	V
Cobas C 111 control cups, brown	200 tests	HC4	V
Cobas C 111 creatine plus 4x100	400.00	HC4	V
Cobas C 111 electrolyte activator	9 x 12ml	HC4	V
Cobas C 111 g- glutamyltransferase/GGT	400.00	HC4	V
Cobas C 111 glucose HK liquid	4x100 Tests	HC4	V
Cobas C 111 HDL cholestrol	400.00	HC4	E
Cobas C 111 hitachi sample cups,	500 cups	HC4	V
Cobas C 111 ISE chloride electrode	1	HC4	V
Cobas C 111 ISE etcher	1	HC4	V
Cobas C 111 ISE potassium electrode	1	HC4	V
Cobas C 111 ISE reference electrode	1	HC4	V
Cobas C 111 ISE reference solution	1	HC4	V
Cobas C 111 ISE sodium electrode	1	HC4	V
Cobas C 111 lactate	200.00	HC4	E
Cobas C 111 LDL cholestrol	200.00	HC4	E
Cobas C 111 microcuvettes,	1,680.00	HC4	V
Cobas C 111 precinorm U plus	10x3ml	HC4	V
Cobas C 111 precipath U plus	4 x 3ml	HC4	V
Cobas C 111 sample micro cups	500.00	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Cobas C 111 serum albumine	400.00	HC4	E
Cobas C 111 thermal printer paper	5pc	HC4	V
Cobas C 111 total protein	400.00	HC4	V
Cobas C 111 triglyceride	4x50ml	HC4	V
Cobas C 111 UREA	400.00	HC4	E
Cobas C 111 uric acid	400.00	HC4	E
7.2 REAGENT FOR COBAS 311			
7.2.1 Cobas c 311 liver profile test kits			
Cobas C 311 reaction cell sets	3 sets/pack	HC4	V
Cobas C 311 activator	1	HC4	V
Cobas C 311 alanine aminotransferase IFCC (ALTL)	500	HC4	V
Cobas C 311 albumin bromcresol green gen.2 (ALB)	300	HC4	E
Cobas C 311 alkaline phosphatase IFCC gen.2 large (ALP)	400	HC4	V
Cobas C 311 ammonia (NH3L)	150	HC4	N
Cobas C 311 amylase gen.2 (AMYL)	300	HC4	E
Cobas C 311 aspartate aminotransferase IFCC (ASTL)	500	HC4	V
Cobas C 311 bicarbonate (CO2-L)	250	HC4	N
Cobas C 311 bilirubin direkt (BIL-D)	350	HC4	V
Cobas C 311 bilirubin total DPD gen.2 (BIL-T)	250	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Cobas C 311 calcium (CA)	300	HC4	E
Cobas C 311 Cfas	1	HC4	V
Cobas C 311 Cfas CK-MB	1	HC4	V
Cobas C 311 Cfas HbA1c	1	HC4	V
Cobas C 311 Cfas Lipids	1	HC4	V
Cobas C 311 Cfas PUC	1	HC4	V
Cobas C 311 chloride electrode	1	HC4	V
Cobas C 311 cholesterol gen.2 (CHOL)	400	HC4	E
Cobas C 311 cholinesterase dibucain gen.2 (CHED)	150	HC4	N
Cobas C 311 creatine kinase (CKL)	200	HC4	E
Cobas C 311 creatine kinase-MB (CKMBL)	100	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Cobas C 311 creatinine jaffe gen.2 (CREA)	700	HC4	V
Cobas C 311 detergent 1 NaOH-D	2x1.8L	HC4	V
Cobas C 311 detergent 2 acid wash	2x2.0L	HC4	V
Cobas C 311 g-glutamyltransferase gen.2 (GGT)	400	HC4	V
Cobas C 311 glucose HK gen.3 (GLUC3)	800	HC4	V
Cobas C 311 halogen lamp	1	HC4	V
Cobas C 311 HbA1c hemol.reagent WB (c-pack)	1	HC4	V
Cobas C 311 HbA1c hemolyz. reagent (1000 ml)	1000ml	HC4	V
Cobas C 311 HDL cholesterol gen.3 (HDLC3)	200	HC4	E
Cobas C 311 hemoglobin A1c gen.3 (HBA1C)	150	HC4	E
Cobas C 311 iron gen.2 (IRON)	200	HC4	E
Cobas C 311 ISE cleaning solution	1	HC4	V
Cobas C 311 ISE compensator	1	HC4	V
Cobas C 311 ISE diluent gen.2	1	HC4	V
Cobas C 311 ISE internal standard gen.2	1	HC4	V
Cobas C 311 ISE internal standard insert	1	HC4	V
Cobas C 311 ISE reference electrolyte solution	1	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Cobas C 311 ISE standard high	1	HC4	V
Cobas C 311 ISE standard low	1	HC4	V
Cobas C 311 lactate dehydrogenase IFCC (LDHI)	300	HC4	E
Cobas C 311 lactate gen.2 (LACT)	100	HC4	E
Cobas C 311 LDL cholesterol gen.2 (LDLC)	175	HC4	E
Cobas C 311 lipase colorimetric (LIPC)	200	HC4	E
Cobas C 311 magnesium (MG)	175	HC4	E
Cobas C 311 NaCl diluent (c-pack), 9 %	1	HC4	V
Cobas C 311 NaOH-D (c-pack)	1	HC4	V
Cobas C 311 NH3/ETH/CO2 calibrator	1	HC4	V
Cobas C 311 NH3/ETH/CO2 control A	1	HC4	V
Cobas C 311 NH3/ETH/CO2 control N	1	HC4	V
Cobas C 311 phosphor gen.2 (PHOS)	250	HC4	E
Cobas C 311 potassius electrode	1	HC4	V
Cobas C 311 PreciControl ClinChem multi 1	1	HC4	V
Cobas C 311 PreciControl ClinChem multi 2	1	HC4	V
Cobas C 311 PreciControl HbA1c norm	1	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Cobas C 311 PreciControl HbA1c path	1	HC4	V
Cobas C 311 PRECINORM PUC	1	HC4	V
Cobas C 311 PRECIPATH PUC	1	HC4	V
Cobas C 311 reference electrode	1	HC4	V
Cobas C 311 renal function and electrolytes tests	1	HC4	V
Cobas C 311 sample cleaner 1	1	HC4	V
Cobas C 311 SMS (c-pack)	1	HC4	V
Cobas C 311 sodium electrode	1	HC4	V
Cobas C 311 total protein gen.2 (TP)	300	HC4	V
Cobas C 311 total protein gen.2 (TP)	300	HC4	V
Cobas C 311 total protein urine/CSF gen.3 (TPUC)	150	HC4	E
Cobas C 311 total protein urine/CSF gen.3 (TPUC)	150	HC4	V
Cobas C 311 triglycerides (TRIGL)	250	HC4	V
Cobas C 311 UREA	500	HC4	E
Cobas C 311 uric acid gen.2 (UA)	400	HC4	V
Hitergent for Cobas C 311	1	HC4	V
7.3 HUMAN liver function test kit			
HUMAN acid phosphatase	90	HC4	E
HUMAN albumin liquicolor	400	HC4	E
HUMAN alkaline phosphatase	100	HC4	V

