

GOVERNMENT OF THE UNION OF MYANMAR

MINISTRY OF HEALTH



ESSENTIAL AND COMPLEMENTARY
MEDICINES AND VACCINES FOR MYANMAR



2010



Introduction

Essential Medicines are those that will solve the common health problems in the community. It should be effective, safe, suitable and at reasonable cost to the consumers and should be available at all times. Without medicines, the health system will collapse as the patient will not come to the health care centre if there are no medicines. So the medicines play significant role in the process of health care in the community. The health care providers particularly the medicine prescribers should be able to select the essential medicines required for the health care in ones area, department, ward, institution with subsequent estimation of medicines requirement.

Essential Medicines List (EML) for a country is a very important component of the country's essential medicines project. Previously an EML was usually drawn up selecting medicines from existing stock lists supplemented by the anecdotal and whims and fancies of the leading top clinicians, with the resultant piling of unused and non-popular drugs and acute shortage of the most essential and life saving medicines, affecting the quality of health care with antecedent poor health status. However, it is now conceived that the selection of medicines be based on common prevailing health problems and treatment of choice for these conditions as defined in Standard Treatment Guidelines (STGs) for different level of health care facilities of the country. As a matter of fact, the EML is a natural result of the National Standard Treatment Guidelines, constituting the National List of Essential Medicines. The medicines included in the treatment guidelines for a different level of health care facility will constitute EML for that level and also categorized as Intermediate List of Essential Medicines, which together with others, constitute the National List of Essential Medicines for the country.

Myanmar Essential Medicines Project, since the inception (adoption) of Essential Medicines and Vaccines Programme (EMVP) has developed and established of National list of Essential Medicines comprising of 254 items (122 Essential + 132 Complementary) of medicines in 1979. This activity was followed by series of review and revision in 1984 with 240 items (116 Essential + 124 Complementary) of medicines for the second time with subsequent third review and revision in 1987 with 211 items (89 Essential + 122 Complementary), in 1998, with 184 items (158 Essential + 26 Complementary), in 2001 with 319 items (239 Essential + 80 Complementary) items of medicines. The sixth review and revision of the National List of Essential Medicines was done recently in 2009 with 341 items (243 Essential + 98 Complementary) of medicines.

Like Standard Treatment Guidelines, the National Essential Medicines List should be reviewed and revised frequently and regularly. The Essential Medicines List can be used as the basis for procurement and distribution of medicines and for developing National and Hospital Medicines Formularies. It can also be used to identify product areas for selective support to the National Pharmaceutical Industry for targeted quality assurance.

Simply producing and distributing an Essential Medicines List has shown to have no effect. As with clinical guidelines, Essential Medicines List must be actively implemented with regular updating process.

National List of Essential and Complementary Medicines **(Revised in October, 2009)**

Explanatory Notes

- (E) presents a list of minimum medicine needs for a basic health care system, listing the most efficacious, safe and cost effective medicines for priority conditions
- (E)* Essential medicines recommended for tertiary referral level
- (C) presents essential medicines for priority diseases, for which specialized diagnostic or monitoring facilities, and/or specialist medical care, and/or specialist training are needed
- (C)* Complementary medicines recommended for tertiary referral level

Summary

Total items of (E) = 225

Total items of (E)* = 18

Total items of (C) = 85

Total items of (C)* = 13

Total = 341

Contents

1. Anaesthetics	1
2. Analgesics, antipyretics, nonsteroidal anti-inflammatory medicines, medicines used to treat gout and disease modifying agents in rheumatoid disorders	2
3. Anti-allergics and medicines used in anaphylaxis	4
4. Antidotes and other substances used in poisoning	4
5. Medicines for central nervous system	5
6. Anti-infective medicines	6
7. Antimigraine medicines	14
8. Medicines affecting the blood	14
9. Blood products and plasma substitutes	15
10. Cardiovascular medicines	15
11. Dermatological medicines (Topical)	18
12. Diagnostic agents	19
13. Disinfectants and antiseptics	19
14. Diuretics	20
15. Gastrointestinal medicines	21
16. Hormones, other endocrine medicines and contraceptives	22
17. Immunologicals	25
18. Muscle relaxants (peripherally acting) and anticholinesterase inhibitors	26
19. Ophthalmological preparation	27
20. Oxytocics and myometrial relaxants	28
21. Psychotherapeutic medicines	28
22. Medicines acting on the respiratory tract	29
23. Solutions correcting water, electrolytes and acid base balance	30
24. Vitamins and minerals	31
25. Cancer chemotherapeutic medicines	33
26. Otorhinolaryngological preparation	35
27. Medicines for urological system	36
28. National List of Essential and Complementary Medicines (Alphabetical Order) Annex- 1	37

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
---------------------------------------	--

SECTION -1 : ANAESTHETICS**1.1 General Anaesthetics****1.1.1 Inhalational Anaesthetics and Oxygen****Volatile Liquid Anaesthetics**

- Diethyl Ether (E)
- Halothane (E)
- Isoflurane (E)

Gaseous Anaesthetics

- Nitrous oxide (E)
- Oxygen (E) (Medicinal Gas)

1.1.2 Intravenous Anaesthetics

- | | | |
|-----------------------------------|-----------|------------------|
| - Ketamine (E)
(hydrochloride) | Injection | 10mg/ml, 50mg/ml |
| - Propofol (E) | Injection | 10mg/ml, 1% |
| - Thiopental (E) | Injection | 25mg/ml, 2.5% |

1.2 Local Anaesthetics

- | | | |
|--------------------------------------|----------------|------------------------------------|
| - Bupivacaine (E)
(hydrochloride) | Spinal | 0.5% heavy 5mg/ml
+7.5% glucose |
| | Nerve block | 2.5-5mg/ml, 0.25-0.5% |
| | Epidural block | 2.5-5mg/ml, 0.25-0.5% |
| - Lignocaine (E)
(hydrochloride) | Spinal | 5% heavy 50mg/ml
+ 7.5% glucose |
| | Nerve block | 15-20mg/ml, 1.5 to 2% |

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
	Epidural block	15-20mg/ml, 1.5 to 2%
	Lozenge	5%
	Dental Cartridge	2%+1:80,000 adrenaline
	Spray	10%
	Infiltration	5-10mg/ml, 0.5 to 1%
	Regional	5mg/ml, 0.5 %
- Ephedrine (E)	Injection	30mg/ml
(for use in spinal anaesthesia during delivery, to prevent hypotension)		

1.3. Pre-operative medication and sedation

- Atropine (E) (sulfate)	Injection	600mcg/ml
- Diazepam (E)	Tablet	5mg, 10mg
	Injection	5mg/ml in 2 ml amp.
- Promethazine (E) (hydrochloride)	Oral Liquid	5mg/5ml

SECTION -2: ANALGESICS, ANTIPYRETICS, NON - STEROIDAL ANTI-INFLAMMATORY MEDICINES (NSAIDs), MEDICINES USED TO TREAT GOUT AND DISEASE MODIFYING AGENTS IN RHEUMATOID DISORDERS (DMARDs)

2.1 Non-opioids

- Acetylsalicylic acid (E)	Tablet	75mg, 80mg, 300mg (soluble/ dispersible forms)
- Celecoxib (C)* (Selective COX 2 inhibitor)	Tablet	100mg, 200mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Diclofenac (E) (sodium/potassium)	Tablet	25mg, 50mg
	Injection	25mg/ml in 3ml amp.
	Suppository	12.5mg, 25mg, 50mg, 100mg
- Paracetamol (E)	Tablet	500mg
	Oral Liquid	120mg/5ml, 250mg/5ml
	Suppository	80mg, 125mg, 150mg, 300mg, 600mg

2.2. Opioid Analgesics

- Codeine phosphate (E)	Tablet	30mg
- Fentanyl (E) (citrate)	Injection	50mcg/ml, 2 ml amp
- Morphine (E) (sulfate/hydrochloride)	Injection	10mg/ml, 15mg/ml
- Pethidine (E) (hydrochloride)	Tablet	50mg
	Injection	50mg, 100mg/ml
- Tramadol (E)* (hydrochloride)	Tablet/Capsule	50mg, 100mg
	Injection	50mg/ml, 100mg/2ml

