World Health Organization Model List of Essential Medicines for Children

7th List 2019



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7th edition

WHO Model List of Essential Medicines for Children (2019)

Explanatory notes

This Model List is intended for use for children up to 12 years of age.

The **core list** presents a list of minimum medicine needs for a basic health-care system, listing the most efficacious, safe and cost-effective medicines for priority conditions. Priority conditions are selected on the basis of current and estimated future public health relevance, and potential for safe and cost-effective treatment.

The **complementary list** presents essential medicines for priority diseases, for which specialized diagnostic or monitoring facilities, and/or specialist medical care, and/or specialist training are needed. In case of doubt medicines may also be listed as complementary on the basis of consistent higher costs or less attractive cost–effectiveness in a variety of settings.

The **square box symbol (** \square **)** is primarily intended to indicate similar clinical performance within a pharmacological class. The listed medicine should be the example of the class for which there is the best evidence for effectiveness and safety. In some cases, this may be the first medicine that is licensed for marketing; in other instances, subsequently licensed compounds may be safer or more effective. Where there is no difference in terms of efficacy and safety data, the listed medicine should be the one that is generally available at the lowest price, based on international drug price information sources.

Therapeutic equivalence is indicated only on the basis of reviews of efficacy and safety and when consistent with WHO clinical guidelines. National lists should not use a similar symbol and should be specific in their final selection, which would depend on local availability and price.

The format and numbering of the 21st WHO Model List of Essential Medicines is used for the 7th WHO Model Essential List for Children. Some sections have been deleted because they contain medicines that are not relevant for children.

The **a** symbol indicates that there is an age or weight restriction on use of the medicine; details for each medicine are in Table 1.1 of Annex 1.

The presence of an entry on the Essential Medicines List carries no assurance as to pharmaceutical quality. It is the responsibility of the relevant national or regional drug regulatory authority to ensure that each product is of appropriate pharmaceutical quality (including stability) and that when relevant, different products are interchangeable.

For recommendations and advice concerning all aspects of the quality assurance of medicines see the WHO Medicines website http://www.who.int/medicines/areas/quality_safety/quality_assurance/en/.

Medicines and dosage forms are listed in alphabetical order within each section and there is no implication of preference for one form over another. Standard treatment guidelines should be consulted for information on appropriate dosage forms.

The main terms used for dosage forms in the Essential Medicines List can be found in Table 1.2 of Annex 1.

Definitions of many of these terms and pharmaceutical quality requirements applicable to the different categories are published in the current edition of *The International Pharmacopoeia* http://www.who.int/medicines/publications/pharmacopoeia.

1. ANAESTHETICS, PREOPERATIVE MEDICINES AND MEDICAL GASES			
1.1 General anaesthetics and oxygen			
1.1.1 Inhalational medicines			
halothane	Inhalation.		
isoflurane	Inhalation.		
nitrous oxide	Inhalation.		
oxygen	Inhalation (medical gas).		
1.1.2 Injectable medicines			
ketamine	Injection: 50 mg (as hydrochloride)/mL in 10-mL vial.		
	Injection: 10 mg/mL; 20 mg/mL.		
propofol *	* Thiopental may be used as an alternative depending on local availability and cost.		
1.2 Local anaesthetics			
	Injection: 0.25%; 0.5% (hydrochloride) in vial.		
□ bupivacaine	Injection for spinal anaesthesia: 0.5% (hydrochloride) in 4-mL ampoule to be mixed with 7.5% glucose solution.		
	Injection: 1%; 2% (hydrochloride) in vial.		
□ lidocaine	Injection for spinal anaesthesia: 5% (hydrochloride) in 2-mL ampoule to be mixed with 7.5% glucose solution.		
	Topical forms: 2% to 4% (hydrochloride).		
	Dental cartridge: 2% (hydrochloride) + epinephrine 1:80 000.		
lidocaine + epinephrine (adrenaline)	Injection: 1%; 2% (hydrochloride or sulfate) + epinephrine 1:200 000 in vial.		
1.3 Preoperative medication and sedation for short-term	m procedures		
atropine	Injection: 1 mg (sulfate) in 1-mL ampoule.		
	Injection: 1 mg/mL.		
□ midazolam	Oral liquid: 2 mg/mL.		
	Tablet: 7.5 mg; 15 mg.		
morphine	Injection: 10 mg (sulfate or hydrochloride) in 1-mL ampoule.		
1.4 Medical gases			
	Inhalation		
*	For use in the management of hypoxaemia.		
oxygen*	*No more than 30% oxygen should be used to initiate resuscitation of neonates less than or equal to 32 weeks of gestation.		
2. MEDICINES FOR PAIN AND PALLIATIVE CARE			
2.1 Non-opioids and non-steroidal anti-inflammatory me	edicines (NSAIMs)		

Oral liquid: 200 mg/5 mL. Tablet: 200 mg; 400 mg; 600 mg.	
a Not in children less than 3 months.	
Oral liquid: 120 mg/5 mL; 125 mg/5 mL.	
Suppository: 100 mg.	
paracetamol* Tablet: 100 mg to 500 mg.	
* Not recommended for anti-inflammatory use due to lack of proven benefit to that effect.	of
2.2 Opioid analgesics	
Granules (slow release; to mix with water): 20 mg to 200 n (morphine sulfate).	ng
Injection: 10 mg (morphine hydrochloride or morphine sulfa in 1-mL ampoule.	ate)
I morphine* Oral liquid: 10 mg (morphine hydrochloride or morphine sulfate)/5 mL.	
Tablet (slow release): 10 mg – 200mg (morphine hydrochlor or morphine sulfate).	oride
Tablet (immediate release): 10 mg (morphine sulfate).	
*Alternatives limited to hydromorphone and oxycodone.	
Complementary list	
Tablet: 5 mg; 10 mg (as hydrochloride).	
Oral liquid: 5mg/5mL; 10mg/5mL (as hydrochloride).	
methadone* Concentrate for oral liquid: 5 mg/ mL; 10mg/ mL (as hydrochloride)	
*For the management of cancer pain.	
2.3 Medicines for other symptoms common in palliative care	
mitriptyline Tablet: 10 mg; 25 mg.	
Injection: 50 mg/mL.	
cyclizine Tablet: 50 mg.	
Injection: 4 mg/mL in 1-mL ampoule (as disodium phospha salt).	te
dexamethasone Oral liquid: 2 mg/5 mL.	
Tablet: 2 mg.	
Injection: 5 mg/mL.	
diazepam Oral liquid: 2 mg/5 mL.	
Rectal solution: 2.5 mg; 5 mg; 10 mg.	
Tablet: 5 mg; 10 mg.	
Capsule: 100 mg.	
docusate sodium Oral liquid: 50 mg/5 mL.	
docusate sodium	

