

ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ



ក្រសួងសុខាភិបាល

បញ្ជីឱសថសារវ័ណ្ណ

10th Edition, 2024

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PREFACE

Access to medicines and vaccines is one of the cornerstones of universal health coverage (UHC) and is critical to the achievement of the health-related Sustainable Development Goals (SDGs).

This 10th Edition of the Essential Medicines List, Ministry of Health, Cambodia (EML) builds upon the foundation of the 9th edition which was published in 2018. The EML is designed to be a vital tool to strengthen and standardize treatment of common conditions in Cambodia for both the public and private sectors. It is expected that the document be used as the basis for prescribing and dispensing in our health system whether public, private or non-governmental organizations operating under the umbrella of the Ministry of Health, Kingdom of Cambodia.

The EML also provides crucial recommendations on priorities for procurement, donations and distribution of medicines, medical devices, diagnostics and consumables in Cambodia. The four tiers (i.e., MPA, CPA1, CPA2, CPA3) of the healthcare delivery system of the country should have these medicines available at all times.

It promotes the essential medicines concept as recommended by the Medicines Policy of the Kingdom of Cambodia, 2010 “Essential medicines are those that satisfy the priority health care needs of the population. They are selected with due regard to public health relevance, evidence on efficacy and safety, and comparative cost-effectiveness. Essential medicines are intended to be available within the context of functioning health systems at all times in adequate amounts, in the appropriate dosage forms, strength with assured quality and adequate information, and at a price the individual and the community can afford”.

The First Cambodian Essential Medicines List was published in 1986. There are many reasons and benefits to support the use of a limited number of essential medicines: easier procurement, storage and distribution, coordinated medicines, donation, better quality assurance, reduction and containment of antimicrobial resistance, more rational prescribing, lower costs, improved medicines availability and increased adherence to treatment. Moreover, selection of medicines is based on evidence of safety, efficacy and bioavailability, cost-effectiveness and therapeutic advantage and their international non-proprietary (INN) or generic names are used.

EML is also meant to guide policy, focus of attention and resources in areas and activities which support the above aims, such as training, quality assurance, financing, donation, regulation and monitoring and rational use. As such the EML must be fully responsive to the aims and objectives of national health policies and strategies such as the existing Health Strategic Plan. In this respect, the EML has incorporated the most current guidance to adequately address burden of diseases following a wide range of consultations with medical specialists and other pharmaceutical experts as well as public health specialists across the healthcare delivery system in Cambodia. Expert opinions were gathered from various vertical programs like HIV, TB, Malaria, Mental Health to mention a few.

The 10th Edition of Essential Medicines List was developed by the following steps:

- Determining the parameters for the careful vetting of every molecule of drug that was selected to be included in the Essential Medicine List (EML);
- Categorizing each drug molecule in the EML based on the four tiers of the healthcare delivery system of Cambodia (MPA, CPA1, CPA2, CPA3);
- Reached a critical decision to adopt the WHO Model of Medicines Classification of medicines by Anatomic, Therapeutic, and Chemical (ATC) Classification.

Essential Medicines List (10th Edition 2023)

This 10th Edition is designed to provide current and up-to-date, practical and reader friendly information for both upper and lower levels of the current four tiers of the healthcare delivery system of Cambodia and therefore it includes several changes.

Some change is the adoption of the WHO Model Essential List format where medicines are grouped according therapeutic actions (such as anti-infectives, cardiovascular medicines etc.) to provide a better capture and overview of the medicines listed. Moreover, the **ATC** (Anatomical Therapeutic Chemical) classification scheme is available in order to enable a deeper understanding of medicine utilization in the country. In the ATC system, medicines are divided into difference groups based on the body organ or system on which they act and their chemical, pharmacological, and therapeutic properties. The National Medicines Formulary is developed in order to provide objective unbiased information to health workers and to promote the safe, effective and rational use of medicines.

All medicines are also classified according to their priority: **VEN classification** which is a most important tool to assist in giving priority to medicines based on economic considerations.

- **V** medicines are **vital**, they are considered life-saving, or their unavailability would cause serious harm and efforts should always be aimed at making them 100% available.
- **E** medicines are **essential**, and are given second priority. Without E medicines there would be major discomfort or irreversible harm.
- **N** medicines are still **non-essential** and are lower in priority than V and E medicines.

A total of 127 medicine-specific changes (additions/removals) were made to the 10th edition. The current Selection Committee, which was updated on the November 2023, has reviewed additions and removals resulting in the inclusion of 335 items of medicine, 102 items of diagnostics and microbiological (16 items of diagnostics and 86 items of microbiological), 176 items of consumables and 10 items of medical devices. Total: 623 items in the 2023 EML.

		MADD	MDEL	DFAT	DFAN	DFAE	DFDT	DFDD	DFDE	DSAT	DSAN	DSAE	DSDT	DSDD	DSDE
1.1.1	Inhalation meds	1	0	1	1	0	0	0	0	1	1	0	0	0	0
1.2	Local anesthesia	0	0	1	0	0	1	0	0	4	2	2	0	0	0
1.3	Preop & sedation	1	0	3	3	0	0	0	0	5	5	0	0	0	0
1.4	Medical gases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.1	Non-opioid analgesics	0	0	0	0	0	0	0	0	5	0	5	0	0	0
2.2	Opioid analgesics	0	0	1	0	1	1	0	1	3	0	3	2	0	2

2.3	Medicines for other palliative care	4	1	10	5	5	1	1	0	15	5	10	1	1	0
3	Antiallergics	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Antidotes	5	2	5	5	1	2	2	0	7	5	2	2	2	0
5.1	Antiseizure	1	1	10	2	8	1	1	0	17	3	14	3	2	1
5.3	Parkinsonism	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.1	Anti helm	1	0	1	1	0	0	0	0	7	1	6	0	0	0
6.2.1	Access	4	0	15	6	9	0	0	0	40	10	30	2	0	2
6.2.2	Watch	1	0	6	1	5	0	0	0	16	2	14	0	0	0
6.2.3	Reserve	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.2.4	Ant leprosy	0	0	1	0	1	0	0	0	2	0	2	0	0	0
6.2.5	Anti TB	2	0	9	2	7	0	0	0	13	2	11	1	0	1
6.3	Antifungal	1	0	5	1	4	0	0	0	11	2	9	2	0	2
6.4.1	Anti-herpes	0	0	1	0	1	0	0	0	2	0	2	1	0	1
6.4.2	ARV & HIV OI	3	3	6	3	1	3	3	0	7	3	4	7	4	3
6.4.4	Antihepatic	2	2	2	2	0	2	2	0	2	2	0	3	3	0
6.5	Antiprotozoal	2	1	3	3	0	1	1	0	5	3	2	3	2	1
6.6	COVID									0			0		
7	Antimigraine	0	0	2	0	2	0	0	0	2	0	2	0	0	0
8	Immunosuppressor	1	4	7	1	6	4	4	0	11	2	9	4	4	0
9	RTUTF	1	0	1	1	0	0	0	0	1	1	0	0	0	0
10	Meds affecting blood	2	1	6	3	2	1	1	0	11	5	6	1	1	0
11	Blood products	2	1	2	2	0	1	1	0	3	2	1	2	1	1
12	Cardiovascular medicines	10	6	12	11	1	6	6	0	33	22	11	9	7	2
13	Derm	4	9	4	4	0	10	10	0	4	4	0	10	10	0
14	Diagnostic agents	2	0	2	2	0	0	0	0	2	2	0	0	0	0
15	Disinfectants	0	3	0	0	0	3	3	0	1	0	1	1	0	1
16	Diuretics	0	0	0	0	0	0	0	0	1	0	1	1	0	1
17	Gastrointestinal	3	3	5	4	1	4	4	0	5	4	1	4	4	0
18	Endocrine	4	0	4	4	0	0	0	0	7	7	0	0	0	0
19	Immunological	1	0	1	1	0	0	0	0	1	1	0	0	0	0

20	Muscle	0	0	1	0	1	0	0	0	1	0	1	0	0	0
21	Ophthalmic	1	8	1	1	0	8	8	0	2	1	1	8	8	0
22	Reproductive health	3	0	3	3	0	0	0	0	4	4	0	0	0	0
23	Mental health	3	3	4	4	0	4	3	1	4	3	1	2	1	1
24	Respiratory	2	1	4	3	1	2	1	1	6	5	1	2	1	1
25	Water electrolyte correction	0	0	0	0	0	0	0	0	3	0	3	3	0	3
26	Vitamins	3	0	4	4	0	0	0	0	4	4	0	0	0	0
27	ENT	0	1	0	0	0	1	1	0	0	0	0	1	1	0
28	Joints	0	1	0	0	0	1	1	0	0	0	0	1	1	0
29	Nutrition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Oral Health	6	0	6	6	0	0	0	0	6	6	0	0	0	0
	TOTAL	76	51	149	89	57	57	53	3	274	119	155	76	53	23

LEGEND

MADD	Medicines added	DFDE	Dosage form deleted – existing meds
MDEL	Medicines deleted	DSAT	Dosage strengths added – total
DFAT	Dosage forms added total	DSAN	Dosage strengths added via new meds
DSAN	Dosage forms added via new meds	DSAE	Dosage strengths added to existing meds
DFAE	Dosage forms added to existing meds	DSDT	Dosage strengths deleted – total
DFDT	Dosage forms deleted – total	DSDD	Dosage strengths deleted – deleted meds
DFDD	Dosage forms deleted – deleted meds	DSDE	Dosage strengths deleted – existing meds

KEY STATISTICS

NET INCREASE

MEDICINES ADDED	76			
MEDICINES DELETED	51		MEDS	25
DOSAGE FORMS ADDED	149			
DOSAGE FORMS DELETED	57		DFORMS	92
DOSAGE STRENGTHS ADDED	274			
DOSAGE STRENGTHS DELETED	76		DSTRENGTHS	198

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On behalf of the Ministry of Health, I would wish to acknowledge and sincerely express my deep gratitude to the **National EML Committee members** for their careful, thorough, and dedicated work and all those who have contributed to the preparation of this very important “users friendly” publication. I also wish to thank World Health Organization (WHO) for their continuous financial and technical support and Diagnostic Microbiology Development Program (DMP) for technical advice throughout this complex process.

Like the immediate past edition, this will be subject to constant review and revision to reflect the current realities of health practices in the country. It is expected, and will therefore be encouraged that all healthcare professionals get familiar with the content of the document and constantly evaluate its relevance and appropriateness to their daily operations in the health facilities nationwide. The review and revision exercise of the document was necessitated by the protocols set to do same every two years. We continue to revise the EML and consider medicine developments and new health problems.

The regular and consistent use of the EML can be expected to improve health outcomes, and to contribute to achievements of universal health coverage and to the attainment of “Health for All”.

I therefore strongly encourage all relevant health professionals and international and national health partners to make the best use of this 10th Edition of the Essential Medicines List, Ministry of Health, Cambodia and to provide feedback on its use, and any suggestions towards its improvement and future editions. Using the Essential Medicines List is Good Professional Practice and Conduct, let's promote it. *ឧត្តម*

Phnom Penh, Dated. *17 January 2024*



Prof. CHHEANG RA
Minister of Health

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Essential Medicines List

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
1. Anesthetics, Preoperative Medicines and Medical Gases											
1.1 General Anesthetics and Oxygen											
1.1.1 Inhalational medicines											
AD0100	Halothane	N01AB01	Inhalation		Adults	Children	/	/	*	*	V
	Isoflurane	N01AB06	Inhalation		Adults	Children	/	/	*	*	V
	Nitrous oxide	N01AX13	Inhalation		Adults	Children	/	/	*	*	V
	Oxygen	V03AN01	Inhalation		Adults	Children	*	*	*	*	V
<p>Identification of cylinders for inhalation gases. An ISO standard (International Standard 32, Gas Cylinders for Medical Use, 1977) requires that cylinders containing nitrous oxide should bear the name of the contents in legible and permanent characters and, preferably, also the chemical symbol, N₂O. The neck, from the valve to the shoulder, should be colored blue. Cylinders containing oxygen intended for medical use should bear the name of the contents in legible and permanent characters and, preferably, also the chemical symbol, O₂. The neck, from the valve to the shoulder, should be colored white. Cylinders containing nitrous oxide and oxygen mixtures should be similarly labelled, and the neck colored white and blue (WHO Model Formulary). Medical oxygen is lifesaving and an essential medicine used to ensure safe surgical, emergency and critical care services. In 2017 oxygen was added to the WHO Model List of Essential Medicines for treating hypoxemia. It is used at all levels of the health care system and is crucial for the treatment of COVID-19 and other life-threatening conditions such as severe pneumonia, severe malaria, sepsis caused by a wide variety of pathogens, trauma and complications of pregnancy or birth. Unlike many medicines, it has no substitute. As with any other medicine, delivering medical oxygen to a patient must follow the prescription and instructions of a health worker. These instructions involve providing a clear description outlining how, when, for how long, how much, and the monitoring actions. Specific medical conditions require specific delivery equipment and devices [medical devices for delivering oxygen to patients, as well as patient monitoring devices, such as pulse oximeters, which are also required for measuring patient oxygen saturation levels (SpO₂) to detect hypoxemia. Further information on oxygen therapy can be found in various National and WHO clinical treatment guidelines. Moreover, the clinical treatment guidelines are considered the baseline information to estimate oxygen demand for a given health facility.</p>											
1.1.2 Injectable medicines											
AB0260	Ketamine	N01AX03	Injection	50 mg (as hydrochloride) /mL in 10-mL vial	Adults	Children	/	/	*	*	V
	Propofol (alt thiopental)	N01AX10	Injection	20 mg/mL in ampoule/vial	Adults	Children	/	/	*	*	E

Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Thiopental (alt propofol)	N01AF03	Powder for Injection	1 g in vial	Adults	Children	/	/	*	*	E
1.2 Local Anesthetics											
AB0040	Bupivacaine	N01BB01	Injection	0.5% (hydrochloride) in vial, 20 mg/4 ml	Adults	Children	/	/	*	*	V
			Injection	0.25% (hydrochloride) in vial, 20 mg/4 ml	Adults	Children	/	/	*	*	V
			Injection for spinal anesthesia	0.5% (hydrochloride) in 4-mL ampoule to be mixed with 7.5% glucose solution	Adults	Children	/	/	*	*	V
AB0181	Ephedrine	C01CA26	Injection	30 mg (hydrochloride)/mL in 1-mL ampoule	Adults		/	/	*	*	E
			(For use in spinal anesthesia during delivery, to prevent hypotension)								
AB0270	Lidocaine	N01BB02	Injection	1% (hydrochloride) in 50-ml vial	Adults	Children	*	*	*	*	V
				2% (hydrochloride) in 50-ml vial	Adults	Children	*	*	*	*	V
			Injection for spinal anesthesia	5% (hydrochloride) in 2-mL ampoule to be mixed with 7.5% Glucose solution	Adults	Children	/	/	/	SN	V
			Topical forms	2% (hydrochloride)	Adults	Children	/	/	*	*	V
NI0220	Lidocaine + epinephrine (adrenaline)	N01BB52	Dental cartridge	2% (hydrochloride) + Epinephrine 1:80 000	Adults	Children	*	*	*	*	V
			Injection	1% (hydrochloride or sulfate) +epinephrine 1:200 000 in vial	Adults	Children	/	/	*	*	V
			Injection	2% (hydrochloride or sulfate) +epinephrine 1:200 000 in vial	Adults	Children	/	/	*	*	V

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Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
1.3 Preoperative medication and sedation for short-term procedures											
AB0030	Atropine	A03BA01	Injection	1 mg (sulfate) in 1-mL ampoule	Adults	Children	/	/	*	*	V
	Midazolam	N05CD08	Injection	1mg/ml	Adults	Children	/	/	*	*	V
			Oral liquid	2mg/ml [c]		Indicated for children	/	/	*	*	V
			Tablet	7.5 mg	Adults	Children	/	/	*	*	V
	Morphine	N02AA01	Injection	10 mg (sulfate or hydrochloride) in 1-mL ampoule	Adults	Children	/	/	*	*	V
1.4 Medical gases											
	Oxygen*	V03AN01	Inhalation	No more than 30% oxygen should be used to maintain resuscitation of neonates less than or equal to 32 weeks of gestation	Adults	Children	*	*	*	*	V
2. MEDICINES FOR PAIN AND PALLIATIVE CARE											
2.1 Non-opioids and non-steroidal anti-inflammatory medicines (NSAIMs)											
	Acetylsalicylic acid	N02BA01	Tablet	100 mg	Adult		*	*	*	*	V
AA0010				500 mg	Adult		*	*	*	*	V
			Suppository	50mg to 150mg							
	Diclofenac	M01AB05	Injection	25 mg/ ml in 3-mL ampoule	Adult		/	*	*	*	N
AA0170			Tablet	50 mg (potassium salt)	Adult	Children > 6 months	/	*	*	*	N

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Ibuprofen (*not for children less than 3 months)	M01AE01	Oral Liquid	100 mg/5ml = 20 mg/ml [c]		Indicated for children(>3 months)	/	*	*	*	V
				200 mg/5ml	Adult	Children					
AA0590			Tablet	200 mg	Adult	Children	/	*	*	*	V
NQ0402				400 mg	Adult	Children	/	*	*	*	V
AA0413	Paracetamol (acetaminophen)	N02BE01	Oral liquid	125 mg/ 5mL [c]		Indicated for children	*	*	*	*	V
				250mg/5ml [c]		Indicated for children	*	*	*	*	V
AA0410			Tablet	500 mg	Adult		*	*	*	*	V
AA0411			Suppository	100 mg	Adult	Children	*	*	*	*	V
				250 mg	Adult	Children	*	*	*	*	V
AB0341				Injection IV	150 mg/mL in 2 -mL ampoule			*	*	*	*
2.2 Opioid analgesics											
AA0156	Codeine	N02AA08	Tablet	30 mg (phosphate)	Adult		/	/	SN	SN	V
	Fentanyl	N02AB03	Transdermal patch	12 micrograms/hr;	Adult		/	/	/	SN	N
				50 micrograms/hr	Adult		/	/	/	SN	N
				100 micrograms/hr	Adult		/	/	/	SN	N

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Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Fentanyl		Injection	50 micrograms/mL in 2- mL ampoule	Adult		/	/	*	*	N
			Transdermal patch	12 micrograms/hr; 50 Micrograms/hr; 100 micrograms/hr	Adult		/	/	/	SN	N
AB0320	Morphine	N02AB03	Injection	10 mg (morphine hydrochloride or morphine sulfate) in 1-mL ampoule	Adult	Children	/	/	*	*	V
			Tablet (immediate release)	10 mg (morphine sulfate)	Adult	Children	/	/	SN	SN	V
			Tablet (slow release)	10 mg (morphine sulfate/hydrochloride)	Adult	Children	/	/	SN	SN	V
				30 mg (morphine sulfate)	Adult	Children	/	/	SN	SN	V
				100 mg (morphine sulfate)	Adult	Children	/	/	SN	SN	V
			Tramadol	N02AX02	Tablet	50 mg (immediate release)	Adult		/	/	/
	100 mg (prolonged release)	Adult					/	/	/	SN	N
	Injection	100 mg/mL in 2-mL ampoule			Adult		/	/	/	SN	N
2.3 Medicines used for other common symptoms in palliative care											
NG0010	Amitriptyline	N06AA09	Tablet	25 mg (hydrochloride)	Adult	Children	SN	SN	SN	SN	V
NG0011				50 mg (hydrochloride)	Adult		/	/	SN	SN	V
	Cyclizine [c]	R06AE03	Injection	50mg/ml		Children 1 month – 12 years	/	SN	SN	SN	E
			Tablet	50 mg		Children 1 month – 12 years	/	SN	SN	SN	E
AB0130	Dexamethasone	H02AB02	Injection	4 mg/mL in 1-mL ampoule (as disodium phosphate salt)	Adult	Children	/	*	*	*	V

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Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N	
	Dexamethasone		Oral liquid	2mg/5ml	Adult	Children	/	*	*	*	V	
			Tablet	2 mg[c];		Children	/	*	*	*	V	
				4 mg	Adult		/	*	*	*	V	
AB0150	Diazepam	N05BA01	Injection	10 mg/2 mL	Adult	Children	SN	*	*	*	V	
AA0160			Tablet	5 mg	Adult	Children	SN	*	*	*	V	
			Rectal gel	5mg/ml in 0.5 ml rectal delivery system	Adult	Children	SN	*	*	*	V	
				5mg/ml in 2ml rectal delivery system	Adult	Children	SN	*	*	*	V	
				5mg/ml in 4 ml rectal delivery system	Adult	Children	SN	*	*	*	V	
				Oral liquid	2mg/ml	Adult	Children	SN	*	*	*	V
		Docusate sodium	A06AA02	Capsule	100 mg	Adult	Children	*	*	*	*	N
	Oral liquid			50mg/5ml	Adult	Children	*	*	*	*	N	
	Fluoxetine	N06AB03	Solid oral form	20 mg (as hydrochloride)	Adult		SN	SN	SN	*	E	
	Haloperidol	N05AD01	Injection	5 mg in 1 mL ampoule	Adult		/	/	SN	SN	V	
			Oral liquid	2 mg/ml	Adult		/	/	SN	SN	V	
			Solid oral	500 micrograms	Adult		/	/	SN	SN	V	
				5 mg	Adult		/	/	SN	SN	V	
AB0050	Hyoscine butylbromide	A03BB01	Injection	20 mg/mL (as Butylbromide) in 2-mL ampoule	Adult		SN	*	*	*	V	
	Lactulose [c]	A06AD11	Oral liquid	3.35 mg/ 5 ml		Children	/	SN	*	*	E	
NQ0551	Loperamide	A07DA03	Tablet or capsule	2 mg	Adult		/	SN	SN	SN	E	
AB0300	Metoclopramide	A03FA01	Injection	5 mg (hydrochloride)/mL in 2-ml ampoule	Adult		*	*	*	*	E	

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N									
	Metoclopramide		Oral liquid	5mg/ml	Adult		*	*	*	*	E									
			Solid oral form	10 mg (hydrochloride).	Adult		*	*	*	*	E									
	Midazolam	N05CD08	Injection	1mg/ml;	Adult		/	/	SN	*	E									
				5mg/ml	Adult		/	/	SN	*	E									
			Oral liquid	2mg/mL [c].	Adult	Children	/	/	SN	*	E									
			Solid oral dosage form	7.5mg	Adult		/	/	SN	*	E									
NJ0100	Ondansetron (only in > 1 month)	A04AA01	Injection	2 mg base/mL in 4-mL ampoule (as hydrochloride)	Adult	Children	/	/	/	SN	E									
												Tablet or capsule	Eq. 8 mg base	Adult	Children	/	/	/	SN	E
	Senna		Oral liquid	7.5mg/5ml	Adult	Children	*	*	*	*	E									
3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS																				
AA0110	Chlorpheniramine	R06AB04	Tablet	4 mg (hydrogen maleate)			*	*	*	*	N									
	Cetirizine	R06AE07	Tablet	10 mg	Adult	Children	*	*	*	*	E									
			Oral solution	5 mg /5 mL	Adult	Children	*	*	*	*	N									
AB0130	Dexamethasone	H02AB02	Injection	4 mg/mL in 1-mL ampoule (as disodium phosphate salt)	Adult	Children	/	*	*	*	V									
AB0130	Diphenhydramine	R06AA02	Injection	50 mg/mL in 1-ml vial (as hydrochloride)			/	SN	SN	SN	N									
AB0010	Epinephrine (adrenaline)	C01CA03	Injection	1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule	Adult	Children	*	*	*	*	V									