2.3 Medicines used to treat gout & hyperuricemic condition

- Allopurinol (E)	Tablet	100mg
- Colchicine (E)	Tablet	500mcg

2.4 Disease Modifying Agents Used in Rheumatoid Disorders

- Azathioprine (C)	Tablet	50mg
- Chloroquine (E) (phosphate/sulfate)	Tablet	150mg base
	Oral Liquid	50mg/5ml base
- Methotrexate (C)*	Tablet	2.5mg, 5mg
	Injection	10mg/ml, 50mg/5ml 500mg/5ml, 1000mg/10ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Penicillamine (C)	Tablet/Capsule	50mg, 125mg, 250mg
- Sulfasalazine (C)	Tablet	500mg

SECTION-3: ANTI- ALLERGICS AND MEDICINES USED IN ANAPHYLAXIS

- Cetirizine (E)	Tablet	10mg
(hydrochloride)	Oral Liquid	5mg/5ml
- Chlorpheniramine (E)	Tablet	4mg
(maleate)	Injection	10mg/ml
- Dexamethasone (E)	Tablet	500mcg
(sodium phosphate)	Injection	4mg/ml in 1ml, 2ml amp.
- Epinephrine (E)	Injection	1:1000, 1:10000
(hydrogen tartrate)		(1mg/ml, 0.1mg/ml amp)
- Hydrocortisone (E)	Cream/Ointment 0.5%, 1%	
(acetate)	Injection	100mg, 500mg in vial
(sodium succinate/ sodium phosphate)		
- Prednisolone (E)	Tablet	5mg

SECTION-4: ANTIDOTES AND OTHER SUBSTANCES USED IN POISONING

4.1 Non-specific

- Charcoal (E)	Powder	25g, 50g sachet
(activated)	Granules	

4.2 Specific

- Acetylcysteine (E)	Injection	200mg/ml in 10 ml amp.
- Atropine (E)	Injection	600mcg/ml
(sulfate)		

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Deferoxamine (E) (mesilate)	Powder for Injection	500mg in vial
- Dimercaprol (E)	Injection	50mg/ml in 2ml amp.
- Naloxone (E) (hydrochloride)	Injection	400mcg in 1ml amp.
- Penicillamine (C)	Tablet/Capsule	50mg, 125mg, 250mg
- Pralidoxime (E) (mesilate)	Injection	200mg/ml in 5ml amp.
- Flumazenil (E)	Injection	100mcg/ml in 5ml amp.
- Sodium Nitrite (C)	Injection	30mg/ml in 10ml amp.
- Sodium Thiosulfate (C)	Injection	250mg/ml in 50ml amp.

SECTION 5: MEDICINES FOR CENTRAL NERVOUS SYSTEM

5.1 Anticonvulsants, Antiepileptics

- Carbamazepine (E)	Tablet	100mg, 200mg
- Diazepam (E)	Tablet	5mg, 10mg
	Injection	5mg/ml in 2ml amp.
	Rectal solution	2.5mg, 5mg, 10mg 20mg in rectal tube
- Ethosuximide (C)	Capsule	250mg
	Oral liquid	250mg/5ml
- Midazolam (E)	Injection	10mg/2ml
- Magnesium sulfate (E) (for use in eclampsia & severe pre-eclampsia)	Injection	500mg in 2ml (25%)
		4g in 20ml (20%)
- Phenytoin (C) (sodium salt)	Tablet/Capsule	25mg, 50mg, 100mg
	Injection	50mg/ml in 5ml vial

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Phenobarbital (E) (sodium salt)	Tablet	15mg, 30mg, 60mg
	Oral Liquid	15mg/5ml
	Injection	200mg/ml
- Valproic Acid (C) (Sodium Valproate)	Tablet	200mg, 500mg
	Injection	400mg/4ml

5.2 Medicines for Parkinsonism

- Benzhexol (E)	Tablet	2mg
- Levodopa + Carbidopa (E)	Tablet	100mg + 10 mg 250mg + 25 mg
	Oral Liquid	200mg/5ml

SECTION 6: ANTI-INFECTIVE MEDICINES

6.1 Anthelminthics

6.1.1 Intestinal Anthelminthics

- Albendazole (E)	Tablet	200mg, 400mg
- Mebendazole (E)	Tablet	100mg, 500mg
- Levamisole (E)	Tablet	25mg, 50mg, 150mg
- Niclosamide (C)	Tablet	500mg

6.1.2 Antifilarials

- Diethylcarbamazine (E) (citrate)	Tablet	50mg
---------------------------------------	--------	------

6.2 Antibacterials

6.2.1 Penicillins and Beta Lactam medicines

- Amoxicillin (E) (trihydrate) (sodium salt)	Tablet/Capsule	250mg, 500mg
	Injection	500mg, 1g vial
	Oral liquid	125mg/5ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Amoxicillin with clavulanic acid (Co-amoxiclav) (E)	Tablet	375mg, 625mg
	Injection	600mg(500mg+100mg), 1.2g(1000mg+200mg)/vial
	Oral liquid	156mg/5ml
- Benzathine penicillin (E)	Injection	1.44 g benzyl penicillin (2.4 million IU) in 5ml vial
- Benzylpenicillin G (E) (sodium / potassium salt)	Injection	300mg/vial single or multiple dose vial
- Cephalexin (E)	Tablet/Capsule	250mg, 500mg
	Oral Liquid	125mg, 250mg/5ml
- Cefuroxime (C) (sodium salt)	Tablet(as axetil)	125mg, 250mg
	Injection	250mg, 750mg/vial
	Oral Liquid	125mg/5ml
- Cefaclor (C)	Capsule	250mg, 500mg
	Oral Liquid	125mg, 250mg/5ml
- Ceftriaxone (C) (sodium salt)	Injection	1g, 2g/vial
- Cefixime (C)	Tablet/Capsule	100mg, 200mg
- Ceftazidime (C) (pentahydrate)	Injection	1g, 2g/vial
- Cloxacillin (E)	Capsule	250mg, 500mg
	Injection	500mg in vial
	Oral Liquid	125mg/5ml
- Flucloxacillin (C) (sodium)	Capsule	250mg, 500mg
	Injection	500mg, 1g vial
	Oral Liquid	125mg/ 5ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Fortified Procaine Penicillin G (C)	Injection	mixture of 5 parts of procaine penicillin and 1 part of benzylpenicillin single or multiple dose vial
- Imipenem + Cilastatin (C) (monohydrate)	Injection	500mg+ 500mg
- Phenoxymethylpenicillin(E)	Tablet	250mg
6.2.2 Other Antibacterials		
- Amikacin (C)* (sulfate)	Tablet	500mg
	Injection	250mg, 500mg in 2ml vial
- Azithromycin (E) (dihydrate)	Tablet/Capsule	250mg, 500mg
	Oral Liquid	200mg/5ml
- Chloramphenicol (E) (palmitate/sodium succinate)	Oral Liquid	125, 250mg/5ml
	Injection	500mg, 1g vial
- Ciprofloxacin (E)	Tablet	250mg, 500mg
	Injection	200mg/100ml bot
	Oral Liquid	250mg/5ml
- Clindamycin (C)	Capsule	150mg, 300mg
	Injection	300mg/2ml
- Co-trimoxazole (E) (Sulfamethoxazole+ Trimethoprim - 5:1)	Tablet	120mg, 480mg
	Injection	96mg/ml in 5ml, 10ml amp
	Oral Liquid	240mg/5ml
- Doxycycline (E) (hydrochloride)	Tablet/Capsule	100mg
- Erythromycin (E) (stearate)	Tablet/Capsule	250mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
	(ethylsuccinate) Oral Liquid	125mg/5ml, 250mg/5ml
	(lactobionate) Injection	1g vial
- Gentamicin (E) (sulfate)	Injection	10mg, 40mg/ml in 2ml amp.
	Eye drop	0.3%
- Lincomycin (C)	Injection	500mg/vial
	Capsule	250mg, 500mg
- Metronidazole (E) (Benzoate)	Tablet	200mg- 500mg
	Injection	500mg/100ml bot
	Oral Liquid	200mg/5ml
	Gel	0.75%
- Netilmicin (C)* (sulfate)	Injection	50mg, 100mg/ml amp.
- Neomycin (E) (sulfate)	Tablet	500mg
	Oral Liquid	100mg/5ml
- Norfloxacin (E)	Tablet	400mg
	Drop(Ear/Nose)	0.3%
- Tetracycline (E) (hydrochloride)	Eye ointment	1%
- Vancomycin (C)	Tablet	125mg, 250mg
	Injection	500mg vial

