

**NATIONAL LIST OF  
ESSENTIAL MEDICINES  
NEPAL  
(FIFTH REVISION)  
2016**



**GOVERNMENT OF NEPAL  
MINISTRY OF HEALTH  
DEPARTMENT OF DRUG ADMINISTRATION**

## **Background**

- Essential medicines are those medicines that satisfy the priority health care needs of the population. WHO published the first essential medicine list in 1977 and has been updating it every two years since.
- Nepal being a signatory of the Alma Ata declaration (1978) implemented the essential medicine program with a first ever National List of Essential Medicines, NLEM in 1986.
- Since then NLEM revised five times (1992, 1997, 2002, 2011 and 2016) with the support from WHO Nepal.

## **Criteria of selection**

The main criteria for selection of the medicines in the NLEM are public health relevance (harmonizing with standard treatment schedule use in primary health care service), efficacy, safety, cost-effectiveness and access.

## **Methodology/Process Algorithm**

- Meeting of **Main committee** (for technical guidance)
- **Draft committee** working as a coordinating task force
- Opinions taken from **expert groups** (therapeutic experts-clinicians and other stakeholders).
- **Wider consultation** through organizing workshop with resource personnel, clinicians/expert, draft committee, main committee comprising policy makers and programme managers and other relevant stakeholders based on STG and Evidences
- **Draft preparation** Closer consultation for minor details and edition
- **Finalization of draft NLEM.**
- **Agenda of DAC** for Recommendation
- **Approval by the ministry**

## **Main committee (technical guidance)**

- Honorable Health Minister (MOH)
- Secretary, Ministry of Health (MOH)
- Chief, Policy, Planning and International Cooperation Division (MOH)
- Chief, Public Health Administration, Monitoring and Evaluation Division (MOH)
- Chief, Curative division (MOH)
- Director, Department of Health Services (DoHS)
- Director, Logistic Management Division (DoHS)
- Director, Primary Health Care Revitalization Division (DoHS)
- Director, National Tuberculosis Center (DoHS)
- Director, National AIDs and STD Control Centre (DoHS)
- Director, Epidemiology and Disease Control Division, (DoHS)
- Director, Child Health Division (DoHS)
- Director, National Medicine Laboratory (MOH)
- Director, Leprosy Control Section (DoHS)
- Director, Family Health Division (DoHS)
- Director, Management Division (DoHS)
- Director, Department of Ayurveda
- Chairperson, Nepal Medical Council
- WR/WHO

**Personnel Involved to coordinate and draft the List  
Facilitator**

- Mr. Santosh K.C., Drug Administrator, DDA

**Key resource person for overall guidance**

- Mr. Narayan Prasad Dhakal, Director General, DDA

**NEML Draft committee**

- Mrs. Sangita Shah, Drug Administrator, LMD
- Mr. Gorkha Bahadur DC, Pharmacy Officer, DDA
- Mr. Rajesh Shrestha, Pharmacy Officer, DDA
- Mr. Bhupendra Poudel, Pharmacy Officer, DDA
- Mr. Kiran Bajracharya, Pharmacy Officer, DDA
- Mr. Bibek Shrestha, Pharmacy Officer, DDA

**Criteria for inclusion of a medicine in NLEM will be as follows:**

- Approved/licensed medicine in the country
- Relevance for disease posing public health problem (morbidity)
- Proven efficacy and safety profile based on valid scientific evidence (evidence-based)
- Cost effective
- Aligned with STG (the current treatment guidelines under public health program)
- Stable under the storage conditions
- Preference on relative safety, efficacy, cost-effectiveness (in case there are more than one alternative)
- Fixed Dose Combinations (FDCs) with unequivocally proven advantage over Single (in terms of increasing efficacy, reducing adverse effects and/or improving compliance)
- Access, free drug, SHI

**Criteria for deletion of a medicine from NLEM will be as follows:**

- Banned in Nepal
- Reports of concerns on the safety profile of a medicine
- If better efficacy or favorable safety profiles and better cost-effectiveness is available.
- Irrelevant to public health disease burden
- Antimicrobial resistance pattern (In case of antimicrobials, if the resistance pattern has rendered a medicine ineffective in Nepalese and international context)
- Medicine with abuse and misuse potential

There were 321 medicines listed in NLEM 2011. A total of 86 medicines have been added or deleted from the NLEM 2011 in the current list. A total of 62 medicines have been added and a total of 24 medicines have been deleted from the previous list. Among the 62 added medicines 56 were added to the main list and 6 to the complementary list. The medicines added in the Antitubercular and Antiretroviral groups are added to match with the National TB programme and HIV AIDS Control Program of Government of Nepal. The new list of NLEM 2016 thus contains 359 medicines.

**Comparative Table for Addition and Deletion of Molecules in National List of Essential Medicines, 2016**

S.No.	Therapeutic Category	Total (NLEM 2011)	Deleted		Added		Total (NLEM 2016)
			M*	C**	M*	C**	
1	Anaesthetics	14			1	1	16
2	Medicines for Pain and Palliative Care	9			2		8***
3	Antihistaminics and Medicines Used in Anaphylaxis	6	1		1	1	7
4	Antidotes and Other Substances Used in Poisonings	13	1				12
5	Antiepileptics / Anticonvulsants	7		1			6
6.1	Anthelmintics	4					4
6.2	Antibacterials	45	1		3	1	48
6.3	Antifungal Medicines	3					3
6.4	Antiviral Medicines	17	1		9		25
6.5	Antiprotozoal Medicines	14	2				12
7	Antimigraine Medicines	3	1				2
8	Antineoplastic, Immunosuppressives	34			1		35
9	Antiparkinsonism Medicines	2					2
10	Medicines Affecting the Blood	9			1		10
11	Blood Products and Plasma Substitutes	4					4
12	Cardiovascular Medicines	25	3		12		34
13	Dermatological Medicines	13	2	1	3		13
14	Diagnostic Agents	5					5
15	Disinfectants and Antiseptics	8	2				6
16	Diuretics	5	1				4
17	Gastrointestinal Medicines	13			3		16
18	Hormones, Other Endocrine Medicines and Contraceptives	26	1		2		27
19	Immunologicals	22			4		26
20	Muscle Relaxants (Peripherally Acting) and Cholinerase Inhibitors	4				1	5
21	Ophthalmological, Ear, Nose and Throat Preparations	22			6	1	29
22	Oxytocics and Antioxytocics	5	1		2		6
23	Peritoneal Dialysis Solution	1					1
24	Psychotherapeutic Medicines	15	1		2		16
25	Medicines Acting on the Respiratory Tract	8	1	1			6
26	Solution Correcting Water, Electrolyte and Acid Base Disturbances	8					8

27	Vitamins and Minerals	8	2		3		9
28	Specific Medicines for Neonatal care	0			2		2
29	Medicines for Diseases of Joint	0					3***