ITEM DESCRIPTION	UNIT	L	C
HUMAN alpha amylase	120	HC4	V
HUMAN auto bilirubin direct	375	HC4	V
HUMAN auto bilirubin total	375	HC4	V
HUMAN auto creatinine	250	HC4	V
HUMAN autocal	20	HC4	V
HUMAN bilirubin D + T	200	HC4	V
HUMAN calcium liquicolor	200	HC4	E
HUMAN cholesterol liquicolor	120	HC4	E
HUMAN CK MB	60	HC4	E
HUMAN CK Nac	60	HC4	E
HUMAN creatinine liqui	250	HC4	V
HUMAN gamma GT liquicolor	100	HC4	E
HUMAN glucose liquicolor	400	HC4	V
HUMAN glycohemoglobin HBA1	20	HC4	E
HUMAN GOT/ASAT	100	HC4	V
HUMAN GPT/ALAT	100	HC4	V
HUMAN H junior cuvettes	100	HC4	V
HUMAN H180 and semi cryo vials (like sample cups)	750	HC4	V
HUMAN H180 cuvettes	800	HC4	V
HUMAN H80 reaction wells	600	HC4	V
HUMAN H80 sample cups	1000	HC4	V
HUMAN HDL cholesterol	80	HC4	E
HUMAN humalyte cleaning solution	100	HC4	V
HUMAN humalyte plus reagent pack	1	HC4	V

ITEM DESCRIPTION	UNIT	L	C
HUMAN humatrol N	30	HC4	V
HUMAN humatrol P	30	HC4	V
HUMAN LDH SCE mod. LiquiUV	80	HC4	E
HUMAN LDL cholesterol	80	HC4	E
HUMAN magnesium liquicolor	200	HC4	E
HUMAN paper 3000	5	HC4	V
HUMAN paper 3500	5	HC4	V
HUMAN paper, humacount	5	HC4	V
HUMAN paper, humalyte and 2000	5	HC4	V
HUMAN phosphorus liquicolor	200	HC4	E
HUMAN potassium electrode filling solution	100	HC4	V
HUMAN QC filling solution	100	HC4	V
HUMAN reference filling solution	100	HC4	V
HUMAN serodos	30	HC4	V
HUMAN serodos plus	30	HC4	V
HUMAN sodium conditioner	100	HC4	V
HUMAN sodium/ chloride filling solution	100	HC4	V
HUMAN total protein liquicolor	400	HC4	V
HUMAN triglycerides	400	HC4	V
HUMAN urea liquiUV	400	HC4	V
HUMAN uric acid liquicolor	120	HC4	E

7.4 Reagents for Selectra

Selectra alanine aminotransferase IFCC (ALTL)	125	HC4	E
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ITEM DESCRIPTION	UNIT	L	C
Selectra albumin bromcresol green gen.2 (ALB)	250	HC4	E
Selectra alkaline phosphatase IFCC gen.2 (ALP)	125	HC4	E
Selectra amylase gen.2 (AMYL)	50	HC4	E
Selectra aspartate aminotransferase IFCC (ASTL)	250	HC4	E
Selectra bicarbonate (CO2-L)	1	HC4	E
Selectra bilirubin direkt (BIL-D)	250	HC4	E
Selectra bilirubin total DPD gen.2 (BIL-T)	250	HC4	E
Selectra calcium (CA)	250	HC4	E
Selectra cholesterol gen.2 (CHOL)	600	HC4	E
Selectra cholinesterase dibucain gen.2 (CHED)	48	HC4	E
Selectra creatine kinase (CKL)	100	HC4	E
Selectra creatine kinase-MB (CKMBL)	100	HC4	E
Selectra creatinine jaffe gen.2 (CREA-J)	250	HC4	E
Selectra elical system calibrator	12	HC4	E
Selectra elitrol chemistry controls 1	50	HC4	E
Selectra elitrol chemistry controls 2	50	HC4	E
Selectra g-glutamyltransferase gen.2 (GGT)	125	HC4	E
Selectra glucose HK gen.3 (GLUC3)	250	HC4	E
Selectra HDL cholesterol gen.3	30	HC4	E

ITEM DESCRIPTION	UNIT	L	C
(HDLC3)			
Selectra hemoglobin A1c gen.3 (HBA1C)	50	HC4	E
Selectra iron gen.2 (IRON)	100	HC4	E
Selectra ISE calibrators	30	HC4	E
Selectra ISE cleaner and conditioner	54	HC4	E
Selectra ISE chloride	1	HC4	E
Selectra ISE diluents	800	HC4	V
Selectra ISE potassium	1	HC4	E
Selectra ISE reference solution	500	HC4	E
Selectra ISE sodium	1	HC4	E
Selectra lactate dehydrogenase IFCC (LDHI)	100	HC4	E
Selectra lactate gen.2 (LACT)	100	HC4	E
Selectra LDL cholesterol gen.2 (LDLC)	80	HC4	E
Selectra lipase colorimetric (LIPC)	80	HC4	E
Selectra magnesium (MG)	250	HC4	E
Selectra phosphor gen.2 (PHOS)	250	HC4	E
Selectra reference electrode	1	HC4	E
Selectra sample cups (500ul)	1000	HC4	E
Selectra sytem solution	1000	HC4	E
Selectra total protein gen.2 (TP)	250	HC4	E
Selectra total protein urine/CSF gen.3 (TPUC)	250	HC4	E
Selectra triglycerides (TRIGL)	300	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Selectra urea (UREA)	250	HC4	E
Selectra uric acid gen.2 (UA)	125	HC4	E
7.5 Biochemistry, reflotron reagents			
Reflotron accu-chek softclix pro, lancet,	200 pcs	H	E
Reflotron alkaline phosphatase, ALP	30 tests	H	E
Reflotron amylase	15 tests	H	E
Reflotron bilirubin	30 tests	H	E
Reflotron cholesterol	30 tests	H	E
Reflotron clean and check	15 tests	H	E
Reflotron clinipette tips	100 pcs	H	E
Reflotron clinipette tips	1000 pcs	H	E
Reflotron creatinine	30 tests	H	E
Reflotron GGT	30 tests	H	E
Reflotron glucose	30 tests	H	E
Reflotron GOT (AST)	30 tests	H	E
Reflotron GPT (ALT)	30 tests	H	E
Reflotron HDL cholesterol	30 tests	H	E
Reflotron hemoglobin	30 tests	H	E
Reflotron pancreatic amylase	15 tests	H	E
Reflotron pipet, grey	1	H	E
Reflotron plus pipet I, grey	1	H	E
Reflotron potassium	30 tests	H	E
Reflotron precinorm HB	4x2ml	H	E
Reflotron precinorm HDL	4x2ml	H	E