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Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AB0250	Hydrocortisone	H02AB09	Powder for injection	100 mg (as sodium succinate) in vial	Adult	Children	SN	SN	*	*	V
AA0470	Prednisolone	H02AB06	Tablet	5 mg	Adult	Children	SN	*	*	*	V
4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS											
4.1 Non-specific											
AA0101	Charcoal, activated	A07BA01	Tablet	125 mg	Adult	Children	*	*	*	*	V
4.2 Specific											
	Acetylcysteine	V03AB23	Injection	200 mg/mL in 10-mL ampoule	Adult		/	/	SN	*	V
			Oral liquid	10% [c];		Children	/	/	SN	*	V
				20% [c]		Children	/	/	SN	*	V
AB0030	Atropine	A03BA01	Injection	1 mg (sulfate) in 1-mL ampoule	Adult	Children	*	*	*	*	V
AB0060	Calcium gluconate	A12AA03	Injection	100 mg/mL in 10-mL ampoule	Adult	Children	SN	*	*	*	N
	Methylthioninium chloride (methylene blue)	V03AB17	Injection	10 mg/mL in 10 mL ampoule	Adult		SN	*	*	*	N
	Deferoxamine	V03AC01	Powder for injection	500 mg (8artridg) in vial	Adult	Children	/	/	SN	*	N
	Fomepizole	V03AB34	Injection	5 mg/mL (sulfate) in 20 mL ampoule or 1 g/mL (base) in 1.5 mL ampoule	Adult	Children	/	*	*	*	E
	Naloxone	V03AB15	Injection	400 micrograms (hydrochloride) in 1-mL ampoule	Adult	Children	SN	SN	SN	SN	V
	Potassium ferric hexacyanoferrate (Prussian blue)	V03AB31	Powder for oral administration	Powder for oral administration	Adult						

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Sodium nitrite		Injection	30 mg/mL in 10 mL ampoule	Adult		/	*	*	*	V
	Sodium thiosulfate		Injection	250 mg/mL in 50 mL ampoule	Adult		/	*	*	*	V
	Flumazenil		Injection	100 micrograms/mL in 1-mL ampoule	Adult		/	/	SN	*	V
5. MEDICINES FOR DISEASES OF THE NERVOUS SYSTEM											
5.1 Antiseizure medicines											
NG0030	Carbamazepine	N03AF01	Tablet	200 mg	Adult	Children	/	/	SN	SN	V
AB0150	Diazepam	N05BA01	Injection	2 mg/1 mL in ampoule	Adult	Children	SN	*	*	*	E
			Injection	4 mg/1 mL in ampoule	Adult	Children	SN	*	*	*	E
	Lamotrigine ^{NB}	N03AX09	Tablet	50 mg (chewable)	Adult	Children	/	/	*	*	N
				100 mg (chewable)	Adult	Children	/	/	*	*	N
NB – Lamotrigine – For use as adjunctive therapy for treatment-resistant partial or generalized seizures.											
	Levetiracetam	N03AX14	Oral solution	100 mg/mL	Adult	Children	/	*	*	*	E
			Solid oral	250 mg	Adult	Children	/	*	*	*	E
		500 mg		Adult	Children	/	*	*	*	E	
	Magnesium sulfate ^{NB}	A06AD04	Injection	0.5 g/mL in 2 mL ampoule (equivalent to 1 g in 2 mL; 50% weight/volume)	Adult		SN	*	*	*	V
			Injection	0.5g/ mL in 10- mL ampoule (equivalent to 5 g in 10 mL; 50% weight/volume);	Adult		SN	*	*	*	V
NB – Magnesium sulfate – For use in eclampsia and severe pre-eclampsia and not for other convulsant disorders (WHO EML)											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V ¹ E ¹ N
	Midazolam	N05CD08	Solution for Oro-mucosal Administration	5 mg/mL in 0.5 mL, 1 mL, 1.5 mL, 2 mL pre-filled syringe	Adult	Children	/	/	*	*	V
				10 mg/mL in 0.25 mL, 0.5 mL, 0.75 mL, 1 mL pre-filled syringe.	Adult	Children	/	/	*	*	V
			Injection ^{NB}	1 mg/mL in 5 mL vial;	Adult	Children	/	/	*	*	E
				5 mg/mL in 1 mL or 3 mL vial	Adult	Children	/	/	*	*	E
			NB-For buccal administration when solution for Oro-mucosal administration is not available								
	Phenobarbital	N03AA02	Injection	30mg/ml;		Indicated for children	/	SN	*	*	E
				200 mg/mL (sodium);	Adult		/	SN	*	*	E
AA0450			Tablet	50 mg	Adult	Children	SN	*	*	*	V
			Oral liquid	15mg/ml	Adult	Children	SN	*	*	*	E
NG0120	Phenytoin	N03AB02	Solid oral	25 mg; (phenytoin sodium)	Adult	Children	SN	SN	*	*	V
				50 mg; (phenytoin sodium)	Adult	Children	SN	SN	*	*	V
				100 mg (phenytoin sodium)	Adult	Children	SN	SN	*	*	V
			Injection	50 mg per ml in vial (phenytoin sodium)	Adult	Children	SN	SN	*	*	V
			Oral liquid	30 mg per 5ml (phenytoin)	Adult	Children	SN	SN	*	*	V
	Valproic acid (sodium valproate) ^{NB}	N03AG01	Oral liquid	200mg per 5ml	Adult	Children	/	/	/	SN	V
			Tablet (crushable)	100 mg	Adult	Children	/	/	/	SN	V
			Tablet (enteric-coated)	200 mg	Adult	Children	/	/	/	SN	V
				500 mg	Adult	Children	/	/	/	SN	V
	NB: - Valproic acid – Avoid use in pregnancy and in women and girls of child-bearing potential, unless alternative treatments are ineffective or not tolerated because of the high risk of birth defects and developmental disorders in children exposed to valproate in the womb.										

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V'EN
5.3 Medicines for parkinsonism											
	Levodopa + carbidopa	N04BA02	Tablet	250 mg+25 mg	Adult		SN	SN	SN	SN	N
	Trihexyphenidyl (alternative to biperiden)	NA4AA01	Tablet	5 mg	Adult		SN	SN	SN	SN	N
			Injection	10 mg/5 ml	Adult		/	/	/	SN	N
6. ANTI-INFECTIVE MEDICINES											
<p>In September 2019, Ministry of Health endorsed the National Guidelines for Antimicrobial Stewardship in Health Care Facilities. Antimicrobial stewardship (AMS) is defined as the use of coordinated interventions to measure and improve the use of antimicrobials by applying appropriate diagnosis and promoting optimal drug regimen, dose, duration and route. One of AMS strategies to promote rational use is antimicrobial restriction. Antimicrobial restriction is a strategy that involves requiring approval for the use of certain antimicrobials. This can be done by defining specific patient criteria that must be met for an antibiotic to be dispensed and administered to a patient. Such agents are typically last-line antimicrobials whose use should be reserved only for conditions when they are truly necessary. It is primarily the pharmacy's role to serve as the gatekeeper for such restricted antimicrobials, and ensure specific criteria are met prior to dispensing.</p>											
6.1 Anthelmintics											
6.1.1 Intestinal anthelmintics											
NQ0004	Albendazole	P02CA03	Tablet	400 mg (chewable)	Adult	Children	*	*	*	*	V
	Ivermectin	P02CF01	Tablet	3 mg	Adult	Children	*	*	*	*	V
	Mebendazole	P02CA01	Tablet	100 mg (chewable)	Adult	Children	*	*	*	*	V
AA0280				500 mg (chewable)	Adult	Children					
AA0360	Niclosamide	P02DA01	Tablet	500 mg (chewable)	Adult	Children	*	*	*	*	V
	Praziquantel	P02BA01	Tablet	150 mg,	Adult	Children	SN	SN	SN	SN	V
				500 mg	Adult	Children	SN	SN	SN	SN	V
ND0130				600 mg (scored),	Adult	Children	SN	SN	SN	SN	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
6.1.2 Antifilarials											
NQ0004	Albendazole	P02CA03	Tablet	400 mg (chewable)	Adult	Children	*	*	*	*	V
ND0230	Diethylcarbamazine	P02CB02	Tablet	50 mg (dihydrogen citrate);	Adult	Children	SN	SN	SN	SN	V
			Tablet	100 mg (dihydrogen citrate)	Adult	Children	SN	SN	SN	SN	V
	Ivermectin	P02CF01	Tablet	3 mg	Adult	Children	SN	SN	SN	SN	E
6.1.3 Antischistosomal and other antitremitode medicines											
ND0130	Praziquantel	P02BA01	Tablet	150 mg,	Adult	Children	SN	SN	SN	SN	V
				500 mg	Adult	Children	SN	SN	SN	SN	V
				600 mg (scored),	Adult	Children	SN	SN	SN	SN	V
6.2 Antibacterials											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
<p>Globally, about 90% of all antibiotics are taken by patients in the primary health care setting. It is estimated that around half of all antibiotic use is inappropriate in some way, such as: the use of an antibiotic when none is indicated; the choice of an antibiotic with unnecessarily broad spectrum (e.g. Watch instead of Access antibiotics); and the wrong dose, duration of treatment, and delivery or formulation of the antibiotic. AwaRe is the World Health Organization (WHO) classification of antibiotics introduced by WHO as part of the 2017 Model List of Essential Medicines. To assist in the development of tools for antibiotic stewardship at local, national and global levels and to reduce antimicrobial resistance, the Access, Watch, Reserve (AwaRe) classification of antibiotics was developed – where antibiotics are classified into different groups to emphasize the importance of their appropriate use.</p> <p>ACCESS GROUP ANTIBIOTICS</p> <p>This group includes antibiotics that have activity against a wide range of commonly encountered susceptible pathogens while also showing lower resistance potential than antibiotics in the other groups. Selected Access group antibiotics are recommended as essential first or second choice empiric treatment options for infectious syndromes reviewed by the EML Expert Committee and are listed as individual medicines on the Model Lists to improve access and promote appropriate use. They are essential antibiotics that should be widely available, affordable and quality assured.</p> <p>WATCH GROUP ANTIBIOTICS</p> <p>This group includes antibiotic classes that have higher resistance potential and includes most of the highest priority agents among the Critically Important Antimicrobials for Human Medicine and/or antibiotics that are at relatively high risk of selection of bacterial resistance. These medicines should be prioritized as key targets of stewardship programs and monitoring. Selected Watch group antibiotics are recommended as essential first or second choice empiric treatment options for a limited number of specific infectious syndromes and are listed as individual medicines on the Model Lists.</p> <p>RESERVE GROUP ANTIBIOTICS</p> <p>This group includes antibiotics and antibiotic classes that should be reserved for treatment of confirmed or suspected infections due to multi-drug-resistant organisms. Reserve group antibiotics should be treated as “last resort” options. Selected Reserve group antibiotics are listed as individual medicines on the Model Lists when they have a favourable risk-benefit profile and proven activity against “Critical Priority” or “High Priority” pathogens identified by the WHO Priority Pathogens List, notably carbapenem resistant Enterobacteriaceae. These antibiotics should be accessible, but their use should be tailored to highly specific patients and settings, when all alternatives have failed or are not suitable. These medicines could be protected and prioritized as key targets of national and international stewardship programs involving monitoring and utilization reporting, to preserve their effectiveness. The WHO has defined a target that at least 60% of global antibiotic consumption at the national level should be from the Access group.</p>											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
<p>Think D8 – before prescribing! Points to always consider when prescribing: Diagnose – what is the clinical diagnosis? Is there evidence of a significant bacterial infection? Decide – are antibiotics really needed? Do I need to take any cultures or other tests? Drug (medicine) – which antibiotic to prescribe? Is it an Access or Watch or Reserve antibiotic? Are there any allergies, interactions or other contraindications? Dose – what dose, how many times a day? Are any dose adjustments needed, for example, because of renal impairment? Delivery – what formulation to use? Is this a good quality product? If intravenous treatment is needed, when is step down to oral delivery possible? Duration – for how long? What is the stop date? Discuss – inform the patient of the diagnosis, likely duration of symptoms, any likely medicine toxicity and what to do if not recovering. Document – write down all decisions and the management plan. (Source: The WHO AwaRE (Access, Watch, Reserve) antibiotic book, 2022)</p>											
6.2.1 ACCESS group antibiotics											
	Amikacin	J01GB06	Injection	50 mg/ml (as sulfate) [c];		Indicated for children	/	*	*	*	E
				250 mg/ml (as sulfate) in 2 ml vial	Adult	Children	/	*	*	*	E
	FIRST CHOICE: high risk febrile neutropenia, Pyelonephritis or prostatitis (severe)			SECOND CHOICE: Sepsis in neonates and children [c]							
AA0040	Amoxicillin	J01CA04	powder for suspension (oral liquid)	125 mg (as trihydrate)/5 mL		Indicated for children	*	*	*	*	V
				250 mg (as trihydrate)/5 mL;		Indicated for children	*	*	*	*	V
			Powder for injection	250 mg, (as sodium) in vial	Adult	Children	*	*	*	*	V
				500 mg (as sodium) in vial	Adult	Children	*	*	*	*	V
				1 g (as sodium) in vial	Adult	Children	*	*	*	*	V
AA0060			tablet or capsule (solid oral dosage form)	250 mg (as trihydrate)	Adult	Children	*	*	*	*	V
AA0061				500 mg (as trihydrate)	Adult	Children	*	*	*	*	V
	FIRST CHOICE: Community acquired pneumonia (mild to moderate); Community acquired pneumonia (severe) [c]; Complicated severe acute malnutrition [c]; Exacerbations of COPD; Otitis media; Pharyngitis; Progressive apical dental abscess; Sepsis in neonates and children [c]; Sinusitis; Uncomplicated severe acute malnutrition [c].						SECOND CHOICE: Acute bacterial meningitis				

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AA0050	Amoxicillin + clavulanic acid	J01CR02	Powder for oral liquid (suspension)	250 mg amoxicillin + 62.5 mg clavulanic acid/5 mL	Adult	Indicated for children	*	*	*	*	V
			Tablet	500 mg (as trihydrate) + 125 mg (as potassium salt);	Adult	Children	*	*	*	*	V
				875 mg (as trihydrate) + 125 mg (as potassium salt);	Adult	Children	*	*	*	*	V
			Powder for injection	500 mg (as sodium) + 100 mg (as potassium salt)	Adult	Children	/	SN	SN	*	V
				1 g (as sodium) + 200 mg (as potassium salt) in vial	Adult	Children	/	SN	SN	*	V
	FIRST CHOICE: Community acquired pneumonia (severe) [c]; Complicated intraabdominal infections (mild to moderate); Exacerbations of COPD; Hospital acquired pneumonia; Low-risk febrile neutropenia; Lower urinary tract infections; Sinusitis; Skin and soft tissue infections.			SECOND CHOICE: Bone and joint infections; Community-acquired pneumonia (mild to moderate); Community acquired pneumonia (severe); Otitis media; Surgical prophylaxis							
AB0020	Ampicillin	J01CA01	Powder for injection	500 mg (as sodium) in vial	Adult	Children	SN	*	*	*	V
				1 g (as sodium salt) in vial	Adult	Children					
	FIRST CHOICE: Community acquired pneumonia (severe) [c]; Complicated intraabdominal infections [c]; Complicated severe acute malnutrition [c]; Sepsis in neonates and children [c]			SECOND CHOICE: Acute bacterial meningitis							
NF0040	Benzathine benzylpenicillin	J01CE08	Powder for injection	1.2 million IU (+900 mg) in vial [c];		Indicated for children	/	SN	SN	SN	V
				2.4 million IU (1.8 44 g benzylpenicillin) in 5-mL vial	Adult		/	SN	SN	SN	V
	FIRST CHOICE: Syphilis										
AB0350	Benzylpenicillin (penicillin G)	J01CE01	Powder for injection	600 mg (1 million IU) (sodium or potassium salt) in vial	Adult	Children	/	*	*	*	V
				3 g (= 5 million IU) (sodium or potassium salt) in vial	Adult	Children	/	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	FIRST CHOICE: Community acquired pneumonia (severe) [c]; Complicated severe acute malnutrition [c]; Sepsis in neonates and children [c]; Syphilis.			SECOND CHOICE: Acute bacterial meningitis							
	Cefalexin	J01DB01	Tablet or capsule	250 mg (as monohydrate)	Adult	Children	/	/	*	*	E
				500 mg (as monohydrate)	Adult	Children	/	/	*	*	E
			Powder for oral liquid	125mg/ 5ml (anhydrous)	Adult	Children	/	/	*	*	E
				250mg/ 5ml (anhydrous)	Adult	Children	/	/	*	*	E
			Tablet (dispersible)	125 mg [c]	Adult	Indicated for children	/	/	*	*	E
				250 mg [c]	Adult	Indicated for children	/	/	*	*	E
	FIRST CHOICE: Skin and soft tissue infections			SECOND CHOICE: Exacerbations of COPD; Pharyngitis.							
	Cefazolin	J01DB04	Powder for injection	1 g (as sodium salt) in vial	Adult	> 1 month	/	/	*	*	N
	FIRST CHOICE: Surgical prophylaxis (within 1 hour prior to incision)			SECOND CHOICE: Bone and joint infections							
	chloramphenicol ^{NB}		Powder for injection	1 g (sodium succinate) in vial			/	/	/	SN	E
	NB – chloramphenicol – Restricted to CPA3 with micro lab			SECOND CHOICE: Acute bacterial meningitis							
	Clindamycin	J01FF01	Capsule	150 mg (as hydrochloride)	Adults	Children	/	/	*	*	E
				150 mg/mL (as phosphate)	Adults	Children	/	/	*	*	E
			Injection	600 mg/4 mL (as phosphate)	Adults		/	/	*	*	E
				900 mg/6 mL (as phosphate).	Adults		/	/	*	*	E
			Powder for oral liquid:	75 mg/5 mL (as palmitate hydrochloride) [c].		Indicated for children	/	/	*	*	E
	FIRST CHOICE: Necrotizing fasciitis			SECOND CHOICE: Bone and joint infections							

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AA0138	Cloxacillin	J01CF02	Capsule (oral administration is preferred due to better bioavailability)	250 mg [c] (as sodium)		Indicated for children	/	*	*	*	V
				500 mg (as sodium)	Adults	Children	/	*	*	*	V
			Powder for injection	250 mg [c] (as sodium);		Indicated for children	/	*	*	*	V
				500 mg (as sodium);	Adults	Children	/	*	*	*	V
			Powder for oral liquid	125 mg/5 mL (as sodium)		Indicated for children	/	*	*	*	V
				250 mg/5 mL (as sodium)		Indicated for children	/	*	*	*	V
	FIRST CHOICE: Bone and joint infections; Skin and soft tissue infections			SECOND CHOICE: Sepsis in neonates and children [c]							
AA0190	Doxycycline	J01AA02	Tablet or capsule	50 mg [c] (as hydrochloride)	Adult	Only for use in children < 8 if life threatening infection and when no alternative exists	*	*	*	*	V
				100 mg (as hydrochloride)	Adult		*	*	*	*	V
			Powder for oral liquid	25 mg/5 mL (monohydrate) [c].	Adult		*	*	*	*	V
			Powder for injection	100 mg in vial.	Adult		*	*	*	*	V
	FIRST CHOICE: Cholera; Sexually transmitted infection due to Chlamydia trachomatis			SECOND CHOICE: Cholera [c]; Community acquired pneumonia (mild to moderate); Exacerbations of COPD							
AB0230	Gentamicin	J01GB03	Injection	10 mg/ml (as sulfate); in 2-mL vial	Adult	Children	SN	*	*	*	V
				40 mg/ml (as sulfate) in 2-mL vial	Adult	Children	SN	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	FIRST CHOICE: Acute bacterial meningitis in neonates [c]; Community acquired pneumonia (severe) [c]; Complicated intraabdominal infections [c]; Complicated severe acute malnutrition [c]; Sepsis in neonates and children [c]			SECOND CHOICE: Gonorrhoea; Surgical prophylaxis							
AB0310	Metronidazole	J01XD01	Injection	500 mg in 100-mL vial	Adults	Children	/	*	*	*	V
			Oral liquid	200 mg/ 5 mL (as benzoate)	Adults	Children	*	*	*	*	V
AA0300			Tablet	250 mg	Adults	Children	*	*	*	*	V
				500 mg	Adults	Children	*	*	*	*	V
	FIRST CHOICE: C. difficile infection; Complicated intraabdominal infections (mild to moderate); Complicated intrabdominal infections (severe); Necrotizing fasciitis; Surgical prophylaxis; Trichomoniasis			SECOND CHOICE: Complicated intraabdominal infections (mild to moderate)							
	Nitrofurantoin	J01XE01	Tablet	50 mg [c]		Indicated for children	/	/	/	SN	V
				100 mg	Adults		/	/	/	SN	V
			Oral liquid	25 mg/5 ml [c]		Indicated for children	/	/	/	SN	V
	FIRST CHOICE: Lower urinary tract infections										
AA0440	Phenoxymethylpenicillin	J01CE02	Tablet or capsule	250 mg (as potassium)	Adults	Children	*	*	*	*	V
			Powder for oral liquid	250 mg/5 mL (as potassium)	Adults	Children	*	*	*	*	V
	FIRST CHOICE: Community acquired pneumonia (mild to moderate); Pharyngitis; Progressive apical dental abscess										
	Procaine benzylpenicillin ^{NB}	J01CE09	Powder for injection:	1 g (=1 million IU); in vial.	Adults	Children	SN	*	*	*	V
				3 g (=3 million IU) in vial	Adults	Children	SN	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
		NB – procaine benzylpenicillin is not recommended as first-line treatment for neonatal sepsis except in settings with high neonatal mortality, when given by trained health workers in cases where hospital care is not achievable.									
	FIRST CHOICE: Syphilis (congenital) [c]						SECOND CHOICE: Syphilis				
	Spectinomycin	J01XX04	Powder for injection	2 g (as hydrochloride) in vial	Adults		SN	/	/	/	N
	FIRST CHOICE:			SECOND CHOICE: Gonorrhoea							
AA0154	Sulfamethoxazole + trimethoprim (co-trimoxazole)	J01EE01	oral liquid (suspension)	200 mg + 40 mg/5 mL	Adults	Children	*	*	*	*	V
				100 mg + 20 mg	Adults	Children	*	*	*	*	V
AA0151			Tablet	400 mg + 80 mg	Adults	Children	*	*	*	*	V
NQ0111				800 mg + 160 mg	Adults		/	SN	SN	SN	V
			Injection	80 mg + 16 mg/ mL in 5-mL ampoule	Adults	Children	/	SN	SN	SN	V
	Tablet (dispersible)	100 mg + 20 mg [c].		Indicated for children	*	*	*	*	V		
	FIRST CHOICE: Lower urinary tract infections			SECOND CHOICE: Acute invasive diarrhea / bacterial dysentery							
6.2.2 WATCH group antibiotics											
NF0030	Azithromycin	J01FA10	Capsule or tablet	250 mg (anhydrous)	Adults	Children	/	*	*	*	V
			Capsule or tablet	500 mg (anhydrous)	Adults	Children	/	*	*	*	V
			Powder for oral liquid	200 mg/5 mL (anhydrous) [c]		Indicated for children	/	*	*	*	V
	FIRST CHOICE: Cholera; Enteric fever; Gonorrhoea; Sexually transmitted infection due to Chlamydia trachomatis; Trachoma; Yaws			SECOND CHOICE: Acute invasive bacterial diarrhea / dysentery; Gonorrhoea							
WHO	Cefixime	J01DD08	Capsule or tablet	200 mg (as trihydrate)	Adults	Children	/	SN	SN	*	E
			Powder for oral liquid	100 mg/5 ml [c]		Indicated for children	/	SN	SN	*	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
Comp	Ceftazidime	J01DD02	Powder for injection	1 g (as pentahydrate) in vial	Adults	Children	/	/	/	*	E
	FIRST CHOICE: Endophthalmitis										
Reserve 9 th	Ceftriaxone ^{NB}	J01DD04	Powder for injection	250 mg (as sodium) in vial	Adults	Children	/	SN	*	*	V
				1 g (as sodium) in vial	Adults	Children	/	SN	*	*	V
			NB – Ceftriaxone – a) > 41 weeks gestational age; b) Do not administer with calcium and avoid in infants with hyperbilirubinemia.								
	FIRST CHOICE: Acute bacterial meningitis; Community acquired pneumonia (severe); Complicated intraabdominal infections (mild to moderate); Complicated intrabdominal infections (severe); Endophthalmitis; Enteric fever; Gonorrhoea; Hospital acquired pneumonia; Necrotizing fasciitis; Pyelonephritis or prostatitis (severe)			SECOND CHOICE: Acute invasive bacterial diarrhea / dysentery; Bone and joint infections; pyelonephritis or prostatitis (mild to moderate); Sepsis in neonates and children [c]							
AA0130	Ciprofloxacin	J01MA02	Solid oral dosage form – tablet or capsule	100 mg (as hydrochloride)		Indicated for children	SN	*	*	*	V
				250 mg (as hydrochloride)	Adults	Children	SN	*	*	*	V
				500 mg (as hydrochloride)	Adults		SN	*	*	*	V
			Solution for IV infusion	2 mg/ml (as hyclate) [c]		Indicated for children	SN	*	*	*	V
			Oral liquid	250 mg/5 ml (anhydrous) [c]		Indicated for children	SN	*	*	*	V
	FIRST CHOICE: Acute invasive bacterial diarrhea / dysentery; Enteric fever; Low-risk febrile neutropenia; Pyelonephritis or prostatitis (mild to moderate)			SECOND CHOICE: Cholera; Complicated intraabdominal infections (mild to moderate)							
	Clarithromycin ^{NB}	J01FA09	Tablet or capsule	250 mg [c]		Indicated for children	/	/	SN	*	E
				500 mg	Adults		/	/	SN	*	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V'EN
	Clarithromycin ^{NB}	J01FA09	Powder for injection	500 mg in vial	Adults	Children	/	/	SN	*	E
			Powder for oral liquid	125 mg/5 ml	Adults	Children	/	/	SN	*	E
				250 mg/5 ml	Adults	Children	/	/	SN	*	E
NB – clarithromycin is also listed for use in combination regimens for eradication of H. pylori in adults.											
FIRST CHOICE: Community acquired pneumonia (severe)				SECOND CHOICE: Pharyngitis							
A.It of Clarif	Erythromycin ^{NB}	J01FA01	Tablet	500 mg (as stearate base)		Children (as second choice only)	/	/	SN	*	E
			Powder for oral liquid	125 mg/5 mL (as stearate base)		Children (as second choice only)	/	/	SN	*	E
NB – erythromycin – is therapeutic alternative to clarithromycin as second choice treatment for pharyngitis in children (children only)											
Comp	Meropenem ^{NB}	J01DH02	Powder for injection	500 mg (as trihydrate)	Adults	> 3 months	/	/	/	SN	E
				1 g (as trihydrate)	Adults	> 3 months	/	/	/	SN	E
NB – meropenem – for CPA3 with microbiology lab – for complicated intraabdominal infections and high-risk febrile neutropenia only. Meropenem is the preferred choice for acute bacterial meningitis in neonates.											
FIRST CHOICE:				SECOND CHOICE: Acute bacterial meningitis in neonates [c]; Complicated intraabdominal infections (severe); High-risk febrile neutropenia							
	Piperacillin + tazobactam	J01CR05	Powder for injection	2 g (as sodium) + 250 mg (as sodium) in vial	Adults	Children	/	/	/	SN	E
				4 mg (as sodium) + 500 mg (as sodium) in vial	Adults	Children	/	/	/	SN	E
FIRST CHOICE: Complicated intraabdominal infections (severe); High-risk febrile neutropenia; Hospital acquired pneumonia; Necrotizing fasciitis				SECOND CHOICE:							