M\* = Main list

C\*\* = Complimentary list

\*\*\*allopurinol, colchicine and methotrexate shifted to new category 29

**Table showing addition, deletion and medicines whose dose have been changed or shifted to main or complimentary list**

S.No.	Group	Name of Drug	Dosage form	List	Addition/Deletion	Molecule	Dosage form	Strength	Reason
1	Anesthetics	Sevoflurane	inhalation	C	Addition	1	1	1	Recovery is fast
		Midazolam	injection, 1 mg/ml, 5 mg/ml	M	Addition	1	1	2	Increased potency and faster recovery
2	Medicines for pain and palliative care	Ibuprofen	oral liquid, 200 mg/5ml	M	Addition	0	1	1	For Paedriatic patients
		Aspirin	tablet, 500 mg	C	Change	0	0	1	300 mg is Low therapeutic dose for analgesic and antipyretic action
		Codeine phosphate	tablet, 30 mg	M	Addition	1	1	1	Good for severe pain and post operative pain
		Paracetamol	oral drop 100 mg/ml	M	Change	0	1	1	For Paedriatic patients
		Fentanyl	injection, 50mcg/ml	M	Addition	1	1	1	50 to 100 times stronger analgesic than morphine
3	Antihistaminics and Medicine used in Anaphylaxis	Cetirizine	tablet 10 mg	M	Addition	1	1	1	Common Cost effective drug
		Chlopheniramine maleate	tablet 4 mg	M	Deletion	1	1	1	Problem with availability
		Fexofenadine	oral liquid 30mg/5ml	C	Addition	1	1	1	Effective for Paedriatic patients
4	Antidotes and Other Substances Used in Poisonings	Ethyl alcohol	injection	M	Deletion	1	1	1	Problem with availability

5	Antiepileptics / Anticonvulsants	Carbamazepine	tablet, 400 mg, oral liquid 100 mg/5ml	M	Addition	0	1	2	To address Paedriatic patients
		Valporic acid	oral liquid 200 mg/5 ml	M	Addition	0	1	1	To address Paedriatic patients
		Paraldehyde	injection, 500 mg/ml	C	Deletion	1	1	1	Problem with availability
		Phenobarbital	tablet 60 mg, injection, 200 mg/ml	M	Addition	0	2	2	To address Paedriatic patients
6.1	Anthelmintics	Niclosamide	tablet, 500 mg	M	Shift	0	0	0	
6.2	Antibacterials	Amoxicillin	dt 250 mg, powder for oral liquid	M	Addition	0	2	2	To address Paedriatic patients
		Cephalexin	capsule 250mg, dry syrup 125/250/5 ml	M	Addition	1	2	3	To increase microbial coverage
		Vancomycin	500 mg, dry powder for injection	C	Addition	1	1	1	First line treatment for complicated infections
		Linezolid	tablet, 300 mg	M	Addition	1	1	1	To address National TB Programme
		Streptomycin	inj. 75 g	M	Deletion	0	1	1	Problem with availability

		Isoniazid + rifampicin + pyrazinamide	tablet, injection	M	Change	0	0	1	To address National TB Programme
		Isoniazid + rifampicin	tablet, injection	M	Change	0	0	1	To address National TB Programme
		Bedaquiline	tablet, 100 mg	M	Addition	1	1	1	To address National TB Programme
		Pyrazinamide	sachet	M	Change	0	0	1	To address National TB Programme
		Isoniazid + rifampicin+ pyrizinamide	tablet 30+60+150	M	Deletion	1	1	1	Not in WHO model list of essential drugs
<b>6.3</b>	Antifungal Medicines	Clotrimazole	mouth paint 1% w/v	M	Addition	0	1	1	For the treatment of oral infections
		Nystatin	oral liquid 50 mg/5ml, 100000 iu/ml, mouth paint	M	Addition	0	2	2	For the treatment of oral infections
<b>6.4</b>	Antiviral Medicines	Oseltamivir	tablet, 30,45,75 mg, oral powder 6mg/ml	M	Addition	1	2	4	To address the national programme
		Acyclovir	tablet, 400/800 mg	M	Addition	0	0	2	Low therapeutic dosage
		Didanosine	capsule 250/400 mg	M	Deletion	1	1	2	Phased out

		Nevirapine	capsule 50 mg	M	Addition	0	1	1	To address National Programme
		Ritonavir	tablet 100 mg	M	Addition	1	1	1	To address National Programme
		Abacavir/lamivudine	tablet 60/30 mg	M	Addition	1	1	1	To address National Programme
		Emtricitabine/tenofovir	tablet, 200/300 mg	M	Addition	1	1	1	To address National Programme
		Lopinavir/ritonavir	tablet, 100/25 mg	M	Addition	1	1	1	To address National Programme
		Zidovudine/lamivudine	tablet, 60/30 mg	M	Addition	1	1	1	To address National Programme
		Zidovudine/lamivudine/nevirapine	tablet, 60/30/50	M	Addition	1	1	1	To address National Programme
		Entecavir	tablet, 0.5, 1 mg	M	Addition	1	1	2	To increase antiviral coverage
		Sofosbuvir	tablet, 400mg	M	Addition	1	1	1	To increase antiviral coverage
6.5	Antiprotozoal Medicines	Diloxanide	tablet, 500 mg	M	Deletion	1	1	1	Problem with availability
		Paromomycin	injection, 750 mg	M	Deletion	1	1	1	Problem with availability
7	Antimigraine Medicines	Ergometrine	tablet 1 mg	M	Deletion	1	1	1	Not preferred drugs
8	Antineoplastic, Immunosuppressives	Etoposide	tablet, 100 mg	M	Addition	0	1	1	Oral form addition
		Methotrexate	tablet, 5,10 mg	M	Addition	0	0	2	Dosage form addition
		Procarbazine	tablet, 50 mg	M	Addition	1	1	1	Increase coverage

		Bleomycin	powder for injection, 15 mg	M	Shift	0	0	0	
<b>10</b>	Medicines Affecting the Blood	Enoxaparin	injection 30,60,80 mg	M	Addition	1	1	3	INR monitoring not needed as heparin
<b>12</b>	Cardiovascular Medicines	Atenolol	tablet, 50 mg, 100	M	Deletion	1	1	2	Other safer alternative available
		Aspirin	tablet 150, 300 mg	M	Addition	0	1	2	Addition of approved doses
		Metoprolol	tablet, 12.5/25/50 mg	M	Addition	1	1	3	Safer than atenolol
		Metoprolol	12.5/25/50 mg	M	Addition	1	1	3	Safer than atenolol
		Atenolol	tablet 25,50,100 mg	M	Deletion	1	1	3	Not preferred choice of drug
		Amiodarone	tablet 100 mg, injection 50mg/ml	M	Addition	1	2	2	Preferred choice
		Hydralazine	injection, 20 mg	M	Addition	1	1	1	For hypertensive emergencies
		Amlodipine	tablet, 2 .5, 5 mg	M	Addition	1	1	2	Common Cost effective drug
		Losartan	tablet, 25, 50 mg	M	Addition	1	1	2	Common Cost effective drug
		Atenolol	tablet 25 mg	M	Addition	0	0	1	Common Cost effective drug

		Labetalol	injection, 5 mg/ml	M	Addition	1	1	1	For hypertensive emergencies in pregnancies
		Enalapril	tablet, 5,10,20 mg	M	Deletion	1	1	3	Replaced with ramipril
		Ramipril	tablet, 2.5, 5 mg	M	Addition	1	1	2	Replaced for enalapril
		Frusemide	tablet, 20/40 mg, injection 10mg/ml	M	Addition	1	2	3	Preferred choice
		Spirolactone	tablet 25 mg	M	Addition	1	1	1	Preferred choice
		Clopidogrel	tablet, 75 mg	M	Addition	1	1	1	Common Cost effective drug
		Fenofibrate	tablet 80, 160 mg	M	Addition	1	1	2	Common Cost effective drug
<b>13</b>	Dermatological Medicines	Selenium sulfide	suspension 2%	C	Deletion	1	1	1	Frequently causes irritations
		Fluconazole	capsule, 150 mg	M	Addition	1	1	1	Common Cost effective drug
		Mupirocin	cream/oint 2%	M	Addition	1	1	1	Increase coverage due to broad spectrum coverage
		Salicylic acid	cream 10,20,40%	M	Addition	1	1	3	Common Cost effective drug
		Coal tar	solution 5%	M	Deletion	1	1	1	Not preferred choice of drug
<b>15</b>	Disinfectants and Antiseptics	Lindane	lotion 1%	M	Deletion	1	1	1	Phased out
		Permethrin	5 % lotion	M	Shift	0	0	0	
		Povidine iodine	solution 10%	M	Addition	0	0	1	Common Cost effective drug