ITEM DESCRIPTION	UNIT	L	C
Reflotron precinorm U	4x2ml	H	E
Reflotron precipath U	4x2ml	H	E
Reflotron printer paper	1	H	E
Reflotron printer paper roll	1	H	E
Reflotron ribbon, each	1	H	E
Reflotron triglycerides	30 tests	H	E
Reflotron urea	15 tests	H	E
Reflotron uric acid	30 tests	H	E

8. HISTOLOGY AND CYTOLOGY

Aluminium chloride (anhydrous)	1L	RR	E
Aluminium hydroxide	1L	RR	E
Bismarck brown Y	1L	RR	E
Carmine	1L	RR	E
Chloroform	1L	RR	E
Coverslips, 22x36mm	1L	RR	E
DPX mountant	1L	RR	E
Eosin azure (EA)	1L	RR	E
Eosin-Y	1L	RR	E
Ethanol (rectified spirit)	1L	RR	E
Ether	1L	RR	E
Formaldehyde (formalin) solution 40%	1L	RR	E
Hematoxylin	1L	RR	E
Isopropanol, 99.7%	1L	RR	E
Light green SF (fast green FCF)	1L	RR	E
Massons trichrome	1L	RR	E

ITEM DESCRIPTION	UNIT	L	C
Mercuric oxide, red	1L	RR	E
Microtome blades	1L	RR	E
Mollifex	1L	RR	E
Moulds	1L	RR	E
Orange G6 (5, 8)	1L	RR	E
Orcein	1L	RR	E

ITEM DESCRIPTION	UNIT	L	C
Paraffin wax pastillated congealing point about 60%	1L	RR	E
Periodic acid-schiff	1L	RR	E
Silver stain	1L	RR	E
Single frosted slides	100	RR	E
Tissue cassettes	1L	RR	E
Toluidine	1L	RR	E
Weigert-s	1L	RR	E
Xylene	1L	RR	E
Xylene, sulphur free	1L	RR	E

9. BLOOD TRANSFUSION SERVICES

9.1 Blood grouping antisera and collection

Adhesive plaster	1	HC4	N
Anti human globulin serum	5ml	HC3	V
Anti serum A	10ml	HC3	V
Anti serum AB	10ml	HC3	V
Anti serum B	10ml	HC3	V
Anti serum D (IgM+IgG)	10ml	HC3	V
Blood bag, triple optipac with adsol and transfer bag, 450ml, each	1	HC4	V
Blood collecting bag, single	450ml	BB	V
Blood collecting bags, quadruple	450ml	BB	V
Blood collection set, 25G x 0.75in needle x 7in tubing blood collection and infusion set with luer adapter	200pcs	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Blood collection set, blood transfusion set with 18G 1.5in needle	1	HC4	V
Blood collection set, penta, pediatric, with CPDA-1 anticoagulant, each	1	HC4	V
Blood collection set, quadruple, pediatric, 75ml each for fresh blood, red cell and fresh frozen plasma, spike protection, access on each aliquot, teruma	1	HC4	V
Blood collection set, quadruple, transfer sets for ALIQUOT, 150ml	40 sets	HC4	V
Blood collection set, quadruple, with CPDA-1 anticoagulant, 450ml	24 sets	HC4	V
Blood collection set, single with CPDA-1 anticoagulant	1	HC4	V
Blood collection set, transfer blood sets, teruflex, 150ml	100 sets	HC4	V
Blood collection set, transfer blood sets, teruflex, 300ml	100 sets	HC4	V
Blood collection set, triple with CPDA-1 anticoagulant, 450ml	28 sets	HC4	V
Blood collection set, triple, CPD/SAGM, JSM	1	HC4	V
Blood collection set, winged safety push button, 23G x 0.75in, w/7in tumbling and inner adapter	50pcs	HC3	V
Blood giving sets	1	HC4	V
Blood labels	1	BB	V

ITEM DESCRIPTION	UNIT	L	C
Capillary tubes, heparinized 7.5mm long, 1.5–1.6mm	100	BB	V
Chemiluminescent micro-particle HIV immunoassay (CMIA), HIV screening kit	Kit	BB	V
CMIA, HBsAg screening kit	Kit	BB	V
CMIS, hepatitis C screening kit	1	BB	V
Copper sulphate, analar	500g	BB	V
Disposal aprons, soft material, white, polyethylene, size: 800x 1250mm	1	HC4	N
ELISA, Ag/Ab microplate	1	BB	V
ELISA, HBsAg microplate, V3	1	BB	V
ELISA, HCV screening tests, microplate	1	BB	V
Eppendorf tubes	1	BB	E
Hepatitis B surface antigen strips	100	H	V
Hepatitis C antigen strips	100	BB	V
Hydrochloric acid (concentrated)	2.5L	BB	E
Masking tape	1	HC4	N
Micro plates, U bottom, 96 wells, not sterile	1	BB	V
Micro plates, V bottom, 96 wells, not sterile	1	BB	V
Multichannel pipettes, channels 8	20–300µl	RR	V
Pipette stand	1	RR	V
Single channel pipettes, channel 1	20–300µl	RR	V
Sulphuric acid (concentrated)	2.5L	BB	V

ITEM DESCRIPTION	UNIT	L	C
Test tubes, 12x75mm, 3ml	100	HC4	V
Transfusion cards	1	BB	V
Trisodium citrate	500mg	BB	E
Waste bins	1	BB	E

9.2 Hematology, CELL-DYN 22 (also refer to 6.10)

Hematop plus for hycel celly	20L	H	N
Sysmex cell cleaner	50ml	H	E
Sysmex cellpack, 20L	20L	H	N
Sysmex control E-check high	8x4.5ml	H	N
Sysmex control E-check low	8x4.5ml	H	N
Sysmex control E-check normal	8x4.5ml	H	N
Sysmex eightcheck-H, 1.5ml	1 vial	H	N
Sysmex eightcheck-H, 1.5ml	12 vials	H	N
Sysmex eightcheck-L, 1.5ml	1 vial	H	N
Sysmex eightcheck-L, 1.5ml	12 vials	H	E
Sysmex eightcheck-N, 1.5ml	12 vials	H	N
Sysmex eightcheck-N, 1.5ml	1 vial	H	N
Sysmex KX-21N, automated hematology analyzer	1	H	N
Sysmex PocH, diluent,	2x2L	H	N
Sysmex PocH, lysing reagent	2x250ml	H	N
Sysmex PocH-65	65 cycles	H	N