6.2.3. Antileprotic Medicines

- Clofazimine (E)	Capsule	50mg, 100mg
- Dapsone (E)	Tablet	50mg, 100mg
- Ofloxacin (C)	Tablet	200mg, 400mg
- Rifampicin (E)	Tablet/Capsule	150, 300, 450mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
6.2.4. <u>Antituberculous Medicines</u>		
- Ethambutol (E) (hydrochloride)	Tablet	400mg
- Isoniazid (E)	Tablet	100mg, 300mg
- Isoniazid & Rifampicin (E)	Capsule	75mg + 150mg
- 4 FDC (E) Capsule (Fixed-Dose Combination)	Isoniazid 75mg + Rifampicin 150mg Pyrazinamide 400mg + Ethambutol 275mg	
- Pyrazinamide (E)	Tablet	400mg
- Rifampicin (E)	Tablet/Capsule Oral Liquid	150mg, 300mg, 450mg 100mg/5ml
- Streptomycin (E) (sulfate)	Injection	1g/ vial

Second - line medicines for the treatment of multidrug- resistant tuberculosis (MDR-TB)

- Amikacin (C)* (sulfate)	Tablet Injection	500 mg 250mg, 500mg in 2ml vial
- Capreomycin (C)	Injection	1000mg in vial
- Cycloserine (C)	Tablet/Capsule	250mg
- Ethionamide (C)	Tablet	125mg, 250mg
- Kanamycin (C)	Injection	1g in vial
- Levofloxacin (C)	Tablet	250mg, 500mg
- Ofloxacin (C)	Tablet	200mg, 400mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

6.3. Antifungal Medicines

- Amphotericin B (C)* (salt complex or lipid complex forms)	Injection	50mg, 100mg vial
- Clotrimazole (E)	Eye Drop	1%
	Drop(Ear/Nose)	1%
	Cream	1%, 10%
	Pessary	100mg, 200mg, 500mg
- Fluconazole (E)	Capsule	50mg, 150mg, 200mg
- Ketoconazole (E)	Tablet	200mg
	Oral Liquid	100mg/5ml
	Cream	2%
- Nystatin (E)	Tablet	100,000 IU, 500,000 IU
	Lozenge	100,000 IU
	Oral Liquid	100,000 units/g
	Pessary	100,000 IU

6.4. Anti-protozoal Medicines**6.4.1. Anti-amoebic and Antigiardiasis**

- Diloxanide furoate (E)	Tablet	500mg
- Metronidazole (E) (benzoate)	Tablet	200mg - 500 mg
	Injection	500mg/100ml bot
	Oral Liquid	200mg/5ml
	Gel	0.75%
- Tinidazole (E)	Tablet	500mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

6.4.2. Antimalarial Medicines

(a) For Curative Treatment

- Artemether (E)	Tablet	50mg
	Injection	80mg/ml in 1ml amp.
- Artesunate (E)	Tablet	50mg
	Injection	60mg/amp.
- Chloroquine (E) (phosphate/sulfate)	Tablet	150mg base
	Oral Liquid	50mg/5ml base
- Doxycycline (E) (hydrochloride)	Tablet/Capsule	100mg
- Mefloquine (E) (hydrochloride)	Tablet	250mg
- Primaquine (E) (diphosphate)	Tablet	7.5mg, 15mg
- Quinine (E) (sulfate) (dihydrochloride)	Tablet	300mg
	Injection	300mg/ml in 2ml amp

(b) For Prophylaxis

- Doxycycline (E) (hydrochloride)	Tablet/Capsule	100mg
- Mefloquine (E) (hydrochloride)	Tablet	250mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

6.4.3. Antiviral and Antiretroviral Agents

- Aciclovir (E)	Tablet	200mg, 400mg, 800mg
	Injection	250mg, 500mg in vial
	Cream	5%
- Ribavirin (C)*	Tablet/Capsule	200mg, 400mg, 600mg
	Injection	1000mg and 800mg in 10ml phosphate buffer solution
- Valganciclovir (C)*	Tablet	450mg

1st line Antiretroviral Agents

- Efavirenz (E)*	Capsule/Tablet	600mg, 200mg, 50mg
- Lamivudine (E)*	Tablet	100mg, 150mg
	Oral Liquid	50mg/5ml
- Nevirapine (E)	Tablet	200mg
	Oral Liquid	50mg/5ml
- Stavudine (E)*	Capsule	15mg, 20mg, 30mg
- Zidovudine (E)*	Tablet/Capsule	100mg, 250mg, 300mg
	Injection	200mg/20ml amp
	Oral Liquid	50mg/5ml

2nd line Antiretroviral Agents

- Abacavir (E)*	Tablet	300mg
- Didanosine (E)*	Tablet	25mg, 100mg, 150mg, 200mg
- Indinavir (E)*	Capsule	200mg, 400mg
- Lopinavir/ Ritonavir (E)*	Tablet	200mg + 50mg
	Capsule	133.3mg + 33.3mg

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Ritonavir (E)*	Capsule	100mg
	Oral Liquid	400mg/5ml
- Saquinavir (C)	Capsule	200mg
- Tenofovir (E)*	Tablet	245mg

SECTION 7:ANTIMIGRAINE MEDICINES

7.1 For treatment of acute attack

- Acetylsalicylic acid (E) (soluble/ dispersable forms)	Tablet	75mg, 80mg, 300mg
- Diclofenac (E) (sodium/ potassium)	Tablet	25mg, 50mg
	Injection	25mg/ml in 3ml amp.
	Suppository	12.5, 25, 50, 100mg
- Paracetamol (E)	Tablet	500mg
	Oral Liquid	120mg/5ml, 250mg/5ml
	Suppository	80mg, 125mg, 150mg, 300mg, 600mg

7.2 For Prophylaxis

- Propranolol (hydrochloride) (E)	Tablet	20mg, 40mg, 80mg
-----------------------------------	--------	------------------

SECTION 8: MEDICINES AFFECTING THE BLOOD

8.1.Anti-anaemic Medicines

- Erythropoietin (C) (Epoetin)	Injection	40000 IU/ml vial 10000 IU prefilled syringe
- Ferrous Salt (E) (sulfate, fumarate)	Tablet	equivalent to iron 60-65mg
	Oral Liquid	equivalent to 45mg/ 5ml
-Folic acid (E) (sodium salt)	Tablet	1mg, 5mg
	Injection	15mg/ml amp
- Hydroxocobalamin (E)	Injection	100mcg/ml, 1000mcg/ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

8.2 Medicines affecting coagulation

- Heparin (C) (sodium)	Injection	1000IU/ml, 5000IU/ml in 5ml vial
- Tranexamic acid (E)*	Tablet Injection	500mg 100 mg/ml in 5ml amp.
- Warfarin (C) (sodium salt)	Tablet	0.5mg, 1mg, 2mg, 5mg

SECTION 9: BLOOD PRODUCTS AND PLASMA SUBSTITUTES

9.1 Plasma Substitutes

- Albumin (C) (Human)	Injection	20%, 50ml, 100ml vial
- Dextran 40 (E)	Injection	500ml bot
- Dextran 70 (E)	Injection	6% in dextrose 5% or 0.9% Sodium Chloride Solution
- Gelatin Infusion (E)	Injection	4%, 500ml bot

9.2 Blood Preservative Solution

(Blood Reservoir)		
- Citrate Phosphate Dextrose Adenine 1 (E) (CPDA ₁)	Injectable solution	63ml in reservoir bottle/ plastic bag 510ml capacity

SECTION 10: CARDIOVASCULAR MEDICINES

10.1 Anti-anginal Medicines

- Atenolol (E)	Tablet	50mg, 100mg
- Glyceryl Trinitrate (E) (sublingual)	Tablet Injection	300mcg, 500mcg 5mg/ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
- Isosorbide Dinitrate (E) (sublingual)	Tablet 5mg, 10mg (Modified released) 20mg, 25mg, 50mg
- Isosorbide Mononitrate (E)	Tablet 10mg, 20mg (Modified released) 30mg, 60mg

10.2 Anti-arrhythmic Medicines

- Amiodarone (C)* (hydrochloride)	Tablet 100mg, 200mg Injection 150mg/3ml amp.
- Atenolol (E)	Tablet 50mg, 100mg
- Digoxin (E)	Tablet 62.5mcg, 250mcg Injection 250mcg/ml in 2 ml amp. Oral Liquid 50mcg/ml
- Lignocaine (E) (hydrochloride)	Injection 20mg/ml in 5ml
- Verapamil (E) (hydrochloride)	Tablet 40mg, 80mg Injection 2.5mg/ml in 2ml amp.