		Formaldehyde	solution 3%	M	Deletion	1	1	1	Phased out
		Cetrimide	solution 20%	M	Deletion	1	1	1	Not preferred choice of drug
16	Diuretics	Triamterene	tablet, 50 mg	M	Deletion	1	1	1	Not preferred choice of drug
17	Gastrointestinal Medicines	Granisetron	tablet, 1, 2 mg	M	Addition	1	1	2	Antiemetics for cancer patients
		Isobgol husk	oral powder	M	Addition	1	1	1	Common laxatives
		Drotaverine hydrochloride	tablet 40/80 mg	C	Addition	1	1	2	Common Cost effective drug
18	Hormones, Other Endocrine Medicines and Contraceptives	Ethinylestradiol +levonorgestrel	20/1000 mcg*	M	Addition	0	0	1	Low therapeutic dosage
		Silicon ring pessaries		M	Addition	1	1	1	Preferred choice
		Gibenclamide	tablet, 2.5, 5 mg	M	Deletion	1	1	2	Not preferred choice of drug
		Glicazide	tablet, 40, 80 mg	M	Addition	1	1	2	Common Cost effective drug
		Metformin	tablet 850 mg	M	Addition	0	0	1	Increase the range
		Levothyroxine	tablet, 25,50,75 mcg	M	Addition	0	0	3	Increase the range
19	Immunologicals	Diphtheria antitoxin		M	Addition	1	1	1	Request from health services

		Rotavirus		M	Addition	1	1	1	Request from health services
		Pneumococcal		M	Addition	1	1	1	Request from health services
		Hpv		M	Addition	1	1	1	To cover the national programme
<b>20</b>	Muscle Relaxants (Peripherally Acting) and Cholinerase Inhibitors	Atracurium	powder for injection, 25,50,100 mg	C	Addition	1	1	3	To increase the range
<b>21</b>	Ophthalmologica l, Ear, Nose and Throat Preparations	Fluconazole	eye drop, 0.3 %	M	Addition	1	1	1	To cover antifungal range
		Propacaine	eye drop, 0.5 %	M	Addition	1	1	1	Not in Formal list
		Clotrimazole	ear drops 1%	M	Addition	1	1	1	To cover antifungal range
		Ofloxacin	eye drop 0.3 %	C	Addition	1	1	1	To increase antibacterial range
		Ciprofloxacin	drop 0.3%	M	Addition	1	1	1	To increase antibacterial range
		Betamethasone	ear drops 0.5 %	M	Addition	1	1	1	Common choice
		Benzocaine	solution 20%	M	Addition	1	1	1	Local anesthetics for Dental not in formal list
<b>22</b>	Oxytocics and Antioxytocics	Isoxsuprine hydrochloride	injection 5mg/ml	M	Deletion	1	1	1	Safer alternative available
		Nefedipine	capsule 10 mg	M	Addition	1	1	1	Safer in pregnancy

		Terbutaline	injection, 0.5 mg/ml	M	Addition	1	1	1	Common choice
24	Psychotherapeutic Medicines	Chlorpromazine	injection, 25mg/ml	M	Deletion		1	1	Not easily available
		Olanzapine	tablet, 2.5,5,10 mg	M	Addition	1	1	1	Relatively safer
		Alprazolam	tablet 0.25, 0.5, 1 mg	M	Deletion	1	1	3	Safer alternative available
		Lorazepam	tablet, 1,2 mg	M	Addition	1	1	2	Longer duration of action than Diazepam
25	Medicines Acting on the Respiratory Tract	Chromoglicic acid	inhalation, 5 mg, 20 mg	M	Deletion	1	1	2	Not common
		Theophylline	tablet, 300 mg	C	Deletion	1	1	1	Safer alternative available
		Sodiumbicarbonate	injection, 7.5% solution	M	Change	0	0	0	
27	Vitamins and Minerals	Ascorbic acid	tablet, 500 mg	M	Change	0	0	0	
		Vitamin B complex		M	Deletion	1	1	1	Not essential
		Thiamine	tablet, 100 mg	M	Addition	1	1	1	Single vitamin
		Cynocobalamin	injection, 30 mcg/ml	M	Addition	1	1	1	Single vitamin
		Retinol + DL-alpha-tocopherol	retinol (as palmitate)+dl-alpha-tocopherol or tocopheryl acetate, soft gel capsule, 200 000 iu+ 40 iu, 100 000 iu+ 20 iu, 50 000 iu+ 20 iu	M	Deletion	1	1	1	Vitamin E not in therapeutic dose

		Calcium	tablet 500 mg	M	Addition	1	1	1	Single mineral
		Caffine citrate	injection, 20 mg/ml	M	Addition	1	1	1	For Paedriatic patients
<b>28</b>	Specific Medicines for Neonatal care	Chlorohexidine	solution/ gel 7.1 %	M	Addition	1	1	1	For Paedriatic patients
		Allopurinol	300 mg		Addition	0	0	1	Increase the range
<b>29</b>	Medicines for Diseases of Joint								
					<b>total</b>	<b>86</b>	<b>106</b>	<b>158</b>	

# National List of Essential Medicines, 2016

	Main List	Complementary List	Dosage Form
<b>1.</b>	<b>Anaesthetics</b>		
<b>1.1</b>	<b>General Anaesthetics and Oxygen</b>		
	Halothane		inhalation
	Isoflurane		inhalation
	Ketamine		injection, 50 mg/ml (as hydrochloride) in 10-ml vial
	Nitrous oxide		inhalation
	Oxygen		inhalation (medicinal gas)
	Thiopental		powder for injection, 0.5g, 1.0g (sodium salt) in ampoule
		Propofol	injection, 10mg/ml in 20-ml ampoule
		Sevoflurane	inhalation
<b>1.2</b>	<b>Local Anaesthetics</b>		
	Bupivacaine		injection, 0.25%, 0.5% (hydrochloride) in vial
	Lidocaine (lignocaine)		injection, 1%, 2% (hydrochloride) in vial; injection for spinal anaesthesia, 5% (hydrochloride) in 2-ml ampoule to be mixed with 7.5% glucose solution
	Lidocaine (lignocaine) + epinephrine (adrenaline)		injection, lignocaine 2% (hydrochloride) + epinephrine 1:200 000, in vial
		Ephedrine*	injection, 30 mg (hydrochloride)/ml in 1-ml ampoule
	<i>*For use in spinal anaesthesia during delivery, to prevent hypotension</i>		
<b>1.3</b>	<b>Preoperative Medication and Sedation for Short-term Procedures</b>		
	Atropine		injection, 1 mg (sulfate) in 1-ml ampoule
	Diazepam		injection, 5mg/ml in 2-ml ampoule
	Midazolam		injection, 1mg/ml, 5mg/ml with/out preservative
	Morphine		injection, 10 mg (sulfate or hydrochloride) in 1-ml ampoule