ITEM DESCRIPTION	UNIT	L	C
Sysmex ret-search II diluent (1L) and dye (12ml)	1	H	N
Sysmex stromatolyser 4DL	5L	H	N
Sysmex stromatolyser 4DS	3x42ml	H	N
Sysmex stromatolyser FB	5L	H	N
Sysmex stromatolyser SWH	3x500ml	H	N
Sysmex sulfolyser	3x500ml	H	N
Sysmex sulfolyser	5L	H	N
Sysmex thermal printer paper TP2	50 rolls	H	N

10. BLOOD COLLECTION SUPPLIES

10.1 Dried blood sampling (DBS) collection supplies

DBS 903 collection kit	Kits	H	V
DBS 903, bundle for 50 tests	Tests	H	V
DBS 903, protein saver card, 5x1.5in spots per card	100 pieces	H	V
DBS 903, rack, drying with velcro, for collection card drying, horizontal	10 pieces	H	V
DBS 903, rack, drying without velcro, for collection card drying	10 pieces	H	V
DBS 903, rack, drying, for dried blood spot cards	10 pieces	H	V

11. GLASS WARE AND APPARATUS

ITEM DESCRIPTION	UNIT	L	C
Bag holder, biohazard, for 20cm bags	1	HC4	V
Bag, biohazard, 19x23in, autoclave, orange	200 pieces	HC4	V
Bag, biohazard, 19x23in, autoclave, red, printed	200 pieces	HC4	V
Bag, biohazard, 24x30in, autoclave, clear, 2mil	200 pieces	HC4	V
Bag, biohazard, 24x30in, autoclave, clear, printed, 2mil	200 pieces	HC4	V
Bag, biohazard, 24x36in, autoclave, clear, printed, 1.5mil	200 pieces	HC4	V
Bag, biohazard, 37x48in, autoclave, clear, printed, 2mil	100 pieces	HC4	V
Bag, biohazard, 37x48in, autoclave, red, printed, 2mil	100 pieces	HC4	V
Bag, biohazard, 8.5x11in, orange, no-indicator	1000 pieces	HC4	V
Bag, biohazard, 8x12in, autoclave, red, printed, 1.5mil	100 pieces	HC4	V
Bag, biohazard, autoclave, 8.5x11in	100 pieces	HC4	V
Bag, biohazard, zipper close, 8x10in	1000 pieces	HC4	V
Bag, garbage, black, 50L	10 pieces	HC4	E
Bag, garbage, red, 50L	10 pieces	HC4	E
Bag, specimen, 6x6in, bitran long term storage with odor control	1000 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Bag, specimen, 7x8in, bitran long term storage	250 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Bag, specimen, multipurpose, 8.3x8.3cm	100 pieces	HC4	E
Bag, zipper close, 10x15cm	100 pieces	HC4	E
Bag, zipper close, 3x5in x 2ml	1000 pieces	HC4	E
Bag, zipper close, 6x6.5in	500 pieces	HC4	E
Bag, zipper close, 6x9in, 2ml	100 pieces	HC4	E
Bag, zipper close, write-on strip, 6x9in x 2ml	1000 pieces	HC4	E
Bag, zipper close, write-on strip, 6x9in x 4ml	1000 pieces	HC4	E
Bandage, adhesive fabric, w23x165mm	180 pieces	HC4	N
Bandage, band-aid spots	100 pieces	HC4	N
Beaker, graduated, glass, 250ml, 70x95mm	10 pieces	HC4	N
Beaker, graduated, polypropylene, 1000ml	5 pieces	HC4	N
Beaker, graduated, polypropylene, 250ml	10 pieces	HC4	N
Beaker, graduated, simax low form with spout, 1000ml	10 pieces	HC4	N
Beaker, graduated, simax low form with spout, 100ml	10 pieces	HC4	N
Beaker, graduated, simax low form with spout, 150ml	10 pieces	HC4	N
Beaker, graduated, simax low form with spout, 400ml	10 pieces	HC4	N

ITEM DESCRIPTION	UNIT	L	C
Beaker, graduated, simax low form with spout, 500ml	10 pieces	HC4	E
Beaker, graduated, simax low form with spout, 50ml	10 pieces	HC4	N
Beaker, graduated, simax low form with spout, 600ml	10 pieces	HC4	N
Beaker, graduated, with spout, 250ml	10 pieces	HC4	N
Beaker, graduated, with spout, 800ml	10 pieces	HC4	N
Bench cover, absorbent with plastic backing, 49cmx50m	1 roll	HC4	N
Bench cover, surface protector paper, disposable	18 in 50 pieces	HC4	N
Bench protector, bench guard	1	HC3	E
Blood culture bottle	1	H	N
Bottle	1L	HC3	N
Bottle	125ml	HC3	N
Bottle	250ml	HC3	N
Bottle	500ml	HC3	N
Bottle top dispenser	1	H	N
Bottle top dispenser	1-5ml	HC4	N
Bottle, glass, amber, with screw polyvinyl cap, 500ml	12 pieces	HC4	N
Bottle, round, glass, graduated, 1L	10 pieces	HC3	N