Injection: Intercipation inte		Injection: 400 micrograms/mL; 600 micrograms/mL.		
Injection: 1 mg/mL; 5 mg/mL. Injection: 1 mg/mL; 5 mg/mL. Oral liquid: 2 mg/mL. Oral liquid: 2 mg/mL. Oral liquid: 2 mg/mL. Oral liquid: 2 mg/mL. Solid oral dosage form: 7.5 mg; 15 mg. Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride). Oral liquid: 4 mg base/mL in 2-mL ampoule (as hydrochloride). Oral liquid: 4 mg base/mL ampoule (as hydrochloride). Oral liquid: 7.5 mg/5 mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 mg/mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 mg/mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 mg/mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ > 1 mg/mL. 1	hyoscine hydrobromide			
Injection: 1 mg/mL, 5 mg/mL. Oral liquid: 2mg/mL. Solid oral dosage form: 7.5 mg; 15 mg. Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride). Oral liquid: 4 mg base/5 mL. Solid oral dosage form: Eq. 4 mg base; Eq. 8 mg base. □ ×1 month. Senna Oral liquid: 7.5 mg/5 mL. 3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS dexamethasone Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. Powder for injection: 100 mg (as sodium succinate) in vial. □ loratadine * □ loratadine * □ loratadine * □ loratadine * □ prednisolone □ prednisolone ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acety/cysteine oral liquid: 1 mg/mL. Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 1 mg/sulfate) in 1-mL ampoule. Oral liquid: 1 mg/sulfate) in 1-mL ampoule. Oral liquid: 1 mg/sulfate) in 1-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 1 mg (sulfate) in 1-mL ampoule. Oral liquid: 10%; 20%. Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	lactuloso	· ·		
midazolam Oral liquid: 2mg/mL. Solid oral dosage form: 7.5 mg; 15 mg. Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride). Oral liquid: 4 mg base/5 mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 1 month. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ 2 mg/mL. Injection: 1 mg/mL in 1-mL ampoule (as disodium phosphate salt). Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. Oral liquid: 1 mg/mL. Tablet: 10 mg. "There may be a role for sedating antihistamines for limited indications. □ prednisolone 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Injection: 500 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (bese) in 1.5-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (bese) in 1.5-mL ampoule.	lactulose	, , , , , , , , , , , , , , , , , , ,		
Solid oral dosage form: 7.5 mg; 15 mg. Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride). Oral liquid: 4 mg base/s mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base.	valdandlars			
Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride). Oral liquid: 4 mg base/5 mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ >1 monit. Senna Oral liquid: 7.5 mg/5 mL. 3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS dexamethasone Injection: 4 mg/mL in 1-mL ampoule (as disodium phosphate salt). epinephrine (adrenaline) Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. hydrocortisone Powder for injection: 100 mg (as sedium succinate) in vial. □ prednisolone 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. acetylcysteine Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesitate) in vial. Injection: 50 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	midazoiam			
Oral liquid: 4 mg base/5 mL. Solid oral dosage form: Eq 4 mg base; Eq 8 mg base. □ >1 month. senna Oral liquid: 7.5 mg/5 mL. 3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS dexamethasone Injection: 4 mg/mL in 1-mL ampoule (as disodium phosphate salt). depinephrine (adrenatine) Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. hydrocortisone Powder for injection: 100 mg (as sodium succinate) in vial. Oral liquid: 1 mg/mL. Tablet: 10 mg. "There may be a role for sedating antihistamines for limited indications. □ prednisolone Oral liquid: 5 mg/mL. Tablet: 5 mg; 25 mg. 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetyl/cysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. Injection: 500 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.				
Solid oral dosage form: Eq 4 mg base: Eq 8 mg base. a				
senna Oral liquid: 7.5 mg/5 mL. 3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS dexamethasone Injection: 4 mg/mL in 1-mL ampoule (as disodium phosphate salt), epinephrine (adrenaline) Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. hydrocortisone Powder for injection: 100 mg (as sodium succinate) in vial. Oral liquid: 1 mg/mL. Tablet: 10 mg. *There may be a role for sedating antihistamines for limited indications. Oral liquid: 5 mg/mL. Tablet: 5 mg; 25 mg. 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. Calcium gluconate Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. Injection: 5 mg/mL (sulfate) in 2-mL ampoule or 1 g/mL (base) in 1-mperizole in 1-mperizole. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1-mperizole.	□ ondansetron a			
Senna Oral liquid: 7.5 mg/5 mL. 3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS dexamethasone Injection: 4 mg/mL in 1-mL ampoule (as disodium phosphate sait). epinephrine (adrenaline) Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule. hydrocortisone Powder for injection: 100 mg (as sodium succinate) in vial. Oral liquid: 1 mg/mL. Tablet: 10 mg. "There may be a role for sedating antihistamines for limited indications. Oral liquid: 5 mg/mL. Tablet: 5 mg; 25 mg. 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. Injection: 5 mg/mL (sulfate) in 2-mL ampoule or 1 g/mL (base) in 1-mL ampoule. Injection: 5 mg/mL (sulfate) in 2-mL ampoule or 1 g/mL (base) in 1-mL ampoule. Injection: 5 mg/mL (sulfate) in 2-mL ampoule or 1 g/mL (base) in 1-mL ampoule. Injection: 5 mg/mL (sulfate) in 2-mL ampoule or 1 g/mL (base) in 1-mL ampoule.				
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Oral liquid: 1 mg/mL. Tablet: 10 mg. *There may be a role for sedating antihistamines for limited indications. Oral liquid: 5 mg/mL. Tablet: 5 mg: 25 mg. 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	epinephrine (adrenaline)			
□ loratadine * Tablet: 10 mg. *There may be a role for sedating antihistamines for limited indications. Oral liquid: 5 mg/mL. Tablet: 5 mg; 25 mg. 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	hydrocortisone	Powder for injection: 100 mg (as sodium succinate) in vial.		
*There may be a role for sedating antihistamines for limited indications. ☐ prednisolone ☐		Oral liquid: 1 mg/mL.		
*There may be a role for sedating antihistamines for limited indications. ☐ prednisolone A. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1-mL ampoule.	□ loratadine *	Tablet: 10 mg.		
### Tablet: 5 mg; 25 mg. 4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. #### Complementary List #### deferoxamine Powder for injection: 500 mg (mesilate) in vial. #### dimercaprol Injection: 5 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.				
4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS 4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection: 5 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	□ prednisolone	Oral liquid: 5 mg/mL.		
4.1 Non-specific charcoal, activated Powder. 4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.				
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4.2 Specific acetylcysteine Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. Injection: 1 mg (sulfate) in 1-mL ampoule. Calcium gluconate Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	4.1 Non-specific			
Injection: 200 mg/mL in 10-mL ampoule. Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	charcoal, activated	Powder.		
acetylcysteine Oral liquid: 10%; 20%. Injection: 1 mg (sulfate) in 1-mL ampoule. Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	4.2 Specific	1		
Oral liquid: 10%; 20%. atropine Injection: 1 mg (sulfate) in 1-mL ampoule. calcium gluconate Injection: 100 mg/mL in 10-mL ampoule. naloxone Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.		Injection: 200 mg/mL in 10-mL ampoule.		
calcium gluconate Injection: 100 mg/mL in 10-mL ampoule. Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	acetylcysteine	Oral liquid: 10%; 20%.		
naloxone Injection: 400 micrograms (hydrochloride) in 1-mL ampoule. Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	atropine	Injection: 1 mg (sulfate) in 1-mL ampoule.		
Complementary List deferoxamine Powder for injection: 500 mg (mesilate) in vial. dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	calcium gluconate	Injection: 100 mg/mL in 10-mL ampoule.		
deferoxamine Powder for injection: 500 mg (mesilate) in vial. Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	naloxone	Injection: 400 micrograms (hydrochloride) in 1-mL ampoule.		
dimercaprol Injection in oil: 50 mg/mL in 2-mL ampoule. Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	Complementary List			
Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.	deferoxamine	Powder for injection: 500 mg (mesilate) in vial.		
fomepizole in 1.5-mL ampoule.	dimercaprol	Injection in oil: 50 mg/mL in 2-mL ampoule.		
1.5-mL ampoule.		Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base)		
sodium calcium edetate Injection: 200 mg/mL in 5-mL ampoule.	fomepizole			
	sodium calcium edetate	Injection: 200 mg/mL in 5-mL ampoule.		

succimer	Solid oral dosage form: 100 mg.	
5. ANTICONVULSANTS/ANTIEPILEPTICS	3	
	Oral liquid: 100 mg/5 mL.	
carbamazepine	Tablet (chewable): 100 mg; 200 mg.	
	Tablet (scored): 100 mg; 200 mg.	
diazepam	Gel or rectal solution: 5 mg/mL in 0.5 mL; 2-mL; 4-mL tubes.	
	Tablet: 25 mg; 50 mg; 100 mg; 200 mg.	
lamotrigine*	Tablet (chewable, dispersible): 2 mg; 5 mg; 25 mg; 50 mg; 100 mg; 200 mg.	
	*as adjunctive therapy for treatment-resistant partial or generalized seizures.	
□ lorazepam	Parenteral formulation: 2 mg/mL in 1-mL ampoule; 4 mg/mL in 1-mL ampoule.	
	Solution for oromucosal administration: 5 mg/mL; 10 mg/mL	
and decorate on	Ampoule*: 1 mg/ mL; 10 mg/mL	
midazolam	*for buccal administration when solution for oromucosal administration is not available	
	Injection: 200 mg/mL (sodium).	
phenobarbital	Oral liquid: 15 mg/5 mL.	
	Tablet: 15 mg to 100 mg.	
	Injection: 50 mg/mL in 5-mL vial (sodium salt).	
	Oral liquid: 25 mg to 30 mg/5 mL.*	
	Solid oral dosage form: 25 mg; 50 mg; 100 mg (sodium salt).	
phenytoin	Tablet (chewable): 50 mg.	
	* The presence of both 25 mg/5 mL and 30 mg/5 mL strengths on the same market would cause confusion in prescribing and dispensing and should be avoided.	
	Oral liquid: 200 mg/5 mL.	
valproic acid (sodium valproate)	Tablet (crushable): 100 mg.	
	Tablet (enteric-coated): 200 mg; 500 mg (sodium valproate).	
Complementary List	·	
ethosuximide	Capsule: 250 mg.	
ethosuximide	Oral liquid: 250 mg/5 mL.	
valproic acid (sodium valproate)	Injection: 100 mg/ mL in 4- mL ampoule; 100 mg/ mL in 10- mL ampoule.	
6. ANTI-INFECTIVE MEDICINES		
6.1 Anthelminthics		
6.1.1 Intestinal anthelminthics		
albendazole	Tablet (chewable): 400 mg.	
ivermectin	Tablet (scored): 3 mg.	

levamisole	Tablet: 50 mg; 150 mg (as hydrochloride).	
mebendazole	Tablet (chewable): 100 mg; 500 mg.	
niclosamide	Tablet (chewable): 500 mg.	
praziquantel	Tablet: 150 mg; 600 mg.	
pyrantal	Oral liquid: 50 mg (as embonate or pamoate)/mL.	
pyrantel	Tablet (chewable): 250 mg (as embonate or pamoate).	
6.1.2 Antifilarials		
albendazole	Tablet (chewable): 400 mg.	
diethylcarbamazine	Tablet: 50 mg; 100 mg (dihydrogen citrate).	
ivermectin	Tablet (scored): 3 mg.	
6.1.3 Antischistosomals and other antitrematode medic	cines	
praziquantel	Tablet: 600 mg.	
triclabendazole	Tablet: 250 mg.	
Complementary List		
	Capsule: 250 mg.	
oxamniquine*	Oral liquid: 250 mg/5 mL.	
	* Oxamniquine is listed for use when praziquantel treatment fails.	

6.2 Antibacterials

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.

ACCESS GROUP ANTIBIOTICS

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.

WATCH GROUP ANTIBIOTICS

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 Medicine¹ 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.

¹ http://apps.who.int/iris/bitstream/10665/251715/1/9789241511469-eng.pdf?ua=1

RESERVE GROUP ANTIBIOTICS

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 List¹, 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.

¹ https://www.who.int/medicines/areas/rational_use/PPLreport_2017_09_19.pdf?ua=1

6.2.1 Access group antibiotics				
	Injection: 250 mg (as sulfate)/mL in 2- mL vial			
	FIRST CHOICE	SECOND CHOICE		
amikacin	- pyelonephritis (severe) - high-risk febrile neutropenia	- sepsis in neonates and children		
	Powder for oral liquid: 125 mg (as trihydra mL .	Powder for oral liquid: 125 mg (as trihydrate)/5 mL; 250 mg (as trihydrate)/5 mL .		
	Solid oral dosage form: 250 mg; 500 mg	(as trihydrate).		
	Powder for injection: 250 mg; 500 mg; 1	g (as sodium) in vial.		
	FIRST CHOICE	SECOND CHOICE		
amoxicillin	- community acquired pneumonia (mild to moderate) -community acquired pneumonia (severe) - complicated severe acute malnutrition - lower urinary tract infections - otitis media - pharyngitis - sepsis in neonates and children - sinusitis - uncomplicated severe acute malnutrition - progressive apical dental abscess	- acute bacterial meningitis		
	Oral liquid: 125 mg amoxicillin + 31.25 mg clavulanic acid/5 mL AND 250 mg amoxicillin + 62.5 mg clavulanic acid/5 mL. Tablet: 500 mg (as trihydrate) + 125 mg (as potassium salt). Powder for injection: 500 mg (as sodium) + 100 mg (as potassium salt); 1000 mg (as sodium) + 200 mg (as potassium salt) in vial.			
	FIRST CHOICE	SECOND CHOICE		
amoxicillin + clavulanic acid	 community acquired pneumonia (severe) complicated intraabdominal infections (mild to moderate) hospital acquired pneumonia low-risk febrile neutropenia lower urinary tract infections sinusitis skin and soft tissue infections 	 bone and joint infections community acquired pneumonia (mild to moderate) community acquired pneumonia (severe) otitis media surgical prophylaxis 		
	Powder for injection: 500 mg; 1 g (as sodium salt) in vial.			
ampicillin	FIRST CHOICE	SECOND CHOICE		
	community acquired pneumonia(severe)complicated severe acute malnutritionsepsis in neonates and children	- acute bacterial meningitis		