## 2 Medicines for Pain and Palliative Care

### 2.1. Non-opioid Analgesics & NSAIDs

Ibuprofen	tablet, 200 mg, 400 mg, Oral liquid, 100 mg/5ml
Paracetamol	tablet, 500mg; injection, 150 mg/ml in 2-ml ampoule, 10 mg/ml in 100 ml bottle; suspension, 125 mg/5ml
Aspirin	tablet, 500 mg
Diclofenac Sodium	tablet, 50 mg, injection 25 mg/ml

### 2.2. Opioid Analgesics

Codeine	tablet, 30 mg (as phosphate)
Fentanyl	injection, 50mcg/ml
Morphine	injection, 10 mg (sulfate or hydrochloride) in 1-ml ampoule; tablet, 10 mg; prolonged release tablet, 10 mg, 30 mg, 60 mg (sulfate); oral liquid 10 mg/5ml (sulfate)
Pethidine	injection, 50 mg (hydrochloride) in 1-ml ampoule

## 3 Antihistaminics and Medicines Used in Anaphylaxis

Cetirizine	tablet 10 mg,
Dexamethasone	injection, 4 mg dexamethasone phosphate (as disodium salt) in 1-ml ampoule
Epinephrine (adrenaline)	injection, 1mg (as hydrochloride or acid tartrate) in 1-ml ampoule
Hydrocortisone	powder for injection, 100 mg (as sodium succinate) in vial
Pheniramine	tablet, 25, 50 mg, injection, 22.75 mg (maleate) /ml
Prednisolone	tablet, 5mg
Fexofenadine	oral Solution, 30mg/5 ml

## 4 Antidotes and Other Substances Used in Poisonings

### 4.1 Non-Specific

Charcoal, activated	powder; oral liquid (sorbitol-base slurry)
---------------------	--

### 4.2 Specific

Atropine	injection, 1 mg (sulfate) in ampoule; powder for
----------	--

Dimercaprol	injection 50 mg (sulfate) in vial
Naloxone	injection in oil, 50 mg/ml in 2-ml ampoule
	injection, 400 mcg (hydrochloride) in 1-ml ampoule
Pralidoxime	injection, 500 mg or 1 g (mesilate, chloride or iodide) in ampoule
Acetylcysteine	injection, 200 mg/ml in 10-ml ampoule
Calcium gluconate	injection, 100 mg/ml in 10-ml ampoule
Deferoxamine	powder for injection, 500 mg (mesilate) in vial
Methylthioninium chloride (Methylene blue)	injection, 10 mg/ml in 10-ml ampoule
Potassium ferric hexacyanoferrate (II).2H <sub>2</sub> O (Prussian blue)	powder for oral administration
Sodium calcium edetate	injection, 200 mg/ml in 5 ml ampoule
Sodium nitrite	injection, 30 mg/ml in 10-ml ampoule

## 5. Antiepileptics / Anticonvulsants

Carbamazepine	tablet, 100, 200 mg, 400 mg, Oral liquid 100mg/5ml
Diazepam	injection, 5mg/ml in 2- ml ampoule (intravenous or rectal)
Magnesium sulfate*	injection, 500 mg/ml in 2-ml ampoule.
<i>* For use in eclampsia and severe pre-eclampsia and not for other convulsant disorders.</i>	
Phenobarbital	tablet, 15 mg, 30 mg, injection 200mg/ml
Phenytoin	capsule or tablet, 25 mg, 50 mg, 100 mg (sodium salt); injection, 50 mg /ml (sodium salt) in 5-ml vial
Valproic acid	tablet (enteric coated), 200 mg (sodium salt), Oral liquid 200mg/5ml

## 6 Anti-infective Medicines

### 6.1 Anthelmintics

#### 6.1.1 Intestinal Anthelmintics

Albendazole	tablet (chewable), 400 mg
Niclosamide	tablet (chewable), 500 mg

	Praziquantel	tablet, 150 mg, 600 mg
<b>6.1.2</b>	<b>Antifilarials</b>	
	Diethylcarbamazine	tablet, 50 mg, 100 mg (dihydrogen citrate)
<b>6.2</b>	<b>Antibacterials</b>	
<b>6.2.1</b>	<b>Beta-lactam medicines</b>	
	Amoxicillin	capsule or tablet, 250 mg, 500 mg (as trihydrate); dispersible tablet 125 mg (as trihydrate), powder for oral liquid, 125 mg/1ml
	Ampicillin	powder for injection, 500 mg (sodium salt)
	Benzathine benzylpenicillin	powder for injection, 600 000 IU, 1200 000 IU, 2400 000 IU in vial
	Benzylpenicillin (Penicillin G)	powder for injection, 300 mg (0.5 million IU), 600 mg (1 million IU) (as sodium or potassium salt) in vial
	Cephalexin	Capsule 250 mg (as monohydrate), Oral liquid 125/5 ml, 250/5 ml (anhydrous)
	Cefixime	tablet, 200,400* mg
	<i>*only listed for single-dose treatment of uncomplicated ano-genital gonorrhoea</i>	
	Cloxacillin	capsule, 250 mg, 500 mg; powder for oral liquid, 125 mg / 5ml; powder for injection, 500 mg (as sodium salt) in vial
	Phenoxymethylpenicillin (Penicillin V)	tablet, 250 mg (as potassium salt); powder for oral liquid, 250 mg/5 ml (as potassium salt)
	Procaine benzylpenicillin	powder for injection, 300,000 IU in vial
	Cefazolin*	powder for injection, 1g (as sodium salt) in vial
	<i>*For surgical prophylaxis</i>	
	Ceftriaxone	powder for injection, 250 mg (as sodium salt) in vial
<b>6.2.2</b>	<b>Other Antibacterials</b>	
	Azithromycin	capsule or tablet 250 mg, 500 mg; oral liquid, 200 mg /5ml.
	Chloramphenicol	capsule, 250 mg, 500 mg; oral liquid, 125 mg / 5ml (as palmitate); powder for injection, 1g (as sodium succinate) in vial

Ciprofloxacin	tablet, 250 mg, 500 mg (as hydrochloride)
Doxycycline	capsule, 100 mg (as hydrochloride)
Gentamicin	injection, 10 mg, 40 mg / ml (as sulfate) in 2-ml vial
Metronidazole	tablet, 200 mg, 400 mg; injection, 500 mg in 100-ml bottle; oral liquid, 100 mg, 200 mg (as benzoate) / 5ml
Nitrofurantoin	tablet, 100 mg
Sulfamethoxazole+Trimethoprim	dispersible tablet, 100mg+20 mg, 200 mg+ 40 mg; tablet 400 mg + 80 mg, 800 mg + 160 mg; oral liquid, 200mg + 40mg /5ml
Erythromycin	tablet, 250 mg (stearate); oral liquid, 250 mg / 5ml (stearate)
Nalidixic acid	tablet, 250 mg, 500 mg
Tetracycline	capsule 250 mg, 500 mg (as hydrochloride)
Vancomycin	powder for inj. 250 mg (as hydrochloride) in vial

### 6.2.3 Antileprosy Medicines

Clofazimine	capsule, 50 mg, 100 mg
Dapsone	tablet, 50 mg, 100 mg
Rifampicin	capsule or tablet 150 mg, 300 mg

*(For the treatment of leprosy, combination therapy is essential to prevent the emergence of drug resistance)*

### 6.2.4 Antitubercular Medicines

Ethambutol	tablet, 100 mg, 400 mg, 600 mg (hydrochloride)
Ethambutol + Isoniazid	tablet, 400mg + 150mg
Ethambutol + Rifampicin +Isoniazid	tablet, 275 mg + 150 mg+ 75 mg
Ethambutol + Rifampicin +Isoniazid+ Pyrazinamide	tablet, 275 mg+150 mg+ 75 mg + 400 mg
Isoniazid	tablet, 50mg, 100 mg, 300 mg
Isoniazid + Rifampicin	tablet, 60 mg+60 mg, 50 mg+75mg, 75 mg + 150mg
Isoniazid + Rifampicin + Pyrazinamide	tablet, 30 mg+ 60 mg+150 mg, 50 mg+75 mg+150 mg
Rifampicin	capsule or tablet, 150mg, 300mg, 450 mg
Streptomycin	powder for injection, 1 g (as sulfate) in vial

**Complementary list:** Second-line medicines for the treatment of multi-drug resistant tuberculosis (MDR-TB) – to be made available only in specialised centres adhering to standard treatment protocol.