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
Core	Vancomycin ^{NB} (for culture confirmed MRSA from a sterile site)	J01XA01	Powder for injection	125 mg (as hydrochloride) in vial	Adults	Children	/	/	/	SN	N
Core				250 mg (as hydrochloride) in vial	Adults	Children	/	/	/	SN	N
Comp				1g (as hydrochloride) in vial	Adults	Children	/	/	/	SN	N
			NB – vancomycin powder for injection may also be used for oral administration.								
	FIRST CHOICE:			SECOND CHOICE: C. difficile infection							
6.2.3 RESERVE group antibiotics											
	Colistin		Powder for injection	1 million IU (as colistemetate sodium) (equivalent to 34 mg colistin base activity) in vial	Adults	Children	/	/	/	SN	E
	Restricted to CPA3 with micro lab. Reserve for carbapenem-resistant Enterobacteriaceae cultured from sterile site										
6.2.4 Antileprosy medicines											
Medicines used in the treatment of leprosy must never be used alone as monotherapy for leprosy. They are used in combination in Multidrug Therapy (MDT). Combination therapy is essential to prevent the emergence of drug resistance. Color-coded blister packs (MDT blister packs) containing standard two-medicine (paucibacillary leprosy) or three-medicine (multibacillary leprosy) combinations for adult and childhood leprosy should be used. MDT blister packs can be supplied free of charge through WHO.											
NC0120	Clofazimine	J04BA01	Capsule	100 mg	Adults	Children	/	*	*	*	V
NQ0156	Dapsone	J04BA02	Tablet	100 mg	Adults	Children	/	SN	SN	SN	V
NC0083	Rifampicin	J04AB02	Tablet or capsule	150 mg	Adults	Children	/	*	*	*	V
			Oral liquid	20 mg/mL		Indicated for children	/	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N		
NC0020	Multibacillary (MB) leprosy	Adult	Color-coded blister packs	Multi-drug therapy (MDT)	Adults		*	*	*	*	V		
NC0030	Multibacillary (MB) leprosy	Child			Children		*	*	*	*	V		
NC0040	Paucibacillary (PB) leprosy	Adult			Adults		*	*	*	*	V		
NC0050	Paucibacillary (PB) leprosy	Child			Children		*	*	*	*	V		
6.2.5 Antituberculosis medicines													
Antituberculosis medicines should be used according to the national treatment guidelines.													
NC009	Ethambutol (E)	J04AK02	Tablet	100 mg			*	*	*	*	V		
NC0010				400 mg									
			Tablet (dispersible)	100 mg [c]		Indicated for children	*	*	*	*	V		
NC0082	Ethambutol + isoniazid + pyrazinamide + rifampicin	J04AM06	Tablet	275 mg + 75 mg + 400 mg + 150 mg	Adults		*	*	*	*	V		
	Ethambutol + isoniazid + rifampicin		Tablet	275 mg + 75 mg + 150 mg	Adults		*	*	*	*	V		
NC0011	Isoniazid [H]	J04AC01	Tablet	100 mg	Adults	Children	/	*	*	*	V		
						300 mg						Adults	Children
					Tablet (dispersible)	100 mg [c]							Indicated for children
NC0081	Isoniazid + pyrazinamide + rifampicin	J04AM05	Tablet (dispersible)	50 mg + 150 mg + 75 mg [c]		Indicated for children	*	*	*	*	V		
NC0071	Isoniazid + rifampicin	J04AM02	Tablet	75 mg + 150 mg	Adults		*	*	*	*	V		

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
NC0069	Isoniazid + rifampicin		Tablet	150 mg+ 300 mg	Adults		*	*	*	*	V
			Tablet (dispersible)	50 mg + 75 mg [c]		Indicated for children	*	*	*	*	V
	Isoniazid + rifapentine		Tablet (scored)	300 mg + 300 mg (disoproxil fumarate)	Adults	Children	*	*	*	*	V
NC0060	Pyrazinamide [Z]	J04AK01	Tablet	400 mg	Adults	Children	/	*	*	*	V
				500 mg	Adults	Children	/	*	*	*	V
NC0083	Rifampicin [R]	J04AB02	Tablet or Capsule	150 mg	Adults	Children	/	*	*	*	V
				300 mg	Adults	Children	/	*	*	*	V
Medicines for the treatment of multidrug-resistance tuberculosis (MDR-TB) must be used in TB clinics adhering to the national treatment guidelines.											
GA3901	Amikacin	J01GB06	Powder for injection	250 mg/ml (as sulfate) in 2 ml vial	Adults	Children	/	/	/	SN	E
	Bedaquiline	J04AK05	Tablet	20 mg		Indicated for children	/	/	/	SN	E
				100 mg	Adults	Children	/	/	/	SN	E
	Clofazimine	J04BA01	Capsule	100 mg	Adults	Children	/	/	/	SN	E
	Cycloserine	J04AB01	Tablet or capsule	125 mg [c]		Indicated for children	/	/	/	SN	E
				250 mg;	Adults	Children	/	/	/	SN	E
	Ethionamide	J04AD03	Tablet (dispersible)	125 mg [c]		Indicated for children	/	/	/	SN	E
		J04AD03	Tablet	250 mg	Adults	Children	/	/	/	SN	E
	Levofloxacin	J01MA12	Tablet	250 mg	Adults	Children	/	/	/	SN	E
			Tablet (dispersible)	100 mg [c]		Indicated for children	/	/	/	SN	E
	Linezolid	J01XX08	Tablet	600 mg	Adults	Children	/	/	/	SN	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V ^{EN}
	Linezolid		Tablet (dispersible)	150 mg [c]		Indicated for children	/	/	/	SN	E
	Moxifloxacin	J01MA14	Tablet	400 mg	Adults	Children	/	/	/	SN	E
	Moxifloxacin		Tablet (dispersible)	100 mg [c]		Indicated for children	/	/	/	SN	E
	P-aminosalicylate sodium		Powder for oral solution	5.52 g in sachet (equivalent to 4 g p-aminosalicylic acid)	Adults	Children	/	/	/	SN	E
	Protionamide	J04AD01	Tablet	250 mg	Adults		/	/	/	SN	E
NC0092	Streptomycin [c]	J01GA01	Powder for injection	1 g (as sulfate) in vial		Indicated for children	SN	*	*	*	E
6.3 Antifungal medicines											
AB0022	Amphotericin B ^{NB}	J02AA01	Powder for injection	50 mg in vial (as liposomal complex)			/	SN	SN	SN	V
			NB – amphotericin B – Liposomal amphotericin B has a better safety profile than the sodium deoxycholate formulation and should be prioritized for selection and use depending on local availability and cost.								
	Clotrimazole	G01AF02	Vaginal tablet	100 mg	Adults		*	*	*	*	V
NF0100				500 mg	Adults		SN	SN	SN	SN	V
NQ2286		D01AC01	Vaginal cream	1%	Adults		*	*	*	*	V
				10%	Adults		*	*	*	*	V
AA0221	Fluconazole	J02AC01	Tablet or capsule	50 mg	Adults	Children	SN	*	*	*	V
				200 mg	Adults	Children	SN	*	*	*	V
			Injection	2 mg/ml in vial	Adults	Children	SN	*	*	*	V
			Powder for oral liquid	50 mg/ml [c]	Adults	Indicated for children	SN	*	*	*	V
NF0130	Griseofulvin	D01BA01	Tablet or capsule	125 mg	Adults	Children	*	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Griseofulvin	D01BA01	Tablet or capsule	250 mg	Adults	Children	*	*	*	*	V
			Oral liquid	125 mg/5ml [c]		Indicated for children	*	*	*	*	V
	Itraconazole ^{NB}	J02AC02	Tablet or capsule	100 mg	Adults	Children	/	SN	SN	SN	E
			NB – Itraconazole – For treatment of chronic pulmonary aspergillosis, histoplasmosis, sporotrichosis, paracoccidioidomycosis, mycoses caused by T. Marneffeii and chromoblastomycosis; and prophylaxis of histoplasmosis and infections caused by T. Marneffeii in AIDS patients.								
AA0380	Nystatin	G01AA01	Solid oral dosage form (tablet or capsule)	500 000 IU	Adults	Children	SN	*	*	*	V
			Oral liquid	100 000 IU/ml [c]		Indicated for children	SN	*	*	*	V
	Voriconazole ^{NB}	J02AC03	Tablet	50 mg	Adults	Children	/	*	*	*	E
				200 mg	Adults	Children	/	*	*	*	E
			NB – voriconazole – For treatment of chronic pulmonary aspergillosis and acute invasive aspergillosis.								
6.4 Antiviral medicines											
6.4.1 Anti-herpes medicines											
NF0010	Acyclovir	J05AB01	Tablet	200 mg	Adults	Children	/	SN	SN	SN	V
			Oral liquid	200 mg/ml [c]		Indicated for children	/	SN	SN	SN	V
			Powder for injection	250 mg (as sodium salt) in vial	Adults	Children	/	SN	SN	SN	V
6.4.2 Antiretrovirals											
These medicines should be used according to the national treatment guidelines of HIV/AIDS.											
6.4.2.1 Nucleoside/Nucleotide reverse transcriptase inhibitors											
NE0010	Abacavir (ABC)	J05AF06	Tablet	300 mg (as sulfate)	Adults		SN	SN	SN	SN	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
NE0070	Lamivudine (3TC)	J05AF05	Tablet	150 mg	Adults		SN	SN	SN	SN	V
NE0270	Tenofovir disoproxil fumarate (TDF) ^{NB}	J05AF07	Tablet	300 mg	Adults		SN	SN	SN	*	V
			NB – TDF – also indicated for pre-exposure prophylaxis.								
NE0302	Zidovudine	J05AF01	Oral liquid	50mg/5ml		Indicated for children	SN	SN	SN	SN	V
6.4.2.2 Non-nucleoside reverse transcriptase inhibitors											
NE0051	Efavirenz (EFV or EFZ)	J05AG03	Tablet	400 mg	Adults		SN	SN	SN	SN	V
NE0052				600 mg	Adults		SN	SN	SN	SN	SN
NE0180	Nevirapine (NVP)	J05AG01	Oral liquid	50 mg/5 mL		> 6 weeks	SN	SN	SN	SN	V
6.4.2.3 Protease inhibitors											
Ritonavir is recommended for use in combination as a pharmacological booster, and not as an antiretroviral in its own right. All other protease inhibitors should be used in boosted forms (e.g. with ritonavir).											
NE0015	Atazanavir + ritonavir		Tablet	300 mg (as sulfate) +100 mg			SN	SN	SN	SN	V
NE0047	Darunavir	J05AE10	Tablet	75 mg		> 3 years	SN	SN	SN	SN	V
				400 mg			SN	SN	SN	SN	V
				600 mg			SN	SN	SN	SN	V
				800 mg			SN	SN	SN	SN	V
	Darunavir + ritonavir (DRV/r)		Tablet	400 mg + 50 mg			SN	SN	SN	SN	N
NE0150	Lopinavir + ritonavir (LPV/r)	J05AR10	Capsule	100 mg + 25 mg			SN	SN	SN	SN	V
NE0141				200 mg + 50 mg			SN	SN	SN	SN	V
NE0143				Solid oral dosage form	40 mg + 10 mg [c]		Indicated for children	SN	SN	SN	SN

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
NE0220	Ritonavir	J05AE03	Tablet	25 mg		Indicated for children	SN	SN	SN	SN	V
				100 mg	Adults		SN	SN	SN	SN	V
6.4.2.4 Integrase Inhibitors											
NE0048	Dolutegravir	J05AX12	Tablet (dispersible, scored)	10 mg	Adults	≥ 4 weeks and ≥ 3 kg	SN	SN	SN	SN	V
			Tablet	50 mg	Adults	> 25 kg	SN	SN	SN	SN	V
6.4.2.5 Fixed-dose combinations for antiretroviral medicines											
NE0017	Abacavir + lamivudine	J05AR02	Tablet (dispersible, scored)	120 mg (as sulfate) + +60 mg	Adults	Children	SN	SN	SN	SN	V
	Dolutegravir + lamivudine + tenofovir	J05AR27	Tablet	50 mg + 300 mg + 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil)	Adults		SN	SN	SN	SN	V
	Efavirenz + lamivudine + tenofovir	J05AR11	Tablet	400 mg + 300 mg + 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil)	Adults		SN	SN	SN	SN	V
NE0272	Lamivudine + tenofovir ^{NB}	J05AR03	Tablet	300 mg + 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).	Adults		SN	SN	SN	SN	V
			NB – Lamivudine + tenofovir – Also indicated for pre-exposure prophylaxis								
NE0113	Lamivudine + zidovudine	J05AR01	Tablet	30 mg + 60 mg [c]		Indicated for children	SN	SN	SN	SN	V
			Tablet	150 mg + 300 mg	Adults		SN	SN	SN	SN	V
6.4.2.6 Medicines for prevention of HIV-related opportunistic infections											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	J04AC51	Tablet (scored):	300 mg + 25 mg + 800 mg + 160 mg	Adults	Children	SN	SN	SN	SN	V
6.4.3 Other Antivirals ^{NB}											
NB: If any addition of next EML Revision (11th Edition)											
6.4.4 Anti-hepatitis medicines											
6.4.4.1 Medicines for Hepatitis B											
6.4.4.1.1 Nucleoside/nucleotide reverse transcriptase inhibitors											
	Entecavir	J05AF10	Tablet	500 micrograms (0.5 mg)	Adults	Children	/	/	/	*	N
			Oral liquid	50 micrograms (0.05 mg) / mL	Adults	Children					
	Tenofovir disoproxil fumarate (TDF)	J05AF07	Tablet	300 mg (equivalent to 245 mg tenofovir disoproxil)	Adults		/	/	/	*	V
6.4.4.2 Medicine for Hepatitis C											
6.4.4.2.1 Pangenotypic direct-acting antiviral combinations											
	Daclatasvir + sofosbuvir	J05AP07 J05AP08	Tablet	60 mg+ 400 mg	Adults	Children > 3 years and 14 kg	/	*	*	*	V
	Glecaprevir + pibrentasvir		Tablet	100 mg + 40 mg.							
			Granules:	50 mg + 20 mg in sachet [c].							
	Ravidasvir* [*Pangenotypic when used in combination with sofosbuvir]		Tablet	200 mg.							

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Sofosbuvir + velpatasvir	J05AP55	Tablet	400 mg + 100 mg	Adults	Children > 3 years and 14 kg	/	*	*	*	N
6.4.4.2.2 Non-pangenotypic direct-acting antiviral combinations^{NB}											
NB: If any addition of next EML Revision (11th Edition)											
6.4.4.2.3 Other antivirals											
	Ribavirin (in combination with DAA medicines)	J05AB04	Tablet or capsule	200 mg	Adults		/	/	/	*	N
				400 mg	Adults						
6.5 Antiprotozoal medicines											
6.5.1 Antiamoebic and anti giardiasis medicines											
AB0310	Metronidazole	P01AB01	Injection	500 mg in 100- mL vial	Adults	Children	/	*	*	*	N
			Oral liquid	200 mg (as benzoate)/5 mL	Adults	Children	*	*	*	*	E
			Tablet	250 mg;	Adults	Children	*	*	*	*	E
AA0300				500 mg	Adults	Children	*	*	*	*	E
6.5.2 Antileishmaniasis Medicines											
AB0022	Amphotericin B	J02AA01	Powder for Injection	50 mg in vial (as liposomal complex) ^{NB}			/	SN	SN	SN	V
				NB – Liposomal amphotericin B has a better safety profile than the sodium deoxycholate formulation and should be prioritized for selection and use depending on local availability and cost.							
6.5.3 Antimalarial medicines											
The use of antimalarial medicines should be based on the national treatment guidelines of malaria.											
6.5.3.1 For curative treatment											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N		
ND0040	Artemether	P01BE02	Oily injection	80 mg/ mL in 1- mL ampoule (for severe malaria)			SN	*	*	*	V		
	Artemether + lumefantrine	P01BF01	Tablet	20 mg + 120 mg.	Adults	Children > 5kg	SN	*	*	*	V		
ND0041	Artesunate ^{NB}	P01BE03	Injection	60 mg anhydrous artesunic acid with a separate ampoule of 5% sodium bicarbonate solution. For severe malaria			SN	*	*	*	V		
NB – Artesunate – To be used in combination with ACT as per national guidelines													
ND0056	Artesunate + mefloquine ^{NB}	P01BF02	Tablet	25 mg + 50 mg (blister/3 Tabs) n1			*	*	*	*	V		
				25 mg + 50 mg (blister/6 Tabs) n1			*	*	*	*	V		
				n1 – 25 mg artesunate and 55 mg mefloquine hydrochloride (equivalent to 50 mg mefloquine base)									
				100 mg + 200 mg (blister/3 Tabs) n2			*	*	*	*	V		
ND0058				100 mg + 200 mg (blister/6 Tabs) n2			*	*	*	*	V		
				n2 – 100 mg artesunate and 220 mg mefloquine hydrochloride (equivalent to 200 mg mefloquine base)									
NB – Artesunate + Mefloquine – dosing according to weight as per national guidelines													
	Artesunate + Pyronaridine tetrphosphate ^{NB}	P01BF06	Granules	20 mg + 60 mg		> 5 to 20 kg							
			Tablet	60 mg + 180 mg.	Adults	> 20 kg							
NB – Artesunate + Pyronaridine tetrphosphate- dosing according to weight as per national guidelines													

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Primaquine ^{NB}	P01BA03	Tablet	7.5 mg (as diphosphate)	Adults	> 6 months	SN	*	*	*	E
			NB – Primaquine – dosing by weight as per national guidelines								
ND0140	Quinine ^{NB}	P01BC01	Injection	300 mg/mL (hydrochloride)/ in 2 mL ampoule			SN	*	*	*	V
ND0150			Tablet	300 mg (quinine sulfate) or 300 mg (quinine bisulfate)			SN	*	*	*	V
6.5.3.2 Antipneumocystosis and Antitoxoplasmosis medicines											
AA0190	Doxycycline ^{NB}	J01AA02	Solid oral dosage form (tablet or capsule)	100 mg (as hydrochloride)	Adults	> 8 years	SN	SN	SN	SN	N
			NB – Doxycycline – For use as chemoprophylaxis for travelers as per national guidelines								
6.5.4 Antipneumocystosis and Antitoxoplasmosis medicines											
AA0153	Sulfamethoxazole + Trimethoprim (co-trimoxazole)	J01EE01	Oral liquid	200 mg + 40 mg/5mL [C]		Indicated for children	*	*	*	*	V
AA0151			Tablet	400 mg + 80 mg [c]		Indicated for children	/	SN	SN	SN	V
AA0152				800 mg + 160 mg	Adults						
6.6. Medicines for COVID-19											
<p>Effective and safe therapeutics for prevention and treatment of COVID-19 should be considered as essential medicines in the context of the public health emergency. Given regular updated to global and national guidelines for COVID-19 medicines – these guidelines and latest evidence, national epidemiology and priorities should be referred to for appropriate inclusion of COVID-19 medicines</p>											