10.3 Antihypertensives

- Amlodipine (E) (besylate)	Tablet 5mg, 10mg
- Atenolol (E)	Tablet 50mg, 100mg
- Diltiazem (E)	Tablet 30mg, 60mg, (modified released)
- Enalapril (E) (maleate)	Tablet 2.5mg, 5mg, 10mg
- Hydralazine (E) (hydrochloride)	Tablet 25mg, 50mg Injection 20mg in amp.
- Labetalol (E) (hydrochloride)	Tablet 50mg, 100mg, 200mg Injection 100mg/20ml amp.

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Losartan (potassium) (C)	Tablet	25mg, 50mg, 100mg
- Methyldopa (E)	Tablet	250mg
- Metoprolol (E) (tartrate)	Tablet	50mg, 100mg
- Nifedipine (E)	Tablet (Retard)	20mg
- Prazosin (E) (hydrochloride)	Tablet	500mcg, 1mg
- Sodium Nitroprusside (C)*	Injection	50mg/5ml vial

10.4 Medicines used in heart failure

- Carvedilol (E)	Tablet	3.125, 6.25, 12.5, 25mg
- Digoxin (E)	Tablet Injection Oral Liquid	62.5mcg, 250mcg 250mcg/ml in 2 ml amp. 50mcg/ml
- Dobutamine (C)* (hydrochloride)	Injection	250mg in 20ml vial
- Dopamine (C) (hydrochloride)	Injection	200mg in 5 ml vial
- Enalapril (E) (maleate)	Tablet	2.5mg, 5mg, 10mg
- Furosemide (E)	Tablet Injection	40mg 10mg/ml in 2ml amp.
- Hydrochlorothiazide (E)	Tablet	25mg, 50mg

10.5 Medicines used in shock and anaphylaxis

- Dopamine (C) (hydrochloride)	Injection	200mg in 5 ml vial
- Dobutamine (C)* (hydrochloride)	Injection	250mg in 20ml vial

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Epinephrine (E) (hydrogen tartrate)	Injection	1:1000, 1:10000 (1mg/ml, 0.1mg/ml amp)
- Hydrocortisone (E)	Injection	100mg, 500mg in vial
- Norepinephrine (E)	Injection	2mg/ml
10.6 Antithrombotic (Antiplatelet) Medicines		
- Acetylsalicylic acid (E) (soluble/ dispersable forms)	Tablet	75mg, 80mg, 300mg
- Clopidogrel (C) (hydrogen sulfate)	Tablet	75mg
10.7 Fibrinolytic (Thrombolytic) Medicines		
- Streptokinase (C)*	Injection	750,000 IU, 1,500,000IU in vial
10.8 Lipid Regulating Medicines		
- Atorvastatin (C)	Tablet	10mg, 20mg, 40mg
- Simvastatin (C)	Tablet	10mg, 20mg, 40mg

SECTION 11 : DERMATOLOGICAL MEDICINES (TOPICAL)

11.1 Antifungal

- Benzoic acid + Salicylic acid (E)	Ointment/Cream	6% + 3%
- Clotrimazole (E)	Cream	1%, 10%
	Passary	100mg, 200mg, 500mg
- Ketoconazole (E)	Cream	2%
- Miconazole (E)	Cream	2%
- Nystatin (E)	Ointment/ Cream	100,000 Unit/g

11.2 Antibacterial

- Neomycin (E) (sulfate)	Cream/ Ointment	0.5%
-----------------------------	--------------------	------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Povidone - Iodine (E)	Solution//Cream 10 %	
- Potassium Permanganate (E)	Cream/ Solution	0.1%
- Silver sulphadiazine (E)	Cream	1%
11.3 <u>Antiviral</u>		
- Aciclovir (E)	Cream	5%
11.4 <u>Anti-inflammatory/Antipruritic Medicines</u>		
- Betamethasone (E) (valerate)	Ointment/ Cream	0.1%
- Calamine Lotion (E)	Lotion	15%
- Hydrocortisone (E) (acetate)	Cream/ Ointment	0.5 %, 1 %
11.5 <u>Keratoplastic/Keratolytic Agents</u>		
- Coal tar (E)	Solution/Paste	5%
- Salicylic acid (E)	Ointment/Paste	5%
11.6 <u>Scabicides/Pediculicides</u>		
- Benzyl benzoate (E)	Lotion	25%
- Permethrin (E)	Cream/Lotion	1%, 5%

SECTION 12 : DIAGNOSTIC AGENTS

Radiographic contrast media

- Barium sulfate (E)	Powder	Tin (5 lbs)
----------------------	--------	-------------

SECTION 13: DISINFECTANTS AND ANTISEPTICS

13.1 Antiseptics

- Benzalkonium (E) (chloride)	Solution	1%
----------------------------------	----------	----

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Cetrimide (E)	Solution	1%
- Chlorhexidine (E) (digluconate)	Solution	5% for dilution
- Comprox AC + Solution Parachlorometaxylenol + Dichlorometaxylenol (Aseptol) (E)	Solution	
- Formaldehyde (E)	Solution	36%
- Hydrogen peroxide (E)	Solution	3%
- Methylated spirit (E)	Solution	19:1
- Povidone - Iodine (E)	Solution/Paint/Cream	10 %

13.2 Disinfectants

- Chlorine based Compound (E)	Solution	0.1% available chlorine
- Chloroxylenol (E)	Solution	4.8 %
- Glutaraldehyde (E)	Solution	2%

SECTION 14: DIURETICS

- Amiloride (E)	Tablet	5mg
- Chlorthalidone (E)	Tablet	50mg
- Furosemide (E)	Tablet	40mg
	Injection	10mg/ml in 2ml amp.
- Hydrochlorothiazide (E)	Tablet	25mg, 50mg
- Mannitol (E)	Injection	10%, 20% in 250ml bot.
- Spironolactone (E)	Tablet	25mg, 50mg

Classifications
Generic Name (INN)

**Route of administration,
dosage forms and strengths**

SECTION 15: GASTROINTESTINAL MEDICINES

15.1 Antacids

- Aluminium Hydroxide (E)	Tablet	500mg
	Oral Liquid	320mg/5ml, 4% W/V
- Magnesium hydroxide (E)	Tablet	300mg

15.2 Anti-ulcer Medicines

- Dimethicone (E)	Oral Liquid	40mg /ml
	Oral Drops	20mg/0.3ml
- Omeprazole (E)	Capsule	20mg, 40mg
	Injection	40mg vial
- Ranitidine (E)	Tablet	150mg, 300mg
(hydrochloride)	Injection	50mg/2 ml

15.3 Anti-emetic Medicines

- Cinnarizine (C)	Tablet	25mg
(hydrochloride)		
- Domperidone (E)	Tablet	10mg
(maleate)	Oral Liquid	5mg/5ml
	Oral Drops	5mg/ml in 15ml
- Metoclopramide (E)	Tablet	10mg
(hydrochloride)	Injection	5mg/ml in 2ml amp
- Ondansetron (E)	Tablet	4mg , 8mg
(hydrochloride)	Injection	4mg/2ml
	Oral Liquid	4mg/5ml
- Prochlorperazine (E)	Tablet	5mg
	Oral Liquid	5mg/5ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

15.4 Antispasmodic

- Hyoscine (E)	Tablet	10mg
(butylbromide)	Injection	20mg in 1ml amp.