	Powder for injection: 900 mg benzylpenicillin (= 1.2 million IU) in 5- mL vial; 1.44 g benzylpenicillin (= 2.4 million IU) in 5- mL vial.		
benzathine benzylpenicillin	FIRST CHOICE	SECOND CHOICE	
	- syphilis (congenital)		
	Powder for injection: 600 mg (= 1 million IU); 3 g (= 5 million IU) (sodium or potassium salt) in vial.		
	FIRST CHOICE	SECOND CHOICE	
benzylpenicillin	 community acquired pneumonia (severe) complicated severe acute malnutrition sepsis in neonates and children syphilis (congenital) 	- acute bacterial meningitis	
	Powder for reconstitution with water: 125	mg/5 mL; 250 mg/5 mL (anhydrous).	
	Solid oral dosage form: 250 mg (as mono	hydrate).	
cefalexin	FIRST CHOICE	SECOND CHOICE	
		- pharyngitis - skin and soft tissue infections	
	Powder for injection: 1 g (as sodium salt) in vial.		
П	a >1 month.		
cefazolin a	FIRST CHOICE	SECOND CHOICE	
	- surgical prophylaxis	- bone and joint infections	
	Capsule: 250 mg.		
	Oily suspension for injection*: 0.5 g (as sodium succinate)/ mL in 2- mL ampoule.		
	* Only for the presumptive treatment of epidemic meningitis in children older than 2 years.		
chloramphenicol	Oral liquid: 150 mg (as palmitate)/5 mL.		
·	Powder for injection: 1 g (sodium succinate) in vial.		
	FIRST CHOICE	SECOND CHOICE	
		- acute bacterial meningitis	
	Capsule: 150 mg (as hydrochloride).		
	Injection: 150 mg (as phosphate)/ mL.		
clindamycin	Oral liquid: 75 mg/5 mL (as palmitate).		
	FIRST CHOICE	SECOND CHOICE	
		-bone and joint infections	
		,	

	Capsule: 500 mg; 1 g (as sodium salt).		
	Powder for injection: 500 mg (as sodium salt) in vial.		
	Powder for oral liquid: 125 mg (as sodium salt)/5 mL.		
□ cloxacillin*	*cloxacillin, dicloxacillin and flucloxacillin are preferred for oral administration due to better bioavailability.		
	FIRST CHOICE	SECOND CHOICE	
	- bone and joint infections - skin and soft tissue infections	- sepsis in neonates and children	
	Oral liquid: 25 mg/5 mL; 50 mg/5 mL (a	nhydrous) .	
	Solid oral dosage form: 50 mg; 100 mg (a	as hyclate).	
	Powder for injection: 100 mg in vial		
doxycycline a	a Use in children <8 years only for life-threatening in	nfections when no alternative exists.	
	FIRST CHOICE	SECOND CHOICE	
		- cholera - community acquired pneumonia (mild to moderate)	
	Injection: 10 mg; 40 mg (as sulfate)/ mL in 2- mL vial.		
	FIRST CHOICE	SECOND CHOICE	
gentamicin	community acquired pneumonia (severe)complicated severe acute malnutritionsepsis in neonates and children	- surgical prophylaxis	
	Injection: 500 mg in 100- mL vial.		
	Oral liquid: 200 mg (as benzoate)/5 mL.		
	Tablet: 200 mg to 500 mg.		
	FIRST CHOICE	SECOND CHOICE	
metronidazole	 C. difficile infection complicated intra-abdominal infections (mild to moderate) complicated intra-abdominal infections (severe) surgical prophylaxis 	- complicated intra-abdominal infections (mild to moderate)	
	Oral liquid: 25 mg/5 mL.		
nitrofurantoin	Tablet: 100 mg.		
TIILI OIUI ATILOITI	FIRST CHOICE	SECOND CHOICE	
	- lower urinary tract infections		
nhonovy mothy do anicilliza	Powder for oral liquid: 250 mg (as potassium salt)/5 mL.		
phenoxymethylpenicillin	Tablet: 250 mg (as potassium salt).		

	FIRST CHOICE	SECOND CHOICE	
	- community acquired pneumonia (mild to moderate) - pharyngitis		
	- progressive apical dental abscess		
	Powder for injection: 1 g (=1 million IU); 3	g (=3 million IU) in vial.	
procaine benzylpenicillin*	* Procaine benzylpenicillin is not recommended as first-line treatment for neonatal sepsis / sepsis except in settings with high neonatal mortality, when given by trained health workers in cases where hospital care is not achievable.		
	FIRST CHOICE	SECOND CHOICE	
	-syphilis (congenital)		
	Injection:		
	80 mg + 16 mg/ mL in 5- mL ampoule; 80 mg + 16 mg/ mL in 10- mL ampoule.		
	Oral liquid: 200 mg + 40 mg/5 mL.		
sulfamethoxazole + trimethoprim*	Tablet: 100 mg + 20 mg; 400 mg + 80 mg		
	*single agent trimethoprim may be an alternative for lower urinary tract infection.		
	FIRST CHOICE	SECOND CHOICE	
	- lower urinary tract infections	- acute invasive bacterial diarrhoea / dysentery	
6.2.2 Watch group antibiotics	<u> </u>	<u> </u>	
	Capsule: 250 mg; 500 mg (anhydrous).		
	Oral liquid: 200 mg/5 mL.		
azithromycin*	* also listed for single-dose treatment of trachoma and yaws.		
	FIRST CHOICE	SECOND CHOICE	
	- cholera - enteric fever	- acute invasive bacterial diarrhoea / dysentery	
	Capsules or tablets: 200 mg; 400 mg (as trihydrate)		
cefixime	Powder for oral liquid: 100 mg /5 mL		
	FIRST CHOICE	SECOND CHOICE	
		- acute invasive bacterial diarrhoea / dysentery	

Powder for injection: 250 mg per vial (as sodium salt)			
	* 3rd generation cephalosporin of choice for use in hospitalized neonates.		
	FIRST CHOICE	SECOND CHOICE	
cefotaxime*	 - acute bacterial meningitis - community acquired pneumonia (severe) - complicated intraabdominal infections (mild to moderate) - complicated intrabdominal infections (severe) - hospital acquired pneumonia - pyelonephritis (severe) 	 bone and joint infections pyelonephritis (mild to moderate) sepsis in neonates and children 	
	Powder for injection: 250 mg; 1 g (as sod	ium salt) in vial.	
	* Do not administer with calcium and avoi	d in infants with hyperbilirubinaemia.	
	a >41 weeks corrected gestational age.		
	FIRST CHOICE	SECOND CHOICE	
ceftriaxone* a	 - acute bacterial meningitis - community acquired pneumonia (severe) - complicated intraabdominal infections (mild to moderate) - complicated intraabdominal infections (severe) - hospital acquired pneumonia - pyelonephritis (severe) - enteric fever 	 - acute invasive bacterial diarrhoea / dysentery - bone and joint infections - pyelohepnritis or prostatitis (mild to moderate) - sepsis in neonates and children 	
	Powder for injection: 250 mg, 750 mg, 1.5 g (as sodium salt) in vial		
cefuroxime	FIRST CHOICE	SECOND CHOICE	
		- surgical prophylaxis	
	Oral liquid: 250 mg/5 mL (anhydrous) .		
	Solution for IV infusion: 2 mg/ mL (as hyclate) .		
	Tablet: 250 mg (as hydrochloride).		
ciprofloxacin	FIRST CHOICE	SECOND CHOICE	
	 acute invasive bacterial diarrhoea / dysentery low-risk febrile neutropenia pyelonephritis (mild to moderate) enteric fever 	- cholera - complicated intraabdominal infections (mild to moderate)	
	Solid oral dosage form: 500 mg.		
clarithromycin*	Powder for oral liquid: 125 mg/5 mL; 250 mg/5 mL		
	Powder for injection: 500 mg in vial		
	*erythromycin may be an alternative		

	FIRST CHOICE		SECOND CHOICE	
			- pharyngitis	
	Powder for inje	ection: 2 a (as sodium salt)	+ 250 mg (as sodium salt): 4 g (as	
	Powder for injection: 2 g (as sodium salt) + 250 mg (as sodium salt); 4 g (as sodium salt) + 500 mg (as sodium salt) in vial			
piperacillin + tazobactam	FIRST CHOICE		SECOND CHOICE	
	- complicated in (severe) -high-risk febril -hospital acquir			
vanaamvain	Capsule: 125	mg; 250 mg (as hydrochlor	ide).	
vancomycin			SECOND CHOICE	
			- C. difficile infection	
Complementary List				
ceftazidime	Powder for inje	ection: 250 mg or 1 g (as pe	entahydrate) in vial.	
	Powder for inje	ection: 500 mg (as trihydrat	e); 1 g (as trihydrate) in vial	
	a >3 months.	a >3 months.		
	*imipenem + cilastatin is an alternative except for acute bacterial meningitis where meropenen is preferred.			
meropenem* a	FIRST CHOICE		SECOND CHOICE	
			 - acute bacterial meningitis in neonates - complicated intraabdominal infections (severe) - high-risk febrile neutropenia 	
	Powder for injection: 250 mg (as hydrochloride) in vial.			
vancomycin	FIRST CHOICE		SECOND CHOICE	
vancomyciii			-high-risk febrile neutropenia	
6.2.3 Reserve group antibiotics				
Complementary List				
ceftazidime + avibactam		Powder for injection: 2 g + 0.5 g in vial		
colistin		Powder for injection: 1 million I.U. (as colistemethate sodium) in vial		
fosfomycin		Powder for injection: 2 g; 4 g (as sodium) in vial		
linozolid		Injection for intravenous administration: 2 mg/ mL in 300 mL bag.		
linezolid		Powder for oral liquid: 100 mg/5 mL.		
		Tablet: 400 mg; 600 mg.		
polymyxin B		Powder for injection: 500,000 I.U. in vial		

6.2.4 Antileprosy medicines

Medicines used in the treatment of leprosy should never be used except in combination. Combination therapy is essential to prevent the emergence of drug resistance. Colour-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.

clofazimine	Capsule: 50 mg; 100 mg.
dapsone	Tablet: 25 mg; 50 mg; 100 mg.
rifampicin	Solid oral dosage form: 150 mg; 300 mg.