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Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
7. ANTIMIGRAINE MEDICINES											
7.1 For treatment of acute attack											
AA0010	Acetylsalicylic acid	N02BA01	Tablet	500 mg	Adults		*	*	*	*	V
AA0590	Ibuprofen	M01AE01	Tablet	200 mg	Adults	Children	*	*	*	*	V
NQ0402				400 mg	Adults	Children	*	*	*	*	V
			Oral liquid [c]	100 mg/5 ml [c]		Indicated for children	*	*	*	*	V
AA0410	Paracetamol	N02BE01	Tablet	250 mg	Adults	Children	*	*	*	*	V
AA0411				500 mg	Adults	Children					
			Suppository	250 mg [c]		Indicated for children					
AA0413			Oral liquid	125 mg/5 mL [c]		Indicated for children	*	*	*	*	V
7.2 For Prophylaxis											
	Propranolol	C07AA05	Tablet	20 mg (hydrochloride)	Adults	Children	/	*	*	*	V
8. ANTINEOPASTICS AND IMMUNOSUPPRESSIVES											
8.1 Immunomodulators for non-malignant disease											
	Azathioprine		Tablet	25 mg [c]		Indicated for children	/	/	/	*	N
			Tablet (scored)	50 mg	Adults		/	/	/	*	N
8.2 Cytotoxic and adjuvant medicines											
	Asparaginase	L01XX02	Powder for injection	10 000 IU in vial	Adults	Children	/	/	/	SN	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	for acute lymphoblastic leukemia										
NJ0010	Bleomycin	L01DC01	Powder for injection	15 000 IU (as sulfate) in vial	Adults	Children	/	/	/	SN	E
	Hodgkin lymphoma; Kaposi sarcoma; Ovarian germ cell tumor; Testicular germ cell tumor										
	Carboplatin	L01XA02	Injection	150 mg/15 mL	Adults	Children	/	/	/	SN	V
	Cervical cancer; Early-stage breast cancer; Epithelial ovarian cancer; Head and neck cancer (as a radio-sensitizer); Low-grade glioma; Nasopharyngeal cancer; Nephroblastoma (Wilms tumor); non-small cell lung cancer; Osteosarcoma; Ovarian germ cell tumor; Retinoblastoma; Testicular germ cell tumor										
NJ0020	Cisplatin	L01XA01	Injection	50 mg/50 mL	Adults	Children	/	/	/	SN	N
	Cervical cancer; Head and neck cancer (as a radio-sensitizer); Low-grade glioma; Nasopharyngeal cancer (as a radio-sensitizer); Non-small cell lung cancer; Osteosarcoma; Ovarian germ cell tumor; Testicular germ cell tumor										
NJ0030	Cyclophosphamide	L01AA01	Powder for injection	500 mg in vial	Adults	Children	/	/	/	SN	N
			Solid oral dosage form	25 mg	Adults	Children	/	/	/	SN	N
Acute lymphoblastic leukemia; Anaplastic large cell lymphoma; Burkitt lymphoma; Chronic lymphocytic leukemia; Diffuse large B-cell lymphoma; Early stage breast cancer; Ewing sarcoma; Follicular lymphoma; Gestational trophoblastic neoplasia; Hodgkin lymphoma; Low-grade glioma; Metastatic breast cancer; Multiple myeloma; Nephroblastoma (Wilms tumor); Rhabdomyosarcoma											
	Daunorubicin	L01DB02	Powder for injection	20 mg (as hydrochloride) in vial	Adults	Children	/	/	/	SN	E
				50 mg (as hydrochloride) in vial	Adults	Children	/	/	/	SN	E
Acute lymphoblastic leukemia; Acute myeloid leukemia; Acute promyelocytic leukemia											
NJ0050	Doxorubicin	L01DB01	Powder for injection	50 mg (hydrochloride) in vial	Adults	Children	/	/	/	SN	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Acute lymphoblastic leukemia; Anaplastic large cell lymphoma; Burkitt lymphoma; Diffuse large B-cell lymphoma; Early-stage breast cancer; Ewing sarcoma; Follicular lymphoma; Hodgkin lymphoma; Kaposi sarcoma; Metastatic breast cancer; Multiple myeloma; Nephroblastoma (Wilms tumor); Osteosarcoma										
NJ060	Etoposide	L01CB01	Injection	20 mg/mL in 5-mL in ampoule	Adults	Children	/	/	/	SN	E
			Capsule	50 mg	Adults	Children	/	/	/	SN	E
	Acute lymphoblastic leukemia; Acute myeloid leukemia; Anaplastic large cell lymphoma; Burkitt lymphoma; Ewing sarcoma; Gestational trophoblastic neoplasia; Hodgkin lymphoma; Nephroblastoma (Wilms tumor); non-small cell lung cancer; Osteosarcoma; Ovarian germ cell tumor; Retinoblastoma; Testicular germ cell tumor										
NJ0070	Fluorouracil	L01BC02	Injection	50 mg/mL in 5-mL ampoule	Adults	Children	/	/	/	SN	E
	Early-stage colon cancer; Early-stage rectal cancer; Nasopharyngeal cancer; Metastatic colorectal cancer										
	Ifosfamide	L01AA06	Injection	1 g in vial;	Adults	Children	/	/	/	SN	E
	Anaplastic large cell lymphoma; Burkitt lymphoma; Ewing sarcoma; Nephroblastoma (Wilms tumor); Ovarian germ cell tumor; Osteosarcoma; Rhabdomyosarcoma; Testicular germ cell tumor										
NJ0080	Methotrexate	L04AX03	Powder for injection	50 mg (as sodium salt) in vial	Adults	Children	/	/	/	SN	N
			tablet	2.5 mg (as sodium)	Adults	Children	/	/	/	SN	N
	Acute lymphoblastic leukemia; Acute promyelocytic leukemia; Anaplastic large cell lymphoma; Burkitt lymphoma; Early stage breast cancer; Gestational trophoblastic neoplasia; Langerhans cell histiocytosis; Osteosarcoma										
	Vinblastine	L01CA01	Injection	10 mg / 10mL (sulfate) in vial	Adults	Children	/	/	/	SN	V
			powder for injection	10 mg (sulfate) in vial	Adults	Children	/	/	/	SN	V
	Anaplastic large cell lymphoma; Hodgkin lymphoma; Kaposi sarcoma; Langerhans cell histiocytosis; Low-grade glioma; Ovarian germ cell tumor; Testicular germ cell tumor										
NJ0130	Vincristine	L01CA02	Powder for injection	1 mg; (sulfate) in vial	Adults	Children	/	/	/	SN	N
	Acute lymphoblastic leukemia; Burkitt lymphoma; Diffuse large B-cell lymphoma; Ewing sarcoma; Follicular lymphoma; Gestational trophoblastic neoplasia; Hodgkin lymphoma; Kaposi sarcoma; Langerhans cell histiocytosis; Low-grade glioma; Nephroblastoma (Wilms tumor); Retinoblastoma; Rhabdomyosarcoma										

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
8.2.4 Hormones and antihormones											
AB0130	Dexamethasone	H02AB02	Injection	4 mg/mL in 1-mL ampoule (as disodium phosphate salt)	Adults	Children	/	*	*	*	V
			Oral liquid [c]	2 mg/5ml		Indicated for children					
	Dexamethasone	H02AB02	Tablet	2 mg [c];		Indicated for children					
				4 mg	Adults	Children					
Acute lymphoblastic leukemia; Anaplastic large cell lymphoma; Burkitt lymphoma; Multiple myeloma											
AB0250	Hydrocortisone	H02AB09	Powder for injection	100 mg (as sodium succinate) in vial	Adults	Children	SN	SN	*	*	V
				Tablet	10mg	Adults		SN	SN	*	*
Acute lymphoblastic leukemia; Burkitt lymphoma											
AA0470	Prednisolone	H02AB06	Tablet	5 mg;	Adults	Children	SN	*	*	*	V
				25 mg	Adults	Children	SN	*	*	*	V
			Oral liquid [c]	5 mg/ml		Indicated for children	SN	*	*	*	V
Acute lymphoblastic leukemia; Anaplastic large cell lymphoma; Burkitt lymphoma; Chronic lymphocytic leukemia; Diffuse large B-cell lymphoma; Follicular lymphoma; Hodgkin lymphoma; Langerhans cell histiocytosis; Metastatic castration-resistant prostate cancer; Multiple myeloma											
NJ0120	Tamoxifen	L02BA01	Tablet	10 mg; (as citrate)	Adults		/	/	/	SN	V
				20 mg (as citrate)	Adults		/	/	/	SN	V
Early-stage breast cancer; Metastatic breast cancer.											
8.2.5 Supportive medicines											
	Allopurinol	M04AA01	Tablet	100 mg	Adults	Children	/	/	*	*	E
Tumor lysis syndrome											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N			
9. THERAPUTIC FOODS														
9.1 Ready to use therapeutic foods														
	Nutrix		Wafer	Packet		Children	*	*	*	*	V			
ready to use therapeutic food should be of nutritional composition as determined by the UN joint statement on the community-based management of severe acute malnutrition and Codex Alimentarius Guidelines.														
10. MEDICINES AFFECTING THE BLOOD														
10.1 Antianemia medicines														
AA0212	Ferrous salt	B03AA02 B03AA07	Oral liquid (as sulfate)	equivalent to 25 mg iron (as sulfate)/ml	Adults	Children	*	*	*	*	V			
			Tablet	equivalent to 60 mg iron	Adults	Children	*	*	*	*	V			
AA0210	Ferrous salt + folic acid ^{NB}	B03AD03	Tablet	equivalent to 60 mg elemental iron + 400 micrograms folic acid NB	Adults		*	*	*	*	V			
				NB – ferrous salt + folic acid (60mg + 400 micrograms) as supplement for use during pregnancy										
				equivalent to 60 mg elemental iron + 2.8 mg folic acid NB	Adults		*	*	*	*	E			
NB – ferrous salt + folic acid (60mg + 2.8 mg) or weekly iron and folic acid supplementation														
AA0230	Folic acid	B03BB01	Tablet	400 micrograms ^{NB}	Adults		*	*	*	*	V			
NB – 400 micrograms folic acid for preconceptual use for prevention of first occurrence of neural tube defects														
				1 mg	Adults	Children	*	*	*	*	V			
				5 mg	Adults	Children	*	*	*	*	V			

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Hydroxocobalamin (Vitamin B12)	B03BA03	Injection	1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule	Adults	Children	/	/	SN	*	V
10.2 Medicines affecting coagulation											
	Dabigatran	B01AE07	Capsule	110 mg	Adults		/	/	*	*	E
	Heparin sodium	B01AB01	Injection	5 000 IU/mL in ampoule	Adults		/	/	SN	SN	V
				20 000 IU/mL in ampoule	Adults		/	/	SN	SN	V
	Phytonadione (vitamin k1)	B02BA01	Injection	1 mg/ml in ampoule [c];		Indicated for children	*	*	*	*	V
				10 mg/1 ml in 5-mL ampoule	Adults	Children	*	*	*	*	V
AB0420			Tablet	10 mg	Adults	Children	*	*	*	*	V
	Tranexamic acid	B02AA02	Injection	100 mg/ mL in 10 mL ampoule	Adults		/	/	*	*	E
10.3 Other medicines for haemoglobinopathies											
	Deferiprone	V03AC03	Tablet (dispersible)	100 mg	Adults	Children					
				250 mg	Adults	Children					
			Tablet film coated	90 mg	Adults	Children					
				360 mg	Adults	Children					
11. BLOOD PRODUCTS OF HUMAN ORIGIN AND PLASMA SUBSTITUTES											
11.1 Blood and blood components											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
<p>Achieving self-sufficiency, unless special circumstances preclude it, in the supply of safe blood components based on voluntary, non-remunerated blood donation, and the security of that supply are important national goals to prevent blood shortages and meet the transfusion requirements of the patient population. Requirements should be in line with WHO national blood program guidelines – but may include the below</p>											
	Fresh-frozen plasma										
	Platelets										
	Red blood cells										
	Whole blood										
11.2 Plasma- derived medicines											
All human plasma-derived medicines should comply with the WHO requirements.											
11.2.1 Human immunoglobulins											
	Anti-D immunoglobulin	J06BB01	Injection	250 micrograms in single-dose vial	Adults		SN	SN	SN	SN	V
	Anti-rabies immunoglobulin	J06BB05	Injection	150 IU/mL in vial	Adults	Children	/	SN	SN	SN	E
NB0020	Anti-tetanus immunoglobulin	J06BB02	Injection	500 IU in vial	Adults	Children	/	/	*	*	V
11.3 Plasma Substitutes											
	Dextran 40		Injectable solution	9% Normal saline in 500 ml	Adults		/	/	*	*	V
	Dextran 70	B05AA05	Injectable solution	6%	Adults	Children	/	/	*	*	V
12. CARDIOVASCULAR MEDICINES											
12.1 Antianginal medicines											
	Bisoprolol	C07AB07	Tablet	2.5 mg	Adults		/	/	*	*	V
				5 mg	Adults		/	/	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AA0550	Isosorbide dinitrate	C01DA08	Tablet	10 mg	Adults		/	*	*	*	V
12.2 Antiarrhythmic medicines											
	Amiodarone	C01BD01	Injection	50 mg/mL in 3-mL ampoule (hydrochloride)	Adults		/	/	/	SN	N
			Tablet	100 mg (hydrochloride)	Adults		/	/	/	SN	N
	Bisoprolol	C07AB07	Tablet	2.5 mg	Adults		/	/	*	*	V
				5 mg	Adults		/	/	*	*	V
AB0160	Digoxin	C01AA05	Injection	250 micrograms/mL in 2-mL	Adults		/	/	*	*	V
			Tablet	62.5 micrograms	Adults		/	*	*	*	V
AA0180				250 micrograms	Adults		/	*	*	*	V
AB0010	Epinephrine (Adrenaline)	C01CA24	Injection	1 mg (as hydrochloride or hydrogen tartrate) in 1- mL	Adults		SN	*	*	*	V
	Verapamil	C08DA01	Injection	2.5 mg/mL (hydrochloride) in 2 mL ampoule	Adults		/	/	*	*	N
			Tablet	40 mg (hydrochloride)	Adults		/	/	*	*	N
				80 mg (hydrochloride)							
12.3 Antihypertensive medicines											
AA0081	Amlodipine	C08CA01	Tablet	5 mg (as maleate, mesylate or besylate)			*	*	*	*	V
AA0080	Atenolol ^{NB}	C07AB03	Tablet	50 mg	Not older than 60 years		*	*	*	*	V
			NB – atenolol should not be used as a first-line agent in uncomplicated hypertension in patients > 60 years								
	Bisoprolol	C07AB07	Tablet	2.5 mg	Adults		*	*	*	*	V
				5 mg	Adults		*	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Enalapril	C09AA02	Tablet	2.5 mg (as hydrogen maleate)	Adults	Children	*	*	*	*	V
				5 mg (as hydrogen maleate)	Adults		*	*	*	*	V
AA0202				10 mg (as hydrogen maleate)	Adults		*	*	*	*	V
AB0240	Hydralazine ^{NB}	C02DB02	Powder for injection	20 mg (hydrochloride) in ampoule	Adults		SN	*	*	*	V
AA0250			Tablet	25 mg (hydrochloride)	Adults		*	*	*	*	V
			NB – Hydralazine is listed for use only in the acute management of severe pregnancy-induced hypertension. Its use in the treatment of essential hypertension is not recommended in view of the evidence of greater efficacy and safety of other medicines.								
AA0260	Hydrochlorothiazide	C03AA03	Solid oral dosage form (tablet or capsule)	25 mg	Adults		*	*	*	*	V
	Lisinopril + amlodipine	C09BB03	Tablet	10 mg + 5 mg	Adults		SN	SN	SN	SN	N
				20 mg+ 5 mg	Adults		SN	SN	SN	SN	N
				20 mg+ 10 mg	Adults		SN	SN	SN	SN	N
	Lisinopril + hydrochlorothiazide	C09BA03	Tablet	10 mg + 12.5 mg	Adults		SN	SN	SN	SN	N
				20 mg + 12.5 mg	Adults		SN	SN	SN	SN	N
				20 mg + 25 mg	Adults		SN	SN	SN	SN	N
	Losartan	C09CA01	Tablet	25 mg	Adults		*	*	*	*	V
				50 mg	Adults		*	*	*	*	V
AA0290	Methyldopa ^{NB}	C02AB01	Tablet	250 mg	Adults		SN	*	*	*	V
			NB – Methyldopa is listed for use only in the management of pregnancy-induced hypertension. Its use in the treatment of essential hypertension is not recommended in view of the evidence of greater efficacy and safety of other medicines.								

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Telmisartan + amlodipine	C09DB04	Tablet	40 mg + 5 mg	Adults		SN	SN	SN	SN	N
				80 mg + 5 mg	Adults		SN	SN	SN	SN	N
				80 mg + 10 mg	Adults		SN	SN	SN	SN	N
	Telmisartan + hydrochlorothiazide	C09DA07	Tablet	40 mg + 12.5 mg	Adults		SN	SN	SN	SN	N
				80 mg + 12.5 mg	Adults		SN	SN	SN	SN	N
				80 mg + 25 mg	Adults		SN	SN	SN	SN	N
12.4 Medicines used in heart failure											
	Bisoprolol	C07AB07	Tablet	2.5 mg	Adults		/	/	*	*	V
				5 mg	Adults		/	/	*	*	V
AA0180	Digoxin	C01AA05	Tablet	62.5 micrograms	Adults	Children	/	*	*	*	V
				250 micrograms	Adults						
AB0160			Injection	250 micrograms/mL in 2-mL ampoule	Adults		/	/	*	*	E
AB0170	Dopamine	C01CA04	Injection	40 mg/mL in 5-mL vial (hydrochloride)	Adults	Children	/	/	SN	*	E
AA0202	Enalapril	C09AA02	Tablet	2.5 mg (as hydrogen maleate)	Adults		/	/	SN	*	V
				5 mg (as hydrogen maleate)	Adults		/	/	SN	*	V
				10 mg (as hydrogen maleate)	Adults		/	/	SN	*	V
AB0220	Furosemide	C03CA01	Injection	10 mg/mL in 2-mL ampoule	Adults	Children	/	*	*	*	V
AA0240			Tablet	20 mg	Adults	Children	SN	*	*	*	V
				40 mg	Adults	Children	SN	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Furosemide	C03CA01	Oral liquid	20 mg/5 mL [c].		Indicated for children	/	SN	*	*	V
				50 mg/5 mL [c].		Indicated for children	/	SN	*	*	V
AA0260	Hydrochlorothiazide	C03AA03	Scored tablet	25 mg	Adults		*	*	*	*	E
	Losartan	C09CA01	Tablet	25 mg	Adults		*	*	*	*	V
				50 mg	Adults		*	*	*	*	V
	Spirolactone		Tablet	25 mg	Adults		/	SN	SN	*	N
12.5 Antithrombotic medicines											
12.5.1 Anti-platelet medicines											
	Acetylsalicylic acid	B01AC06	Tablet	100 mg	Adults		*	*	*	*	V
12.5.2 Thrombolytic medicines											
	Streptokinase	B01AD01	Powder for injection	1.5 million IU in vial	Adults		/	/	SN	SN	E
12.6 Lipid- lowering agents											
AA0505	Simvastatin ^{NB}	C10AA01	Tablet	20 mg	Adults		/	/	*	*	E
NB – As statin for use in high cardiovascular disease (CVD) risk patients											
12.7 Fixed-dose combinations for prevention of atherosclerotic cardiovascular disease											
	Acetylsalicylic acid + atorvastatin + ramipril	C10BX06	Tablet	100 mg + 20 mg + 2.5 mg	Adults		SN	SN	SN	SN	N
				100 mg + 20 mg + 5 mg	Adults		SN	SN	SN	SN	N
				100 mg + 20 mg + 10 mg	Adults		SN	SN	SN	SN	N