ITEM DESCRIPTION	UNIT	L	C
Bottle, round, glass, graduated, 500ml	10 pieces	HC3	N
Bottle, screw cap	250ml	HC3	E
Bottle, screw cap	500ml	HC3	N
Bottle, screw cap, glass	100ml	HC3	N
Bottle, screw cap, glass	1000ml	HC3	N
Bottle, screw cap, glass	200ml	HC3	N
Bottle, wash, 1000ml, trigger spray mist, double-headed, side fill opening, polyethylene/stainless steel	1	H	E
Bottle, wash, 250ml, blue	6 pieces	HC4	E
Bottle, wash, 250ml, red	6 pieces	HC4	E
Bottle, wash, 250ml, yellow	6 pieces	HC4	E
Bottle, wash, 500ml, blue	6 pieces	HC4	E
Bottle, wash, 500ml, clear	6 pieces	HC4	E
Bottle, wash, 500ml, green	6 pieces	HC4	E
Bottle, wash, 500ml, pump spray mist, low density polyethylene, 500ml	72 pieces	HC4	E
Bottle, wash, 500ml, red	6 pieces	HC4	N
Bottle, wash, 500ml, yellow	6 pieces	HC4	N
Bottle, wide mouth, 30ml	1000 pieces	HC4	E
Box, cryogenic storage	1	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Box, cryogenic storage (cryobox), 10x10, 1.0/1.5	10 Pieces	HC3	E
Box, cryogenic storage (cryobox), 81 count, for 1-2ml ampules	24 pieces	HC3	E
Bucket, round mop bucket	1	HC4	E
Bunsen burner for natural gas	1	HC4	E
Bunsen burner, alcohol burner, 100ml	6 pieces	HC3	E
Bunsen burner, tripod for bunsen burners, s/steel, 125x210mm high	1	HC4	E
Centrifuge tubes, 15ml, conical, polypropylene, sterile	500 pieces	HC3	E
Centrifuge tubes, 2ml, conical, glass	12 pieces	HC3	E
Centrifuge tubes, 40ml, conical, glass	12 pieces	HC4	E
Centrifuge tubes, 50ml, conical, polypropylene, sterile	500 pieces	HC4	E
Centrifuge tubes, 5ml, conical, glass	12 pieces	HC4	E
Centrifuge ventilation equipment	1	HC4	E
Centrifuge, parts and accessories	1	HC3	E
Centrifuge, round bottom tube, 5ml, sterile, polystyrene, snap cap	1000 pieces	HC4	E
Centrifuge, tube, 12x75mm, no cap, non-sterile	1000 pieces	HC3	E
Cotton, wool, absorbent, 500g	1	HC3	V

ITEM DESCRIPTION	UNIT	L	C
Coverslip, hemacytometer	12 pieces	HC3	V
Coverslips microscopy plastic 22x22mm	1000 pieces	HC3	V
Crucible, 75ml, 56x41mm ODxh, 280C, PTFE	5 pieces	HC3	N
Culture tube, 12x75mm	1000 pieces	H	E
Culture tube, 13x100mm	250 pieces	H	E
Culture tube, 20ml, 16x150 with screw cap	50 pieces	H	E
Cylinder, calibrated	100ml	HC4	N
Cylinder, calibrated	250ml	HC4	N
Cylinder, graduated, glass, class B, 100ml, 1ml grads	2 pieces	HC4	E
Cylinder, graduated, glass, class B, 250ml, 2ml grads	2 pieces	HC4	E
Cylinder, graduated, pharmaceutical PMP	1000ml	HC4	N
Cylinder, graduated, polypropylene	1000ml	HC4	N
Cylinder, graduated, polypropylene	100ml	HC4	N
Cylinder, graduated, polypropylene	2000ml	HC4	N
Cylinder, graduated, polypropylene	250ml	HC4	N
Cylinder, graduated, polypropylene	500ml	HC4	N
Cylinder, graduated, polypropylene	50ml	HC4	N
Cylinder, measuring	1L	HC4	N
Cylinder, measuring	10L	HC4	N

ITEM DESCRIPTION	UNIT	L	C
Cylinder, measuring	100L	HC4	E
Cylinder, measuring	25ml	HC4	N
Cylinder, measuring	250ml	HC4	N
Cylinder, measuring	50ml	HC4	N
Cylinder, measuring	500ml	HC4	N
Cylinder, measuring with draining base, 1000ml squat form, PP	1	HC4	N
Cylinder, measuring with draining base, 100ml squat form, PP	5 pieces	HC4	N
Cylinder, measuring with draining base, 250ml squat form, PP	1	HC4	N
Cylinder, measuring, 100ml, 20ml grads, PFA, -196C to +260C	1	HC4	N
Cylinder, measuring, 10ml, 2ml grads, PFA, -196C to +260C	1	HC4	N
Cylinder, measuring, 200ml, 40ml grads, PFA, -196C to +260C	1	HC4	N
Cylinder, measuring, 300ml, 50ml grads, PFA, -196C to +260C	1	HC4	N
Cylinder, measuring, 30ml, 5ml grads, PFA, -196C to +260C	1	HC4	N
Cylinder, measuring, 50ml, graduated, PFA, -196C to +260C	1	HC4	N
Disinfectant sprayer	1	HC3	N
Dropping bottle, 30ml	6 pieces	HC4	N
Dropping bottle, 60ml (2oz)	1	HC4	N

ITEM DESCRIPTION	UNIT	L	C
Eye wash bottles	1	HC3	E
Face shield, safety	1	HC4	E
Face shield, safety, biohazard splash visor	24 pieces	HC4	E
Filter paper, cellulose fiber papers, 18.5cm	100 pieces	HC3	E
Filter paper, grade 113 circles, 185mm	100 pieces	HC4	V
Filter paper, medium coarse, 15cm	100 pieces	HC3	V
Filter paper, round, large	100 pieces	HC3	V
Filter paper, round, medium	100 pieces	HC3	V
Filter paper, round, small	100 pieces	HC3	E
Fire blanket	1	HC3	N
First aid kit	1	HC3	E
First aid kit, 36 units/kit, fisher safety	1	HC3	E
Flask, erlenmeyer, glass, narrow neck, 1L	10 pieces	HC3	E
Flask, erlenmeyer, glass, narrow neck, 5L	1	HC3	E
Flask, erlenmeyer, plastic, 1L	2 pieces	HC3	N
Flask, erlenmeyer, pyrex, narrow neck, 100ml	10 pieces	HC3	N
Flask, erlenmeyer, pyrex, narrow neck, 250ml	10 pieces	HC3	N
Flask, erlenmeyer, pyrex, narrow neck, 25ml	10 pieces	HC3	N

ITEM DESCRIPTION	UNIT	L	C
Flask, erlenmeyer, pyrex, narrow neck, 500ml	10 pieces	HC3	N
Flask, erlenmeyer, pyrex, narrow neck, 50ml	10 pieces	HC3	N
Flask, pyrex, narrow neck, 1L	2 pieces	HC3	N
Forceps, dissecting, stainless-steel, 7in	1	HC3	N
Forceps, dressing forceps, straight, 18cm	1	HC3	N
Forceps, foerster swab holding forceps, narrow, 25cm	1	HC3	N
Forceps, kelly, curved, serrated tip, 5.5in	1	HC3	N
Forceps, kevorkian cervical biopsy, angled, 24cm, 3x9.7mm	1	HC3	N
Forceps, mosquito, 6in	1	HC3	N
Forceps, schroeder tenaculum, single tooth, straight, 23cm	1	HC3	N
Forceps, stainless steel, straight, smooth jaws, 200mm	1	HC3	N
Forceps, townsend mini punch (baby tischler) forceps 2.3x4.2mm	1	HC3	N
Forceps, wittner biopsy, curved, 23cm, jaw 4x8mm	1	HC3	E
Gauze sponge, 4-ply cotton, 4x4in	2000 pieces	HC3	E
Gauze, 12 ply	100 pieces	HC3	E