Amoxicillin + Clavulanic acid	tablet, 500 mg + 125 mg, 875 mg+125 mg
Bedaquiline	tablet, 100mg
Capreomycin	powder for injection, 1 g in vial
Clofazimine	capsule, 100 mg
Cycloserine	capsule, 250 mg
Ethionamide	tablet, 125, 250 mg
Kanamycin	powder/solution for injection 1 g in vial/ampoule
Levofloxacin*	tablet, 250 mg, 500 mg
Linezolid	tablet 300 mg
Moxifloxacin*	tablet, 400 mg
Ofloxacin*	tablet, 200 mg
<i>*To be decided based on availability and programme considerations.</i>	
P-aminosalicylic acid (PAS)	granules, 4 g, 9.2 g in sachet; tablet 500 mg
Pyrazinamide	tablet, 150 mg, 400 mg, 500 mg

### 6.3 Antifungal Medicines

Clotrimazole	cream, 1%; pessary 100 mg, mouth paint 1%w/v
Fluconazole	capsule or tablet, 150 mg
Nystatin	oral liquid 50 mg/5 ml, 100000IU/ml_mouth paint

### 6.4 Antiviral Medicines

#### 6.4.1 Antiherpes Medicines

Aciclovir	powder for injection 250 mg (as sodium salt) in vials; tablet 200/400/800 mg
-----------	--

#### 6.4.2 Antiretrovirals

##### 6.4.2.1 Nucleoside/Nucleotide Reverse Transcriptase Inhibitors

Abacavir (ABC)	tablet, 300 mg (as sulfate); oral liquid, 100 mg (as sulfate)/5ml
Lamivudine (3TC)	tablet, 150 mg; oral liquid 50 mg/5ml
Stavudine (d4T)	capsule, 15 mg, 20 mg, 30 mg; powder for oral

	Tenofovir disoproxil fumarate (TDF)	liquid, 5 mg/5ml tablet, 300 mg (equivalent to 245 mg tenofovir disoproxil)
	Zidovudine (ZDV or AZT)	capsule, 100 mg; tablet 300 mg; oral liquid 50 mg/ 5ml
<b>6.4.2.2</b>	<b>Non-nucleoside Reverse Transcriptase Inhibitors</b>	
	Efavirenz (EFV or EFZ)	capsule, 200 mg; tablet, 600 mg
	Nevirapine (NVP)	tablet, 200 mg; oral liquid, 50 mg/5ml, 50 MG
<b>6.4.2.3</b>	<b>Protease Inhibitors</b>	
	Indinavir (IDV)	capsule, 400 mg (as sulfate)
	Lopinavir + Ritonavir (LPV/r)	capsule 200 mg + 50 mg
	Nelfinavir (NFV)	tablet, 250 mg (as mesilate)
	Ritonavir	tablet 100 mg
	Saquinavir (SQV) +Ritonavir	oral dosage form, 1g+100 mg
<b>6.4.2.4</b>	<b>Fixed-dose Combination</b>	
	Abacavir + Lamivudine	tablet, 60mg + 30 mg
	Emtricitabine + Tenofovir	tablet, 200mg + 300 mg
	Lamivudine + Stavudine	tablet, 150 mg + 30 mg
	Lopinavir + Ritonavir	tablet, 100 mg + 25 mg
	Stavudine + Lamivudine + Nevirapine	tablet, 30 mg + 150 mg + 200 mg
	Zidovudine + Lamivudine	tablet, 60 mg + 30 mg, 300 mg + 150 mg
	Zidovudine + Lamivudine + Nevirapine	tablet, 60 mg + 30 mg + 50 mg, 300 mg + 150 mg + 200 mg
<b>6.4.3</b>	<b>Other antiviral</b>	
	Entecavir	tablet 0.5, 1 mg
	Oseltamivir	Capsule, 30/45/75 mg as phosphate, Oral powder 6 mg/ml
	Sofosbuvir	tablet 400 mg
<b>6.5</b>	<b>Antiprotozoal Medicines</b>	
<b>6.5.1</b>	<b>Antiamoebic and Antigiardiasis Medicines</b>	
	Metronidazole	tablet, 200mg, 400mg; oral liquid, 200 mg (as benzoate) / 5 ml.
	Tinidazole	tablet, 500mg
<b>6.5.2</b>	<b>Antileishmaniasis Medicines</b>	

Miltefosine		capsule, 50 mg
	Amphotericin B	powder for injection, 50 mg in vial (as deoxycholate or liposomal)
	Sodium stibogluconate	injection, 100mg/ml

### 6.5.3 Antimalarial Medicines

Artemether\* oily injection, 80 mg/ml in 1-ml ampoule.

\* *For use in the management of severe malaria.*

Artemether+lumefantrine\* tablet, 20 mg+ 120 mg

\* *Not recommended in the first trimester of pregnancy or in children below 5 kg.*

Artesunate injection, ampoules, containing 60 mg anhydrous artesunic acid with a separate ampoule of 5% sodium bicarbonate solution; tablet 50 mg

*(To be used in combination with Sulfadoxine + Pyrimethamine.)*

Chloroquine tablet, 150 mg base (as phosphate or sulfate); oral liquid, 50 mg / 5ml (as phosphate or sulfate); injection, 40mg /ml in 5- ml ampoule (as phosphate, sulfate or hydrochloride)

Primaquine tablet, 7.5 mg, 15 mg (as diphosphate)

Sulfadoxine + Pyrimethamine tablet, 500 mg + 25 mg

*(To be used only in combination with Artesunate.)*

Quinine tablet, 300 mg (as bisulfate or sulfate); injection, 300 mg (as dihydrochloride)/ ml in 2-ml ampoule.

## 7 Antimigraine Medicines

### 7.1 For Treatment of Acute Attack

Paracetamol tablet, 500 mg

### 7.2 For Prophylaxis

Propranolol tablet 20 mg, 40 mg (hydrochloride)