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Acetylsalicylic acid + atorvastatin + ramipril	C10BX06	Tablet	100 mg + 40 mg + 2.5 mg	Adults		SN	SN	SN	SN	N
				100 mg + 40 mg + 5 mg	Adults		SN	SN	SN	SN	N
				100 mg + 40 mg + 10 mg	Adults		SN	SN	SN	SN	N
	Acetylsalicylic acid + simvastatin + ramipril + atenolol + hydrochlorothiazide		Tablet	100 mg + 20 mg + 5 mg + 50 mg + 12.5 mg.	Adults		SN	SN	SN	SN	N
13. DERMATOLOGICAL ITEMS (topical)											
13.1 Antifungal medicines											
NP0190	Miconazole	D01AC02	Cream or Ointment	2% (nitrate)	Adults	Children	*	*	*	*	E
	Terbinafine	D01AE15	Cream or ointment	1% (hydrochloride)	Adults	Children	*	*	*	*	N
13.2 Anti-infective medicines											
	Mupirocin	D06AX09	Cream or Ointment	2%	Adults	Children					E
13.3 Anti-inflammatory and antipruritic medicines											
	Betamethasone ^{NB}	D07AC01	Cream or Ointment	0.1% (as valerate)	Adults	Children	SN	SN	SN	SN	E
			NB – hydrocortisone preferred in neonates								
	Calamine		Lotion		Adults	Children	*	*	*	*	N
NF0151	Hydrocortisone	D07AA02	Cream or Ointment	1 % (acetate)	Adults	Children	SN	SN	SN	SN	V
13.4 Medicines affecting skin differentiation and proliferation											
	Benzoyl Peroxide	D10AE01	Cream or Lotion	5%	Adults	Children	/	SN	SN	SN	E
	Urea	D02AE01	Cream	10%	Adults	Children	/	SN	SN	SN	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
13.5 Scabicides and pediculicides											
AD0020	Benzyl benzoate	P03AX01	Lotion	25%	Adults	> 2 years	*	*	*	*	N
	Permethrin	P03AC04	Cream	5%	Adults	Children	*	*	*	*	E
14. DIAGNOSTIC AGENTS											
14.1 Ophthalmic Medicines											
NA0051	Fluorescein	S01JA01	Eye drops	2%	Adults	Children	/	/	SN	*	E
NA0130	Tropicamide	S01FA06	Eye drops	1%	Adults	Children	/	/	SN	*	E
14.2 Radiocontrast media											
	Barium sulfate	V08BA01	Aqueous suspension.		Adults	Children	/	/	/	SN	E
	Iohexol		Injection	140 mg to 350 mg iodine/mL in 5 mL ampoules.	Adults		/	/	/	SN	E
				140 mg to 350 mg iodine/mL in 10 mL ampoules.	Adults		/	/	/	SN	E
				140 mg to 350 mg iodine/mL in 20 mL ampoules.	Adults		/	/	/	SN	E
15. DISINFECTANTS AND ANTISEPTICS											
15.1 Antiseptics											
AD0040	Chlorhexidine	D08AC02	Solution	20% 1 Litre/bottle (digluconate)			*	*	*	*	V
NQ5121	Ethanol		Solution	70% (denatured)			*	*	*	*	V
AD0140	Povidone iodine	D08AG02	Solution	10% (equivalent to 1% available iodine)			*	*	*	*	V
15.2 Disinfectants											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Alcohol based hand rub	-	Solution	Containing ethanol 80% volume/volume			*	*	*	*	V
				Containing isopropyl alcohol 75% v/v			*	*	*	*	V
	Chlorine base compound	-	Liquid or solid	0.1% available chlorine for solution			*	*	*	*	V
	Glutaral	-	Solution	2%			*	*	*	*	V
	Sodium hypochlorite	D08AX07	Solution	5%			*	*	*	*	V
N10210	Zinc oxide		Powder for solution	20%			*	*	*	*	V
16. DIURETICS											
AB0220	Furosemide	C03CA01	Injection	10 mg/mL in 2-mL ampoule	Adults	Children	/	*	*	*	V
AA0240			Tablet	20 mg	Adults	Children	SN	*	*	*	V
AA0260	Hydrochlorothiazide	C03AA03	Tablet (scored)	25 mg	Adults	Children	*	*	*	*	V
17. GASTROINTESTINAL MEDICINES											
17.1 Antiulcer medicines											
	Ranitidine	A02BA02	Tablet	150 mg (as hydrochloride).	Adults	Children	*	*	*	*	E
			Injection	25 mg/mL (as hydrochloride) in 2 mL ampoule	Adults	Children	/	*	*	*	E
	Omeprazole	A02BC01	Powder for injection	40 mg in vial	Adults		/	/	SN	*	E
NQ0735			Tablet	20 mg	Adults	Children	/	*	*	*	V
17.2 Antiemetic medicines											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AB0130	Dexamethasone	A01AC02	Injection	4 mg/ mL in 1- mL ampoule (as disodium phosphate salt)	Adults	Children	/	*	*	*	V
			Solid oral dosage form (tablet or capsule)	0.75 mg	Adults	Children	*	*	*	*	V
AB0300	Metoclopramide	A03FA01	Injection	5 mg (hydrochloride)/ mL in 2- mL ampoule	Adults	Children	*	*	*	*	E
			Tablet	10 mg (hydrochloride)	Adults	Children but not in neonates					
NJ0100	Ondansetron	A04AA01	Injection	2 mg base/mL in 4-mL ampoule (as hydrochloride)	Adults	Children	/	/	/	SN	E
			Tablet or capsule	Eq. 8 mg base	Adults	> 1 month	/	/	/	SN	E
17.3 Anti-inflammatory medicines											
	Sulfasalazine		Tablet	500 mg.	Adults		/	*	*	*	N
17.4 Laxatives											
	Senna	A06AB02	Tablet	7.5 mg (sennosides)			*	*	*	*	N
17.5 Medicines used in diarrhea											
	Oral rehydration salts – zinc sulfate [c]		Co-packaging	Containing ORS powder for dilution and zinc sulfate solid oral dosage form 20 mg	Adults	Indicated for children	*	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AA0390	Oral rehydration salts (ORS)	A07CA	Powder for dilution in sachet.	Reduced osmolarity ORS grams/Litre: glucose- 13.5 g/L; sodium chloride-2.6 g/L; potassium chloride- 1.5 g/L; trisodium citrate dihydrate- 2.9 g/L. Reduced osmolarity ORS mmol/Litre: glucose- 75 mEq; sodium- 75 mEq or mmol/L; chloride- 65 mEq or mmol/L; potassium- 20 mEq or mmol/L; citrate- 10 mmol/L. Total osmolarity: 245	Adults	Children	*	*	*	*	V
NL0040	Zinc sulphate	A12CB01	Tablet (dispersible)	20 mg	Adults	Children	*	*	*	*	V
18. MEDICINES FOR ENDOCRINE DISORDERS											
18.1 Adrenal hormones and synthetic substitutes ^{NB}											
NB: If any addition of next EML Revision (11th Edition)											
18.2 Medicines for diabetes											
18.2.1 Insulins											
	Insulin, injection soluble	A10AC01	Injection	100 IU/mL in 10-mL vial	Adults	Children'	/	SN	SN	SN	V
	Insulin, intermediate acting	A10AC01	Injection	40 IU/mL in 10 mL vial	Adults		/	SN	SN	SN	V
				100 IU/ mL in 3mL cartridge or pre-filled pen	Adults	Children'	/	SN	SN	SN	V
NK0031	Insulin, long- acting	A10AE04	Injection	100 IU/ mL in 3mL cartridge or pre-filled pen	Adults	Children'	/	SN	SN	SN	V
NK0034	Premixed Insulin 70/30	A10AD01	Injection	100 IU/mL			/	/	SN	SN	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
18.2.2 Oral hypoglycemic agents											
	Empagliflozin	A10BK03	Tablet	10 mg	Adults						
				25 mg	Adults						
	Gliclazide	A10BB09	Solid oral dosage form: (controlled-release tablets)	30 mg;	Adults		*	*	*	*	V
				60 mg;	Adults		*	*	*	*	V
				80 mg	Adults		*	*	*	*	V
	Glibenclamide ^{NB}	A10BB09	Tablet	5 mg	Not over 60 years old		SN	SN	SN	SN	N
			NB – Glibenclamide – is not suitable for use in adults above 60 years of age								
NK0040	Metformin	A10BA02	Tablet	500 mg (hydrochloride)	Adults	Children	SN	*	*	*	V
18.3 Medicines for hypoglycemia											
	Glucagon	H04AA01	Injection	1 mg/mL	Adults	Children					
18.4 Thyroid hormone and antithyroid hormones											
	Carbimazole	H03BB01	Tablet	5 mg			/	/	SN	SN	N
				20 mg			/	/	SN	SN	N
	Levothyroxine	H03AA01	Tablet	50 micrograms (sodium salt)			/	/	SN	SN	V
	Propylthiouracil ^{NB}	H03BA02	Tablet	50 mg			/	/	SN	SN	E
			NB – Propylthiouracil – For use when alternative first-line treatment is not appropriate or available; and in patients during the first trimester of pregnancy.								
18.5 Medicines for disorders of the pituitary hormone system^{NB}											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
NB: If any addition of next EML Revision (11th Edition)											
19. IMMUNOLOGICALS/BIOLOGICALS											
Biological products, including vaccines, are distinguished from chemical pharmaceuticals by being derived from living organisms with a molecular composition too complex to be defined by physical or chemical means. In addition, the inherent variability of living organisms, the potential for contamination of materials with agents coming from starting materials or the environment, require special quality control and quality assurance mechanisms. To maintain quality, biological must be protected from temperature extremes. Heat exposure must be monitored using Vaccine Vial Monitors (VVM) throughout the entire supply chain.											
19.1 Vaccines											
NB0031	BCG (Bacille Calmette-Guerin) vaccine with diluent	L03AX03	Injection	0.05 mL in 20 doses vial with VVM (vaccine vial monitor)	As per national schedule / guidelines	*	*	*	*	*	V
NB0033	Dtp-hep b- hib	J07CA11	Injection	0.5 mL in single- dose vial with VVM	As per national schedule / guidelines	*	*	*	*	*	V
	(Diphtheria, Tetanus, whole-cell Pertussis [DTP], Hepatitis B and Haemophilus influenzae type B)										
NB0051	Hepatitis B vaccine	J07BC01	Injection	0.5 mL in single dose vial with VVM	As per national schedule / guidelines	*	*	*	*	*	V
NB0049	Human papillomavirus (HPV) vaccine	J07BM03	Injection	0.5 mL in 2 doses vial with VVM	As per national schedule / guidelines	*	*	*	*	*	V
NB0053	Japanese encephalitis (JE) vaccine with diluent	J07BA03	Injection	0.5 mL in 5 doses vial with VVM	As per national schedule / guidelines	*	*	*	*	*	V
NB0071	Measles + Rubella (MR) vaccine with diluent	J07BD53	Injection	0.5 mL in 10 doses vial with VVM	As per national schedule / guidelines	*	*	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V'EN
NB0028	Pneumococcal conjugate vaccine 13 (PCV13)	J07AL02	Injection	0.5 mL in single- dose vial with VVM	As per national schedule / guidelines		*	*	*	*	V
NB0064	Inactivated Poliomyelitis vaccine	J07BF03	Injection	0.5 mL in 5 doses vial with VVM	As per national schedule / guidelines		*	*	*	*	V
NB0062	Oral Poliomyelitis vaccine with dropper	J07BF04	Injection	2 drops at dose, 10 doses vial with VVM	As per national schedule / guidelines		*	*	*	*	V
	Rabies vaccine	J07BG01	Injection	2.5 IU/ml in 1- mL ampoule	As per national schedule / guidelines		SN	SN	SN	SN	V
NB0028	Tetanus toxoid vaccine	J07AM01	Injection	0.5 mL in 10 doses in vial	As per national schedule / guidelines		*	*	*	*	V
19.2 Sera and immunoglobulins											
	Anti-rabies virus monoclonal antibodies		Injection	40 IU/mL in 1.25 mL vial	Adults	Children	SN	SN	SN	SN	V
				100 IU/mL in 2.5 mL vial	Adults	Children	SN	SN	SN	SN	V
	Diphtheria antitoxin	J06AA01	Injection:	10 000 IU or 20 000 IU in vial	Adults	Children	/	*	*	*	V
NB0011	Hemotoxic polyvalent snake antivenom (HPAV) (Asian snakes as Malayan Pit Viper, Green Pit Viper and Russell's Viper)	J06AA03	Powder for injection	Freeze-dried antivenom in vial to be reconstituted with the solution supplied (or 10 ml of sterile water for injection) prior to the administration	Adults	Children	/	*	*	*	V
NB0012	Neurotoxic polyvalent snake antivenom (NPAV) (Cobra, King Cobra, Banded Krait & Malayan Krait snakes)	J06AA03			Adults	Children	/	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
20. MUSCLE RELAXANTS (PERIPHERALLY- ACTING) AND CHOLINESTERASE INHIBITORS											
AB0330	Neostigmine	N07AA01	Injection	500 micrograms in 1- mL ampoule	Adults	Children	/	/	*	*	E
			Tablet	15 mg (bromide)	Adults	Children	*	*	*	*	V
AB0392	Suxamethonium	M03AB01	Injection	50 mg (chloride)/ mL in 2- mL ampoule	Adults	Children	/	/	*	*	E
AB0410	Vecuronium	M03AC03	Powder for injection	10 mg (bromide)/1 mL in vial with diluent	Adults	Children	/	/	*	*	N
21. OPHTHALMOLOGICAL PREPARATIONS											
21.1 Anti-infective agents											
	Natamycin	S01AA10	Suspension (Eye drops)	5%	Adults	Children	/	/	SN	*	E
	Ofloxacin	S01AE01	Eye drops	0.30%	Adults	Children	/	/	SN	*	E
NQ3142	Tetracycline	S01AA09	Eye ointment	1% (hydrochloride)	Adults	Children	*	*	*	*	E
21.2 Anti-inflammatory agents											
NA0108	Prednisolone	S02BA03	Eye drops	0.5% (sodium phosphate)	Adults	Children	/	/	SN	*	E
21.3 Local Anesthetics											
NA0110	Tetracaine	S01HA03	Solution (eye drops)	0.5% (hydrochloride)	Adults	Not in preterm neonates	/	/	SN	*	E
21.4 Miotics and antiglaucoma medicines											
	Acetazolamide	S01EC01	Tablet	250 mg	Adults		/	/	SN	*	E
NA0100	Pilocarpine	S01EB01	Eye drops	2% (as sodium phosphate)	Adults		/	/	SN	*	E
NA0100	Timolol	S01ED01	Eye drops	0.5% (as hydrogen maleate)	Adults		/	/	SN	*	E
21.5 Mydriatics											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V'EN
NA0020	Atropine	S01FA01	Eye drops	0.5% (sulfate)	Adults	> 3 months	/	SN	SN	*	E
				1% (sulfate)	Adults	> 3 months	/	SN	SN	*	E
22. MEDICINES FOR REPRODUCTIVE HEALTH AND PERINATAL CARE											
22.1 Contraceptives											
22.1.1 Oral hormonal contraceptives											
NH0050	Ethinylestradiol + levonorgestrel + ferrous fumarate	G03AA07	Tablet	30 micrograms + 150 micrograms+ 75 mg (COC)	Adult females		*	*	*	*	V
	Ethinylestradiol+ northisterone	G03AA05	Tablet	35 micrograms + 1 mg	Adult females		*	*	*	*	V
				50 micrograms + 1 mg	Adult females		*	*	*	*	V
NH0053	Levonorgestrel	G03AC03	Tablet	30 micrograms (POP) 1 pack=3 cycles/35 tablets	Adult females		*	*	*	*	V
NH0052		G03AD01		1.5 mg (as emergency contraception)	Adult females		*	*	*	*	V
	Ulipristal	G03AD02	Tablet	30 mg (as acetate).	Adult females		*	*	*	*	V
22.1.2 Injectable hormonal contraceptives											
NH0020	Medroxyprogesterone acetate (depo-provera)	G03AC06	Injection (intramuscular)	150 mg/ mL in 1- mL vial	Adult females		*	*	*	*	V
22.1.3 Intrauterine devices											
NH0030	Intrauterine copper-containing device	G02BA02	IUD	Copper T380A	Adult females		*	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
22.1.4 Barrier methods											
NH0010	Condoms	V07AY			Adults		*	*	*	*	V
22.1.5 Implantable contraceptives											
	Etonogestrel-releasing implant (subdermal)	G03AC08	Single- rod implant	contains 68 mg of etonogestrel	Adult females		*	*	*	*	V
	Levonorgestrel-releasing implant (subdermal)	G03AC03	Two-rod implant	each rod containing 75 mg of levonorgestrel (150 mg total)	Adult females		*	*	*	*	V
22.3 Uterotonics											
Depending upon the manufacturer, oxytocin products should be stored at either controlled room temperature (25°C or less) or in refrigerated storage (2°-8°C) in order to ensure quality and comply with the labelled storage conditions.											
AB0190	Ergometrine	G02AB03	Injection	200 micrograms (hydrogen maleate) in 1-mL ampoule	Adult females		SN	SN	SN	SN	V
	Mifepristone-misoprostol	G03XB51	Tablet – co-packaged	200 mg and 200 micrograms*	Adult females		/	*	*	*	V
				*Mifepristone 200 single [1] tablet and four [4] misoprostol tablets of 200 micrograms	Adult females						
AA0330	Misoprostol	G02AD06	Tablet	200 micrograms	Adult females		/	*	*	*	V
			- Management of incomplete abortion and miscarriage; - Prevention and treatment of postpartum hemorrhage where oxytocin is not available or cannot be safely used								
AB0440	Oxytocin	G02AC01	Injection	10 IU in 1-mL in ampoule	Adult females		*	*	*	*	V
22.4 Antioxytocics (tocolytic)											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Nifedipine	C08CA05	Capsule	10 mg (immediate release)	Adult females		/	SN	SN	SN	E
22.5 Other medicines administered to the mother											
AB0130	Dexamethasone	H02AB02	Injection	4 mg/mL in 1-mL ampoule (as disodium phosphate salt)	Adult females		/	*	*	*	V
	Tranexamic acid	B02AA02	Injection	IV: 100 mg per mL in 10 mL ampoule	Adult females		/	*	*	*	E
22.6 Medicines administered to the neonate											
	Caffeine citrate	N06BC01	Injection	20 mg/ mL		Neonates	/	SN	SN	SN	V
	Chlorhexidine		Solution or gel	7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care).		Neonates	*	*	*	*	E
23. MEDICINES FOR MENTAL AND BEHAVIORAL DISORDERS											
23.1 Medicines for psychotic disorders											
AB0100	Chlorpromazine	N05AA01	Injection	25 mg (hydrochloride)/ mL in 2-mL ampoule	Adults		/	/	SN	SN	V
NG0041			Tablet	25 mg (hydrochloride)	Adults		SN	*	*	*	V
				100 mg (hydrochloride)	Adults		SN	SN	SN	SN	V
	Clozapine	N05AH02	Tablet or capsule	100 mg	Adults		/	/	SN	SN	E
NG0060	Fluphenazine	N05AB02	Injection	25 mg (decanoate or enantate) in 1- mL ampoule	Adults		/	/	/	SN	V
NG0070	Haloperidol	N05AD01	Tablet	2 mg	Adults		/	/	SN	SN	V
				5 mg	Adults		/	/	SN	SN	V
NG0073			Injection	5 mg in 1- mL ampoule	Adults		/	/	SN	SN	V
	Risperidone	N05AX08	Tablet	2 mg	Adults		/	/	/	SN	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Olanzapine	N05AH03	Tablet	10 mg	Adults		/	/	/	SN	E
NG0110	Perphenazine	N05AB03	Tablet	8 mg	Adults		/	/	SN	SN	E
23.2 Medicines used in mood disorders											
23.2.1 Medicines used in depressive disorders											
NG0010	Amitriptyline	N06AA09	Tablet	25 mg (hydrochloride)	Adults		SN	SN	SN	SN	V
NG0011				50 mg (hydrochloride)	Adults		/	/	SN	SN	V
	Fluoxetine	N06AB03	Tablet or capsule	20 mg (as hydrochloride)	Adults		/	/	/	SN	V
23.2.2 Medicines used in bipolar disorder											
NG0030	Carbamazepine	N03AF01	Tablet	200 mg	Adults		/	/	SN	SN	V
NG0090	Lithium carbonate	N05AN01	Tablet	300 mg	Adults		/	/	SN	SN	V
	Valproic acid ^{NB}	N03AG01	Tablet	500 mg (sodium valproate)	Adults		/	/	/	SN	V
			NB – Valproic acid – avoid use in pregnancy and in women and girls of child-bearing potential, unless alternative treatments are ineffective or not tolerated because of the high risk of birth defects and developmental disorders in children exposed to valproate in the womb.								
23.3 Medicines for anxiety disorders											
AA0160	Diazepam	N05BA01	Tablet	5 mg	Adults		SN	*	*	*	V
	Fluoxetine	N06AB03	Tablet or capsule	20 mg (as hydrochloride)	Adults		/	/	/	SN	V
23.4 Medicines for obsessive compulsive disorders											
NG0050	Clomipramine	N06AA04	Capsule	25 mg (hydrochloride)	Adults		/	/	SN	SN	E
	Fluoxetine	N06AB03	Tablet or capsule	20 mg (as hydrochloride)	Adults		/	/	/	SN	V
23.5 Medicines used in disorders due to psychoactive substance use											
23.5.1 Medicines for alcohol use disorders											

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Acamprosate calcium	N07BB03	Tablet	333 mg	Adults		/	SN	SN	SN	N
	Naltrexone	N07BB04	Injection suspension (extended-release):	380 mg in vial	Adults		/	SN	SN	SN	N
			Tablet	50 mg	Adults		/	SN	SN	SN	N
23.5.2 Medicines for nicotine use disorders											
	Nicotine replacement therapy (NRT)	N07BA01	Chewing gum	2 mg	Adults		/	SN	SN	SN	N
			Transdermal patch	14 mg	Adults		/	SN	SN	SN	N
	Varenicline	N07BA03	Tablet	0.5 mg	Adults		/	SN	SN	SN	N
23.5.3 Medicines for opioid use disorders											
NG0096	Methadone ^{NB}	N07BC02	Concentrate for oral liquid	10 mg/mL (as hydrochloride)	Adults		/	SN	SN	SN	E
			NB – Methadone should only be used within an established support program.								
24. MEDICINE ACTING ON THE RESPIRATORY TRACT											
24.1 Antiasthmatic and medicines for chronic obstructive pulmonary disease											
	Beclometasone	R03BA01	Inhalation (aerosol)	100 micrograms per dose	Adults	Children	/	*	*	*	E
				200 micrograms per dose	Adults	Children					
	Beclometasone + formoterol	R03AK08	Dry powder inhaler	100 micrograms + 6 micrograms per dose	Adults		/	*	*	*	E
				200 micrograms + 6 micrograms per dose	Adults		/	*	*	*	E

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
AB0010	Epinephrine (adrenaline)	R03AA01	Injection	1 mg (as hydrochloride or hydrogen tartrate) in 1- mL ampoule	Adults	Children	SN	*	*	*	V
	Ipratropium bromide	R03BB01	Inhalation (aerosol)	20 micrograms/metered doses	Adults		/	/	*	*	V
AA0500	Salbutamol	R03AC02	Metered dose inhaler (aerosol):	100 micrograms (as sulfate) per dose	Adults	Children	SN	*	*	*	V
AB0370			Injection	0.5 mg (as sulfate)/ mL in 1- mL ampoule	Adults	Children	/	*	*	*	E
			Respirator solution for use in nebulizers	5 mg/mL (as sulfate)	Adults	Children	/	*	*	*	V
	Tiotropium	R03BB04	Powder for inhalation, capsule	18 micrograms	Adults		/	*	*	*	N
			Inhalation solution	1.25 micrograms per actuation.	Adults		/	*	*	*	N
				2.5 micrograms per actuation.	Adults		/	*	*	*	N
25. SOLUTIONS CORRECTING WATER, ELECTROLYTE ND ACID-BASE DISTURBANCES											
25.1 Oral											
AA0390	Oral rehydration salts	A07CA	Powder for dilution	See earlier in list			*	*	*	*	V
AA0460	Potassium chloride	A12BA01	Powder for solution	600 mg			SN	*	*	*	E
25.2 Parenteral											
AC0020	Glucose	B05CX01	Injectable solution with IV giving set	5% (isotonic)	Adults	Children	*	*	*	*	V
AC0031				10% (hypertonic)	Adults	Children	SN	*	*	*	V
AB0140				50% (hypertonic)	Adults	Children	SN	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V ^{EN}
AC0036	Glucose (5%) + sodium chloride (or Saline)	B05BB02	Injectable solution with IV giving set	5% glucose, 0.45 % NaCl – 500 mL	Adults	Children	/	*	*	*	V
				5% glucose, 0.9 % NaCl -500 mL	Adults	Children	SN	*	*	*	V
AC0035	Glucose 5% in Acetate Ringer's Solution		Injectable solution with IV giving set	5% glucose in acetate Ringer's Solution in 500 mL			/	SN	SN	SN	V
AB0360	Potassium chloride	A12BA01	Solution	11.2% in 20 mL ampoule (equivalent to K ⁺ 1.5 mmol/mL, Cl ⁻ 1.5 mmol/mL).	Adults		/	*	*	*	V
			Solution for dilution	7.5% (equivalent to K ⁺ 1 mmol/mL and Cl ⁻ 1 mmol/mL);	Adults	Indicated for children	/	*	*	*	V
			Solution for dilution	15% (equivalent to K ⁺ 2 mmol/mL and Cl ⁻ 2 mmol/mL)	Adults	Indicated for children	/	*	*	*	V
AC0060	Ringer's lactate	B05BB01	Injection with IV giving set	500 mL			*	*	*	*	V
				1000 mL							
	Sodium chloride (NaCl)	B05XA03	Injectable solution	0.9% isotonic in 10 mL ampoule	Adults	Children	/	*	*	*	V
		B05CB01		0.9% isotonic in 100 mL	Adults	Children	*	*	*	*	
				0.9% isotonic in 500 mL	Adults	Children	/	*	*	*	
AC0041				0.9% isotonic in 1000 mL	Adults	Children	*	*	*	*	
	Sodium hydrogen carbonate (NaHCO ₃)	B05XA02	Injectable solution	1.4% isotonic (equivalent to Na ⁺ 167 mmol/L, HCO ₃ ⁻ 167 mmol/L).	Adults	Children	/	*	*	*	V
			Solution:	8.4% in 10 mL ampoule (equivalent to Na ⁺ 1000 mmol/L, HCO ₃ ⁻ 1000 mmol/L).	Adults	Children	/	*	*	*	V
25.3 Miscellaneous											
AB0430	Water for injection		Injection	5-mL ampoule	Adults	Children	SN	*	*	*	V

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CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Bacillus thuringiensis subsp.israelensis strain AM65-52						/	/	*	*	V
26. VITAMINS AND MINERALS											
	Calcium	A12AA20	Tablet	500 mg (elemental).	Adults		*	*	*	*	E
	Hydroxocobalamin (vitamin b12)	B03BA03	Injection	1 mg (as acetate, as hydrochloride or as sulfate) in 1- mL ampoule	Adults		/	/	SN	*	E
	Iodine	H03CA	Capsule	190 mg	Adults	Children	*	*	*	*	E
			Iodized oil	0.5 mL (240 mg iodine) in ampoule (oral or injectable)	Adults	Children	*	*	*	*	E
AA0340	Multivitamin + mineral	A11AA03	Tablet		Adults	Children	*	*	*	*	N
AA0541	Pyridoxine (vitamin B 6)	A11HA02	Tablet	25 mg	Adults	Children	*	*	*	*	V
AA0490	Retinol (vitamin A)	A11CA01	Capsule	100 000 IU (as palmitate)	Adults	Children	*	*	*	*	V
AA0491				200 000 IU (as palmitate)	Adults	Children	*	*	*	*	*
	Riboflavin (vitamin B2)	A11HA04	Tablet	5 mg	Adults	Children	*	*	*	*	E
AA0531	Thiamine (vitamin B1)	A11DA01	Tablet	50 mg	Adults	Children	*	*	*	*	E
27. EAR, NOSE AND THROAT MEDICINES											
	Budesonide	R01AD05	Nasal Spray	100 micrograms per dose		1 month – 12 years	*	*	*	*	N
	Ciprofloxacin	S03AA07	Topical	0.3% eye/ear drops		1 month – 12 years	*	*	*	*	E
28. MEDICINES FOR DISEASES OF JOINTS											
28.1 Medicines used to treat gout											

Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	Allopurinol	M04AA01	Tablet	100 mg	Adults		*	*	*	*	V
28.2 Disease-modifying agents used to treat rheumatoid arthritis (DMARD's)											
	Chloroquine	P01BA02	Tablet	100 mg (as sulfate)	Adults	Children	/	/	*	*	V
28.3 Juvenile joint disease											
	Acetylsalicylic acid	N02BA01	Tablet	100 mg	Adults	Children	*	*	*	*	V
29. SPECIALIZED NUTRITION PRODUCTS											
	F-75 therapeutic milk	-	Powder	410 grams [Energy 448Kcal, Protein 5% energy, Lipids 31% energy, Vit A (0.9mg), Vit D (18µg), Vit E (20mg), Vit C (59mg), Vit B1 (0.5mg), Vit B2 (1.2mg), Vit B6 (0.8mg), Folic acid (200µg), Vit B12 (1.6µg), Vit K (15µg), Biotin (60µg), Pantothenic acid (3mg), Sodium (<87mg), Calcium (560mg), Phosphor (330mg), Potassium (1100mg), Magnesium (50µg), Zinc (12.2mg), Iodine (100µg), Cuivre/Copper (1.7mg), Selenium (30µg) and Fer/Iron (<0.3mg)]							

Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V/E/N
	F-100 therapeutic milk		powder	456 grams [Energy 520Kcal, Protein >10% of energy, Lipids >45% of energy, Vit A (800 µg), Vit D (15 µg), Vit E (20 mg), Vit C (50 mg), Vit B1 (0.5 mg), Vit B2 (1.6 mg), Vit B6 (0.6 mg), Niacin (5 mg), Folic acid (200 µg), Vit B12 (1.6 µg), Vit K (15 µg), Biotin (60 µg), Pantothenic acid (6 mg), Sodium (<290 mg), Calcium (300 mg), Phosphor (300 mg), Potassium (1100 mg), Magnesium (80 µg), Zinc (11 mg), Iodine (70 µg), Cuivre/Copper (1.4 mg), Selenium (20 µg) and Fer/Iron (<0.2 mg)]							
AA0341	Multiple Micronutrient Powder (MNP)	-	Powder	1 g [Iron (12.5 mg), Zinc (10 mg), Vitamin A (300 µg), Iodine (90 µg), Vit B1 (0.5 mg), Vit B2 (0.5 mg), Vit B6 (0.5 mg), Vit B12 (0.9 µg), Niacin (6 mg), Folate/Folic acid (160 µg), Vit C (Ascorbic acid) (30 mg), Copper (0.3 mg), Selenium (17 µg), Vit D (5µg) and Vit E (6 mg)]			*	SN	SN	SN	V
NL0039	Ready to use therapeutic foods (see also section 9.1)	-	Powder or biscuits (Nutrix)	510 g Energy: 500kcal/100 g minimum Proteins: 10-12% total energy: 12.3-15.5% by weight Lipids: 45-60% total energy: 24.8-33.3% by weight			SN	SN	SN	SN	V