ITEM DESCRIPTION	UNIT	L	C
Gauze, conforming dress, 3x5in (7.6x12.7cm)	1	HC3	E
Gauze, cotton sponges/swabs, non-sterile, 20x17cm, 4ply	100 pieces	HC3	E
Gauze, sterile, 4x4in	50 pieces	HC3	E
Gauze, wire gauze 125mm square with 85mm dia ceramic center	10 pieces	HC3	E
Gloves, examination, latex, powdered, non-sterile, large	100 pieces	HC3	V
Gloves, examination, latex, powdered, non-sterile, medium	100 pieces	HC3	V
Gloves, examination, latex, powdered, non-sterile, small	100 pieces	HC3	V
Gloves, Examination, latex, powder-free, non-sterile, large	100 pieces	HC3	V
Gloves, examination, latex, powder-free, non-sterile, medium	100 pieces	HC3	V
Gloves, examination, latex, powder-free, non-sterile, small	100 pieces	HC3	V
Gloves, examination, nitrile, powder-free, non-sterile, large	100 pieces	HC3	E
Gloves, examination, nitrile, powder-free, non-sterile, medium	100 pieces	HC3	E
Gloves, examination, nitrile, powder-free, non-sterile, small	100 pieces	HC3	E
Gloves, examination, nitrile, powder-free, non-sterile, X-large	100 pieces	HC3	E
Gloves, sterile surgeon, latex, powdered, size 6.5	50 pair	HC3	E

ITEM DESCRIPTION	UNIT	L	C
Gloves, sterile surgeon, latex, powdered, size 7.5	50 pair	HC3	E
Gloves, sterile surgeon, latex, powdered, size 8.5	50 pair	HC3	E
Hemocytometer cover slips, brightline	1	HC3	V
Labels (biohazard, hazardous substance, hazard warning)	50	HC3	E
Lysol	1	HC3	E
Microscope slide cover slip, 22x22mm	100 pieces	HC3	V
Microscope slide storage system	1	HC3	E
Microscope slides, 25x75mm, frosted end	144 pieces	HC3	V
Microscope slides, 25x75mm, plain glass	144 pieces	HC3	V
Microscope, micromaster II, eye piece, 10x din	1	HC3	V
Microscope, micromaster II, monocular microscope, 4X, 10X, 40X, 100X, oil immersion	1	HC3	E
Microscope, micromaster II, replacement bulb, 6V/20W	1	HC3	E
Microscope, micromaster II, filter, blue	1	HC3	E
Microscope, micromaster II, fuse, 250V/500ma	1	HC3	E

ITEM DESCRIPTION	UNIT	L	C
Microscope, binocular microscope, objectives 4X, 10X, 40X, 100X, oil immersion	1	HC3	V
Pad, bench, absorbent with plastic backing, 17x24in	50 pieces	RR	E
Pad, bench, absorbent, plastic backing, 20x24in	250 pieces	RR	E
Pan, polyethylene, high-density, 21-3/8L x 17-1/8W x 5-1/8 inH, 15qt	6 pans	RR	E
PCR plate, 96 well, ABgene Thermo-Fast, unskirted, low-profile,	25 pieces	RR	E
PCR Plate, 96 Well, Fisherbrand, nonskirted, thin wall, natural	25 pieces	RR	E
PCR tubes, eppendorf, 8x0.2ml tube strip with cover, 120 strips	960 pieces	RR	E
PCR tubes, flat caps, 0.2L, 10x1000	1	RR	E
PCR tubes, flat caps, 0.5ml, 10x1000	1	RR	E
PCR work station, laminar flow with UV and lighting lamps	1	RR	E
PCR, 8-well, tube strips with individually attached bubble caps,	120 pieces	RR	E
PCR, 8-well, tube strips without caps, 0.2ml	125 pieces	RR	E
PCR, plate caps, 8-strip domed	250 strips	RR	E

ITEM DESCRIPTION	UNIT	L	C
pH electrode, refill, single junction, glass body, BNC	1	HC4	E
pH tester, oakton, waterproof, pH to +/- 0.01pH, temps from 0°C to 50°C	1	HC4	E
Pipet filler, dropper bulb for pipets, 2 valves, red	1	HC4	E
Pipet stand, holds 6 single channel pipettors	1	HC4	E
Pipet tips, 100-1000ul, sterile	1	HC4	E
Pipet tips, ART barrier, filter, 1000ul	1	HC4	E
Pipet tips, ART barrier, filter, 100ul	1	HC4	E
Pipet tips, ART barrier, filter, 10ul	1	HC4	E
Pipet tips, ART barrier, filter, 20 ul	1	HC4	E
Pipet tips, ART self-sealing advantage low-retention barrier tips, 1000ul	768 pieces	HC4	E
Pipet tips, ART self-sealing advantage low-retention barrier tips, 200ul	960 pieces	HC4	E
Pipet tips, barrier tips, 0.2-10ul for P2/P10 micropipets, autoclaveable	960 pieces	HC4	E
Pipet tips, fefill tray, PCR clean, 0.5-20ul	1	RR	E
Pipet tips, filter, -1000ul	1	HC4	V
Pipet tips, filter, -1000ul	1	HC4	V

ITEM DESCRIPTION	UNIT	L	C
Pipet tips, filter, -10ul	1	HC4	V
Pipet tips, filter, -200ul	1	HC4	V
Pipet tips, filter, -20ul	1	HC4	V
Pipet tips, finn tip, 100-1000ul, sterile, 10x96 rack	960 pieces	HC4	E
Pipet tips, rack, filter, 2-20ml	960 pieces	HC4	E
Pipet tips, rack, filter, PCR clean, 2-200ul	1	RR	E
Pipet tips, rack, filter, PCR clean, 50-1000ul	1	RR	E
Pipet tips, refill tray, PCR clean, 2-200ul	1	RR	E
Pipet tips, refill tray, PCR clean, 50-1000ul	1	RR	E
Pipet Tips, yellow, 100ul	1000 pieces	HC4	V
Pipet tips, yellow, 200ul	1000 pieces	HC4	V
Pipet tips, yellow, nonfilter, 20-200ml	1000 pieces	HC4	E
Pipet, 1 channel, eppendorf research pro, electronic, 0.5-10ul, without charging unit	1	HC4	E
Pipet, 1 channel, eppendorf research, ultra micro, 0.1 to 2.5ul	1	HC4	E
Pipet, 1 channel, eppendorf research, ultra micro, 0.5-10ul	1	HC4	E
Pipet, 1 channel, eppendorf	1	HC4	E