## 8 Antineoplastic, Immunosuppressives and Medicines Used in Palliative Care

### 8.1 Immunosuppressive Medicines

Cyclosporin capsule 25 mg

### 8.2 Cytotoxic Medicines

Calcium folinate (Calcium leucovorin) tablet, 15 mg

Chlorambucil tablet, 2 mg, 5 mg

Cisplatin		powder for injection, 10 mg, 50 mg in vial.
Cyclophosphamide		tablet, 25 mg; powder for injection, 200 mg, 500 mg, 1 g in vial
Cytarabine		injection 100 mg, 500 mg in vial
Dacarbazine		powder for injection, 100 mg in vial
Dactinomycin		powder for injection, 500 mcg in vial
Daunorubicin		powder for injection 20 mg (as hydrochloride) in vial
Doxorubicin		powder for injection, 10 mg, 50 mg in vial
Epirubicin		injection, 10 mg, 50 mg (hydrochloride) in vial
Etoposide		tablet, 100 mg, injection 20 mg/ml in 5-ml ampoule
Fluorouracil		injection 50 mg/ml in 5-ml, 10-ml ampoule
Hydroxy urea		capsule 500 mg
Ifosfamide + Mesna		injection, 1g + 200 mg, in vial
Lomustine		capsule, 40 mg
Melphalan		tablet, 2 mg, 5 mg; powder for injection, 50mg in vial
Mercaptopurine		tablet, 50 mg
Methotrexate		tablet, 2.5/5/10 mg (as sodium salt); powder for injection 15 mg, 50 mg (as sodium salt) in vial
Mitomycin		powder for injection, 2mg, 10mg, 20mg in vial
Mitoxantrone		injection, 2 mg/ml in 10ml ampoule
Procarbazine		capsule 50 mg (as hydrochloride)
Vinblastine		powder for injection 10 mg (sulfate) in vial
Vincristine		powder for injection, 1 mg (sulfate) in vial
	Bleomycin	powder for injection, 15mg (as sulfate) in vial
	Carboplatin	injection 150 mg, 450 mg in vial

### 8.3 Hormones and Antihormones

Hydrocortisone		powder for injection, 100 mg (as sodium succinate) in vial
Tamoxifen		tablet, 20 mg (as citrate)
	Bicalitumide	tablet or capsule 50 mg
	Dexamethasone	Dexamethasone phosphate 4 mg /ml (as sodium

	Prednisolone	salt) in 2-ml ampoule tablet, 5 mg, 10 mg, 20 mg
<b>8.4</b>	<b>Miscellaneous</b>	
	Granulocyte Colony Stimulating Factor (GCSF)	injection, 30 million unit in vial
	Interferon	injection, 5 million units/ml in vial
	L-Asparaginase	injection, 5 000 IU, 10 000 IU in vial
	Ondansetron	injection, 2 mg/ml (as hydrochloride) in 2-ml, 4-ml vial; tablet 2mg, 4mg (as hydrochloride)
<b>9</b>	<b>Antiparkinsonism Medicines</b>	
	Levodopa + Carbidopa	tablet, 100 mg + 10 mg, 250 mg + 25 mg
	Trihexyphenidyl (benzhexol)	tablet, 2 mg (hydrochloride)
<b>10</b>	<b>Medicines Affecting the Blood</b>	
<b>10.1</b>	<b>Antianaemia Medicines</b>	
	Ferrous sulfate*	tablet, equivalent to 60 mg iron; oral liquid, equivalent to 25 mg iron/ ml
	Ferrous sulfate*+Folic acid	tablet, equivalent to 60 mg Iron+ 400 mcg Folic acid, oral drop.
	<i>*Ferrous fumarate may be used</i>	
	Folic acid	tablet, 5mg
	Iron Dextran	injection, equivalent to 50 mg iron/ml in 2-ml ampoule
<b>10.2</b>	<b>Medicines Affecting Coagulation</b>	
	Enoxaparin	injection 30mg/0.3ml, 60mg/0.6ml, 80mg/0.8ml
	Heparin sodium	injection, 1000 IU/ml, 5000 IU/ml,20000IU/ml in 1-ml ampoule
	Phytomenadione	injection, 10mg /ml in 5-ml ampoule; tablet 10 mg
	Protamine sulfate	injection, 10mg/ml in 5-ml ampoule
	Warfarin	tablet, 1 mg, 2 mg, 5 mg (sodium salt)
	Acenocoumarol	tablet, 1mg
<b>11</b>	<b>Blood Products and Plasma Substitutes</b>	
<b>11.1</b>	<b>Plasma Substitutes</b>	
	Albumin, human	injectable solution, 20 or 25%
	Polygeline	injectable solution, 3.5%

## 11.2 Plasma Fractions For Specific Use

Factor VIII Concentrate	dried concentrate
Factor IX complex	dried concentrate

## 12 Cardiovascular Medicines

### 12.1 Antianginal Medicines

Glyceryl trinitrate	tablet (sublingual), 500 mcg
Isosorbide dinitrate	tablet (sublingual), 5 mg, 10 mg
Metoprolol	tablet, 12.5,25,50 mg
Verapamil	tablet, 40 mg, 80 mg (hydrochloride); injection, 2.5 mg / ml in 2-ml ampoule

### 12.2 Antiarrhythmic Medicines

Amiodarone	tablet 100 mg, injection 50mg/ml
Digoxin	tablet, 62.5 mcg, 250 mcg; oral liquid, 50 mcg / ml; injection, 250 mcg / ml in 2-ml ampoule
Epinephrine (Adrenaline)	100 mcg/ml (as acid tartrate or hydrochloride) in 10 ml ampoule
Isoprenaline	injection, 1 mg (hydrochloride)/ml in vial
Lidocaine (Lignocaine preservative free)	injection 2 % (hydrochloride) in vial
Metoprolol	tablet, 12.5,25,50 mg
Disopyramide	capsule, 100 mg, 150 mg
Procainamide	tablet, 250 mg (hydro- chloride); injection, 100 mg /ml in 10-ml ampoule

### 12.3 Antihypertensive Medicines

Amlodipine	tablet 2.5, 5 mg
Atenolol	tablet 25, 50,100 mg
Enalapril	tablet, 5 mg, 10 mg, 20 mg
Hydralazine	injection 20 mg
Hydrochlorothiazide	tablet, 25 mg, 50 mg
Labetalol	injection 5 mg/ml 20 ml
Losartan	tablet, 25, 50mg
Methyldopa*	tablet, 250 mg
* Listed for the use in the management of pregnancy induced hypertension only	
Nifedipine	sustained release tablet, 10 mg, 20 mg
Prazosin	sustained release tablet 500 mcg, 1mg (mesilate)



<b>13.4</b>	<b>Medicines Affecting Skin Differentiation and Proliferation</b>	
	Benzoyl peroxide	cream or lotion, 5%
	Salicylic acid	cream 10, 20, 40%
<b>13.5</b>	<b>Scabicides and Pediculicides</b>	
	Permethrin	lotion 1%, cream 5%
<b>14</b>	<b>Diagnostic Agents</b>	
<b>14.1</b>	<b>Ophthalmic Medicines</b>	
	Fluorescein	eye drops, 1%, 2% (sodium salt); injection, 10%, 20% (sodium salt) in 5-ml ampoule
<b>14.2</b>	<b>Radiocontrast Media</b>	
	Amidotrizoate	injection, 140-420 mg iodine/ml (as sodium or meglumine salt) in 20, 50 ml ampoule
	Barium sulfate	100-250% w/v in aqueous suspension
	Iohexol	injection, 140-350 mg iodine/ml in 10/20 ml ampoule
	Meglumine iotroxate	solution, 5-8 g iodine in 100-250 ml
<b>15</b>	<b>Disinfectants and Antiseptics</b>	
<b>15.1</b>	<b>Antiseptics</b>	
	Chlorhexidine	solution, 5% (digluconate) for dilution, solution* or ointment, 4 %
	*Only for umbilical cord stump care	
	Gentian violet (Methylrosanilinium chloride)	aqueous solution, 1%
	<i>(Powder may be supplied for preparation of solution at the health facility)</i>	
	Povidone iodine	solution, 5%, 10 % w/v
	Rectified spirit	liquid (90 % v/v)
<b>15.2</b>	<b>Disinfectants</b>	
	Chlorine based compound	powder, (0.1% available chlorine) for solution
	Glutaraldehyde	solution, 2%
<b>16</b>	<b>Diuretics</b>	
	Furosemide	tablet, 40 mg; injection, 10 mg/ml in 2-ml ampoule
	Hydrochlorothiazide	tablet, 25mg, 50 mg
	Mannitol	injectable solution, 10%, 20%