6.2.5 Antituberculosis medicines

WHO recommends and endorses the use of fixed-dose combinations and the development of appropriate new fixed-dose combinations, including modified dosage forms, non-refrigerated products and paediatric dosage forms of assured pharmaceutical quality.

ethambutol	Oral liquid: 25 mg/mL.
	Tablet: 100 mg; 400 mg (hydrochloride).
	Tablet (dispersible): 100 mg
	Oral liquid: 50 mg/5 mL.
	Tablet: 100 mg to 300 mg.
isoniazid	Tablet (scored): 50 mg.
	Tablet (dispersible): 100 mg
isoniazid + pyrazinamide + rifampicin	Tablet (dispersible): 50 mg + 150 mg + 75 mg.
isoniazid + rifampicin	Tablet (dispersible): 50 mg + 75 mg.
	Oral liquid: 30 mg/mL.
pyrazinamide	Tablet: 400 mg.
	Tablet (dispersible): 150 mg.
	Tablet (scored): 150 mg.
rifampioin	Oral liquid: 20 mg/mL.
rifampicin	Solid oral dosage form: 150 mg; 300 mg.
rifapantina*	Tablet: 150 mg
rifapentine*	*For treatment of latent TB infection (LTBI) only
Complementary Liet	1

Complementary List

Medicines for the treatment of multidrug-resistant tuberculosis (MDR-TB) should be used in specialized centres adhering to WHO standards for TB control.

amikacin	Powder for injection: 100 mg; 500 mg; 1 g (as sulfate) in vial.
amoxicillin + clavulanic acid*	Oral liquid: 125 mg amoxicillin + 31.25 mg clavulanic acid/5 mL; 250 mg amoxicillin + 62.5 mg clavulanic acid/5 mL.
	Tablet: 500 mg (as trihydrate) + 125 mg (as potassium salt).
	*for use only in combination with meropenem
bedaquiline a	Tablet: 100 mg
	a ≥ 6 years
clofazimine	Solid oral dosage form: 50 mg; 100 mg

cycloserine	Solid oral dosage form: 125 mg; 250 mg
	Tablet: 50 mg
delamanid a	a≥6 years
	Tablet: 125 mg; 250 mg
ethionamide*	Tablet (dispersible): 125 mg
	*Protionamide may be used as an alternative.
love flower in	Tablet: 250 mg: 500 mg
levofloxacin	Tablet (dispersible): 100 mg
	Injection for intravenous administration: 2 mg/ mL in 300 mL bag
linezolid	Powder for oral liquid: 100 mg/5 mL
	Tablet: 400 mg; 600 mg
	Tablet (dispersible): 150 mg
meropenem	Powder for injection: 500 mg (as trihydrate); 1 g (as trihydrate) in vial
manyiffayya a in	Tablet: 400 mg
moxifloxacin	Tablet (dispersible): 100 mg
n aminosalicylic acid	Granules: 4 g in sachet.
p-aminosalicylic acid	Tablet: 500 mg.
streptomycin	Powder for injection: 1 g (as sulfate) in vial.
6.3 Antifungal medicines	
amphotericin B	Powder for injection: 50 mg in vial (as sodium deoxycholate or liposomal complex).
	Capsule: 50 mg.
fluconazole	Injection: 2 mg/mL in vial.
	Oral liquid: 50 mg/5 mL.
flucytosine	Capsule: 250 mg.
	Infusion: 2.5 g in 250 mL.
griseofulvin	Oral liquid: 125 mg/5 mL.
gilocolaiviii	Solid oral dosage form: 125 mg; 250 mg.
	Capsule: 100 mg.
	Oral liquid: 10 mg/mL.
itraconazole*	*For treatment of chronic pulmonary aspergillosis, acute invasive aspergillosis, histoplasmosis, sporotrichosis, paracoccidiodomycosis, mycoses caused by <i>T. marneffei</i> and chromoblastomycosis; and prophylaxis of histoplasmosis and infections caused by <i>T. marneffei</i> in AIDS patients.
	Lozenge: 100 000 IU.
nystatin	Oral liquid: 50 mg/5 mL; 100 000 IU/mL.
	Tablet: 100 000 IU; 500 000 IU.

voriconazole*	Tablet: 50 mg; 200 mg.	
	Powder for injection: 200 mg in vial.	
	Powder for oral liquid: 40 mg/mL.	
	* For treatment of chronic pulmonary aspergillosis and acute invasive aspergillosis.	
Complementary List		
potassium iodide	Saturated solution.	
6.4 Antiviral medicines		
6.4.1 Antiherpes medicines		
	Oral liquid: 200 mg/5 mL.	
aciclovir	Powder for injection: 250 mg (as sodium salt) in vial.	
	Tablet: 200 mg.	
6.4.2 Antiretrovirals		
Based on current evidence and experience of use, medicines in the following classes of antiretrovirals are included as essential medicines for treatment and prevention of HIV (prevention of mother-to-child transmission and post-exposure prophylaxis). WHO emphasizes the importance of using these products in accordance with global and national guidelines. WHO recommends and endorses the use of fixed-dose combinations and the development of appropriate new fixed-dose combinations, including modified dosage forms, non-refrigerated products and paediatric dosage forms of assured pharmaceutical quality.		
Scored tablets can be used in children and therefore that adequate quality products are available.	can be considered for inclusion in the listing of tablets, provided	
6.4.2.1 Nucleoside/Nucleotide reverse transcriptase ir	hibitors	
abacavir (ABC)	Tablet (dispersible, scored): 60 mg (as sulfate).	
lamiyudina (3TC)	Oral liquid: 50 mg/5 mL.	
lamivudine (3TC)		
lamivudine (310)	Tablet: 150 mg.	
zidovudine (ZDV or AZT)	Tablet: 150 mg. Oral liquid: 50 mg/5 mL.	
,	Oral liquid: 50 mg/5 mL.	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitori	Oral liquid: 50 mg/5 mL.	
zidovudine (ZDV or AZT)	Oral liquid: 50 mg/5 mL.	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitori	Oral liquid: 50 mg/5 mL. S Tablet: 200 mg (scored).	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitori	Oral liquid: 50 mg/5 mL. S Tablet: 200 mg (scored). a >3 years or >10 kg weight.	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitori efavirenz (EFV or EFZ) a	Oral liquid: 50 mg/5 mL. Tablet: 200 mg (scored). a >3 years or >10 kg weight. Oral liquid: 50 mg/5 mL.	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitori efavirenz (EFV or EFZ) a	Oral liquid: 50 mg/5 mL. Tablet: 200 mg (scored). a >3 years or >10 kg weight. Oral liquid: 50 mg/5 mL. Tablet: 50 mg (dispersible).	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitoris efavirenz (EFV or EFZ) a nevirapine (NVP)a 6.4.2.3 Protease inhibitors Selection of protease inhibitor(s) from the Model List vinternational and national treatment guidelines and ex	Oral liquid: 50 mg/5 mL. Tablet: 200 mg (scored). a >3 years or >10 kg weight. Oral liquid: 50 mg/5 mL. Tablet: 50 mg (dispersible).	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitors efavirenz (EFV or EFZ) a nevirapine (NVP)a 6.4.2.3 Protease inhibitors Selection of protease inhibitor(s) from the Model List vinternational and national treatment guidelines and expharmacological booster, and not as an antiretroviral boosted forms (e.g. with ritonavir).	Oral liquid: 50 mg/5 mL. Tablet: 200 mg (scored). a >3 years or >10 kg weight. Oral liquid: 50 mg/5 mL. Tablet: 50 mg (dispersible). a > 6 weeks vill need to be determined by each country after consideration of perience. Ritonavir is recommended for use in combination as a	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitorial efavirenz (EFV or EFZ) a nevirapine (NVP) a 6.4.2.3 Protease inhibitors Selection of protease inhibitor(s) from the Model List vinternational and national treatment guidelines and expharmacological booster, and not as an antiretroviral	Oral liquid: 50 mg/5 mL. Tablet: 200 mg (scored). a >3 years or >10 kg weight. Oral liquid: 50 mg/5 mL. Tablet: 50 mg (dispersible). a > 6 weeks vill need to be determined by each country after consideration of perience. Ritonavir is recommended for use in combination as a in its own right. All other protease inhibitors should be used in	
zidovudine (ZDV or AZT) 6.4.2.2 Non-nucleoside reverse transcriptase inhibitors efavirenz (EFV or EFZ) a nevirapine (NVP)a 6.4.2.3 Protease inhibitors Selection of protease inhibitor(s) from the Model List vinternational and national treatment guidelines and expharmacological booster, and not as an antiretroviral boosted forms (e.g. with ritonavir).	Oral liquid: 50 mg/5 mL. Tablet: 200 mg (scored). a >3 years or >10 kg weight. Oral liquid: 50 mg/5 mL. Tablet: 50 mg (dispersible). a > 6 weeks vill need to be determined by each country after consideration of perience. Ritonavir is recommended for use in combination as a in its own right. All other protease inhibitors should be used in Solid oral dosage form: 100 mg; (as sulfate).	

	Oral liquid: 400 mg + 100 mg/5 mL.
lopinavir + ritonavir (LPV/r) ritonavir	Tablet (heat stable): 100 mg + 25 mg-
	Solid oral dosage form: 40 mg + 10 mg
	3 3
	Oral liquid: 400 mg/5 mL.
	Tablet (heat stable): 25 mg; 100 mg.
	Oral powder: 100 mg in sachet
6.4.2.4 Integrase inhibitors	
dolutegravir a	Tablet: 50 mg
	a ≥ 25 kg
	Tablet (chewable): 25 mg; 100 mg.
	Tablet: 400 mg.
raltegravir*	Granules for oral suspension: 100 mg in sachet
	*for use in second-line regimens in accordance with WHO treatment guidelines
FIXED-DOSE COMBINATIONS	
abacavir + lamivudine	Tablet (dispersible, scored): 120 mg (as sulfate) + 60 mg.
lamivudine + nevirapine + zidovudine	Tablet: 30 mg + 50 mg + 60 mg.
lamivudine + zidovudine	Tablet: 30 mg + 60 mg.
6.4.2.5 Medicines for prevention of HIV-related opp	portunistic infections
isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Tablet (scored): 300 mg + 25 mg + 800 mg + 160 mg
6.4.3 Other antivirals	
	Injection for intravenous administration: 800 mg and 1 g in 10-mL phosphate buffer solution.
ribavirin*	Solid oral dosage form: 200 mg; 400 mg; 600 mg.
	* For the treatment of viral haemorrhagic fevers only.
Complementary List	<u> </u>
	Capsule: 30 mg; 45 mg; 75 mg (as phosphate).
oseltamivir*	Oral powder: 12 mg/ mL.
Oscilalilivii	* Severe illness due to confirmed or suspected influenza virus infection in critically ill hospitalized patients
	Powder for oral solution: 50 mg/mL
valganciclovir*	Tablet: 450 mg.
	*For the treatment of cytomegalovirus retinitis (CMVr).
6.4.4 Antihepatitis medicines	<u> </u>
6.4.4.1 Medicines for hepatitis B	
6.4.4.1.1 Nucleoside/Nucleotide reverse transcript	tase inhibitors
<u>'</u>	