ITEM DESCRIPTION	UNIT	L	C
research, ultra micro, 2-20ul			
Pipet, 1 channel, finnpipet, adjustable volume, digital display, 20-200ul	1	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Pipet, 1 channel, finnpipet, adjustable volume, digital display, blue thumb knob, polyamide and nylon handle, 100-1000ul	1	HC4	E
Pipet, 1 channel, micro, digital, autoclaveable, 20-200ul	1	HC4	E
Pipet, 1 channel, sealpette, fixed volume, 1000ul	1	HC4	E
Pipet, 1 channel, sealpette, fixed volume, 200ul	1	HC4	E
Pipet, 1 channel, variable volume, 0.1-2.5µl	1	HC4	E
Pipet, 1 channel, variable volume, 0.5-10µl	1	HC4	E
Pipet, 1 channel, variable volume, 100-1000µl	1	HC4	E
Pipet, 1 channel, variable volume, 1-5ml	1	HC4	E
Pipet, 1 channel, variable volume, 20-200µl	1	HC4	E
Pipet, 1 channel, variable volume, 2-20µl	1	HC4	E
Pipet, 1 channel, variable volume, 5-50µl	1	HC4	E
Pipet, 12 channel, eppendorf, 0.5-10µl range, 0.01µl inc	1	HC4	E
Pipet, 12 channel, eppendorf, 10-100µl range, 0.01µl inc	1	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Pipet, 12 channel, eppendorf, 30-300µl range, 0.2µl inc	1	HC4	E
Pipet, 12 channel, sealpette, 50-300ul, micro	1	HC4	E
Pipet, 8 channel, eppendorf research pro, electronic, 0.5-10ul, without charging unit	1	HC4	E
Pipet, 8 channel, eppendorf research pro, electronic, 50-1200ul, without charging unit	1	HC4	E
Pipet, 8 channel, eppendorf research pro, electronic, 5-100ul, without charging unit	1	HC4	E
Pipet, 8 channel, eppendorf, 10-100µl range, 0.1µl inc	1	HC4	E
Pipet, 8 channel, eppendorf, 30-300µl range, 0.2µl inc	1	HC4	E
Pipet, 8 channel, micro, finnpipet, digital, 5-300ul	1	HC4	E
Pipet, basin, nonsterile (NS), PVC, 50ml	100 pieces	HC4	E
Pipet, controller, cordless, 1-100ml	1	HC4	E
Pipet, dropper bulb for pasteur pipets, 3ml	24 pieces	HC4	E
Pipet, dropper bulb for pasteur pipets, natural blue rubber, 1ml	24 pieces	HC4	E
Pipet, eppendorf, repeater plus	1	HC4	E
Pipet, glass, graduated, 10ml, 10x1	12 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Pipet, glass, graduated, 1ml	1	HC4	E
Pipet, glass, graduated, 25ml, type 1, class B	5 pieces	HC4	E
Pipet, glass, graduated, 2ml	1	HC4	E
Pipet, micro, wheaton acura, 200-1000ul	1	HC4	E
Pipet, pipetBOY comfort, Argos Technologies	1	HC4	E
Pipet, portable pipet aid, single speed, rechargeable, 110V	1	HC4	E
Pipet, pump, filler-dispenser, science ware, 10ml, green, without pipets	1	HC4	E
Pipet, serological, 10ml by 1/10ml	500 pieces	HC4	E
Pipet, serological, 10ml, disposable, polystyrene	200 pieces	HC4	E
Pipet, serological, 25ml, disposable, polystyrene, fisherbrand	200 pieces	HC4	E
Pipet, serological, 2ml by 1/100ml	1000 pieces	HC4	E
Pipet, serological, 5ml by 1/100ml	1000 pieces	HC4	E
Pipet, serological, 5ml by 1/10ml	200 pieces	HC4	E
Pipet, serological, 5ml, disposable, polystyrene, sterile, plugged	200 pieces	HC4	E
Pipet, serological, disposable, sterile, 25m	200 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Pipet, serological, sterile, plugged, 10ml, individually wrapped	200 pieces	HC4	E
Pipet, transfer, 7.7ml, graduated, sterile	100 pieces	HC4	E
Pipet, transfer, pasteur, fine tip, sterilized, 5ml	500 pieces	HC4	E
Pipet, transfer, pasteur, plastic, non-sterilized, 3ml	500 pieces	HC4	E
Pipet-aid, repeating, programmable, rechargeable,	1	HC4	E
Pipettor, 1 channel, eppendorf, fixed volume, 1000ul	1	HC4	E
Pipettor, 1 channel, eppendorf, fixed volume, 200ul	1	HC4	E
Pipettor, 1 channel, eppendorf, fixed volume, 20ul	1	HC4	E
Potassium phosphate, monobasic, molecular biology grade	1	HC4	E
Prep pad, alcohol prep	100 pads	HC4	E
Prep pad, alcohol prep	200 pads	HC4	E
Prep pad, alcohol prep	4,000 pads	HC4	E
Prep swab, alcohol	200 swabs	HC4	V
Prep swab, alcohol	4,000 swabs	HC4	E
Prep swab, cotton tip applicator, 6in	1000 pieces	HC4	E
PYR disc with reagent,	50 pieces	RR	E