WAX

Essential Medicines List (10th Edition 2023)

CMS code	Name	ATC code	Dosage form	Strength	Adults	Children	MPA	CPA1	CPA2	CPA3	V'EN
NL0030	Rehydration Solution for Malnutrition (ReSoMal)		Powder	42.0 grams in sachet. Component Concentration (mmol/l): Glucose 125; Sodium 45; Potassium 40; Chloride 70; Citrate 7; Magnesium 3; Zinc 0.3; Copper 0.045			/	/	SN	SN	V
30. DENTAL MEDICINES AND PREPARATIONS											
	Chlorhexidine	D08AC02	Oral liquid	0.12%- 0.2% as antiseptic mouthwash for dentistry	Adults	Children	SN	SN	SN	SN	E
	Fluoride	A01AA01	Gel	containing 2500 to 12 500 ppm fluoride (any type)	Adults	Children	*	*	/	/	E
			Varnish	Containing 22 500 ppm fluoride (any type)	Adults	Children	*	*	/	/	E
NI0140	Glass ionomer cement		For rest gc fuji i	Powder + liquid – 15g + 10g (composition below)	Adults	Children	*	*	*	*	N
NI0141			For rest gc fuji vii		Adults	Children	*	*	*	*	N
			For rest gc fuji ix		Adults	Children	*	*	*	*	N
			Powder (fluoro-alumino-silicate glass) contains: 25-50% silicate, 20-40% aluminium oxide, 1-20% fluoride, 15-40% metal oxide, 0-15% phosphate, remainder are polyacrylic acid powder and metals in minimal quantities. Liquid (aqueous) contains: 7-25% polybasic carboxylic acid, 45-60% polyacrylic acid.								
	Resin-based composite (low-viscosity) ^{NB}		Tube, multi-use bottle or single use applicator	Of any type for use as dental sealant	Adults	Children	SN	SN	SN	SN	N
	Resin-based composite (high-viscosity) *		Tube, multi-use syringe or single use capsule	Of any type for use as dental filling material	Adults	Children	SN	SN	SN	SN	N
	Silver diamine fluoride		Solution	38% w/v	Adults	Children	SN	SN	SN	SN	N

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CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V E N
POINT OF CARE / RAPID DIAGNOSTICS FOR USE IN PHC SETTINGS									
General									
	Blood grouping	Point of care test to determine ABO groups and Rh factor			*	*	*	*	E
	Hemoglobin (Hb)	Haemoglobinometer			SN	/	/	/	N
	Multipurpose urine dipstick	Urinalysis test strips (10 parameter)	Vial	150 strips	*	*	*	*	V
	Pregnancy test	Human chorionic gonadotropin (hCG) RDT (dipstick and cassette), latex agglutination			*	*	*	*	E
Disease / condition specific – procurement and use of all tests should be according to relevant latest national guidelines									
	COVID-19	RDT – SARS-CoV-2 antigen			*	*	*	*	V
	Dengue	RDT – Dengue virus NS1 antigen and immunoglobulin M (IgM)/IgG antibodies – Dengue Duo			SN	SN	SN	SN	N
	Diabetes Mellitus	Glucose meter			*	*	*	*	V
	Hepatitis B virus (HBV)	RDT – Hepatitis B surface antigen (HbsAg)			*	*	*	*	V
		RDT – Hepatitis B e antigen (HbeAg)			*	*	*	*	V
	Hepatitis C virus (HCV) infection	RDT – Antibodies to hepatitis C virus (anti-HCV)			*	*	*	*	V
	HIV	RDT – Antibodies to HIV ½ (anti-HIV Ab)			SN	SN	SN	SN	V
	Influenza	RDT – Nasopharyngeal swab – Influenza A and B antigen			SN	SN	SN	SN	E
	Malaria	RDT for PF	Kit	25 Tests	SN	SN	SN	SN	V
		RDT for GP6D	Kit	25 Tests	/	/	/	SN	V
	Mental Health & Substance Abuse	Amphetamine urine test – dipstick		Strips	SN	SN	SN	SN	E
		Methamphetamine urine test – dipstick		Strips	SN	SN	SN	SN	E
		Morphine urine test – dipstick		Strips	SN	SN	SN	SN	E

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CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V' E' N
	Streptococcal pharyngitis	RDT – Throat swab – Group A Streptococcus antigen			*	*	*	*	N
	Syphilis	RDT – Antibodies to Treponema pallidum			SN	SN	SN	SN	V
		RDT for combined antibodies to T. pallidum and HIV ½			SN	SN	SN	SN	V
	Tuberculosis (TB)	Tuberculin skin test (TST) ^{NB}			*	*	*	*	V
<i>NB – To be procured and used as per latest national guidelines</i>									
MICROBIOLOGY – DIAGNOSTICS									
REAGENTS									
	API (Analytical Profile Index)- 20 E,	Biochemical test strip (for identification and differentiation of members of the family Enterobacteriaceae)	Box	25 pcs	/	/	/	*	
	API- 20 E Reagents Set	James reagent, TDA, VP1, VP2, Nit 1, Nit 2, Zn			/	/	/	*	
	API 20 NE	Biochemical test strip for identification of non-enteric Gram-negative bacilli	Box	25 pcs	/	/	/	*	
	API 20 NE Reagents Set	James reagent, Nit 1, Nit 2, Zn			/	/	/	*	
	B.pseudomallei detection test	EITHER – Burkholderia pseudomallei monoclonal antibody specific, latex agglutination test	Pack		/	/	/	*	
		OR Rapid test – Lateral flow immunoassay for detection of B.pseudomallei antigen	Box	25 tests	/	/	/	*	
	Catalase		Box	50 vials	/	/	/	*	
	Coagulase plasma		Box	6 x 5ml	/	/	/	*	
	Cryptococcus Antigen Lateral Flow Assay (CrAg LFA)		Pack	50 tests	/	/	/	*	
	Gram Stain Kit	Gram Stain Kit and four reagents – (4 x 500ml)	Kit	1 kit	/	/	SN	*	
	India Ink		Bottle		/	/	*	*	

WPT

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CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V' E' N
	Indoxyl Acetate Disc	For rapid identification and differentiation of <i>Campylobacter</i> , <i>Helicobacter</i> , and <i>Wolinella species</i> and <i>Acinetobacter</i> and <i>Moraxella catarrhalis</i>	Vial	25 discs	/	/	/	*	
	Kovacs Indole Reagent		Bottle	100 ml	/	/	/	*	
	KWIK-STIK Antimicrobial Sensitivity Testing QC set ^{NB}	2 x 7 organisms listed / pack – S. Pneumoniae ATCC 49619, H. Influenzae ATCC 49247, E. coli ATCC 25922, P. aeruginosa ATCC 27853, S. aureus ATCC 25923, E. faecalis ATCC 29212, Neisseria gonorrhoeae ATCC 49226 <i>NB – For reference laboratories only (and possibly to share) – must be carefully maintained at – 80 degrees C.</i>	Pack					SN	
	KWIK-STIK E. coli ATCC 35218	Beta lactamase producer. Resistance strain for quality control	Pack	2					
	McFarland Standard Latex 0.5	One for each microbiology lab to compare turbidity	Set		/	/	/	*	
	Novobiocin Differentiation Disk	5ug	Pack	50 discs	/	/	/	SN	
	Optochin Disk		Pack	50 discs	/	/	/	SN	
	Oxidase reagent	N, N, N, N-Tetramethyl-p-phenylenediamine dihydrochloride	Bottle		/	/	/	*	
	Polymyxin B disks	300 IU			/	/	/	SN	
	PYR test kit	100 disc/box and 20ml chromogenic solution	Box		/	/	/	*	
	Rapid Indole (DMACA)		Box	200 tests	/	/	/	*	N
	Salmonella O Antiserum Group Poly A-I and Vi	For detecting Salmonella ^{NB} <i>NB – still requires confirmation by reference with other antisera</i>	Vial	1 x 3mL					
ANTIBIOTIC DISKS (see classifications of ACCESS, WATCH and RESERVE in the medicines section under section 6.2)									
The expiry date applies exclusively to disks contained in intact cartridges stored according to the manufacturer's instructions. The expiry date and batch number are indicated on each packaging (cartridge and container). - Cartridges of disks must be stored in their containers at a temperature between +2°C and +8°C in a dry place. - Container must be allowed to adjust to room temperature (18-30°C) before opening. After applying the disks, return unused cartridges to a temperature between +2°C and +8°C.									

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CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V E N
- Do not use disks after the expiry date. Do not use any cartridge of disks left at room temperature (18-30°C) for more than 8 hours without verifying an acceptable level of performance before continuing to use this cartridge (this varies on manufacturers 'condition) - If the cartridge remains in the distributor after dispatch, it is necessary to preserve at +2-8°C in a dry place with desiccants inside. The stability of the disks, of open cartridges placed in distributors (preserved according to the recommendations with desiccants) was validated in routine conditions during 6 weeks.									
	Amikacin (AN) (ACCESS)	30 µg (micrograms)	Cartridge		/	/	/	*	V
	Amoxicillin + Clavulanic Acid (AMX) (ACCESS)	20 µg + 10 µg	Cartridge		/	/	/	*	V
	Ampicillin (AMP) (ACCESS)	10 µg	Cartridge		/	/	/	*	V
	Azithromycin (AZM) (WATCH)	15 µg	Cartridge		/	/	/	*	V
	Benzylpenicillin (ACCESS)	E Test Benzylpenicillin PG 0.016-256 µg/ml	Pack	30 Strips	/	/	/	*	V
	Cefazolin (CZ) (ACCESS)	30 µg	Cartridge		/	/	/	*	V
	Cefinase paper		Cartridge	50 discs	/	/	/	*	V
	Cefotaxime (CTX) (WATCH)	30 µg	Cartridge		/	/	/	*	V
	Cefotaxime-clavulanate	30 µg/10 µg	Cartridge		/	/	/	*	V
	Ceftazidime (CAZ) (WATCH)	30 µg	Cartridge		/	/	/	*	V
	Ceftazidime-clavulanate (WATCH)	30 µg/10 µg	Cartridge		/	/	/	*	V
	Ceftriaxone (CRO) (WATCH)	30 µg	Cartridge		/	/	/	*	V
		E Test Ceftriaxone TXL 0.002-32 µg/ml	Pack	30 Strips	/	/	/	*	V
	Chloramphenicol € (ACCESS)	30 µg	Cartridge		/	/	/	*	V
	Ciprofloxacin (CIP)	5 µg	Cartridge		/	/	/	*	V
	Clindamycin (CM)	2 µg	Cartridge		/	/	/	*	V
	Cloxacillin	5 µg	Cartridge		/	/	/	*	V
	Doxycycline (DO)	30 µg	Cartridge		/	/	/	*	V
	Erythromycin €	15 µg	Cartridge		/	/	/	*	V
	Gentamicin (GM)	10 µg	Cartridge		/	/	/	*	V
	Imipenem (IPM)	10 µg	Cartridge		/	/	/	*	V
	Levofloxacin (LVX)	5 µg (Cartridge		/	/	/	*	V
	Meropenem (MEM)	10 µg	Cartridge		/	/	/	*	V

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Essential Diagnostics & Microbiology List (10th Edition 2023)

CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V' E' N
	Nitrofurantoin (FT)	300 µg	Cartridge		/	/	/	*	V
	Oxacillin (OX1)	1 µg	Cartridge		/	/	/	*	V
	Penicillin (P)	6 µg/10 IU	Cartridge		/	/	/	*	V
	Tetracycline (TE)	30 µg	Cartridge		/	/	/	*	V
	Trimethoprim – Sulfamethoxazole (co-trimoxazole) (SXT)	1.25 µg + 23.75 µg	Cartridge		/	/	/	*	V
	Vancomycin (VA)	30 µg	Cartridge		/	/	/	*	V
		E Test Vancomycin VA 0.016- 256 µg/ml, 30 strips/pack	Pack	30 Strips	/	/	/	*	V
CULTURE MEDIA									
	Blood Culture bottle	Adult – 50ml Brain Heart infusion in 100ml bottle	Bottle	100 ml	/	/	/	*	V
		Pediatric – 25ml Brain Heart infusion in 50ml bottle	Bottle	50 ml					
	Ashdown's agar plate-ready made		Pack		/	/	/	*	V
	Ashdown's broth-ready made		5 ml tube		/	/	/	*	V
	Blood agar plate-ready made		Pack		/	/	/	*	V
	Chocolate agar plate-ready made		Pack		/	/	/	*	V
	Hektoen Enteric agar plate-ready made		Pack		/	/	/	*	V
	Kligler Iron Agar tube-ready made		Pack		/	/	/	*	V
	Lysine Iron Agar tube-ready made		5ml tube		/	/	/	*	V
	MacConkey agar plate-ready made		Pack		/	/	/	*	V

Essential Diagnostics & Microbiology List (10th Edition 2023)

CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V E N
	Mannitol salt agar plate-ready made		Pack		/	/	/	*	V
	Modified Thayer Martin Media-ready made		Pack		/	/	/	*	V
	Mueller Hinton II agar plate-ready made		Pack		/	/	/	*	V
	Mueller Hinton II agar plus sheep blood agar plate-ready made		Pack		/	/	/	*	V
	Pediatric blood culture bottle (25ml Brain Heart infusion in 50ml bottle)		50 ml		/	/	/	*	V
	Simmons Citrate Agar tube-ready made		5ml tube		/	/	/	*	V
	Sulfide-Indole-Motility (SIM) tube-ready made		5ml tube		/	/	/	*	V
	TCBS agar plate-ready made		Pack		/	/	/	*	V
	Trypticase soya broth + 15% glycerol (for isolate storage)-ready made		2.5 ml Tube		/	/	/	SN	E
	Urea agar tube-ready made		5ml Tube		/	/	/	*	V
PURE DRUG POWDER/LIQUID FOR DST									
	Bedaquiline Fumarate powder pure drug substance for DST		Bottle		/	/	/	*	V
	Linezolid pure drug substance for DST, bottle		Bottle		/	/	/	*	V
	Delamanid pure drug substance for DST bottle		Bottle		/	/	/	*	V
	Clofazimine pure drug substance for DST, bottle		Bottle		/	/	/	*	V

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Essential Diagnostics & Microbiology List (10th Edition 2023)

CMS code	Name / for purpose	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	V E N
	Streptomycin sulphate pure drug substance for DST, bottle of 5g		Bottle	5g	/	/	/	*	V
	Isoniazid pure drug substance for DST, bottle of 5g		Bottle	5g	/	/	/	*	V
	Rifampicin pure drug substance for DST, bottle of 1g		Bottle	1g	/	/	/	*	V
	Ethambutol dihydrochloride pure drug substance for DST, bottle of 25g		Bottle	25g	/	/	/	*	V
	Amikacin hydrate pure drug substance for DST, bottle 5g		Bottle	5g	/	/	/	*	V
	Ethionamide pure drug substance for DST, bottle of 5g		Bottle	5g	/	/	/	*	V
	D-Cycloserine pure drug substance for DST, bottle of 1g		Bottle	1g	/	/	/	*	V
	Leveofloxacin pure drug substance for DST, bottle of 1g		Bottle	1g	/	/	/	*	V
	Pretomanid pure drug substance for DST, bottle of 5g		Bottle	5g	/	/	/	*	V
	Ofloxacin pure drug substance for DST, bottle of 1g		Bottle	1g	/	/	/	*	V
	Moxifloxacin pure drug substance for DST, bottle of 1g		Bottle	1g	/	/	/	*	V
	Capreomycin pure drug substance for DST, bottle of 1g		Bottle	1g	/	/	/	*	V
	Pyrazinamide-BD BACTEC™ MGIT™ 960 PZA Kit		Kit		/	/	/	*	V

Essential Consumables List

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
GENERAL								
QA0030	Adhesive Tape Zinc Oxide perforated	5 cm x 5m	Roll	1	*	*	*	*
QA0031		18 cm x 5 m	Roll	1	*	*	*	*
	Ambu bag with mask	Newborn size – 250 ml	Pcs	1	*	*	*	*
		Pediatric size – 500 ml	Pcs	1	*	*	*	*
		Adult size – 1000 ml	Pcs	1	*	*	*	*
	Autoclave bags	310 x 660 mm	Box		/	/	*	*
		415 x 600 mm	Box		/	/	*	*
		610 x 810 mm	Box		/	/	*	*
QA0060	Bandage – Crepe	8cm x 4 m	Roll		*	*	*	*
QA0070	Bandage – Gauze Non-Sterile	7.5 cm x 10 m	Roll		*	*	*	*
QA0241	Bandage – Tubular Elastic	8 mm x 4cm	Pcs					
	Biological indicators	e.g. 3m indicators	Pcs		SN	SN	*	*
QA0090	Blades for surgical knife	#15	Pcs / box		*	*	*	*
QA0091		#22	Pcs / box		/	*	*	*
QA0092		#30	Pcs / box		/	*	*	*
QA0040	Blood collection bag 350 ml CPDAI	Single	Pcs		/	/	*	*
QA0041		Double	Pcs		/	/	*	*
QA0051		Triple	Pcs		/	/	*	*
	Blood collection bag 350 ml CPDAI	Triple	Pcs		/	/	*	*
QA0039	Blood collection Bag (CPD) + additive solution: Blood bag for 42 days	350 ml	Pcs		/	/	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Blood culture bottle (25 ml brain heart infusion broth and SPS, autoclavable)	50 ml	Bottle		*	*	*	*
	Blood culture bottle (50 ml brain heart infusion broth and SPS, autoclavable)	100 ml	Bottle		*	*	*	*
	Bulb syringe / mucous aspirator	Small	Pcs		*	*	*	*
		Medium	Pcs		*	*	*	*
		Large	Pcs		*	*	*	*
	Catheter Foley, Silicone, Ballon 2 ways 10ml, sterile	CH12	Pcs		/	*	*	*
		CH14	Pcs		/	*	*	*
		CH16	Pcs		/	*	*	*
	Catheter Foley, Sil+Silicone, Ballon 3 ways 10 ml, sterile for prostatectomie irrigation	CH18	Pcs		/	/	/	*
		CH20	Pcs		/	/	/	*
	Catheter IV cap, sterile (e.g. luer lock)		Pcs		*	*	*	*
	Catheter IV extension for injection, sterile (e.g., luer lock)		Pcs		*	*	*	*
	Catheter IV with injection port	18G	Pcs		SN	*	*	*
		20G	Pcs		SN	*	*	*
		22G	Pcs		SN	*	*	*
		24G	Pcs		SN	*	*	*
		26G	Pcs		SN	*	*	*
	Cervical collar (rigid)	Small	Pcs		/	*	*	*
		Medium	Pcs		/	*	*	*
		Large	Pcs		/	*	*	*
	Colostomy Bag, Disposable	38 mm	Pcs		/	/	*	*

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Cotton gauze, sterile pack	2" x 2"	Pack		*	*	*	*
		3" x 3"	Pack		*	*	*	*
		4" x 4"	Pack		*	*	*	*
	Cotton swabs – sterile individually wrapped		Pack	1000	*	*	*	*
	Cotton wool, absorbent	500 g	Roll		*	*	*	*
	Cotton wool, non-absorbent	500 g	Roll		/	*	*	*
	Culture Swab Plus – sterile (Amies W/O CH single applicator)	Code 220116	Pack	50	SN	*	*	*
	Developer for X-Ray film (automatic)	1 Gallon	Bottle		/	SN	*	*
	Developer for X-Ray film (manual)	1 Gallon	Bottle		/	SN	*	*
	Drainage strip (Delbet)	25 cm x 3 cm	Pcs		/	/	*	*
QA0230	Dressing – for burns with Paraffin	10 cm x 10 cm	Pcs		/	*	*	*
	Dressing – ABD pad	10 x 20 cm OR 20 x 25 cm	Pcs		SN	SN	SN	SN
	Electric syringe		Pcs		/	/	/	*
	Extension – three-way stopcock	25 cm	Pcs		/	*	*	*
QA0271	Eye pads – sterile		Pcs		/	/	/	*
QA0270	Eye Shields		Pcs		/	/	/	*
	Face mask – surgical, paper	3 layer / ply	Box		*	*	*	*
QA0880	Fixer for X-ray film (automatic)	1 Gallon	Bottle		/	SN	*	*
QA0920	Fixer for X-ray film (manual)	1 Gallon	Bottle		/	SN	*	*
QA0290	Gauze roll, absorbent (BP17 g/m ²)	90 cm x 91 m	Roll		*	*	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
QA0300	Gloves – examination, non sterile, Latex, powder free	Small	Pair		*	*	*	*
QA0301		Medium	Pair		*	*	*	*
QA0302		Large	Pair		*	*	*	*
QA0319	Gloves – surgical, sterile, latex	6.5	Pair		*	*	*	*
QA0320		7	Pair		*	*	*	*
QA0321		7.5	Pair		*	*	*	*
QA0322		8	Pair		SN	SN	SN	SN
QA0361	Gloves – sterile, long cuff (for gynaecological use)	Small	Pair		*	*	*	*
QA0362		Medium	Pair		*	*	*	*
QA0363		Large	Pair		*	*	*	*
	Glucose test strips	For glucose meter	Box	25 – 100 strips	*	*	*	*
	Infusion set with burette – 100 ml disposable	60 drops per minute	Pcs		/	*	*	*
	Infusion set with filter, sterile, single use, single pack	20 drops per minute	Pcs		*	*	*	*
QA0354	Intraocular lens	#18	Pcs		/	/	/	*
QA0355		#19	Pcs		/	/	/	*
QA0356		#20	Pcs		/	/	/	*
QA0357		#21	Pcs		/	/	/	*
QA0358		#22	Pcs		/	/	/	*
QA0359		#23	Pcs		/	/	/	*
		#24	Pcs		/	/	/	*
		#25	Pcs		/	/	/	*
		Intraosseous needle	Adult	Pcs		SN	SN	SN
	Pediatric		Pcs		SN	SN	SN	SN
	Laryngeal mask airway	1	Pcs		/	/	*	*

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Laryngeal mask airway	2	Pcs		/	/	*	*
		2.5	Pcs		/	/	*	*
		3	Pcs		/	/	*	*
		4	Pcs		/	/	*	*
		5	Pcs		/	/	*	*
	Lubrication gel – for urinary catheter single use, sterile	5 ml	Pack		*	*	*	*
	Manual Vacuum Aspiration (MVA) kit (Gynecological)		Kit		SN	SN	*	*
QA0370	Medical plastic bags (Khmer printing) as sample	7 x 11 cm	Pcs		*	*	*	*
QA0913	Medical X-Ray films, Green sensitive	18 cm x 24 cm	Pcs		/	SN	*	*
QA0910		18 cm x 43 cm	Pcs		/	SN	*	*
QA0911		24 cm x 30 cm	Pcs		/	SN	*	*
QA0914		30 cm x 40 cm	Pcs		/	SN	*	*
QA0912		35 cm x 35 cm	Pcs		/	SN	*	*
QA0915		35 cm x 43 cm	Pcs		/	SN	*	*
	Monitoring electrode with Micropore Tape Backing and solid gel	Ag / AgCl	Pcs					
QA0390	Needle – Disposable	18G x 1.½"	Pcs		SN	*	*	*
QA0391		19G x 1.½"	Pcs		SN	*	*	*
QA0392		21G x 1.½"	Pcs		SN	*	*	*
QA0393		23G x 1"	Pcs		SN	*	*	*
QA0394		25G x 1"	Pcs		SN	*	*	*
		26G x ½"	Pcs		SN	*	*	*
QA0403	Needle – Spinal, Disposable	22G/0.7 x 90 mm	Pcs		/	*	*	*