15.5 Laxative/Cathartic

- Bisacodyl (E)	Tablet	5mg
	Suppository	5mg, 10mg
- Lactulose (C)	Solution	3.1-3.7g/5ml
	Powder	10g sachet
- Magnesium Hydroxide (E)	Tablet	300mg
- Magnesium Sulphate (E)	Powder/ Granules	

15.6 Medicines used to treat Diarrhoea

-Oral Rehydration Salts (E)	Powder (WHO formulation)
-----------------------------	--------------------------

SECTION 16 : HORMONES, OTHER ENDOCRINE MEDICINES AND CONTRACEPTIVES**16.1 Adrenal Hormones and Synthetic Substitutes**

- Dexamethasone (E)	Tablet	500mcg
(sodium phosphate)	Injection	4mg/ml in 1ml, 2ml amp.
- Methyl prednisolone (C)	Tablet	2mg, 4mg
	Injection	40mg/ml in 1mlamp.
- Prednisolone (E)	Tablet	5mg

16.2 Androgens

- Testosterone ester (C)	Injection	250mg in 1ml amp.
--------------------------	-----------	-------------------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
16.3 Contraceptives	
<u>Oral Hormonal Contraceptives</u>	
- Ethinylestradiol (E) + Levonorgestrel	Tablet 30mcg + 150mcg
- Ethinylestradiol (E) + Norethisterone	Tablet 35mcg + 1 mg
- Levonorgestrel (E)	Tablet 30mcg, 1.5mg 750mcg (Pack of two)
<u>Injectable Hormonal Contraceptives</u>	
- Medroxyprogesterone (E) (acetate) (depot)	Injection 150mg/ml in 1ml vial
- Norethisterone enantate (C)	Oily solution 200mg/ml in 1ml amp.
<u>Intrauterine Devices</u>	
- Copper Intra-Uterine Device (Cu-IUD) (E)	
<u>Barrier methods</u>	
- Condoms (E)	
<u>Implantable Contraceptives</u>	
- Levonorgestrel releasing implant (C)*	150mg total
16.4 Estrogens	
- Ethinylestradiol (C)	Tablet 10mcg, 50mcg
16.5 Medicines for ovulation induction	
- Clomiphene citrate (C)	Tablet 50mg
16.6 Progestogens	
- Medroxyprogesterone (E)	Tablet 5mg (acetate)

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

- Norethisterone (E)	Tablet	5mg
----------------------	--------	-----

16.7 Medicines for Hyperprolactinaemia

- Bromocriptine (C)	Tablet	2.5mg
---------------------	--------	-------

16.8 Insulins and Other Antidiabetic Agents

- Insulin (E)	Injection	100IU/ml in 10 ml vial
. Short- acting- soluble insulin,		
. Intermediate - isophane,		
. Premixed - biphasic insulin,		
. Long- acting - insulin zinc suspension (mixed, crystalline)		

- Glibenclamide (E)	Tablet	5mg
---------------------	--------	-----

- Gliclazide (E)	Tablet	80mg
------------------	--------	------

- Glipizide (C)	Tablet	5mg
-----------------	--------	-----

- Glimepiride (C)	Tablet	1mg, 2mg
-------------------	--------	----------

- Metformin (E) (hydrochloride)	Tablet	500mg
------------------------------------	--------	-------

16.9 Thyroid Hormones and Antithyroid Medicines

- Carbimazole (E)	Tablet	5mg
-------------------	--------	-----

- Levothyroxine (E) (sodium salt)	Tablet	25mcg, 50mcg, 100mcg
--------------------------------------	--------	----------------------

- Lugol's Iodine (C)	Solution	Iodine 5%+ Potassium iodide 10%
----------------------	----------	------------------------------------

- Propylthiouracil (C)	Tablet	50mg
------------------------	--------	------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
---------------------------------------	--

SECTIONS 17 : IMMUNOLOGICALS**17.1 Sera and Immunoglobulins**

- Antisnake venom serum (E) (cobra antivenom)	Injection	10ml vial for cobra bite
- Antisnake venom serum (E) (viper antivenom)	Injection	10ml vial for viper bite
- Tetanus immunoglobulin (E) (Human origin)	Injection	250 IU/2ml
- Rabies immunoglobulin (E) (Human origin)	Injection	300 IU/2ml, 750 IU/5ml
- Anti-D immunoglobulin (C)	Injection	human origin
- Hepatitis B immunoglobulin (C)	Injection	human origin

17.2 Vaccines**For Universal Immunization**

- BCG vaccine (E)	Injection
- Diphtheria, Pertussis and Tetanus vaccine (E)	Injection
- Hepatitis B Vaccine (E)	Injection
- Measles Vaccine (E)	Injection
- Poliomyelitis Vaccine (E)	Oral Liquid
- Tetanus Vaccine (E)	Injection

For specific groups of individuals

- Haemophilus Influenzae B Vaccine (HIB) (E)	Injection
- Human Papilloma Virus Bivalent Vaccine (E)	Injection

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Japanese Encephalitis Vaccine (C)	Injection	
- Measles/Mumps/Rubella Vaccine (MMR) (E)	Injection	
- Meningococcal Vaccine (C)	Injection	
- Rabies Vaccine (E)	Injection	
- Typhoid, Paratyphoid A&B Vaccine with Vi antigen (E)	Injection	
- Yellow-Fever Vaccine (C)	Injection	

17.3 Immunosuppressants

- Azathioprine (C)	Tablet	50mg
- Cyclophosphamide (C)	Tablet	50mg
	Injection	100mg, 200mg 500mg, 1000mg
- Methylprednisolone (C)	Tablet	2mg, 4mg
	Injection	40mg/ml in 1ml amp
- Prednisolone (E)	Tablet	5mg

SECTION 18: MUSCLE RELAXANTS (PERIPHERALLY ACTING) AND ANTICHOLINESTERASE INHIBITORS

- Atracurium (E)*	Injection	10mg/ml
- Neostigmine (E)* (metilsulfate)	Injection	2.5mg/ml in 1 ml amp.
- Pancuronium (E)*	Injection	2mg/ml
- Pyridostigmine (E)* (bromide)	Tablet	60mg
- Suxamethonium chloride (E)*	Injection	50mg/ml
- Vecuronium bromide (E)*	Injection	10mg/vial

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
---------------------------------------	--

SECTION 19 : OPHTHALMOLOGICAL PREPARATION

19.1 Anti-infective Agents

- Chloramphenicol (E)	Eye Drops	0.5%
	Eye Ointment	1%
- Ciprofloxacin (E) (hydrochloride)	Eye Drops	0.3 %
- Clotrimazole (E)	Eye Drops	1%
- Framycetin (E) (Sulfate)	Eye Drops	0.5 %
- Gentamycin (E) (Sulfate)	Eye Drops	0.3 %
- Tetracycline (E) (hydrochloride)	Eye Ointment	1 %

19.2 Miotics and Antiglaucoma agents

- Acetazolamide (E)	Tablet	250mg
- Pilocarpine (E) (hydrochloride or nitrate)	Eye Drops	2%, 4%
- Timolol (E) (maleate)	Eye Drops	0.25%, 0.5%

19.3 Mydriatics

- Atropine (E)	Eye Drops	1%
- Tropicamide (C)	Eye Drops	0.5%, 1%

19.4 For allergic conjunctivitis

- Xylometazoline (C) (hydrochloride)	Eye Drops	0.05 %
---	-----------	--------

19.5 Anti-inflammatory agents

- Prednisolone(E) (Sodium phosphate)	Eye Drops	0.5%
---	-----------	------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---	--	--

19.6 Local anaesthetics

- Tetracaine (C) (hydrochloride)	Eye Drops	0.5%
-------------------------------------	-----------	------

SECTION 20 : OXYTOCICS AND MYOMETRIAL RELAXANTS**20.1 Oxytocics**

- Ergometrine (E) (hydrogen maleate)	Tablet Injection	500mcg 200mcg in 1ml amp.
- Misoprostol (E)	Tablet Pessary	200mcg 25mcg
- Oxytocin (E)	Injection	10 IU in 1ml amp.