entecavir	Oral liquid: 0.05 mg/ mL	
	Tablet: 0.5 mg; 1 mg	
6.4.4.2 Medicines for hepatitis C		
6.5 Antiprotozoal medicines		
6.5.1 Antiamoebic and antigiardiasis medicines		
diloxanide a	Tablet: 500 mg (furoate).	
ulloxariide a	a >25 kg.	
	Injection: 500 mg in 100-mL vial.	
□ metronidazole	Oral liquid: 200 mg (as benzoate)/5 mL.	
	Tablet: 200 mg to 500 mg.	
6.5.2 Antileishmaniasis medicines		
amphotericin B	Powder for injection: 50 mg in vial.	
	As sodium deoxycholate or liposomal complex.	
miltefosine	Solid oral dosage form: 10 mg; 50 mg.	
paromomycin	Solution for intramuscular injection: 750 mg of paromomycin base (as the sulfate).	
sodium stibogluconate or meglumine antimoniate	Injection: 100 mg/mL, 1 vial = 30 mL or 30%, equivalent to approximately 8.1% antimony (pentavalent) in 5-mL ampoule.	
6.5.3 Antimalarial medicines		
6.5.3.1 For curative treatment		
Medicines for the treatment of <i>P. falciparum</i> malaria cases should be used in combination. The list currently recommends combinations according to treatment guidelines. WHO recognizes that not all of the fixed dose combinations (FDCs in the WHO treatment guidelines exist, and encourages their development and rigorous testing. WHO also encourages development and testing of rectal dosage formulations.		
amadiaquina*	Tablet: 153 mg or 200 mg (as hydrochloride).	
amodiaquine*	* To be used in combination with artesunate 50 mg.	
artemether*	Oily injection: 80 mg/mL in 1-mL ampoule.	
artemetre	* For use in the management of severe malaria.	
	Tablet: 20 mg + 120 mg.	
artemether + lumefantrine*	Tablet (dispersible): 20 mg + 120 mg.	
	* Not recommended in the first trimester of pregnancy or in children below 5 kg.	
	Injection: ampoules, containing 60 mg anhydrous artesunic acid with a separate ampoule of 5% sodium bicarbonate solution.	
	For use in the management of severe malaria.	
artesunate*	Rectal dosage form: 50 mg; 100 mg; 200 mg capsules (for pre-referral treatment of severe malaria only; patients should be taken to an appropriate health facility for follow-up care).	
	Tablet: 50 mg.	
	* To be used in combination with either amodiaquine, mefloquine or sulfadoxine + pyrimethamine.	

artesunate + amodiaquine *	Tablet: 25 mg + 67.5 mg; 50 mg + 135 mg; 100 mg + 270 mg.
	* Other combinations that deliver the target doses required such as 153 mg or 200 mg (as hydrochloride) with 50 mg artesunate can be alternatives.
artesunate + mefloquine	Tablet: 25 mg + 55 mg; 100 mg + 220 mg.
·	Tablet: 60 mg + 180 mg
artesunate + pyronaridine tetraphosphate a	Granules: 20 mg + 60 mg
	a > 5 kg
	Oral liquid: 50 mg (as phosphate or sulfate)/5 mL.
chloroquine*	Tablet: 100 mg; 150 mg (as phosphate or sulfate).
	* For use only for the treatment of <i>P.vivax</i> infection.
dihydroartemisinin + piperaquine phosphate	Tablet: 20 mg + 160 mg; 40 mg + 320 mg
a	a > 5 kg
<u> </u>	Capsule: 100 mg (as hydrochloride or hyclate).
doxycycline*	Tablet (dispersible): 100 mg (as monohydrate).
	* For use only in combination with quinine.
	Tablet: 250 mg (as hydrochloride).
mefloquine*	* To be used in combination with artesunate 50 mg.
	Tablet: 7.5 mg; 15 mg (as diphosphate).
primaquine*	* Only for use to achieve radical cure of <i>P.vivax</i> and <i>P.ovale</i> infections, given for 14 days.
	Injection: 300 mg quinine hydrochloride/mL in 2-mL ampoule.
quinine*	Tablet: 300 mg (quinine sulfate) or 300 mg (quinine bisulfate).
- qanime	* For use only in the management of severe malaria, and should be used in combination with doxycycline.
sulfadoxine + pyrimethamine*	Tablet: 500 mg + 25 mg.
Sunadoxine i pyrimethamine	* Only in combination with artesunate 50 mg.
6.5.3.2 For chemoprevention	
	Co-packaged dispersible tablets:
amodiaquine – sulfadoxine + pyrimethamine	amodiaquine 76.5 mg (as hydrochloride [3] and sulfadoxine + pyrimethamine 250 mg + 12.5 mg [1];
	amodiaquine 153 mg (as hydrochloride) [3] and sulfadoxine + pyrimethamine 500 mg + 25 mg [1];
chloroquine*	Oral liquid: 50 mg (as phosphate or sulfate)/5 mL.
	Tablet: 150 mg (as phosphate or sulfate).
	* For use only for the treatment of <i>P.vivax</i> infection.
doxycycline a	Solid oral dosage form: 100 mg (as hydrochloride or hyclate).
иолусусние и	a >8 years.
moflequine n	Tablet: 250 mg (as hydrochloride).
mefloquine a	a >5 kg or >3 months.

	Tablet: 100 mg (as hydrochloride).
proguanil*	* For use only in combination with chloroquine.
aulfodovino Lavrino athermine	Tablet: 250 mg + 12.5 mg.
sulfadoxine + pyrimethamine	
6.5.4 Antipneumocystosis and antitoxoplasmosis	
pyrimethamine	Tablet: 25 mg.
sulfadiazine	Tablet: 500 mg.
	Injection:
sulfamethoxazole + trimethoprim	80 mg + 16 mg/mL in 5-mL ampoule; 80 mg + 16 mg/mL in 10-mL ampoule.
	Oral liquid: 200 mg + 40 mg/5 mL.
	Tablet: 100 mg + 20 mg; 400 mg + 80 mg.
6.5.5 Antitrypanosomal medicines	
6.5.5.1 African trypanosomiasis	
fexinidazole*	Tablet: 600 mg * For the treatment of 1 st and 2 nd stage of human African trypanosomiasis due to <i>Trypanosoma brucei gambiense</i> infection.
Medicines for the treatment of 1st stage African to	rypanosomiasis.
	Powder for injection: 200 mg (as isetionate) in vial.
pentamidine*	* To be used for the treatment of <i>Trypanosoma brucei</i> gambiense infection.
	Powder for injection: 1 g in vial.
suramin sodium*	* To be used for the treatment of the initial phase of <i>Trypanosoma brucei rhodesiense</i> infection.
Medicines for the treatment of 2 nd stage African t	rypanosomiasis
	Injection: 200 mg (hydrochloride)/mL in 100-mL bottle.
eflornithine*	* To be used for the treatment of <i>Trypanosoma brucei</i> gambiense infection.
	Tablet: 120 mg.
nifurtimox*	* Only to be used in combination with eflornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection.
Complementary List	
melarsoprol	Injection: 3.6% solution in 5-mL ampoule (180 mg of active compound).
6.5.5.2 American trypanosomiasis	<u> </u>
benznidazole	Tablet: 12.5 mg; 100 mg.
Del IZI IIUAZUIE	Tablet (scored): 50 mg.
nifurtimox	Tablet: 30 mg; 120 mg; 250 mg.
6.6 Medicines for ectoparasitic infections	
o.o Medicines for ectoparasitic infections	

7. ANTIMIGRAINE MEDICINES	
7.1 For treatment of acute attack	
ibuprofen	Tablet: 200 mg; 400 mg.
paracetamol	Oral liquid: 120 mg/5 mL; 125 mg/5 mL.
	Tablet: 300 mg to 500 mg.
7.2 For prophylaxis	1
propranolol	Tablet: 20 mg; 40 mg (hydrochloride).
8. IMMUNOMODULATORS AND ANTIN	IEOPLASTICS
8.1 Immunomodulators for non-malignant dis	sease
Complementary List	
	Injection: 40 mg/0.8 mL; 40 mg/0.4 mL
□ adalimumab*	* etanercept and infliximab are alternatives, including quality-assured biosimilars.
azathionrina	Powder for injection: 100 mg (as sodium salt) in vial.
azathioprine	Tablet (scored): 50 mg.
	Capsule: 25 mg.
ciclosporin	Concentrate for injection: 50 mg/mL in 1-mL ampoule for organ transplantation.
8.2 Antineoplastic and supportive medicines	
Medicines listed below should be used according	rding to protocols for treatment of the diseases.
8.2.1 Cytotoxic medicines	
Complementary List	
arsenic trioxide	Concentrate for solution for infusion: 1 mg/mL
arseriic trioxide	 Acute promyelocytic leukaemia
asparaginase	Powder for injection: 10 000 IU in vial.
asparaginase	 Acute lymphoblastic leukaemia.
bleomycin	Powder for injection: 15 mg (as sulfate) in vial.
	 Hodgkin lymphoma Testicular germ cell tumours Ovarian germ cell tumours Kaposi sarcoma
	Injection: 3 mg/ mL in 10- mL ampoule.
calcium folinate	Tablet: 5 mg; 15 mg; 25 mg.
	OsteosarcomaBurkitt lymphoma
carboplatin	Injection: 50 mg/5 mL; 150 mg/15 mL; 450 mg/45 mL; 600 mg/60 mL.
Сагиоріані і	OsteosarcomaRetinoblastoma

	Injection: 50 mg/50 ml : 100 mg/100 ml
cisplatin	Injection: 50 mg/50 mL; 100 mg/100 mL.
	- Osteosarcoma
	Testicular germ cell tumoursOvarian germ cell tumours
	– Ovanan germ cen tumours– Nasopharyngeal cancer
	, , ,
	Powder for injection: 500 mg in vial.
	Tablet: 25 mg; 50 mg.
	Rhabdomyosarcoma
cyclophosphamide	– Ewing sarcoma
	- Acute lymphoblastic leukaemia
	- Burkitt lymphoma
	Hodgkin lymphomaDiffuse large B-cell lymphoma
	Powder for injection: 100 mg in vial.
outorahina	– Acute lymphoblastic leukaemia
cytarabine	- Burkitt lymphoma.
	Acute myeloid leukaemia
	 Acute promyelocytic leukaemia.
dacarbazine	Powder for injection: 100 mg in vial.
	– Hodgkin lymphoma
	Powder for injection: 500 micrograms in vial.
dactinomycin	– Rhabdomyosarcoma
	Nephroblastoma (Wilms tumour)
	Powder for injection: 50 mg (hydrochloride) in vial.
daunorubicin	
dadriorabion	Acute lymphoblastic leukaemiaAcute promyelocytic leukaemia.
	, , ,
	Powder for injection: 10 mg; 50 mg (hydrochloride) in vial.
	– Osteosarcoma
	- Ewing sarcoma
doxorubicin	- Acute lymphoblastic leukaemia
Soloi doloii	- Nephroblastoma (Wilms tumour)
	Burkitt lymphomaHodgkin lymphoma
	– поадкін іутірпота – Diffuse large B-cell lymphoma
	– Bilidse large B-cell lymphoma – Kaposi sarcoma
	Capsule: 50 mg; 100 mg.
	Injection: 20 mg/ mL in 5- mL ampoule.
	– Retinoblastoma
, .,	– Neuriobiastoria – Ewing sarcoma
etoposide	– Lwing sarcoma– Acute lymphoblastic leukaemia
	- Burkitt lymphoma
	– Hodgkin lymphoma
	 Testicular germ cell tumours
	Ovarian germ cell tumours
	<u> </u>