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
QA0402	Needle – Spinal, Disposable	24G/0.7 x 90 mm	Pcs		/	*	*	*
		25G/0.5 x 90 mm	Pcs		/	*	*	*
	Original Perfusion Tubing (Infusion Set)		Pcs					
	Oxygen mask	Pre-Term – 0	Pcs		SN	*	*	*
		Neo-natal – 1	Pcs		SN	*	*	*
		Infant – 2	Pcs		SN	*	*	*
		Children – 3	Pcs		SN	*	*	*
		Adolescent – 4	Pcs		SN	*	*	*
QA0450	Oxygen mask with reservoir bag	Adult	Pcs		SN	*	*	*
QA0451		Children	Pcs		SN	*	*	*
	Parafilm	50mm x 75 m			/	/	/	*
	Plaster of Paris	10 cm	Roll		/	*	*	*
		15 cm	Roll		/	*	*	*
		20 cm	Roll		/	*	*	*
QA0330	Printing paper – high quality UPP 110	110 mm x 20 m	Ream		/	*	*	*
	Safety box – for used sharps / syringes	0.5L (for needles)	Pcs		*	*	*	*
NP0130		5L	Pcs		*	*	*	*
NP0131		10 L	Pcs		*	*	*	*
QA0541	Scalp Vein	23 G	Pcs		*	*	*	*
QA0542		25 G	Pcs		*	*	*	*
	Specimen containers – sterile, plastic	50 ml	Pcs		*	*	*	*
	Spinal Board	Long with securing straps	Pcs		SN	SN	SN	SN
	Splint – pelvic binder		Pcs		SN	SN	SN	SN
	Splint – 76 art traction		Pcs		SN	SN	SN	SN

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Splint – rigid		Pcs		SN	SN	SN	SN
	Spor Ampule steam BI		Box	100 ampules	/	/	SN	*
	Stomach wash Out tube – Fraucher type	CH27	Pcs		/	/	*	*
	Suture – Black monofilament double arms spatulated 30cm (Nylon)	10/0	Pcs		/	/	/	*
QA0582	Suture – Polyglycolic Acid 30mm ½ circle round body 75 cm (Vicryl)	1	Pcs		/	*	*	*
QA0581		0	Pcs		/	*	*	*
QA0579		2/0	Pcs		/	*	*	*
QA0578		3/0	Pcs		/	*	*	*
		4/0	Pcs		/	SN	SN	*
QA0576	Suture – Polyglycolic Acid double arm spatulated (S 24)	6/0	Pcs		/	/	/	*
QA0553	Suture – Catgut Plain 22mm curved cutting 75 cm	3/0	Pcs		*	*	*	*
QA0554	Suture – Catgut Plain 25mm ½ circle Rb 75cm	2/0	Pcs		*	*	*	*
QA0555	Suture – Catgut Plain 30mm ½ circle Rb 75cm	0	Pcs		*	*	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
QA0561	Suture – Polyamide 26mm Curved Rev cutting 75cm (Nylon)	3/0	Pcs		*	*	*	*
QA0563	Suture – Polyamide 30mm ½ circle cutting 75cm (Nylon)	2/0	Pcs		*	*	*	*
QA0575		4/0	Pcs		*	*	*	*
	Suture – Silk 8mm double needle micro-point spatula ½ circle 30mm	8/0	Pcs		/	*	*	*
QA0644	Suture – Silk 16mm curved 45mm	4/0	Pcs		/	*	*	*
QA0640	Suture – Silk 6mm curved 38mm	6/0	Pcs		/	*	*	*
	Suture – Silk 8mm double needle micro-point spatula curved 30mm	10/0	Pcs		/	*	*	*
QA0692	Syringe – Disposable	20 ml	Pcs		/	*	*	*
QA0693		50 ml	Pcs		/	/	/	*
QA0661	Syringe – Disposable & Needle 23G	5 ml	Pcs		*	*	*	*
QA0662		10 ml	Pcs		*	*	*	*
QA0680	Syringe – Disposable & Needle 25G	2 ml	Pcs		*	*	*	*
QA0663		3 ml	Pcs		*	*	*	*
QA0664		5 ml	Pcs		*	*	*	*
	Syringe – Disposable & Needle 26G	1 ml	Pcs		*	*	*	*
	Syringe – Disposable & Needle 26G – 28G	0.1 ml	Pcs		*	*	*	*

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Syringe – Disposable, Sterile, Single use	1 ml	Pcs		*	*	*	*
		2 ml	Pcs		*	*	*	*
		5 ml	Pcs		*	*	*	*
		10 ml	Pcs		*	*	*	*
	Syringe – for insulin	1 ml (100 UI)	Pcs		SN	SN	SN	SN
	Syringe – with spiral	50 ml	Pcs		/	/	/	*
		50 cc	Pcs		/	/	*	*
QA0710	Talc	1 kg	Box		*	*	*	*
QA0730	Tape Test for Autoclave	19 mm x 50m	Roll		*	*	*	*
QA0751	Thorax Anti-return Valve Drain + Trocar	CH12	Pcs		/	/	*	*
QA0752		CH14	Pcs		/	/	*	*
QA0753		CH16	Pcs		/	/	*	*
QA0754		CH18	Pcs		/	/	*	*
QA0755		CH20	Pcs		/	/	*	*
	Three ways stopcock, sterile, single use		Pcs		*	*	*	*
QA0760	Tongue Depressor (wood)	Adult	Pcs		*	*	*	*
	Tourniquet – rubber, single use		Pcs		*	*	*	*
	Tube – Tracheal with balloon	#1	Pcs		/	/	*	*
		#2	Pcs		/	/	*	*
		#2.5	Pcs		/	/	*	*
		#3	Pcs		/	/	*	*
		#3.5	Pcs		/	/	*	*
		#4	Pcs		/	/	*	*
		#4.5	Pcs		/	/	*	*
		#5	Pcs		/	/	*	*
		#5.5	Pcs		/	/	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3	
	Tube – Tracheal with balloon	#6	Pcs		/	/	*	*	
		#6.5	Pcs		/	*	*	*	
		#7	Pcs		/	/	*	*	
		#7.5	Pcs		/	/	*	*	
	Tube – tracheotomy	#4	Pcs		/	/	*	*	
QA0774		#5	Pcs		/	/	*	*	
QA0775		#6	Pcs		/	/	*	*	
QA0772		#7	Pcs		/	/	*	*	
QA0800	Tube – Nasogastric feeding with Cover	CH5	Pcs		/	SN	*	*	
		CH6	Pcs		/	SN	*	*	
		CH7	Pcs		/	SN	*	*	
QA0801		CH8	Pcs		/	SN	*	*	
		CH10	Pcs		/	SN	*	*	
QA0802		CH12	Pcs		/	SN	*	*	
QA0803		CH14	Pcs		/	SN	*	*	
QA0804		CH16	Pcs		/	SN	*	*	
QA0780		Tube – Redon Drain	CH12	Pcs		/	/	SN	*
QA0781			CH16	Pcs		/	/	SN	*
	Tube – Suction, Disposable	CH5	Pcs		/	*	*	*	
		CH6	Pcs		/	*	*	*	
QA0810		CH8	Pcs		/	*	*	*	
QA0811		CH12	Pcs		/	*	*	*	
QA0830	Ultrasound Gel	1kg	Bottle		*	*	*	*	
		5kg	Bottle		/	/	*	*	
QA0840	Umbilical cord clamp		Pcs		*	*	*	*	
	Urine drainage bag with non-return valve, sterile, single use	2 Litre	Pcs		/	*	*	*	

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Vacutainer blood collection needle, sterile, disposable	19G	Box		*	*	*	*
XB0400		21G	Box		*	*	*	*
XB0401		23G	Box		*	*	*	*
	Vacutainer blood collection tubes (type of tube, refer to laboratory guidance). Example: BD Vacutainer® Blood Collection Tubes	red, lavender, black, grey, light blue	Pcs		*	*	*	*
	Vacutainer direct draw adapter, sterile, disposable. Example: BD Vacutainer® Direct Draw Adapter.		Pcs		*	*	*	*
	Vacutainer holder		Pcs		*	*	*	*
NATIONAL PROGRAMS								
Hepatitis								
	Geneexpert cartridge – for diagnosis of HBV viral load		Cartridge					
	Geneexpert cartridge – for diagnosis of HCV viral load		Cartridge					
Immunization program								
NP0010	Syringe – Autodestruct 0.05ml + Needle	27 G x 3/8	Pcs		*	*	*	*
NP0012	Syringe – Autodestruct 0.5ml + Needle	23G x 1	Pcs		*	*	*	*
Infection, Prevention and Control Program								
	Alcohol hand gel / rub		Bottle	500 ml	*	*	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Alcoholmeter (for alcohol hand rub)		Pcs		*	*	*	*
	Apron, Plastic disposable (liquid and splash resistant)	Small	Pcs		*	*	*	*
		Medium	Pcs		*	*	*	*
		Large	Pcs		*	*	*	*
	Apron, Plastic disposable (waterproof)	Extra large	Pcs		*	*	*	*
	Biohazard waste bag – yellow	20cm x 30cm	Pcs		*	*	*	*
		10 L	Pcs		*	*	*	*
		20 L 450mm x 560 mm)	Pcs		*	*	*	*
		40 L	Pcs		*	*	*	*
		220 L	Pcs		*	*	*	*
	Biohazard – sign Ziplock	20cm x 25 cm	Pcs		*	*	*	*
	Boots	Small	Pairs		*	*	*	*
		Medium	Pairs		*	*	*	*
		Large	Pairs		*	*	*	*
	Container – with label – Yellow	20cm x 30cm	Pcs		*	*	*	*
		10 L	Pcs		*	*	*	*
		20 L	Pcs		*	*	*	*
		40 L	Pcs		/	/	*	*
		220 L	Pcs		/	/	*	*
	Container – with label – Brown	20 L	Pcs		/	/	*	*
	Container – with label – Red	20 L	Pcs		/	/	*	*
NR3101	Cadaver bag (body bag), leak proof		Pcs		*	*	*	*
	Coverall, with hood, fluid resistant, disposable	Small	Pcs		SN	SN	*	*
		Medium	Pcs		SN	SN	*	*

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Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Coverall, with hood, fluid resistant, disposable	Large	Pcs		SN	SN	*	*
		Extra large	Pcs		SN	SN	*	*
	Face shield, disposable		Pcs		*	*	*	*
	Face shield	Small	Pcs		/	/	/	*
		Medium	Pcs		/	/	/	*
		Large	Pcs		/	/	/	*
	Fit Test Kit	1 Kit	Pcs		/	/	/	*
	Glove, examination, non sterile, Nitrile	Small	Pcs		/	/	/	*
NR3204		Medium	Pcs		/	/	/	*
NR3156		Large	Pcs		/	/	/	*
	Gown, disposable (liquid and splash resistant)	Small	Pcs		*	*	*	*
		Medium	Pcs		*	*	*	*
		Large	Pcs		*	*	*	*
		Extra large	Pcs		*	*	*	*
	Goggles (reusable)	Small	Pcs		*	*	*	*
		Medium	Pcs		*	*	*	*
		Large	Pcs		*	*	*	*
	Hair cover, disposable		Pcs		*	*	*	*
	Head cover, disposable		Pcs		/	/	/	*
	Hoods (disposable)		Pcs		/	/	/	*
	N95 Mask, Health Care Particulate Respirator-cone or flat fold (95% or greater filter efficiency against particulate aerosols free of oil, fluid or splash resistant, double elastic bands)	Small, Medium, Large	Box		*	*	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Particulate Respirator, duck shape (95% or greater filter efficiency against particulate aerosols free of oil, fluid or splash resistant, double elastic bands)	Small, Medium, Large	Box		/	/	/	*
	Particulate Respirator, cone shape (95% or greater filter efficiency against particulate aerosols free of oil, fluid or splash resistant, double elastic bands)	Small, Medium, Large	Box		/	/	/	*
	Plastic bag – with label – Yellow	20 Litre	Pcs		*	*	*	*
		40 Litre	Pcs		/	/	*	*
		220 Litre	Pcs		/	/	*	*
	Plastic bag – with label – Brown	20 Litre	Pcs		/	/	*	*
	Plastic bag – with label – Red	20 Litre	Pcs		/	/	*	*
	Soap – hand liquid	5 Litre	Bottle	5 litre				
	Shoe covers, single use, disposable		Pairs		/	/	*	*
Oral Health								
	Barbed broach to remove pulp tissue from dental canal							
NV0021	Burr, Cylinder	High-speed	Pcs		/	*	*	*
NV0023		Low-speed	Pcs		/	*	*	*
NV0024	Burr, Round for Contra Angle	High-speed	Pcs		/	*	*	*
NV0025		Low-speed	Pcs		/	*	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
NI0070	Calcium hydroxide		B/2P		/	*	*	*
NV0030	Cartridge syringe – (metal)		Pcs		*	*	*	*
	Composite light cure high briand microfiller 4g (color A3, A3.5) for restorative filling dental cavity		Pcs		/	*	*	*
	Dental curve elevator		Pcs		*	*	*	*
	Dental straight elevator		Pcs		*	*	*	*
	Dental probe		Pcs		*	*	*	*
	Eugenol USP		Vial	10ml	SN	*	*	*
	Files – complete set – length 21 mm (used for root treatment)		Pcs		/	*	*	*
NV0111	Lentulo – complete set – (used for root canal treatment)		Pcs		/	*	*	*
NV0129	Matrix bands (metal matrix)	Medium	Pcs		/	*	*	*
	Mouth mirror		Pcs		*	*	*	*
NV0160	Needle – dental	27G 0.21mm			SN	*	*	*
NV0161		27G 0.30mm			SN	*	*	*
NV0162		27G 0.35mm			SN	*	*	*
	Polyhexa + 85 art rid St 72.17 Hexanios for Soaking instruments before Sterilization	Sachets / 25 ml	Sachets	25ml	*	*	*	*
	Surgical Blade	#11	Pcs		/	*	*	*
	Tweezer		Pcs		*	*	*	*
MICROBIOLOGY CONSUMABLES								
	Bleach solution		1l/bottle		*	*	*	*

Essential Consumables List (10th Edition 2023)

CMS code	Item	Description / Specifications	Unit	In unit	MPA	CPA1	CPA2	CPA3
	Conical Tubes with lid 15 ml (17mmx120mm), graduated		Box	5x50 pcs/pack/box	/	/	/	*
	Conical Tubes with lid 50 ml, graduate (30 mm x115 mm)		Box	5x50 pcs/pack/box	/	/	/	*
	Cotton Sterile swabs-individually wrapped,		Box	1000pcs/pack 2 packs/box	*	*	*	*
	Coverslips 24 x 24 mm		Pack	100 pieces/box 10 boxes/pack	*	*	*	*
	Culture Swab Plus transport medium (eg. Amies or Stuart medium)		Pack	50 Pcs	/	/	*	*
	Cryo tubes sterile 2 ml		Box	100 pcs/pack; 10 packs/box	/	/	/	*
	Filter paper Grade 1 circles 185 mm, porosity 15 to 20 µm		Pack	100 pieces	/	/	/	*
	Frosted end glass slides		Pack	72 boxes	*	*	*	*
	Lens tissue 100 x 150mm		Pack	25 pcs	*	*	*	*
	Metallic loop 10 µl		Pcs		/	/	/	*
	Methanol		Bottle	2.5 Litre	/	*	*	*
	Plastic transfer pipettes sterile 3 ml individual wrapped		Bag	20pcs/pack, 20 packs/bag	/	/	/	*
	Plastic loop 1 µl sterile		Box	1000 pcs	/	/	/	*
	Plastic loop 10 µl sterile		Box	1000 pcs	/	/	/	*
	Washing Bottle plastic		Bottle	250 ml	/	/	*	*
	Specimen containers plastic – 40 ml		Box	600 pcs	*	*	*	*

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Essential Medical Devices List

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Essential Medical Devices List (10th Edition 2023)

No.	CMS code	Name / Item	Unit	Number in unit	MPA	CPA1	CPA2	CPA3
General								
	QC0193	Patient monitor	Pcs	1	/	/	/	*
		Pen torch	Pcs	1	*	*	*	*
		Pulse oximeter - handheld	Pcs	1	SN	*	*	*
		Pulse oximeter - fingertip	Pcs	1	*	/	/	/
	QB0560	Thermometer - oral	Pcs	1	*	*	*	*
		Sphygmomanometer - aneroid	Pcs	1	*	*	*	*
	QB0501		Pcs	1	*	*	*	*
	QB0500		Pcs	1	*	*	*	*
		Sphygmomanometer - digital	Pcs	1	*	*	*	*
			Pcs	1	*	*	*	*
			Pcs	1	*	*	*	*
	QB0530	Stethoscope	Pcs	1	*	*	*	*
RMNCH								
		Thermometer - newborn	Pcs	1	*	*	*	*
NCDs								
		Glucose meter	Pcs	1	*	*	*	*

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Annex 1. Acknowledgement

This 10th Edition of the Essential Medicines List, as the previous edition, was developed by Department of Drugs and Food, Ministry of Health through wider consultations with policy makers, pharmacists, clinicians, national program managers, hospital managers and international experts as well as participants of two consecutive consultative meetings which were organized in November 2023. Specific contributions were made by:

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Annex 2. Major amendments to the Essential Medicines List

1) Addition and Deletion/Removal

The 10th edition has resulted in significant changes to the items (including dosage form and strength) listed in the 9th Essential Medicines List and Essential Consumables List. This updated EML includes several new medicines, such as cancer treatments, a new pill for hepatitis C that combines two medicines, a more effective treatment for HIV, Malaria, MDR-TB etc based on national treatment guidelines. Moreover, medicines were deleted from the C-EML considering their obsolete use or other alternatives that are considered more cost-effective based on available evidence.

A. Medicines added

Name	Dosage form	Strength	Group
Isoflurane	Inhalation		1.1.1
Bupivacaine	Injection	0.25% (hydrochloride) in vial, 20 mg/4 ml	1.2
Lidocaine	Injection	1% (hydrochloride) in 50-ml vial	1.2
		1% (hydrochloride or sulfate) +epinephrine 1:200 000 in vial	1.2
		2% (hydrochloride or sulfate) +epinephrine 1:200 000 in vial	1.2
Midazolam	Injection	1mg/ml	1.3
	Oral liquid	2mg/ml [c]	1.3
	Tablet	7.5 mg	1.3
Oxygen*	Inhalation	No more than 30% oxygen should be used to maintain resuscitation of neonates less than or equal to 32 weeks of gestation	1.4
Ibuprofen	Oral liquid	200mg/5ml	2.1
Paracetamol (acetaminophen)		250mg/5ml [c]	2.1
Fentanyl	Transdermal patch	12 micrograms/hr;	2.2
		50 micrograms/hr	2.2
		100 micrograms/hr	2.2

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Cyclizine [c]	Injection	50mg/ml	2.3
	Tablet	50 mg	2.3
Dexamethasone	Oral liquid	2mg/5ml	2.3
	Tablet	0.5 mg[c];	2.3
		4 mg	2.3
Diazepam	Rectal gel	5mg/ml in 0.5 ml rectal delivery system	2.3
		5mg/ml in 2ml rectal delivery system	2.3
		5mg/ml in 4 ml rectal delivery system	2.3
	Oral liquid	2mg/ml	2.3
Docusate sodium	Capsule	100 mg	2.3
	Oral liquid	50mg/5ml	2.3
Fluoxetine	Solid oral form	20 mg (as hydrochloride)	2.3
Haloperidol	Injection	5 mg in 1 ml ampoule	2.3
	Oral liquid	2 mg/ml.	2.3
	Solid oral	500 micrograms	2.3
		0.5 mg	2.3
		5 mg	2.3
Metoclopramide	Oral liquid	5mg/ml	2.3
	Solid oral form	10 mg (hydrochloride).	2.3
Midazolam	Injection	1mg/ml;	2.3
		5mg/ml	2.3
	Oral liquid	2mg/ml [c].	2.3
	Solid oral dosage form	7.5mg	2.3
Ondansetron	Oral liquid	4mg base/5 ml	2.3
Senna	Oral liquid	7.5mg/5ml	2.3
Acetylcysteine	Oral liquid	10% [c];	4
		20% [c]	4
Methylthioninium chloride (methylene blue)	Injection	10 mg/ml in 10 ml ampoule	4

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Essential Medicines List (10th Edition 2023)

Fomepizole	Injection	5 mg/ml (sulfate) in 20 ml ampoule or 1 g/ml (base) in 1.5 ml ampoule	4
Potassium ferric hexacyanoferrate	Powder for oral administration	Powder for oral administration	4
Sodium nitrite	Injection	30 mg/ml in 10 ml ampoule	4
Sodium thiosulfate	Injection	250 mg/ml in 50 ml ampoule	4
Levetiracetam	Oral solution	100 mg/ml	5.1
	Solid oral	250 mg 500 mg	5.1
Magnesium sulfate	Injection	0.5 g/ml in 2 ml ampoule (equivalent to 1 g in 2 ml; 50% weight/volume)	5.1
Midazolam	Solution for oromucosal administration	5 mg/ml in 0.5 ml, 1 ml, 1.5 ml, 2 ml pre-filled syringe 10 mg/ml in 0.25 ml, 0.5 ml, 0.75 ml, 1 ml pre-filled syringe.	5.1
	Injection	1 mg/ml in 5 ml vial; 5 mg/ml in 1 ml or 3 ml vial	5.1
Phenobarbital	Injection	30mg/ml;	5.1
	Oral liquid	15mg/ml	5.1
Phenytoin	Solid oral	25 mg; (phenytoin sodium)	5.1
	Injection	50 mg per ml in vial (phenytoin sodium)	5.1
	Oral liquid	30 mg per 5ml (phenytoin)	5.1
Valproic acid (sodium valproate)	Oral liquid	200mg per 5ml	5.1
	Tablet (crushable)	100 mg	5.1
	Tablet (enteric-coated)	200 mg	5.1
Trihexyphenidyl (alternative to biperiden)	Tablet	5 mg	5.3
	Injection	10 mg/5 ml	5.3
Ivermectin	Tablet	3 mg	6.1.1
Mebendazole	Tablet	100 mg (chewable)	6.1.1
Praziquantel	Tablet	150 mg,	6.1.1
		500 mg	

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Diethylcarbamazine	Tablet	50 mg (dihydrogen citrate);	6.1.2
Praziquantel	Tablet	150 mg,	6.1.3
		500 mg	
Amikacin	Injection	50 mg/ml (as sulfate) [c];	6.2.1
		250 mg/ml (as sulfate) in 2 ml vial	
Amoxicillin	Powder for suspension (oral liquid)	125 mg (as trihydrate)/5 ml	6.2.1
	Powder for injection	250 mg, (as sodium) in vial	
		500 mg (as sodium) in vial	
		1 g (as sodium) in vial	
Amoxicillin + clavulanic acid	Tablet	875 mg (as trihydrate) + 125 mg (as potassium salt);	6.2.1
Amoxicillin + clavulanic acid Ampicillin Benzathine benzylpenicillin	Powder for injection	500 mg (as sodium) + 100 mg (as potassium salt)	6.2.1
Amoxicillin + clavulanic acid Ampicillin Benzathine benzylpenicillin	Powder for injection	500 mg (as sodium) in vial	6.2.1
	Powder for injection	1.2 million iu (+900 mg) in vial [c];	6.2.1
600 mg (1 million iu) (sodium or potassium salt) in vial			
Benzylpenicillin (penicillin g)	Powder for injection	600 mg (1 million iu) (sodium or potassium salt) in vial	6.2.1
Cefalexin	Tablet or capsule	250 mg (as monohydrate)	6.2.1
	Powder for oral liquid	125mg/ 5ml (anhydrous)	6.2.1
		250mg/ 5ml (anhydrous)	
	Tablet (dispersible)	125 mg [c]	6.2.1
250 mg [c]			
Clindamycin	Capsule	150 mg (as hydrochloride)	6.2.1
	Injection	150 mg/ml (as phosphate)	6.2.1

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		600 mg/4 ml (as phosphate)	
		900 mg/6 ml (as phosphate).	
	Powder for oral liquid:	75 mg/5 ml (as palmitate hydrochloride) [c].	6.2.1
Cloxacillin	Capsule (oral administration is preferred due to better bioavailability)	250 mg [c] (as sodium)	6.2.1
	Powder for injection	250 mg [c] (as sodium);	6.2.1
		500 mg (as sodium);	
	Powder for oral liquid	125 mg/5 ml (as sodium)	6.2.1
250 mg/5 ml (as sodium)			
Doxycycline	Tablet or capsule	50 mg [c] (as hydrochloride)	6.2.1
	Powder for oral liquid	25 mg/5 ml (monohydrate) [c].	6.2.1
	Powder for injection	100 mg in vial.	6.2.1
Gentamicin	Injection	10 mg/ml (as sulfate); in 2-ml vial	6.2.1
		40 mg/ml (as sulfate) in 2-ml vial	
Metronidazole	Tablet	500 mg	6.2.1
Nitrofurantoin	Tablet	50 mg [c]	6.2.1
	Oral liquid	25 mg/5 ml [c]	
Phenoxymethylpenicillin	Powder for oral liquid	250 mg/5 ml (as potassium)	6.2.1
Procaine benzylpenicillin	Powder for injection:	1 g (=1 million IU); in vial.	6.2.1
		3 g (=3 million IU) in vial	
Spectinomycin	Powder for injection	2 g (as hydrochloride) in vial	6.2.1
Sulfasalazine	Tablet	100 mg + 20 mg	6.2.1
	Tablet (dispersible)	100 mg + 20 mg [c].	6.2.1