## 17.5.2 Medicine for Diarrhoea in Children

Zinc sulfate\* dispersible tablet, equivalent to Zinc 10 mg, 20 mg (scored)

*\* In acute diarrhoea, zinc sulfate should be used as an adjunct to oral rehydration salts*

Zinc sulfate oral solution, 10 mg/5ml in 50- ml bottle

## 17.6 Antispasmodic Medicines

Hyoscine butylbromide tablet, 10 mg, 20 mg; injection, 20 mg/ml in 1-ml ampoule

Drotaverine hydrochloride tablet 40/80 mg

## 18 Hormones, Other Endocrine Medicines and Contraceptives

### 18.1 Adrenal Hormones and Synthetic Substitutes

Dexamethasone tablet, 500 mcg; injection, 4 mg/ml  
dexamethasone phosphate (as sodium phosphate) in 1-ml ampoule

Hydrocortisone powder for injection, 100 mg (as sodium succinate) in vial; tablet, 10 mg, 20 mg

Prednisolone tablet, 5 mg, 10 mg

Fludrocortisone tablet, 100 mcg (acetate)

### 18.2 Androgens

Testosterone injection, 200 mg in 1-ml ampoule

### 18.3 Contraceptives

#### 18.3.1 Oral Hormonal Contraceptives

Ethinylestradiol + Levonorgestrel tablet, 30 mcg +150 mcg, 20 mcg +1.0 mg.

Ethinylestradiol + Norethisterone tablet, 35 mcg + 1.0 mg,

Levonorgestrel tablet, 750 mcg (pack of two), 1.5 mg)

#### 18.3.2 Injectable Hormonal Contraceptive

Medroxyprogesterone acetate depot injection, 150 mg / ml in 1-ml vial

#### 18.3.3 Intrauterine Devices

Copper-containing devices

<b>18.3.4</b>	<b>Barrier Methods</b>	
	Condoms	
<b>18.3.5</b>	<b>Implantable Contraceptives</b>	
	Hormonal intrauterine device – multiple advantages	
	Intrauterine device with progestogen	
	Levonorgestrel-releasing implant	two-rod levonorgestrel-releasing implant, each rod containing 75 mg of levonorgestrel (150 mg total)
<b>18.3.6</b>	<b>Miscellaneous</b>	
	Ring pessary	
	Silicon ring pessary	
<b>18.4</b>	<b>Estrogens</b>	
	Ethinylestradiol	tablet, 50 mcg
<b>18.5</b>	<b>Insulins and Other Antidiabetic Agents</b>	
	Gliclazide	tablet 40,80 mg
	Insulin (soluble)	injection, 40 IU / ml in 10- ml vial
	Intermediate acting insulin	injection, 40 IU / ml in 10- ml vial (as compound insulin zinc suspension or isophane insulin)
	Metformin	tablet, 500 mg (hydrochloride), 850 mg
	Glipizide	tablet, 2.5 mg, 5 mg
<b>18.6</b>	<b>Ovulation Inducers</b>	
	Clomifene	tablet, 50 mg (citrate)
<b>18.7</b>	<b>Progestogens</b>	
	Norethisterone	tablet, 5 mg
	Medroxyprogesterone acetate	tablet, 5 mg
<b>18.8</b>	<b>Thyroid Hormones and Antithyroid Medicines</b>	
	Carbimazole	tablet, 5 mg
	Levothyroxine	tablet, 25, 50, 75, 100 mcg (sodium salt)
	Lugol's Iodine	oral solution (Iodine 5%+Potassium iodide 10%)
<b>18.9</b>	<b>Posterior Pituitary Hormone</b>	
	Desmopressin	injection, 4 mcg/ml; nasal spray 10 mcg / metered spray

## 19 Immunologicals

### 19.1 Diagnostic Agents

Tuberculin, purified protein derivative (PPD) injection

### 19.2 Sera and Immunoglobulins

Anti-D immunoglobulin (human) injection, 250 mcg in single dose vial

Antirabies hyperimmune serum injection, 1000 IU in 5-ml ampoule

Polyvenum antislake serum injection in vial

Tetanus antitoxin injection, 1 000 IU/ml, 3000 IU/ml in vial

Tetanus immunoglobulin (human) injection, 500 IU in vial

### 19.3 Vaccines

#### 19.3.1 For Universal Immunization

BCG vaccine

Diphtheria, Tetanus, Pertussis, Hepatitis B vaccine

Diphtheria, Tetanus, Pertussis, Hepatitis B, vaccine

*Haemophilus influenzae* type b

Measles vaccine (live attenuated)

Poliomyelitis (oral) vaccine

Tetanus toxoid vaccine

#### 19.3.2 For Specific Groups of Individuals

Diphtheria Antitoxin vaccine

Hepatitis A vaccine

Hepatitis B vaccine

Human papiloma vaccine (HPV) vaccine

Influenza vaccine

Japanese Encephalitis SA 14-14-2 strain live attenuated vaccine

Meningococcal meningitis vaccine

Mumps vaccine

Rubella vaccine

Typhoid vaccine

Yellow fever vaccine vaccine

Rabies vaccine, freeze-dried vaccine

## 20 Muscle Relaxants (Peripherally Acting) and Cholinesterase Inhibitors

Neostigmine tablet, 15 mg (bromide); injection 500 mcg, 2.5 mg (metilsulfate) in 5-ml ampoule

Pancuronium bromide	injection, 2 mg / ml in 2-ml ampoule
Suxamethonium chloride	injection, 50mg /ml in 10 vail
Vecuronium bromide	powder for injection 10 mg in vial
Atracurium	powder for injection, 25,50, 100 mg injection

## 21 Ophthalmological, Ear, Nose and Throat Preparations

### 21.1 Ophthalmological Preparations

#### 21.1.1 Anti-infective Agents

Aciclovir	ointment, 3%
Fluconazole	0.3% eye drop
Gentamicin	solution (eye drops), 0.3% (sulfate)
Chloramphenicol	applicap, 1%
Ciprofloxacin	eye/ear drops, 0.3% (as hydrochloride); eye ointment, 0.3%
Ofloxacin	eye drop 0.3 %
Tetracycline	eye ointment, 1% (hydrochloride)

#### 21.1.2 Anti-inflammatory agents

Prednisolone	solution (eye drops), 0.5%
--------------	----------------------------

#### 21.1.3 Local Anaesthetics

Lidocaine (Lignocaine)	injection, 2%, 4% (topical)
Proparacaine	solution (eye drops), 0.5%
Tetracaine	solution (eye drops), 0.5%

#### 21.1.4 Miotics and antiglaucoma medicines

Acetazolamide	tablet, 250 mg
Pilocarpine	solution (eye drops), 2%, 4% (hydrochloride)
Timolol	solution (eye drops), 0.5 % (maleate)

#### 21.1.5 Mydriatics

Atropine	solution (eye drops), 1% (sulfate)
Tropicamide	solution (eye drop), 0.5%

### 21.2 Ear, Nose and Throat Preparations

Betamethasone	ear drops/cream 0.05 %
Bismuth Iodoform Paraffin	solution, 70%
Chloramphenicol	ear drops, 5%
Ciprofloxacin	0.3% drops (as hydrochloride)
Clotrimazole	ear drops 1%