20.2 Myometrial Relaxants (Antioxytocics)

- Prostaglandin F2 Alpha (C)	Injection
------------------------------	-----------

SECTION 21 : PSYCHOTHERAPEUTIC MEDICINES**21.1 Medicines used in Psychotic Disorders**

- Chlorpromazine (E) (hydrochloride)	Tablet Injection Oral Liquid	25mg, 50mg, 100mg 25mg/ml in 1ml, 2ml amp. 25mg/5ml
- Fluphenazine (C) (decanoate/enantate)	Injection (depot)	25mg/ml in 1ml, 2ml, 10ml amp.
- Haloperidol (E)	Tablet Injection Oral Liquid	1.5mg, 5mg, 10mg 5mg/ml in 1ml amp. 1mg, 2mg/ml

21.2 Medicines used in mood disorders**21.2.1 Medicines for Depression**

- Amitriptyline (E) (hydrochloride)	Tablet	25mg, 50mg
--	--------	------------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Fluoxetine (E) (hydrochloride)	Capsule	10mg, 20mg
	Oral Liquid	20mg/5ml
21.2.2 Medicines for bipolar disorders		
- Carbamazepine (E)	Tablet	100mg, 200mg
- Valproic acid (C) (sodium valproate)	Tablet	200mg, 500mg
	Injection	400mg/4ml
21.3 Medicines used for sedation and generalized anxiety disorders		
- Alprazolam (C)	Tablet	0.25mg, 0.5mg, 1mg
- Diazepam (E)	Tablet	5mg, 10mg
	Injection	5mg/ml in 2ml amp.
	Rectal solution	2.5mg, 5mg, 10mg 20mg in rectal tube
- Lorazepam (C)	Tablet	1mg, 2mg
21.4 Medicines used for obsessive compulsive disorders and panic attacks		
- Clomipramine (C) (hydrochloride)	Capsule	10mg, 25mg
21.5 Medicines used in opiate dependence programmes		
- Methadone (C)	Oral Liquid	5mg/5ml, 10mg/5ml
- Tincture Opium (C)	Oral Liquid	Morphine 1%

SECTION 22 : MEDICINES ACTING ON THE RESPIRATORY TRACT

22.1 Anti-asthmatic Medicines

- Aminophylline (E)	Injection	25mg/ml in 10ml amp.
	Tablet	100mg
- Beclomethasone (E) (dipropionate)	Inhalation (aerosol)	100mcg, 200mcg metered dose
- Hydrocortisone (E)	Injection	100mg, 500mg vial

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Prednisolone (E)	Tablet	5mg
- Salbutamol (E) (Sulfate)	Tablet	2mg, 4mg
	Injection	50mcg/ml in 5ml amp and 500mcg in 1ml amp
	Oral Liquid	2mg/5ml
	Inhalation (aerosol)	100mcg metered dose
	Nebuliser solution	2.5mg/ 2.5ml
- Theophylline (E)	Tablet	150mg, 200mg, 300mg

22.2 Antitussives and mucolytics

- Benzoin Tincture (E)	Solution for inhalation	4.5%
- Carbocysteine (E)	Tablet/Capsule	375mg
	Oral Liquid	125mg, 250mg/5ml
- Diphenhydramine (E) (hydrochloride)	Tablet/Capsule	25mg
	Oral Liquid	12.5mg, 25mg/5ml

22.3 Respiratory stimulants

- Nikethamide (E)	Injection	500mg/2ml
-------------------	-----------	-----------

SECTION 23 : SOLUTION CORRECTING WATER, ELECTROLYTES AND ACID BASE BALANCE

23.1 Oral

- Oral Rehydration Salts (E)	Powder	WHO formulation
- Potassium chloride (E)	Tablet	300, 600mg,
	Injection	10g, 15g/10ml
- Sodium chloride (E)	Tablet	300mg

23.2 Parenteral

- Dextrose (E)	Infusion	5%, 10%, 20%, 50%
	Injection	25%, 50%

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Dextrose and sodium chloride (E)	Infusion	dextrose 4% and sodium chloride 0.18%, dextrose 2.5% and sodium chloride 0.45%, dextrose 5% and sodium chloride 0.9%
- Physiological Saline (E)	Injectable Solution	0.9% sodium chloride
- Ringer Lactate (E)	Injectable Solution	Compound Sodium Lactate
- Sodium Bicarbonate (E)	Injectable Solution	8.4% in 10ml, 20ml, 50 ml amp. 1.26% in infusion

23.3 Medicines for Parenteral Nutrition

- Lipid Solution (C)	Infusion	10% 20%
----------------------	----------	---------

SECTION 24 : VITAMINS AND MINERALS

- Alfacalcidol (C) (1 α Hydroxycholecalciferol)	Injection	1mg/0.5ml amp.
	Capsule	250, 500 nanogram
- Ascorbic acid (E)	Tablet	50mg, 100mg, 500mg
	Injection	100mg/2ml
	Oral Liquid	100mg/5ml
- Calcium Gluconate (E)	Tablet	600mg
	Injection	100mg/ml in 10 ml amp.
- Ergocalciferol (E)	Capsule/Tablet	1.25mg (50,000 IU)
	Oral Liquid	250mcg/ml (10,000 IU/ml)
- Hydroxocobalamin (E)	Injection	100mcg/ml, 1000mcg/ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
- Iodine (C)	Capsule	200mg
	Injection	1ml (480mg iodine)
	(Iodized oil)	0.5ml (240mg iodine) in amp.
	Injection	0.57ml (308mg iodine)
	(Iodized oil)	in dispenser bottle
- Multivitamin and Mineral preparation (E)	Tablet/Capsule	recommended daily allowance dose
- Nicotinamide (E)	Tablet	50mg
- Potassium chloride (E)	Tablet	300, 600mg,
	Injection	10g, 15g/10ml
- Pyridoxine (E) (hydrochloride)	Tablet	50mg
- Retinol (E) (palmitate)	Tablet/Capsule	10,000IU, 5.5mg 200,000IU, 110mg
	Oral oily solution	100,000 IU/ml in multidose
	Water-miscible Injection	100,000 IU, 55mg in 2 ml amp.
- Riboflavin (E)	Tablet	5mg
	Injection	5mg/ml in 2ml amp
- Sodium Fluoride (E)	Tablet	1.1mg, 2.2mg
	ToothPaste	0.61gm%
- Thiamine (E) (hydrochloride)	Tablet	50mg
	Injection	100mg/ml
- Vitamin B complex (E)	Tablet/Injection	recommended daily allowances dose
	Oral Liquid	
- Vitamin K-1 (E)	Injection	10mg/ml

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
---------------------------------------	--

SECTION 25 : CANCER CHEMOTHERAPEUTIC MEDICINES**25.1 Alkylating agents***Nitrogen Mustards*

- Chlorambucil (C)	Tablet	2mg, 5mg
- Cyclophosphamide (C)	Tablet	50mg
	Injection	100mg, 200mg 500mg, 1000mg
- Ifosfamide (C)*	Injection	500mg, 1000mg
	Lyophilized powder	3000mg

Platinum Coordination Complexes

- Carboplatin (C)	Injection	50mg, 150mg, 450mg
-------------------	-----------	--------------------

Substituted urea

- Hydroxyurea (C)	Capsule	500mg
-------------------	---------	-------

Triazenes

- Dacarbazine (C) (Dimethyl triazenoimidazole carboxamide)	Injection	100mg, 200mg
--	-----------	--------------

25.2 Antimetabolites*Folic Acid Analogues*

- Methotrexate (C)*	Tablet	2.5mg, 5mg
	Injection	10mg/ml, 50mg/5ml 500mg/5ml, 1000mg/10ml

Pyrimidine Analogues

- 5-Fluorouracil (C)	Injection	250mg, 500mg
----------------------	-----------	--------------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
<i>Purine Analogues</i>		
- 6-Mercaptopurine (C)	Tablet	50mg
25.3 <u>Natural or Semisynthetic Products</u>		
<i>Antibiotics</i>		
- Bleomycin C (C) (lyophilized powder)	Injection	15 unit vial
- Dactinomycin (C)	Injection	500mcg
- Daunorubicin (C)	Injection	50mg
- Doxorubicin (C)	Injection	10mg, 50mg
<i>Epipodophyllotoxins</i>		
- Etoposide (C)	Injection	50mg, 100mg
<i>Vinca Alkaloids</i>		
- Vinblastine (C)	Injection	10mg
- Vincristine (C)	Injection	1mg, 2mg
25.4 <u>Miscellaneous</u>		
<i>Enzyme (s)</i>		
- Asparaginase (C) (Lyophilized powder)	Injection	10,000 IU
<i>Methylhydrazine Derivative</i>		
- Procarbazine (C)	Capsule	50mg
<i>G-CSF</i>		
- Erythropoietin (C) (Epoetin)	Injection	40000 IU/ml vial 10000 IU prefilled syringe

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths	
---------------------------------------	--	--