ITEM DESCRIPTION	UNIT	L	C
Rack, 12x10mm cells/cuvettes horizontal or vertical, PE	5 racks	HC4	E
Rack, centrifuge, 50ml, 16 place	1	HC4	E
Rack, for 250ul pipet tips, green	10 pieces	HC4	E
Rack, for staining jar	10 racks	HC4	V
Rack, microcentrifuge tube, 8x12 format	5 racks	HC4	E
Rack, pipet tip, empty, 1000ul	10 racks	HC4	E
Rack, pipet tip, empty, 200-300ul	10 racks	HC4	E
Rack, pipet tip, for 1000ul tips	8 racks	HC4	E
Rack, pipet tip, for 20ul tips, red	10 racks	HC4	E
Rack, test tube, 13mm, nalgene unwire, 72 place, blue	8 racks	HC4	E
Rack, test tube, 16mm, 32 place	6 pieces	HC4	E
Rack, test tube, 16mm, 48 place, zinc-plated with legs	12 pieces	HC4	E
Rack, test tube, 16mm, 72 place	12 pieces	HC4	E
Rack, test tube, 16mm, 72 place, nalgene unwire, white	1	HC4	E
Rack, test tube, 20mm, 40 place, nalgene unwire, white	1	HC4	E
Rack, test tube, 25mm, 16 place, nalgene unwire, acl, white	1	HC4	E
Rack, test tube, 25mm, 40 place, zinc plated with legs	12 pieces	HC4	E
Rack, test tube, autoclavable	1	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Rack, test tube, for tube sizes 0.5 to 50ml, interlocking four-way tube racks	5 pieces	HC4	E
Rack, test tube, microtube, 96-place, assort	5 pieces	HC4	E
Racks, laboratory	1	HC4	E
Rubber bulb, for pipets and syringes, 10ml	1	HC4	E
Rubber bulb, for pipets and syringes, 15ml	1	HC4	E
Rubber bulb, for pipets and syringes, 35ml	1	HC4	E
Safety cabinet, laboratory	1	HC4	E
Safety glasses	1	HC4	E
Safety glasses, eyeshield, anti-scratch/fog	1	HC4	E
Safety goggles	50 goggles	HC4	E
Sodium hypochlorite laboratory disinfectant	5litres	HC3	V
Spill kit	1	HC3	N
Swabs, applicators	1	HC4	V
Thermometer, freezer (0-25°C)	1	HC4	V
Thermometer, freezer guide, -40 to +80°F	1	HC4	V
Thermometer, incubator	1	HC4	E
Thermometer, incubator, +10°C to 45°C	5 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Thermometer, laboratory	1	HC4	E
Thermometer, universal angle thermometer, bi 3 in. /4 in., 0/25of -10/120°C	1	HC4	E
Tube rack, lavender, for 96 1.5ml or 2.0ml tubes	5 pieces	HC4	E
Tube rocker, vari-mix, 16x10 to 20mm, 7x22 to 30mm	1	HC4	E
Tube sealer, mobile	1	HC4	E
Tube, cryovial, self standing, silicone washer, internal thread	500 pieces	HC4	E
Tube, microcentrifuge, 1.5ml, color-natural, TUB BIOCERT	500 pieces	HC4	E
Tube, microcentrifuge, 1.5ml, free-standing, screw cap, separate cap	500 pieces	HC4	E
Tubes, capillary, heparinised, 75mm	1000 pieces	HC4	E
Tubes, capillary, microhematocrit, with heparin, 75 mm	100 pieces	HC4	N
Tubes, capillary, plain, 75mm	1000 pieces	HC4	N
Tubes, capillary, with heparin, 75mm	2400 pieces	HC4	N
Vacurette standard holder	10 pieces	HC4	N
Vacurette, standard holder for 13mm + 16mm diameter	1000 pieces	HC4	E
Vacurette, tube, glucose, 4ml, gray, pull cap	1200 pieces	HC4	N

ITEM DESCRIPTION	UNIT	L	C
Vacurette, tube, K2 EDTA, 4ml, lavender	1200 pieces	HC4	N
Vacurette, tube, K2 EDTA, ring, 4ml, lavender	100 pieces	HC4	N
Vacurette, tube, K3 EDTA, 6ml, white	1200 pieces	HC4	N
Vacurette, tube, serum, 4ml, safety skirted cap	1200 pieces	HC4	E
Vacurette, tube, serum, 6ml, clot activator ring, red	100 pieces	HC4	E
Vacurette, tube, serum, 9ml, nr gold gold, sst-serum/ge	50 pieces	HC4	E
Vacutainer holder, adult, 13-16mm tubes, single use	1000 pieces	HC4	E
Vacutainer needle, multi-sample, 21g x 1.5in, thin wall, (CE mark)	1000 pieces	HC4	E
Vacutainer needle, multi-sample, 21g x 1.5in, thin wall, green	1000 pieces	HC4	E
Vacutainer tube, ACD sol B - trisodium citrate, 6ml, glass, yellow top	1000 pieces	HC4	E
Vacutainer tube, fluoride 5.0mg-oxalate 4.0mg, 4ml, plastic, light gray top	1000 pieces	HC4	V
Vacutainer tube, K2-EDTA, 2ml, plastic, lavender	100 pieces	HC4	E
Vacutainer tube, K2-EDTA, 4ml, plastic, lavender top	100 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Vacutainer tube, K2-EDTA, 4ml, plastic, lavender top, (CE mark)	100 pieces	HC4	E
Vacutainer tube, K2-EDTA, 6ml, plastic, lavender top, (CE mark)	1000 pieces	HC4	V
Vacutainer tube, K3-EDTA, 3ml, plastic, lavender top	100 pieces	HC4	E
Vacutainer tube, K3-EDTA, 7ml, glass, lavender top	1000 pieces	HC4	E
Vacutainer tube, lithium heparin, 4ml, plastic, green top	1000 pieces	HC4	E
Vacutainer tube, lithium heparin, 6ml, plastic, green top	1000 pieces	HC4	E
Vacutainer tube, microtainer, K2-EDTA, plastic	200 pieces	HC4	E
Vacutainer tube, microtainer, K2-EDTA, plastic, (CE mark)	200 pieces	HC4	E
Vacutainer tube, microtainer, serum, (no additive), red top, (CE mark)	200 pieces	HC4	E
Vacutainer tube, PPT, K3-EDTA, 5ml, plastic, pearl white top	1000 pieces	HC4	E
Vacutainer tube, serum separation, 5ml, plastic, sst ii, gold top	1000 pieces	HC4	E
Vacutainer tube, serum, clot activator, 10ml, plastic, red top	1000 pieces	HC4	E
Vacutainer tube, serum, clot activator, 4ml, plastic, red top	1000 pieces	HC4	E
Vacutainer tube, serum, clot activator, 4ml, plastic, red top, (CE	100 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
mark)			
Vacutainer tube, serum, clot activator, 6ml, plastic, red top	1000 pieces	HC4	E
Vaginal speculum	1	HC4	E
Vancomycin, 30ug	250 discs	HC4	E
Vaseline (white petrolatum), 50g	50g	HC4	E
Water purification, Milli-DI system, final filter 0.22um, flow rate: 0.5-0.7 l/min, battery-powered, direct-Q	1	HC4	E
Water purification, quantum IX (Ionex) cartridge for milli-Q + direct-Q systems	1	HC4	E
Weighing boats, 20ml hexagonal anti-static weighing boats, white PS	500 pieces	HC4	E
Weighing boats, anti-static, 200ml, hexagonal, white PS	500 pieces	HC4	E
Weighing boats, anti-static, 50ml, hexagonal, white PS	500 pieces	HC4	E
Weighing dish, anti-static, 12mm thick polystyrene, standard style, 3-1/2 l x 3-1/2 w x 1 in. h, natural, disposable, flat bottom	500 pieces	HC4	E
Weighing dish, anti-static, 12mm thick polystyrene, standard style, 1-5/8 l x 1-5/8 w x 5/16 in. h, natural, disposable, flat bottom	500 pieces	HC4	E

ITEM DESCRIPTION	UNIT	L	C
Weighing paper, 15x15cm	500 pieces	HC4	E
Wipe, generic, 11x21cm	280 pieces	HC4	E
Wipe, kimwipe, 30x30cm	196 pieces	HC4	E

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