	Injection: 50 mg/ mL in 5- mL ampoule.
fluorouracil	– Nasopharyngeal cancer
	 Metastatic colorectal cancer
	– Early stage colon cancer
	 Early stage rectal cancer
	Solid oral dosage form: 200 mg; 250 mg; 300 mg; 400 mg;
hydroxycarbamide	500 mg; 1 g.
	 – Chronic myeloid leukaemia.
	Powder for injection: 500 mg vial 1-g vial; 2-g vial.
	– Osteosarcoma
ifosfamide	Rhabdomyosarcoma
	– Ewing sarcoma
	Testicular germ cell tumours
	 Ovarian germ cell tumours
irinotecan	Injection: 40 mg/2 mL in 2- mL vial; 100 mg/5 mL in 5- mL vial; 500 mg/25 mL in 25- mL vial.
	- Metastatic colorectal cancer.
	Tablet: 50 mg.
mercaptopurine	Acuta lumphoblactic laukaamia
	Acute lymphoblastic leukaemiaAcute promyelocytic leukaemia.
	· · · ·
	Powder for injection: 50 mg (as sodium salt) in vial.
	Tablet: 2.5 mg (as sodium salt).
methotrexate	– Osteosarcoma
	– Acute lymphoblastic leukaemia
	 Acute promyelocytic leukaemia.
	Injection: 50 mg/10 mL in 10- mL vial; 100 mg/20 mL in 20-
	mL vial; 200 mg/40 mL in 40- mL vial.
oxaliplatin	Powder for injection: 50 mg, 100 mg in vial.
	– Early stage colon cancer
	 Metastatic colorectal cancer
paclitaxel	Powder for injection: 6 mg/ mL.
F	 Ovarian germ cell tumours
	Injection: 3,750 units/5 mL in vial
pegaspargase*	 Acute lymphoblastic leukaemia.
	* including quality-assured biosimilars
	Capsule: 50 mg (as hydrochloride).
procarbazine	– Hodgkin lymphoma
roolaar Indica naturalia farmulatian	Tablet: 270 mg (containing tetra-arsenic tetra-sulfide 30 mg)
realgar-Indigo naturalis formulation	Acute promyelocytic leukaemia
	Solid oral dosage form: 40 mg.
tioguanine	 Acute lymphoblastic leukaemia.
	, ,

	Powder for injection: 10 mg (sulfate) in vial.
vinblastine	 Testicular germ cell tumours
	– Ovarian germ cell tumours– Hodgkin lymphoma
	<u> </u>
	Powder for injection: 1 mg; 5 mg (sulfate) in vial.
	– Retinoblastoma
	- Rhabdomyosarcoma
vincristine	– Ewing sarcoma– Acute lymphoblastic leukaemia
VIIICHSUITE	- Nephroblastoma (Wilms tumour)
	Burkitt lymphoma.
	- Hodgkin lymphoma
	– Diffuse large B-cell lymphoma– Kaposi sarcoma
8.2.2 Targeted therapies	· · · · · · · · · · · · · · · · · · ·
Complementary List	
	Capsule: 10 mg.
all-trans retinoid acid (ATRA)	
	- Acute promyelocytic leukaemia.
dasatinib	Tablet: 20 mg; 50 mg; 70 mg; 80 mg; 100 mg; 140 mg.
	– Imatinib-resistant chronic myeloid leukaemia
	Tablet: 100 mg; 400 mg.
imatinib	- Chronic myeloid leukaemia
	 Gastrointestinal stromal tumour
nilotinib	Capsule: 150 mg; 200 mg.
	 Imatinib-resistant chronic myeloid leukaemia
	Injection (intravenous): 100 mg/10 mL in 10- mL vial; 500
rituximab*	mg/50 mL in 50- mL vial.
	 Diffuse large B-cell lymphoma
	* including quality-assured biosimilars
8.2.3 Immunomodulators	
Complementary List	
	Injection: 120 micrograms/0.2 mL; 300 micrograms/0.5 mL;
	480 micrograms/0.8 mL in pre-filled syringe 300 micrograms/mL in 1- mL vial, 480 micrograms/1.6 mL in 1.6-
	mL vial.
filgrastim	
	 Primary prophylaxis in patients at high risk for developing febrile neutropenia associated with
	myelotoxic chemotherapy.
	 Secondary prophylaxis for patients who have
	experienced neutropenia following prior myelotoxic
	chemotherapy – To facilitate administration of dose dense
	chemotherapy regimens
8.2.4 Hormones and antihormones	<u> </u>
Complementary List	

dexamethasone Consideration Consideration		Injection: 4 mg/ mL in 1- mL ampoule (as disodium phosphate
Tablet: 2 mg; 4 mg.	dexamethasone	salt).
- Acute lymphoblastic leukaemia Powder for injection: 100 mg (as sodium succinate) in vial Acute lymphoblastic leukaemia. Injection: 40 mg/ mL (as sodium succinate) in 1-mL single-dose vial and 5-mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1-mL single-dose vial and 5-mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1-mL single-dose vial Acute lymphoblastic leukaemia. Oral liquid: 5 mg/ mL Tablet: 5 mg; 25 mg Acute lymphoblastic leukaemia - Burkitt lymphoma - Hodgkin lymphoma - Hodgkin lymphoma - Hodgkin lymphoma - Diffuse large B-cell lymphoma 8.2.5 Supportive medicines Complementary List Tablet: 100 mg; 300 mg Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg Osteosarcoma - Rhabdormyosarcoma - Ewing sarcoma Testicular germ cell tumours - Ovarian germ cell tumours - Ovarian germ cell tumours 9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines Ferrous salt ferrous salt folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		Oral liquid: 2 mg/5 mL
Powder for injection: 100 mg (as sodium succinate) in vial. Acute lymphoblastic leukaemia. Injection: 40 mg/ mL (as sodium succinate) in 1- mL single-dose vial and 5- mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1- mL single-dose vial. — Acute lymphoblastic leukaemia. Oral liquid: 5 mg/ mL Tablet: 5 mg; 25 mg. — Acute lymphoblastic leukaemia — Burkitt lymphoma — Burkitt lymphoma — Diffuse large B-cell lymphoma — Diffuse large B-cell lymphoma 8.2.5 Supportive medicines Complementary List allopurinol Tablet: 100 mg; 300 mg. — Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg. — Osteosarcoma — Rhabdornyosarcoma — Eving sarcoma. — Eving sarcoma. — Testicular germ cell tumours — Ovarian germ cell tumours 9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines Ferrous salt folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		Tablet: 2 mg; 4 mg.
### Acute lymphoblastic leukaemia. #### Injection: 40 mg/ mL (as sodium succinate) in 1- mL singledose vial and 5- mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1- mL single-dose vial. #### Acute lymphoblastic leukamia. Oral liquid: 5 mg/ mL		– Acute lymphoblastic leukaemia
### Acute lymphoblastic leukaemia. ### Injection: 40 mg/ mL (as sodium succinate) in 1- mL single-dose vial and 5- mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1- mL single-dose vial. ### Acute lymphoblastic leukaemia. Oral liquid: 5 mg/ mL Tablet: 5 mg; 25 mg.	hydrocartisana	Powder for injection: 100 mg (as sodium succinate) in vial.
dose vial and 5-mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1-mL single-dose vial. - Acute lymphoblastic leukamia. Oral liquid: 5 mg/ mL Tablet: 5 mg; 25 mg. - Acute lymphoblastic leukaemia - Burkitt lymphoma - Burkitt lymphoma - Diffuse large B-cell lymphoma - Tablet: 100 mg; 300 mg Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma - Testicular germ cell tumours - Ovarian germ cell tumours - Ovarian germ cell tumours 9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	Hydrocortisone	– Acute lymphoblastic leukaemia.
Oral liquid: 5 mg/ mL Tablet: 5 mg: 25 mg. - Acute lymphoblastic leukaemia - Burkitt lymphoma - Hodgkin lymphoma - Diffuse large B-cell lymphoma 8.2.5 Supportive medicines Complementary List allopurinol Tablet: 100 mg: 300 mg Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg: 600 mg Osteosarcoma - Ewing sarcoma - Ewing sarcoma - Ewing sarcoma - Ewing sarcoma - Testicular germ cell tumours - Ovarian germ cell tumours - Ovarian germ cell tumours - Ovarian germ cell tumours - Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg: 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	methylprednisolone	dose vial and 5- mL multi-dose vials; 80 mg/ mL (as sodium
Tablet: 5 mg; 25 mg. - Acute lymphoblastic leukaemia - Burkitt lymphoma - Hodgkin lymphoma - Hodgkin lymphoma - Diffuse large B-cell lymphoma 8.2.5 Supportive medicines Complementary List Tablet: 100 mg; 300 mg Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma Testicular germ cell tumours - Ovarian germ cell tumours 9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		 Acute lymphoblastic leukamia.
- Acute lymphoblastic leukaemia - Burkit lymphoma - Hodgkin lymphoma - Diffuse large B-cell lymphoma 8.2.5 Supportive medicines Complementary List allopurinol Tablet: 100 mg; 300 mg Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma Testicular germ cell tumours - Ovarian germ cell tumours 9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		Oral liquid: 5 mg/ mL
Burkit lymphoma - Hodgkin lymphoma - Diffuse large B-cell lymphoma - Tumour lysis syndrome - T		Tablet: 5 mg; 25 mg.
Tablet: 100 mg; 300 mg. - Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg. - Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma Testicular germ cell tumours - Ovarian germ cell tumours 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	□ prednisolone	Burkitt lymphomaHodgkin lymphoma
allopurinol Tablet: 100 mg; 300 mg. - Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg. - Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma Testicular germ cell tumours - Ovarian germ cell tumours 9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. hydroxocobalamin Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	8.2.5 Supportive medicines	
### allopurinol ### Tumour lysis syndrome Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg. Osteosarcoma	Complementary List	
Injection: 100 mg/ mL in 4- mL and 10- mL ampoules. Tablet: 400 mg; 600 mg. Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma - Ewing sarcoma - Testicular germ cell tumours - Ovarian germ cell tumours 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid hydroxocobalamin Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	allopurinol	Tablet: 100 mg; 300 mg.
Tablet: 400 mg; 600 mg. Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma Testicular germ cell tumours - Ovarian germ cell tumours - Ovarian germ cell tumours 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	апоритног	– Tumour lysis syndrome
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9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid hydroxocobalamin Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	meena	Rhabdomyosarcoma
9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		
9. ANTIPARKINSONISM MEDICINES 10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		
10. MEDICINES AFFECTING THE BLOOD 10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		- Ovarian germ cen tumours
10.1 Antianaemia medicines ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		
ferrous salt Oral liquid: equivalent to 25 mg iron (as sulfate)/mL. Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		
ferrous salt Tablet: equivalent to 60 mg iron. folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	10.1 Antianaemia medicines	
folic acid Tablet: 1 mg; 5 mg. Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.	ferrous salt	
hydroxocobalamin Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.		<u> </u>
nydroxocobalamin 1-mL ampoule.	folic acid	
Complementary List	hydroxocobalamin	
	Complementary List	