25.5 Hormones and hormones inhibitors***Antioestrogens***

- Tamoxifen (C)	Tablet	10mg, 20mg
-----------------	--------	------------

Luteinizing hormone- releasing hormone (LHRH) analogues

- Bromocriptine (C)	Tablet	2.5mg
---------------------	--------	-------

SECTION 26 : OTORHINOLARYNGOLOGICAL PREPARATION**26.1 Anti-infective agents**

- Boric acid/ Spirit (E)	Solution	2%
- Chlorhexidine + Neomycin (E)	Cream	0.1%
- Polymyxin + Bacitracin + Neomycin (C)	Ointment Powder	5,000 units + 400units + 5%

26.2 Anti-infective agent and corticosteroid combined preparations

- Polymixin B+Neomycin (E)	Ear Drops	10,000 units+ 3,400 units+ 1%
----------------------------	-----------	----------------------------------

26.3 Steroidal anti-inflammatory preparations

Beclomethasone (E) (dipropionate)	Inhalation (aerosol)	100mcg, 200mcg metered dose
--------------------------------------	-------------------------	--------------------------------

26.4 Topical and Systemic Nasal Decongestants

- Oxymetazoline (E) (hydrochloride)	Nasal Drops/ Spray	0.05%
- Xylometazoline (C) (hydrochloride)	Nasal Drops/ Spray	0.1%

26.5 Ear wax softening agents

- Sodium bicarbonate/ glycerine (E)	Ear Drops	5%, 10%
--	-----------	---------

Classifications Generic Name (INN)	Route of administration, dosage forms and strengths
26.6 <u>Cavities packing agents</u>	
- Bismuth subnitrate and iodoform (E)	Paste 30g/sachet
SECTION 27 : MEDICINES FOR UROLOGICAL SYSTEM	
27.1 <u>For Alkalinization of Urine</u>	
- Potassium citrate (E)	Oral Liquid 30%
27.2 <u>Medicines for BPH</u>	
- Finasteride (C)	Tablet 5mg

Annex -1

Union of Myanmar

National List of Essential and Complementary Medicines

List of Essential Medicines (E)

1	4 FDC	E	10
2	Acetazolamide	E	27
3	Acetylcysteine	E	4
4	Acetylsalicylic acid	E	2,14,18
5	Aciclovir	E	13,19
6	Albendazole	E	6
7	Allopurinol	E	3
8	Aluminium Hydroxide	E	21
9	Amiloride	E	20
10	Aminophylline	E	29
11	Amitriptyline (hydrochloride)	E	28
12	Amlodipine	E	16
13	Amoxicillin	E	6
14	Amoxicillin with clavulanic acid	E	7
15	Antisnake venom serum (cobra antivenom)	E	25
16	Antisnake venom serum (viper antivenom)	E	25
17	Artemether	E	12
18	Artesunate	E	12
19	Ascorbic acid	E	31
20	Atenolol	E	15, 16
21	Atropine	E	2, 4, 27
22	Azithromycin	E	8
23	Barium sulfate	E	19
24	BCG vaccine	E	25
25	Beclomethasone (Dipropionate)	E	29,35

26	Benzalkonium (chloride)	E	19
27	Benzathine penicillin	E	7
28	Benzhexol	E	6
29	Benzoic acid+Salicylic acid	E	18
30	Benzoin Tincture	E	30
31	Benzyl benzoate	E	19
32	Benzylpenicillin G	E	7
33	Betamethasone (valerate)	E	19
34	Bisacodyl	E	22
35	Bismuth subnitrate and iodoform	E	36
36	Boric acid/ Spirit	E	35
37	Bupivacaine	E	1
38	Calamine	E	19
39	Calcium gluconate	E	31
40	Carbamazepine	E	5, 29
41	Carbimazole	E	24
42	Carbocysteine	E	30
43	Carvedilol	E	17
44	Cephalexin	E	7
45	Cetirizine	E	4
46	Cetrimide	E	20
47	Charcoal	E	4
48	Chloramphenicol	E	8, 27
49	Chlorhexidine (digluconate)	E	20
50	Chlorhexidine + Neomycin	E	35
51	Chlorine based compound	E	20
52	Chloroquine	E	3, 12
53	Chloroxylonol	E	20
54	Chlorpheniramine	E	4
55	Chlorpromazine (hydrochloride)	E	28

56	Chlorthalidone	E	20
57	Ciprofloxacin	E	8, 27
58	Citrate Phosphate Dextrose-Adenine1	E	15
59	Clofazimine	E	9
60	Clotrimazole	E	11,18,27
61	Cloxacillin	E	7
62	Coal tar	E	19
63	Codeine phosphate	E	3
64	Colchicine	E	3
65	Comprox AC + Solution Dichlormetaxyleneol (Aseptol)	E	20
66	Condoms	E	23
67	Copper Intra-Uterine Device (Cu-IUD)	E	23
68	Co-trimoxazole	E	8
69	Dapsone	E	9
70	Deferoxamine	E	5
71	Dexamethasone	E	4,22
72	Dextran 70	E	15
73	Dextran 40	E	15
74	Dextrose	E	30
75	Dextrose and sodium chloride	E	31
76	Diazepam	E	2, 5, 29
77	Diclofenac	E	3, 14
78	Diethyl Ether	E	1
79	Diethylcarbamazine	E	6
80	Digoxin	E	16,17
81	Diloxanide furoate	E	11
82	Diltiazem	E	16
83	Dimercaprol	E	5
84	Dimethicone	E	21
85	Diphenhydramine (hydrochloride)	E	30

86	Diphtheria, Pertussis and Tetanus vaccine	E	25
87	Domperidone (maleate)	E	21
88	Doxycycline	E	8, 12
89	Enalapril	E	16, 17
90	Ephedrine	E	2
91	Epinephrine	E	4, 18
92	Ergocalciferol	E	31
93	Ergometrine (hydrogen maleate)	E	28
94	Erythromycin	E	8
95	Ethambutol	E	10
96	Ethinylestradiol +Levonorgestrel	E	23
97	Ethinylestradiol+ Norethisterone	E	23
98	Fentanyl	E	3
99	Ferrous Salts (sulfate, fumarate)	E	14
100	Fluconazole	E	11
101	Flumazenil	E	5
102	Fluoxetine (hydrochloride)	E	29
103	Folic acid	E	14
104	Formaldehyde	E	20
105	Framycetin (Sulfate)	E	27
106	Furosemide	E	17, 20
107	Gelatin infusion	E	15
108	Gentamicin	E	9, 27
109	Glibenclamide	E	24
110	Gliclazide	E	24
111	Glutaraldehyde	E	20
112	Glyceryl Trinitrate	E	15
113	Haemophilus Influenzae B Vaccine	E	25
114	Haloperidol	E	28
115	Halothane	E	1

116	Hepatitis B Vaccine	E	25
117	Human Papilloma Virus Bivalent Vaccine	E	25
118	Hydralazine	E	16
119	Hydrochlorothiazide	E	17, 20
120	Hydrocortisone	E	4, 18, 19, 29
121	Hydrogen peroxide	E	20
122	Hydroxocobalamin	E	14, 31
123.	Hyoscine (butylbromide)	E	22
124.	Insulin	E	24
125.	Isoflurane	E	1
126.	Isoniazid	E	10
127.	Isoniazid & Rifampicin	E	10
128.	Isosorbide Dinitrate	E	16
129.	Isosorbide Mononitrate	E	16
130.	Ketamine	E	1
131.	Ketoconazole	E	11, 18
132.	Labetalol (hydrochloride)	E	16
133.	Levamisole	E	6
134.	Levodopa + Carbidopa	E	6
135.	Levonorgestrel	E	23
136.	Levothyroxine (sodium salt)	E	24
137.	Lignocaine	E	1, 16
138.	Magnesium hydroxide	E	21, 22
139.	Magnesium Sulfate	E	5, 22
140.	Mannitol	E	20
141.	Measles Vaccine	E	25
142.	Measles/ Mumps/ Rubella Vaccine	E	26
143.	Mebendazole	E	6
144.	Medroxyprogesterone (acetate)/depot	E	23