	Ichthammol + Glycerin,	ear drop, 10%+5%
	Lidocaine (Lignocaine)	topical (viscous), 2%, 4%
	Oxymetazoline	solution (nasal drops), 0.025%, 0.05%
	Sodium bicarbonate + Glycerin	ear drops, 1%+5%
<b>21.3</b>	<b>Dental</b>	
	Benzocaine	solution 20%
	Chlorhexidine	solution, 0.2% (gluconate)
	Clove oil	oil
	Zinc oxide	powder
<b>22</b>	<b>Oxytocics and Antioxytocics</b>	
<b>22.1</b>	<b>Oxytocics</b>	
	Methylergometrine	injection, 200 mcg (maleate) /ml in ampoule
	Oxytocin	injection, 5 IU/ml in 1-ml ampoule
	Mifepristone*+Misoprostol	tablet, 200mg+200 mcg
	<i>*Combi-pack, containing 1 tablet of mifepristone and 4-tablet of misoprostol. Requires close medical supervision. Approved for abortion services only in listed sites.</i>	
	Misoprostol	tablet, 200 mcg, vaginal tablet, 25 mcg
<b>22.2</b>	<b>Anti-oxytocics</b>	
	Nifedipine	capsule 10 mg
	Terbutaline	injection 0.5 mg/ml
<b>23</b>	<b>Peritoneal Dialysis Solution</b>	
	Intraperitoneal dialysis solution	parenteral solution of appropriate composition
<b>24</b>	<b>Psychotherapeutic Medicines</b>	
<b>24.1</b>	<b>Medicines Used in Psychotic Disorders</b>	
	Chlorpromazine	tablet, 50 mg, 100 mg (hydrochloride); oral liquid, 25 mg (hydrochloride) / 5ml;
	Fluphenazine	injection, 25 mg (decanoate or enantate) in 1-ml ampoule.
	Haloperidol	tablet 2 mg, 5 mg; injection, 5 mg in 1-ml ampoule
	Olanzapine	tablet 2.5, 5, 10 mg
	Resperidone	tablet, 1 mg, 2mg
	Thioridazine	tablet, 10mg, 25mg, 100mg

<b>24.2</b>	<b>Medicines Used in Mood Disorders</b>	
<b>24.2.1</b>	<b>Medicines used in depressive disorders</b>	
	Amitriptyline	tablet, 10 mg, 25 mg, 75 mg (hydrochloride)
	Fluoxetine	capsule or tablet, 20 mg (as hydrochloride)
<b>24.2.2</b>	<b>Medicines Used in Bipolar Disorders</b>	
	Lithium carbonate	capsule or tablet, 300 mg (sustained release)
<b>24.3</b>	<b>Medicines Used in Generalised Anxiety and Sleep Disorders</b>	
	Chlordiazepoxide	tablet, 10 mg, 25 mg
	Diazepam	tablet 2 mg, 5 mg
	Lorazepam	tablet, 1, 2 mg
<b>24.4</b>	<b>Medicines Used for Obsessive Compulsive Disorders and Panic Attacks</b>	
	Clomipramine	capsules, 10 mg, 25 mg (hydrochloride)
<b>24.5</b>	<b>Medicines Used in Substance Dependence Programmes</b>	
	Methadone*	concentrate for oral liquid, 5 mg/ml, 10 mg/ml (hydrochloride), oral liquid, 5 mg/5ml, 10 mg/5 ml, tablet 5 mg
	Buprenorphine*	sublingual tablet, 200 mcg
	<i>*The medicines should only be used within an established support programme.</i>	
	Disulfiram	tablet, 200 mg
<b>25</b>	<b>Medicines Acting on the Respiratory Tract</b>	
<b>25.1</b>	<b>Antiasthmatic and Medicines for Chronic Obstructive Pulmonary Disease</b>	
	Aminophylline	injection, 25 mg/ml
	Epinephrine (Adrenaline)	injection, 1 mg (as hydrochloride or acid tartrate) in 1-ml ampoule.
	Hydrocortisone	injection (sodium succinate) 100 mg, 200 mg in vial; tablet, 10 mg
	Ipratropium bromide	inhalation, 20 mcg/ dose
	Salbutamol	tablet, 2 mg, 4 mg (as sulfate); inhalation 100 mcg/dose, rotacap 200 mcg (as sulfate) per dose; oral liquid, 2mg (as sulfate)/5ml; injection 50mcg /ml in 5-ml ampoule
	Beclomethasone	inhalation (aerosol), 50mcg (as dipropionate) per dose

<b>26</b>	<b>Solution Correcting Water, Electrolyte and Acid Base Disturbances</b>	
<b>26.1</b>	<b>Oral</b>	
	Oral rehydration salts	sachet containing: Dextrose, anhydrous 13.5 g, Sodium chloride 2.6 g, Potassium chloride 1.5 g, Trisodium citrate dihydrate 2.9 g, appropriate flavour q.s. Dissolved to produce 1 litre, provides Dextrose 75 mEq, sodium 75 mEq or mmol/l, chloride 65 mEq or mmol/l, potassium 20 mEq or mmol/l, citrate 10 mmol/l and osmolarity 245 mOsm/l
<b>26.2</b>	<b>Parenteral</b>	
	Compound solution of Sodium lactate (Ringer's Lactate)	injectable solution
	Glucose	injectable solution, 5% isotonic, 50% hypertonic
	Glucose with Sodium chloride	injectable solution, 5% glucose, 0.9% sodium chloride
	Potassium chloride	injection, 15% in 20ml ampoule
	Sodium chloride	injectable solution, 0.9% isotonic
	Sodium bi-carbonate	injectable solution 7.5 % solution in 10-ml ampoule
<b>26.3</b>	<b>Miscellaneous</b>	
	Water for injection	5-ml, 10-ml ampoule
<b>27</b>	<b>Vitamins and Minerals</b>	
	Ascorbic acid	tablet, 500 mg
	Calcium gluconate	injection, 100 mg / ml in 10-ml ampoule
	Cynocomalamin	injection 30 mcg/ml
	Ergocalciferol	capsule or tablet, 1.25 mg (50 000 IU) oral solution, 250 mcg/ ml) (10000 IU / ml)
	Pyridoxine	tablet, 25 mg (hydrochloride)
	Retinol	tablet (sugar coated), 10000 IU; capsule, 20000 IU (as palmitate); oral oily solution, 100 000 IU/ ml in multi-dose dispenser; water miscible injection, 100 000 IU (as palmitate) in 2-ml

	Retinol +DL-alpha-tocopherol	ampoule Retinol (as palmitate)+DL-alpha-tocopherol or tocopheryl acetate, soft gel capsule, 200 000 IU+ 40 IU, 100 000 IU+ 20 IU, 50 000 IU+ 20 IU
	Riboflavin	tablet, 5 mg
	Thiamine	tablet, 100 mg (as hydrochloride)
<b>28</b>	<b>Specific Medicines for Neonatal Care</b>	
<b>28.1</b>	<b>Medicines administered to the neonate</b>	
	Caffine citrate	Injection, 20mg/ml (equivalent to 10 mg caffeine base/ml); Oral liquid: 20 mg/ml (equivalent to 10 mg caffeine base/ml)
	Chlorhexidine	Solution or gel: 7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care)
<b>29</b>	<b>Medicines for Diseases of Joints</b>	
<b>29.1.</b>	<b>Medicines Used to Treat Gout</b>	
	Allopurinol	tablet, 100 mg, 300 mg
	Colchicine	tablet, 500 mcg
<b>29.2</b>	<b>Disease Modifying Agents Used in Rheumatic Disorders (DMARDs)</b>	
	Methotrexate	tablet, 2.5 mg (as sodium salt)