	Injection: pre-filled syringe
□ erythropoiesis-stimulating agents*	1000IU/ 0.5 mL; 2000IU/ 0.5 mL; 3000IU/ 0.3 mL; 4000IU/ 0.4 mL; 5000IU/ 0.5 mL; 6000IU/ 0.6 mL; 8000IU/ 0.8mL; 10 000IU/ 1 mL; 20 000IU/ 0.5 mL; 40 000IU/ 1 mL
	* the square box applies to epoetin alfa, beta and theta, darbepoetin alfa, and their respective biosimilars
10.2 Medicines affecting coagulation	
	Injection: ampoule or pre-filled syringe
□ enoxaparin*	20 mg/0.2 mL; 40 mg/0.4 mL; 60 mg/0.6 mL; 80 mg/0.8 mL; 100 mg/1 mL; 120 mg/0.8 mL; 150 mg/1 mL
	*Alternatives are limited to nadroparin and dalteparin
phytomenadione	Injection: 1 mg/mL; 10 mg/mL in ampoule.
priytomenatione	Tablet: 10 mg.
Complementary List	
dosmonrossin	Injection: 4 micrograms/ mL (as acetate) in 1- mL ampoule.
desmopressin	Nasal spray: 10 micrograms (as acetate) per dose
heparin sodium	Injection: 1000 IU/mL; 5000 IU/mL in 1-mL ampoule.
protamine sulfate	Injection: 10 mg/mL in 5-mL ampoule.
□ warfarin	Tablet: 0.5 mg; 1 mg; 2 mg; 5 mg (sodium salt).

10.3 Other medicines for haemoglobinopathies	
Complementary list	
deferoxamine*	Powder for injection: 500 mg (mesilate) in vial. * Deferasirox oral form may be an alternative, depending on cost and availability.
hydroxycarbamide	Solid oral dosage form: 200 mg; 500 mg; 1 g.
11. BLOOD PRODUCTS OF HUMAN ORIGIN ANI	D PLASMA SUBSTITUTES
11.1 Blood and blood components	
unless special circumstances preclude it, in the supply	ipply are important national goals to prevent blood shortages
fresh-frozen plasma	
platelets	
red blood cells	
whole blood	
11.2 Plasma-derived medicines	
All human plasma-derived medicines should comply with	h the WHO requirements.
11.2.1 Human immunoglobulins	
anti-rabies immunoglobulin	Injection: 150 IU/ mL in vial.
anti-tetanus immunoglobulin	Injection: 500 IU in vial.
Complementary List	
	Intramuscular administration: 16% protein solution.*
	Intravenous administration: 5%; 10% protein solution.**
normal immunoglobulin	Subcutaneous administration: 15%; 16% protein solution.*
	* Indicated for primary immune deficiency. **Indicated for primary immune deficiency and Kawasaki disease.
11.2.2 Blood coagulation factors	
Complementary List	
□ coagulation factor VIII	Powder for injection: 500 IU/vial.
□ coagulation factor IX	Powder for injection: 500 IU/vial 1000 IU/vial

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11.3 Plasma substitutes	
□ dextran 70*	Injectable solution: 6%.
	* Polygeline, injectable solution, 3.5% is considered as equivalent.
12. CARDIOVASCULAR MEDICINES	
12.1 Antianginal medicines	
12.2 Antiarrhythmic medicines	
12.3 Antihypertensive medicines	
□ enalapril	Tablet: 2.5 mg; 5 mg (as hydrogen maleate).
12.4 Medicines used in heart failure	
	Injection: 250 micrograms/mL in 2-mL ampoule.
digoxin	Oral liquid: 50 micrograms/mL.
	Tablet: 62.5 micrograms; 250 micrograms.
	Injection: 10 mg/mL in 2-mL ampoule.
furosemide	Oral liquid: 20 mg/5 mL.
	Tablet: 40 mg.
Complementary List	
dopamine	Injection: 40 mg (hydrochloride) in 5-mL vial.
12.5 Antithrombotic medicines	
12.6 Lipid-lowering agents	
13. DERMATOLOGICAL MEDICINES (topical)	
13.1 Antifungal medicines	
□ miconazole	Cream or ointment: 2% (nitrate).
terbinafine	Cream: 1% or Ointment: 1% terbinafine hydrochloride.
13.2 Anti-infective medicines	
	Cream (as mupirocin calcium): 2%.
mupirocin	Ointment: 2%.
potassium permanganate	Aqueous solution: 1:10 000.
aily on a villa diamina	Cream: 1%.
silver sulfadiazine a	a >2 months.
13.3 Anti-inflammatory and antipruritic medicines	
	Cream or ointment: 0.1% (as valerate).
□ betamethasone a	a Hydrocortisone preferred in neonates.
calamine	Lotion.
hydrocortisone	Cream or ointment: 1% (acetate).
13.4 Medicines affecting skin differentiation and proliferation	
benzoyl peroxide	Cream or lotion: 5%.

coal tar	Solution: 5%.	
□ podophyllum resin	Solution: 10% to 25%.	
salicylic acid	Solution: 5%.	
urea	Cream or ointment: 5%; 10%.	
13.5 Scabicides and pediculicides	I	
	Lotion: 25%.	
□ benzyl benzoate a	a >2 years.	
permethrin	Cream: 5%.	
permeanin	Lotion: 1%.	
14. DIAGNOSTIC AGENTS		
14.1 Ophthalmic medicines		
fluorescein	Eye drops: 1% (sodium salt).	
□ tropicamide	Eye drops: 0.5%.	
14.2 Radiocontrast media		
Complementary List		
barium sulfate	Aqueous suspension.	
15. DISINFECTANTS AND ANTISEPTICS		
15.1 Antiseptics		
□ chlorhexidine	Solution: 5% (digluconate).	
L CHOTTEXIUNE	Gel: 4%.	
□ ethanol	Solution: 70% (denatured).	
□ povidone iodine	Solution: 10% (equivalent to 1% available iodine).	
15.2 Disinfectants		
	Solution containing ethanol 80% volume /volume	
alcohol based hand rub	Solution containing isopropyl alcohol 75% volume/volume	
□ chlorine base compound	Powder: (0.1% available chlorine) for solution.	
□ chloroxylenol	Solution: 4.8%.	
glutaral	Solution: 2%.	

16. DIURETICS	
	Injection: 10 mg/mL in 2-mL ampoule.
furosemide	Oral liquid: 20 mg/5 mL.
	Tablet: 10 mg; 20 mg; 40 mg.
Complementary List	
□ hydrochlorothiazide	Tablet (scored): 25 mg.
mannitol	Injectable solution: 10%; 20%.
aniranalaatana	Oral liquid: 5 mg/5 mL; 10 mg/5 mL; 25 mg/5 mL.
spironolactone	Tablet: 25 mg.
17. GASTROINTESTINAL MEDICINES	,
Complementary List	
□ pancreatic enzymes	Age-appropriate formulations and doses including lipase, protease and amylase.
17.1 Antiulcer medicines	
□ omeprazole	Powder for oral liquid: 20-mg; 40-mg sachets.
и отпернадове	Solid oral dosage form: 10 mg; 20 mg; 40 mg.
	Injection: 25 mg/mL (as hydrochloride) in 2-mL ampoule.
□ ranitidine	Oral liquid: 75 mg/5 mL (as hydrochloride).
	Tablet: 150 mg (as hydrochloride).
17.2 Antiemetic medicines	
	Injection: 4 mg/mL in 1-mL ampoule (as disodium phosphate salt).
dexamethasone	Oral liquid: 0.5 mg/5 mL; 2 mg/5 mL.
	Solid oral dosage form: 0.5 mg; 0.75 mg; 1.5 mg; 4 mg.
	Injection: 5 mg (hydrochloride)/mL in 2-mL ampoule.
metoclopramide a	Oral liquid: 5 mg/5 mL.
	Tablet: 10 mg (hydrochloride).
	a Not in neonates.
	Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride).
□ ondansetron a	Oral liquid: 4 mg base/5 mL.
_	Solid oral dosage form: Eq 4 mg base; Eq 8 mg base.
	a >1 month.
Complementary list	
aprepitant	Capsule: 80 mg; 125 mg; 165 mg
	Powder for oral susupension: 125 mg in sachet
17.3 Anti-inflammatory medicines	
17.4 Laxatives	
17.5 Medicines used in diarrhoea	

	Co-package containing:	
oral rehydration salts – zinc sulfate	ORS powder for dilution (see Section 17.5.1) – zinc sulfate solid oral dosage form 20 mg (see Section 17.5.2)	
17.5.1 Oral rehydration	,	
	Powder for dilution in 200 mL; 500 mL; 1 L.	
oral rehydration salts	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 osmolarity: 245 mOsm/L glucose: 13.5 g/L sodium chloride: 2.6 g/L potassium chloride: 1.5 g/L trisodium citrate dihydrate*: 2.9 g/L	
	* trisodium citrate dihydrate may be replaced by sodium hydrogen carbonate (sodium bicarbonate) 2.5 g/L. However, as the stability of this latter formulation is very poor under tropical conditions, it is recommended only when manufactured for immediate use.	
17.5.2 Medicines for diarrhoea		
	Solid oral dosage form: 20 mg.	
zinc sulfate*	* In acute diarrhoea, zinc sulfate should be used as an adjunct to oral rehydration salts.	
18. MEDICINES FOR ENDOCRINE DISC	ORDERS	
18.1 Adrenal hormones and synthetic substit	utes	
fludrocortisone	Tablet: 100 micrograms (acetate).	
hydrocortisone	Tablet: 5 mg; 10 mg; 20 mg.	
18.2 Androgens	·	
18.3 Estrogens		
18.4 Progestogens		
18.5 Medicines for diabetes		
18.5.1 Insulins		
insulin injection (soluble)	Injection: 100 IU/mL in 10-mL vial.	
intermediate-acting insulin	Injection: 100 IU/mL in 10-mL vial (as compound insulin zinc suspension or isophane insulin).	
18.5.2 Oral hypoglycaemic agents	<u> </u>	
Complementary List		
metformin	Tablet: 500 mg (hydrochloride).	
18.6 Medicines for hypoglycaemia	<u> </u>	
glucagon	Injection: 1 mg/mL.	
Complementary List	I	

diazoxide	Oral liquid: 50 mg/mL	
	Tablet: 50 mg	
18.7 Thyroid hormones and antithyroid medicines		
levothyroxine	Tablet: 25 micrograms; 50 micrograms; 100 micrograms (sodium salt).	
Complementary List		
Lugol's solution	Oral liquid: about 130 mg total iodine/mL.	
methimazole*	Tablet: 5mg, 10mg, 20mg.	
	* carbimazole is an alternative depending on local availability.	
potassium iodide	Tablet: 60 mg.	
	Tablet: 50 mg.	
propylthiouracil*	*for use in patients for whom alternative first-line treatment is not appropriate or available	
19. IMMUNOLOGICALS		
19.1 Diagnostic agents		
All tuberculins should comply with the WHO requiren	nents for tuberculins.	
tuberculin, purified protein derivative (PPD)	Injection.	
19.2 Sera and immunoglobulins		
All plasma fractions should comply with the WHO requirements.		
anti-venom immunoglobulin*	Injection.	
	* Exact type to be defined locally.	
diphtheria antitoxin	Injection: 10 000 IU; 20 000 IU in vial.	