145.	Mefloquine	(42)	E	12
146.	Metformin (hydrochloride)		E	24
147.	Methylated spirit		E	20
148.	Methyldopa		E	17
149.	Metoclopramide (hydrochloride)		E	21
150.	Metoprolol (tartrate)		E	17
151.	Metronidazole		E	9, 11
152.	Miconazole		E	18
153.	Midazolam		E	5
154.	Misoprostol		E	28
155.	Morphine		E	3
156.	Multivitamin and Mineral preparion		E	32
157.	Naloxone		E	5
158.	Neomycin		E	9, 18
159.	Nevirapine		E	13
160.	Nicotinamide		E	32
161.	Nifedipine retard		E	17
162.	Nikethamide		E	30
163.	Nitrous oxide		E	1
164.	Norepinephrine		E	18
165.	Norethisterone		E	24
166.	Norfloxacin		E	9
167.	Nystatin		E	11, 18
168.	Omeprazole		E	21
169.	Ondansetron (hydrochloride)		E	21
170.	Oral Rehydration Salts		E	22, 30
171.	Oxygen		E	1
172.	Oxymetazoline (hydrochloride)		E	35
173.	Oxytocin		E	28
174.	Paracetamol		E	3,14

175.	Permethrin	E	19
176.	Pethidine	E	3
177.	Phenobarbital	E	6
178.	Phenoxyethyl penicillin	E	8
179.	Physiological Saline	E	31
180.	Pilocarpine (hydrochloride or nitrate)	E	27
181.	Poliomyelitis Vaccine	E	25
182.	Polymyxin B + Neomycin	E	35
183.	Potassium chloride	E	30, 32
184.	Potassium citrate	E	36
185.	Potassium Permanganate	E	19
186.	Povidone-Iodine	E	19,20
187.	Pralidoxime	E	5
188.	Prazosin (hydrochloride)	E	17
189.	Prednisolone	E	4, 22,26,27,30
190.	Primaquine	E	12
191.	Prochlorperazine	E	21
192.	Promethazine	E	2
193.	Propofol	E	1
194.	Propranolol	E	14
195.	Pyrazinamide	E	10
196.	Pyridoxine (hydrochloride)	E	32
197.	Quinine	E	12
198.	Rabies immunoglobulin (Human origin)	E	25
199.	Rabies Vaccine	E	26
200.	Ranitidine (hydrochloride)	E	21
201.	Retinol	E	32
202.	Riboflavin	E	32
203.	Rifampicin	E	9,10
204.	Ringer Lactate	E	31

205.	Salbutamol (Sulfate)	(44)	E	30
206.	Salicylic acid		E	19
207.	Silver sulphadiazine		E	19
208.	Sodium Bicarbonate		E	31
209.	Sodium bicarbonate glycerine		E	35
210.	Sodium chloride		E	30
211.	Sodium Fluoride		E	32
212.	Spirolactone		E	20
213.	Streptomycin		E	10
214.	Tetanus immunoglobulin (Human origin)		E	25
215.	Tetanus Vaccine		E	25
216.	Tetracycline Eye ointment		E	9, 27
217.	Theophylline		E	30
218.	Thiamine (hydrochloride)		E	32
219.	Thiopental		E	1
220.	Timolol (maleate)		E	27
221.	Tinidazole		E	11
222.	Typhoid, Paratyphoid A&B Vaccine with Vi antigen		E	26
223.	Verapamil (hydrochloride)		E	16
224.	Vitamin B complex		E	32
225.	Vitamin K 1		E	32

List of Essential Medicines Recommended for Tertiary Referral Level (E)*

1.	Abacavir	E*	13
2.	Atracurium	E*	26
3.	Didanosine	E*	13
4.	Efavirenz	E*	13
5.	Indinavir	E*	13
6.	Lamivudine	E*	13
7.	Lopinavir/Ritonavir	E*	13
8.	Neostigmine (metilsulphate)	E*	26
9.	Pancuronium	E*	26

(45)

10.	Pyridostigmine	E*	26
11.	Ritonavir	E*	14
12.	Stavudine	E*	13
13.	Suxamethonium chloride	E*	26
14.	Tenofovir	E*	14
15.	Tramadol	E*	3
16.	Tranexamic acid	E*	15
17.	Vecuronium bromide	E*	26
18.	Zidovudine	E*	13

List of Complementary Medicines (C)

1.	5 Fluorouracil	C	33
2.	6 Mercaptopurine	C	34
3.	Albumin (Human)	C	15
4.	Alfacalcidol (1 & Hydroxycholecalciferol)	C	31
5.	Alprazolam	C	29
6.	Anti-D immunoglobulin	C	25
7.	Asparaginase	C	34
8.	Atorvastatin	C	18
9.	Azathioprine	C	3, 26
10.	Bleomycin C	C	34
11.	Bromocriptine	C	24, 35
12.	Capreomycin	C	10
13.	Carboplatin	C	33
14.	Cefaclor	C	7
15.	Cefixime	C	7
16.	Ceftazidime	C	7
17.	Ceftriaxone	C	7
18.	Cefuroxime	C	7
19.	Chlorambucil	C	33
20.	Cinnarizine (hydrochloride)	C	21
21.	Clindamycin	C	8

22.	Clomiphene Citrate	C	23
23.	Clomipramime (hydrochloride)	C	29
24.	Clopidogrel (hydrogen sulfate)	C	18
25.	Cyclophosphamide	C	26, 33
26.	Cycloserine	C	10
27.	Dacarbazine	C	33
28.	Dactinomycin	C	34
29.	Daunorubicin	C	34
30.	Dopamine (hydrochloride)	C	17
31.	Doxorubicin	C	34
32.	Erythropoietin	C	14, 34
33.	Ethinylestradiol	C	23
34.	Ethionamide	C	10
35.	Ethosuximide	C	5
36.	Etoposide	C	34
37.	Finesteride	C	36
38.	Flucloxacillin	C	7
39.	Fluphenazine (decanoate/enantate)	C	28
40.	Fortified Procaine Penicillin G	C	8
41.	Glimepiride	C	24
42.	Glipizide	C	24
43.	Heparin	C	15
44.	Hepatitis B immunoglobulin	C	25
45.	Hydroxyurea	C	33
46.	Imipenem + cilastatin	C	8
47.	Iodine	C	32
48.	Japanese Encephalitis Vaccine	C	26
49..	Kanamycin	C	10
50.	Lactulose	C	22
51.	Levofloxacin	C	10

52.	Lincomycin	C	9
53.	Lipid Solution	C	31
54.	Lorazepam	C	29
55.	Losartan (potassium)	C	17
56.	Lugol's Iodine	C	24
57.	Meningococcal Vaccine	C	26
58.	Methadone	C	29
59.	Methyl prednisolone	C	22, 26
60.	Niclosamide	C	6
61.	Norethisterone enantate	C	23
62.	Ofloxacin	C	9, 10
63.	Penicillamine	C	4, 5,
64.	Phenytoin	C	5
65.	Polymyxin + Bacitracin + Neomycin	C	35
66.	Procarbazine	C	34
67.	Propylthiouracil	C	24
68.	Prostaglandin F2 Alpha Injection	C	28
69.	Saquinavir	C	14
70.	Simvastatin	C	18
71.	Sodium Nitrite	C	5
72.	Sodium Thiosulphate	C	5
73.	Sulfasalazine	C	4
74.	Tamoxifen	C	35
75.	Testosterone ester	C	22
76.	Tetracaine (hydrochloride)	C	28
77.	Tincture opium	C	29
78.	Tropicamide	C	27
79.	Valproic Acid	C	6, 29
80.	Vancomycin	C	9
81.	Vinblastine	C	34

82.	Vincristine	C	34
83.	Warfarin sodium	C	15
84.	Xylometazoline	C	27, 35
85.	Yellow-Fever Vaccine	C	26

List of Complementary Medicines Recommended for Tertiary Referral Level

(C)*

1.	Amikacin	C*	8,10
2.	Amiodarone	C*	16
3.	Amphotericin B	C*	11
4.	Celecoxib	C*	2
5.	Dobutamine (hydrochloride)	C*	17
6.	Ifosfamide	C*	33
7.	Levonorgestrel releasing implant	C*	23
8.	Methotrexate	C*	3, 33
9.	Netilmicin	C*	9
10.	Ribavirin	C*	13
11.	Sodium Nitroprusside	C*	17
12.	Streptokinase	C*	18
13.	Valganciclovir	C*	13