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Azithromycin	Capsule or tablet	250 mg (anhydrous)	6.2.2
Cefixime	Powder for oral liquid	100 mg/5 ml [c]	6.2.2
Ceftriaxone	Powder for injection	250 mg (as sodium) in vial	6.2.2
Ciprofloxacin	Solid oral dosage form – tablet or capsule	100 mg (as hydrochloride)	6.2.2
		250 mg (as hydrochloride)	
	Solution for iv infusion	2 mg/ml (as hyslate) [c]	6.2.2
	Oral liquid	250 mg/5 ml (anhydrous) [c]	6.2.2
Clarithromycin	Tablet or capsule	250 mg [c]	6.2.2
	Powder for injection	500 mg in vial	6.2.2
	Powder for oral liquid	125 mg/5 ml	6.2.2
250 mg/5 ml			
Meropenem	Powder for injection	500 mg (as trihydrate)	6.2.2
Piperacillin + tazobactam	Powder for injection	2 g (as sodium) + 250 mg (as sodium) in vial	6.2.2
		4 mg (as sodium) + 500 mg (as sodium) in vial	
Vancomycin	Powder for injection	125 mg (as hydrochloride) in vial	6.2.2
		250 mg (as hydrochloride) in vial	6.2.2
Rifampicin	Oral liquid	20 mg/ml	6.2.4
Ethambutol (E)	Tablet (dispersible)	100 mg [c]	6.2.5
Ethambutol + isoniazid + rifampicin	Tablet	275 mg + 75 mg + 150 mg	6.2.5
Isoniazid [h]	Tablet (dispersible)	100 mg [c]	6.2.5
Isoniazid + rifampicin	Tablet (dispersible)	50 mg + 75 mg [c]	6.2.5
Isoniazid + rifapentine	Tablet (scored)	300 mg + 300 mg (disoproxil fumarate)	6.2.5

Essential Medicines List (10th Edition 2023)

Rifampicin [r]	Tablet or capsule	300 mg	6.2.5
Amikacin	Powder for injection	250 mg/ml (as sulfate) in 2 ml vial	6.2.5
Bedaquiline	Tablet	20 mg	6.2.5
Cycloserine	Tablet or capsule	125 mg [c]	6.2.5
Ethionamide	Tablet (dispersible)	125 mg [c]	6.2.5
Levofloxacin	Tablet (dispersible)	100 mg [c]	6.2.5
Linezolid	Tablet (dispersible)	150 mg [c]	6.2.5
Moxifloxacin	Tablet (dispersible)	100 mg [c]	6.2.5
Streptomycin [c]	Powder for injection	1 g (as sulfate) in vial	6.2.5
Clotrimazole	Vaginal cream	10%	6.3
Fluconazole	Tablet or capsule	50 mg	6.3
	Injection	2 mg/ml in vial	
	Powder for oral liquid	50 mg/ml [c]	
Griseofulvin	Tablet or capsule	125 mg	6.3
		250 mg	
	Oral liquid	125 mg/5ml [c]	6.3
Itraconazole	Tablet or capsule	100 mg	6.3
Nystatin	Oral liquid	100 000 IU/ml [c]	6.3
Voriconazole	Tablet	50 mg	6.3
		200 mg	
Acyclovir	Oral liquid	200 mg/ml [c]	6.4.1
	Powder for injection	250 mg (as sodium salt) in vial	6.4.2

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Darunavir + ritonavir (drv/r)	Tablet	400 mg + 50 mg	6.4.2.3
Ritonavir	Tablet	25 mg	6.4.2.3
Dolutegravir	Tablet (dispersible, scored)	10 mg	6.4.2.4
Dolutegravir + lamivudine + tenofovir	Tablet	50 mg + 300 mg + 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil)	6.4.2.5
Efavirenz + lamivudine + tenofovir	Tablet	400 mg + 300 mg + 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil)	6.4.2.5
Lamivudine + tenofovir	Tablet	300 mg + 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).	6.4.2.5
Lamivudine + zidovudine	Tablet	150 mg + 300 mg	6.4.2.5
Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Tablet (scored):	300 mg + 25 mg + 800 mg + 160 mg	6.4.2.6
Daclatasvir + sofosbuvir	Tablet	60 mg+ 400 mg	6.4.4.2.1
Sofosbuvir + velpatasvir	Tablet	400 mg + 100 mg	6.4.4.2.1
Metronidazole	Tablet	500 mg	6.5.1
Artemether + lumefantrine	Tablet	20 mg + 120 mg.	6.5.3.1
Artesunate + mefloquine	Tablet	N1 – 25 mg artesunate and 55 mg mefloquine hydrochloride (equivalent to 50 mg mefloquine base)	6.5.3.1
		N2 – 100 mg artesunate and 220 mg mefloquine hydrochloride (equivalent to 200 mg mefloquine base)	
Artesunate + pyronaridine tetraphosphate	Granules	20 mg + 60 mg	6.5.3.1
	Tablet	60 mg + 180 mg.	6.5.3.1
Primaquine	Tablet	7.5 mg (as diphosphate)	6.5.3.1
Ibuprofen	Oral liquid [c]	100 mg/5 ml [c]	7.1
	Suppository	250 mg [c]	7.1
Azathioprine	Tablet	25 mg [c]	8.1
	Tablet (scored)	50 mg	8.1

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Cyclophosphamide	Solid oral dosage form	25 mg	8.1
Daunorubicin	Powder for injection	20 mg (as hydrochloride) in vial	8.1
Etoposide	Capsule	50 mg	8.1
Methotrexate	Tablet	2.5 mg (as sodium)	8.1
Vinblastine	Injection	10 mg / 10ml (sulfate) in vial	8.1
Dexamethasone	Oral liquid [c]	2 mg/5ml	8.2.4
	Tablet	2 mg [c];	8.2.4
4 mg			
Prednisolone	Tablet	25 mg	8.2.4
	Oral liquid [c]	5 mg/ml	8.2.4
Nutrix	Wafer	Packet	9.1
Ferrous salt	Oral liquid (as sulfate)	Equivalent to 25 mg iron (as sulfate)/ml	10.1
	Tablet	Equivalent to 60 mg iron	10.1
Ferrous salt + folic acid	Tablet	Equivalent to 60 mg elemental iron + 2.8 mg folic acid ^{nb}	10.1
Folic acid	Tablet	400 micrograms	10.1
		1 mg	10.1
Dabigatran	Capsule	110 mg	10.2
Heparin sodium	Injection	20 000 IU/ml in ampoule	10.2
Phytomenadione (vitamin k1)	Tablet	10 mg	10.2
Deferiprone	Tablet (dispersible)	100 mg	10.3
		250 mg	

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	Tablet film coated	90 mg	10.3
		360 mg	
Fresh-frozen plasma			11.1
Platelets			11.1
Red blood cells			11.1
Whole blood			11.1
Anti-d immunoglobulin	Injection	250 micrograms in single-dose vial	11.2.1
dextran 40	Injectable solution	9% Normal saline in 500 ml	11.3
Bisoprolol	Tablet	2.5 mg; 5 mg	12.1
Digoxin	Tablet	62.5 micrograms	12.2
Verapamil	Injection	2.5 mg/ml (hydrochloride) in 2 ml ampoule	12.2
	Tablet	40 mg; 80 mg (hydrochloride)	12.2
Enalapril	Tablet	2.5 mg (as hydrogen maleate)	12.2
		5 mg (as hydrogen maleate)	12.2
Hydrochlorothiazide	Solid oral dosage form (tablet or capsule)	25 mg	12.2
Lisinopril + amlodipine	Tablet	10 mg + 5 mg; 20 mg+ 5 mg; 20 mg+ 10 mg	12.2
Lisinopril + hydrochlorothiazide	Tablet	10 mg + 12.5 mg; 20 mg + 12.5 mg; 20 mg+ 25 mg	12.2
Losartan	Tablet	25 mg	12.2
Telmisartan + amlodipine	Tablet	40 mg + 5 mg; 80 mg + 5 mg; 80 mg + 10 mg.	12.2
Telmisartan + hydrochlorothiazide	Tablet	40 mg + 12.5 mg; 80 mg + 12.5 mg; 80 mg + 25 mg.	12.2
Digoxin	Tablet	62.5 micrograms	12.4
Enalapril	Tablet	2.5 mg (as hydrogen maleate)	12.4

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		5 mg (as hydrogen maleate)	12.4
Furosemide	Tablet	20 mg	12.4
	Oral liquid	20 mg/5 ml [c].	12.4
		50 mg/5 ml [c].	
Spirolactone	Tablet	25 mg	12.4
Acetylsalicylic acid + atorvastatin + ramipril	Tablet	100 mg + 20 mg + 2.5 mg; 100 mg + 20 mg + 5 mg; 100 mg + 20 mg + 10 mg; 100 mg + 40 mg + 2.5 mg; 100 mg + 40 mg + 5 mg; 100 mg + 40 mg + 10 mg.	12.7
Acetylsalicylic acid + simvastatin + ramipril + atenolol + hydrochlorothiazide	Tablet	100 mg + 20 mg + 5 mg + 50 mg + 12.5 mg.	12.7
Terbinafine	Cream or ointment	1% (hydrochloride)	
Mupriocin	Cream or ointment	2%	13.2
Calamine	Lotion		13.3
Permethrin	Cream	5%	13.5
Barium sulfate	Aqueous suspension.		14.2
Iohexol	Injection	140 mg to 350 mg iodine/ml in 5 ml, 10 ml, 20 ml ampoules.	14.2
Ethanol	Solution	70% (denatured)	15.1
Chlorine base compound	Liquid or solid	0.1% available chlorine for solution	15.2
Ranitidine	Tablet	150 mg (as hydrochloride).	17.1
	Injection	25 mg/ml (as hydrochloride) in 2 ml ampoule	17.1
Dexamethasone	Solid oral dosage form (tablet or capsule)	0.75 mg	17.2
Sulfasalazine	Tablet	500 mg.	17.3
Senna	Tablet	7.5 mg (sennosides)	17.4

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Oral rehydration salts – zinc sulfate [c]	Co-packaging	Containing ors powder for dilution and zinc sulfate solid oral dosage form 20 mg	17.5
Insulin, injection soluble	Injection	100 IU/ml in 10-ml vial	18.2.1
Insulin, intermediate acting	Injection	40 IU/ml in 10 ml vial	18.2.1
		100 IU/ ml in 3ml 103 cartridge or pre-filled pen	18.2.1
Insulin, long- acting	Injection	100 IU/ ml in 3ml 103 cartridge or pre-filled pen	18.2.1
Empagliflozin	Tablet	10 mg	18.2.2
		25 mg	18.2.3
Glucagon	Injection	1 mg/ml.	18.3
Anti-rabies virus monoclonal antibodies	Injection	40 IU/ml in 1.25 ml vial	19.2
		100 IU/ml in 2.5 ml vial	19.2
Neostigmine	Tablet	15 mg (bromide)	20
Vecuronium	Powder for injection	10 mg (bromide)/1 ml in vial with diluent	20
Ofloxacin	Eye drops	0.30%	21.1
Atropine	Eye drops	0.5% (sulfate)	21.5
Ethinylestradiol + norethisterone	Tablet	35 micrograms + 1 mg	22.1.1
		50 micrograms + 1 mg	22.1.1
Ulipristal	Tablet	30 mg (as acetate).	22.1.1
Tranexamic acid	Injection	lv: 100 mg per ml in 10 ml ampoule	22.4
Chlorhexidine	Solution or gel	7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care).	22.6
Fluoxetine	Tablet or capsule	20 mg (as hydrochloride)	23.3
Fluoxetine	Tablet or capsule	20 mg (as hydrochloride)	23.4
Acamprosate calcium	Tablet	333 mg	23.5.1

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Naltrexone	Injection suspension (extended-release):	380 mg in vial	23.5.1
	Tablet	50 mg	23.5.1
Varenicline	Tablet	0.5 mg	23.5.2
Beclometasone + formoterol	Dry powder inhaler	100 micrograms + 6 micrograms per dose	24.1
		200 micrograms + 6 micrograms per dose	24.1
Salbutamol	Respirator solution for use in nebulizers	5 mg/ml (as sulfate)	24.1
Tiotropium	Powder for inhalation, capsule	18 micrograms	24.1
	Inhalation solution	1.25 micrograms per actuation.	24.1
		2.5 micrograms per actuation.	24.1
Potassium chloride	Solution	11.2% in 20 ml ampoule (equivalent to k+ 1.5 mmol/ml, cl- 1.5 mmol/ml).	25.2
	Solution for dilution	7.5% (equivalent to k+ 1 mmol/ml and cl- 1 mmol/ml);	25.2
		15% (equivalent to k 2 mmol/ml and cl 2 mmol/ml)	25.2
Bacillus thuringiensis subsp.israelensis strain AM65-52			25.3
Calcium	Tablet	500 mg (elemental).	26
Iodine	Capsule	190 mg	26
	Iodized oil	0.5 ml (240 mg iodine) in ampoule (oral or injectable)	26
Pyridoxine (vitamin b6)	Tablet	25 mg	26
Riboflavin (vitamin b2)	Tablet	5 mg	26
Fluoride	Varnish	Containing 22 500 ppm fluoride (any type)	30
Glass ionomer cement	Multi-use bottle	Powder + liquid	30
Resin-based composite (low-viscosity)	Tube, multi-use bottle or single use applicator	of any type for use as dental sealant	30

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Resin-based composite (high-viscosity) *	Tube, multi-use syringe or single use capsule	Of any type for use as dental filling material	30
Silver diamine fluoride	Solution	38% w/v	30

A. Medicines removed/deleted

Name	Dosage form	Strength	Group
Lidocaine	Dental cartridge	2% (hydrochloride) in 1.8ml cartridge	1.2
Bisacodyl	Tablet	5 mg	2.3
Pralidoxime	Powder for injection	1 gram	4.2
Diazepam	injection	10 mg/2 mL in ampoule	5.1
Gabapentin	Tablet or capsule	100 mg	5.1
		300 mg	5.1
Cloxacillin	Powder for injection	1 g (as sodium salt) in vial	6.2.1
Gentamicin	Injection	80 mg (as sulfate)/mL in 2-mL vial	6.2.1
Griseofulvin	tablet or capsule	500 mg	6.3
Itraconazole	tablet or capsule	200 mg	6.3
Acyclovir	tablet	400 mg	6.4.1
Darunavir	tablet	150 mg	6.4.2.3
Lopinavir + ritonavir (LPV/r)	Oral Liquid	400 mg + 100 mg/5 mL	6.4.2.3
Sofosbuvir	Tablet	400 mg	6.4.4.2.1

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Daclatasvir	Tablet	30 mg (as hydrochloride)	6.4.4.2.1
		60 mg (as hydrochloride)	6.4.4.2.1
Artesunate rectocap	Rectal dosage form	50 mg	6.5.3.1
		200 mg	6.5.3.1
Cytarabine	Powder for injection	100 mg in vial	8.2
Dacarbazine	Powder for injection	100 mg in vial	8.2
Dactinomycin	Injection	500 micrograms in vial	8.2
Mitomycin	Injection	2 mg in ampoule	8.2
Etamsylate	Injection	250 mg/ 2 ml in vial	10.2
Hydroxyethyl Starch (HES) in isotonic sodium chloride solution	Injection	6% HES 130 / 0.4	11.3
Adenosine	Injection	3 mg/mL in 2- mL ampoule	12.2
Hydrochlorothiazide	Solid oral dosage form (tablet or capsule)	50 mg	12.3
Nicardipine	Injection	10 mg/50 ml in bottle	12.3
Nifedipine as hypertensive	Tablet	20 mg (modified release)	12.3
		10 mg (immediate release)	12.3
Captopril	Tablet	25 mg	12.4
Dobutamine	Injection	5 mg/mL (as hydrochloride)	12.4
Hydrochlorothiazide	Scored tablet	50 mg	12.4
Fenofibrate	tablet	200 mg	12.6
Benzoic acid + salicylic acid	Ointment	6%+3% (500 g/Jar)	13.1
Clotrimazole	Cream	1%	13.1

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Fusidic acid	Cream	2%	13.1
Ketoconazole	Cream	2%	13.1
Betamethasone + salicylic acid	Cream or Ointment	0.05% + 3%	13.3
Clobetasole propionate	Lotion	0.05%	13.3
	Cream	0.05%	13.3
Triamcinolone acetonide	Cream	0.10%	13.3
Tretinoin	Cream	0.05%	13.3
Crotamiton	Cream	0.10	13.5
Ethanol	Solution	96% V/V	15.1
Isopropyl alcohol	Solution	1.00	15.2
Glycerol	Solution	98%	15.2
Peracetic acid	Solution	0.20%	15.2
Cimetidine	Tablet	200 mg	17.1
	Injection	200 mg/ 2ml in ampoule	17.1
Domperidone	Tablet	10 mg	17.2
Moxifloxacin	Eye drops	0.01	21.1
Neomycin – polymycin B - dexamethasone	Eye drops	-	21.1
Tobramycin	Eye drops	0.30%	21.1
Fluorometholone	Eye drops	0.10%	21.2
Olopatadine	Eye drops	1 mg/mL	21.2
Hydroxypropyl methylcellulose	Intraocular injection	2% (3 ml pre – filled syringe pack)	21.4
			21.4

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Travoprost (travatan)	Eye drops		21.4
Bevacizumab	Injection	25 mg/ml, 4 ml-vial	21.6
Haloperidol	Tablet	10 mg	23.1
Thioridazine	Tablet	10mg	23.1
Imipramine	Tablet	25 mg	23.2.1
Nortriptyline	Tablet	25 mg (as hydrochloride)	23.2.1
Aminophylline	Tablet	100 mg	24.1
Salbutamol	Tablet	4 mg	24.1
Glucose (5%) + sodium chloride (or Saline)	Injectable solution with IV giving set	5% glucose in 1/3 NaCl - 500 mL	25.1
		5% glucose, 0.225 % NaCl - 500 mL	25.1
Clotrimazole	Topical	1% ear drops	27
Colchicine	Tablet	600 micrograms	28.1

2) Antibacterials (6.2)

Taking account of the global recognition of the need for effective antimicrobial stewardship, as well as the need to ensure access to necessary antibiotics and appropriate prescribing, the WHO Expert Committee proposed that these antibiotics could be categorized in three groups: KEY ACCESS, WATCH and RESERVE groups². The 10th Edition has classified antibiotics according these groups to ensure their appropriate use.

- **KEY ACCESS GROUP.** This group includes antibiotics recommended as empiric, first or second choice treatment options for common infectious syndromes and are listed in the EML/EMLc with the syndromes for which they are recommended. They should be widely available, at an affordable cost, in appropriate formulations and of assured quality. First choices are usually narrow spectrum agents with positive benefit- to-risk ratios, and low resistance potential, whereas second choices are generally broader spectrum antibiotics with higher resistance potential, or less favorable benefit-to-risk ratios.
- **WATCH GROUP.** This group includes antibiotic classes that are considered generally to have higher resistance potential and that are still recommended as first or second choice treatments but for a limited number of indications. These medicines should be prioritized as key targets of local and national stewardship programs and monitoring. This group includes the highest priority agents on the list of Critically Important Antimicrobials (CIA) for Human Medicine.
- **RESERVE GROUP.** This group includes antibiotics that should be treated as ‘last-resort’ options, or tailored to highly specific patients and settings, and when other alternatives would be inadequate or have already failed (e.g., serious life-threatening infections due to multi-drug resistant bacteria). These

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medicines could be protected and prioritized as key targets of high-intensity national and international stewardship programs involving monitoring and utilization reporting, to preserve their effectiveness.

3) Presentation in Essential Medicines List

The medications under the sections are listed in the following format:

CMS Code	Medicine Name (INN)	ATC Code	Form	Strength	MPA	CPA1	CPA2	CPA3	V, E, N
AB0170	Dopamine	C01CA04	Injection	40 mg/mL (hydrochloride) in 5-	/	/	S	*	V

/ This means a medicine is not available for use at that level of institution

* This means a medicine is available for use to patients at that level of institution

SN this means **Special Need**; a medicine may be available to an institution by special order.

V, E, N this means **Vital, Essential, and Non-essential**, a coding system used for medicines

	Health Care Facility
MPA	Minimum Package Activity (health centers and health posts)
CPA1	Complementary Package of Activity 1 (district referral hospitals)
CPA2	Complementary Package of Activity 2 (provincial or district referral hospitals)
CPA3	Complementary Package of Activity 3 (provincial hospitals)

Notes:

Diagnostic facilities: Health facility levels have different degrees of laboratory diagnostic support facilities available.

Medicine availability: All the items listed are distributed from the Central Medical Stores (CMS). Restricted and referral level medicines will be available from the CMS only at the request of the relevant program or institution. It is, therefore, important that accurate estimates for the annual requirements for these items

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are made by the programs or institutions concerned well in advance and the information forwarded to the CMS so that sufficient quantities of the required items may be procured and held in stock.

4) Grouping of medicines

Information about medicines and pharmaceutical products is a prerequisite at all health care levels to ensure proper utilization and promote rational prescribing. Therefore, medicines are grouped according to **relevant therapeutic category** (for example, *anesthetics, anti-infectives, cardiovascular medicines*) unlike the previous editions in which they are grouped by dosage forms and the use for programs (for instance, basic medicines, oral medicines, injections, programs). This grouping considers indications of an individual medicine as recommended in treatment guidelines. See “*Table of Contents*”.

5) Anatomical Therapeutic Chemical (ATC) Classification System

The 9th Edition has adopted the ATC classification system for grouping medicines based on anatomical site of action, therapeutic category, pharmacological action, chemical classification, and name of medicine. This is an important system in the public health as it enables a deeper understanding of drug utilization in the country, and improves procurement and distribution of medicines, and rational prescribing and dispensing practices. It can be used for collection of drug utilization statistics in a variety of settings and from a variety of sources, for example: sales data such as wholesale data at a national, regional or local level; dispensing data either comprehensive or sampled; patient encounter-based data; patient survey data and health Facility data³.

Each medicine is accorded a unique code making use of the following parameters:

- a) **1st level** Fourteen main groups based on organ of action (*Anatomical Classification*)
- b) **2nd level** based on therapeutic subgroup (94 levels) (*Therapeutic subcategory*)
- c) **3rd level** based on pharmacological subgroup (267 levels) (*pharmacology subcategory*)
- d) **4th level** based on *chemical/pharmacological/therapeutic subgroups* (885 levels)
- e) **5th level** is the *chemical substance* (4822 levels)

The complete classification of **metformin** illustrates the structure of the code:

A	Alimentary tract and metabolism (1 st level, anatomical main group)
A10	Drugs used in diabetes (2 nd level, therapeutic subgroup)
A10B	Blood glucose lowering drugs, excl. insulins (3 rd level, pharmacological subgroup)
A10BA	Biguanides (4 th level, chemical subgroup)
A10BA02	Metformin (5 th level, chemical substance)

6) VEN system

The VEN system sets priorities for selection, procurement and use according to the potential health impact of individual medicines. VEN assigns each pharmaceutical product on the formulary or essential medicines list to one of the following three categories:

- **V: vital** medicines are potentially life-saving, have significant withdrawal effects (making regular supply mandatory), or are crucial to providing basic health services.
- **E: essential** medicines are effective against less severe but nevertheless significant forms of illnesses but are not absolutely vital providing basic health care.
- **N: non-essential** medicines are used for minor or self-limited illnesses, are of questionable efficacy, or have a comparatively high cost for a marginal therapeutic advantage. In many cases, medicines for minor illnesses are included on the EML but may be considered a lower priority for procurement than other medicines.

The classification of medicines should not be a one-time exercise. As the national guideline or essential medicines list is updated, and as public health priorities change, the VEN categories should be reviewed and updated.

The selection of essential medicines is a continuing process, taking into account changing priorities for public health action and epidemiological conditions, as well as progress in pharmacological and pharmaceutical knowledge. It should be accompanied by a concomitant effort in education, training and information of health personnel in the proper use of the medicines.

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