19.3 Vaccines

WHO immunization policy recommendations are published in vaccine position papers on the basis of recommendations made by the Strategic Advisory Group of Experts on Immunization (SAGE).

WHO vaccine position papers are updated three to four times per year. The list below details the vaccines for which there is a recommendation from SAGE and a corresponding WHO position paper as at **December 2018**. The most recent versions of the WHO position papers, reflecting the current evidence related to a specific vaccine and the related recommendations, can be accessed at any time on the WHO website at:

http://www.who.int/immunization/documents/positionpapers/en/index.html.

Vaccine recommendations may be universal or conditional (e.g., in certain regions, in some high-risk populations or as part of immunization programmes with certain characteristics). Details are available in the relevant position papers, and in the Summary Tables of WHO Routine Immunization Recommendations available on the WHO website at:

http://www.who.int/immunization/policy/immunization_tables/en/index.html.

Selection of vaccines from the Model List will need to be determined by each country after consideration of international recommendations, epidemiology and national priorities.

All vaccines should comply with the WHO requirements for biological substances.

WHO noted the need for vaccines used in children to be polyvalent.

Recommendations for all	
BCG vaccine	
diphtheria vaccine	
Haemophilus influenzae type b vaccine	
hepatitis B vaccine	
HPV vaccine	
measles vaccine	
pertussis vaccine	
pneumococcal vaccine	
poliomyelitis vaccine	
rotavirus vaccine	
rubella vaccine	
tetanus vaccine	
Recommendations for certain regions	
Japanese encephalitis vaccine	
yellow fever vaccine	
tick-borne encephalitis vaccine	
Recommendations for some high-risk populations	
cholera vaccine	
dengue vaccine	
hepatitis A vaccine	

meningococcal meningitis vaccine	
rabies vaccine	
typhoid vaccine	
Recommendations for immunization programmes with	o certain characteristics
influenza vaccine (seasonal)	
mumps vaccine	
varicella vaccine	
20. MUSCLE RELAXANTS (PERIPHERALLY-AC	TING) AND CHOLINESTERASE INHIBITORS
neostigmine	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule.
	Tablet: 15 mg (bromide).
suxamethonium	Injection: 50 mg (chloride)/mL in 2-mL ampoule.
ca/carretrierria.rr	Powder for injection: (chloride), in vial.
□ vecuronium	Powder for injection: 10 mg (bromide) in vial.
Complementary List	
pyridostigmine	Injection: 1 mg in 1-mL ampoule.
.,	Tablet: 60 mg (bromide).
21. OPHTHALMOLOGICAL PREPARATIONS	
21.1 Anti-infective agents	
aciclovir	Ointment: 3% W/W.
azithromycin	Solution (eye drops): 1.5%
	Ointment: 0.5%
erythromycin*	*Infections due to Chlamydia trachomatis or Neisseria gonorrhoeae.
☐ gentamicin	Solution (eye drops): 0.3% (sulfate).
natamycin	Suspension: (eye drops): 5%
□ ofloxacin	Solution (eye drops): 0.3%.
□ tetracycline	Eye ointment: 1% (hydrochloride).
21.2 Anti-inflammatory agents	
□ prednisolone	Solution (eye drops): 0.5% (sodium phosphate).
21.3 Local anaesthetics	
□ tetracaine a	Solution (eye drops): 0.5% (hydrochloride).
	a Not in preterm neonates.
21.4 Miotics and antiglaucoma medicines	
21.5 Mydriatics	

	Solution (eye drops): 0.1%; 0.5%; 1% (sulfate).	
atropine*a	* Or homatropine (hydrobromide) or cyclopentolate	
	(hydrochloride).	
	a >3 months.	
Complementary List		
epinephrine (adrenaline)	Solution (eye drops): 2% (as hydrochloride).	
21.6 Anti-vascular endothelial growth factor (VEGF)	preparations	
22. MEDICINES FOR REPRODUCTIVE HEALT	H AND PERINATAL CARE	
22.1 Contraceptives		
22.2 Ovulation inducers		
22.3 Uterotonics		
22.4 Antioxytocics (tocolytics)		
22.5 Other medicines administered to the mother		
22.6 Medicines administered to the neonate		
	Injection: 20 mg/mL (equivalent to 10 mg caffeine base/mL).	
caffeine citrate	Oral liquid: 20 mg/mL (equivalent to 10 mg caffeine base/mL).	
chlorhexidine	Solution or gel: 7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care).	
Complementary List		
☐ ibuprofen	Solution for injection: 5 mg/mL.	
	Solution for injection:	
□ prostaglandin E	Prostaglandin E1: 0.5 mg/mL in alcohol. Prostaglandin E2: 1 mg/mL.	
surfactant	Suspension for intratracheal instillation: 25 mg/mL or 80 mg/mL.	
23. PERITONEAL DIALYSIS SOLUTION		
Complementary List		
intraperitoneal dialysis solution (of appropriate composition)	Parenteral solution.	
24. MEDICINES FOR MENTAL AND BEHAVIOURAL DISORDERS		
24.1 Medicines used in psychotic disorders		
Complementary List		
	Injection: 25 mg (hydrochloride)/mL in 2-mL ampoule.	
chlorpromazine	Oral liquid: 25 mg (hydrochloride)/5 mL.	
	Tablet: 10 mg; 25 mg; 50 mg; 100 mg (hydrochloride).	
	Injection: 5 mg in 1-mL ampoule.	
haloperidol	Oral liquid: 2 mg/mL.	
	Solid oral dosage form: 0.5 mg; 2 mg; 5 mg.	
24.2 Medicines used in mood disorders		

24.2.1 Medicines used in depressive disorders			
Complementary List			
fluoxetine a	Solid oral dosage form: 20 mg (as hydrochloride). a >8 years.		
24.2.2 Medicines used in bipolar disorders			
24.3 Medicines for anxiety disorders			
24.4 Medicines used for obsessive compulsive disorders			
24.5 Medicines for disorders due to psychoac	24.5 Medicines for disorders due to psychoactive substance use		
25. MEDICINES ACTING ON THE RESPIRATORY TRACT			
25.1 Antiasthmatic medicines			
□ budesonide	Inhalation (aerosol): 100 micrograms per dose; 200 micrograms per dose.		
epinephrine (adrenaline)	Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule.		
	Injection: 50 micrograms (as sulfate)/mL in 5-mL ampoule.		
□ salbutamol	Metered dose inhaler (aerosol): 100 micrograms (as sulfate) per dose.		
	Respirator solution for use in nebulizers: 5 mg (as sulfate)/mL.		
26. SOLUTIONS CORRECTING WATER,	ELECTROLYTE AND ACID-BASE DISTURBANCES		
26.1 Oral			
oral rehydration salts	See section 17.5.1.		
potassium chloride	Powder for solution.		
26.2 Parenteral			
glucose	Injectable solution: 5% (isotonic); 10% (hypertonic); 50% (hypertonic).		
glucose with sodium chloride	Injectable solution: 5% glucose, 0.9% sodium chloride (equivalent to Na+ 150 mmol/L and Cl- 150 mmol/L); 5% glucose, 0.45% sodium chloride (equivalent to Na+ 75 mmol/L and Cl- 75 mmol/L).		
potassium chloride	Solution for dilution: 7.5% (equivalent to K+ 1 mmol/mL and Cl-1 mmol/mL); 15% (equivalent to K+ 2 mmol/mL and Cl-2 mmol/mL).		
sodium chloride	Injectable solution: 0.9% isotonic (equivalent to Na+ 154 mmol/L, Cl- 154 mmol/L).		
sodium hydrogen carbonate	Injectable solution: 1.4% isotonic (equivalent to Na+167 mmol/L, HCO ₃ -167 mmol/L).		
	Solution: 8.4% in 10-mL ampoule (equivalent to Na+ 1000 mmol/L, HCO ₃ -1000 mmol/L).		
☐ sodium lactate, compound solution	Injectable solution.		
26.3 Miscellaneous			
water for injection	2-mL; 5-mL; 10-mL ampoules.		

27. VITAMINS AND MINERALS		
ascorbic acid	Tablet: 50 mg.	
	Oral liquid: 400 IU/mL.	
colecalciferol*	Solid oral dosage form: 400 IU; 1000 IU.	
	* Ergocalciferol can be used as an alternative.	
	Capsule: 190 mg.	
iodine	lodized oil: 1 mL (480 mg iodine); 0.5 mL (240 mg iodine) in ampoule (oral or injectable); 0.57 mL (308 mg iodine) in dispenser bottle.	
	Sachets containing:	
	- iron (elemental) 12.5 mg (as coated ferrous fumarate)	
	- zinc (elemental) 5 mg	
multiple micronutrient powder	- vitamin A 300 micrograms	
	- with or without other micronutrients at recommended daily values	
pyridoxine	Tablet: 25 mg (hydrochloride).	
	Capsule: 100 000 IU; 200 000 IU (as palmitate).	
	Oral oily solution: 100 000 IU (as palmitate)/mL in multidose dispenser.	
retinol	Tablet (sugar-coated): 10 000 IU (as palmitate).	
	Water-miscible injection: 100 000 IU (as palmitate) in 2-mL ampoule.	
riboflavin	Tablet: 5 mg.	
sodium fluoride	In any appropriate topical formulation.	
thiamine	Tablet: 50 mg (hydrochloride).	
Complementary List		
calcium gluconate	Injection: 100 mg/mL in 10-mL ampoule.	
28. EAR, NOSE AND THROAT MEDICINES		
acetic acid	Topical: 2%, in alcohol.	
□ budesonide	Nasal spray: 100 micrograms per dose.	
□ ciprofloxacin	Topical: 0.3% drops (as hydrochloride).	
	Nasal spray: 0.05%.	
□ xylometazoline a	a Not in children less than 3 months.	
29. MEDICINES FOR DISEASES OF JOINTS		
29.1 Medicines used to treat gout		
29.2 Disease-modifying agents used in rheumatoid disorders (DMARDs)		
Complementary List		
hydroxychloroquine	Solid oral dosage form: 200 mg (as sulfate).	
	L	

methotrexate	Tablet: 2.5 mg (as sodium salt).	
29.3 Juvenile joint diseases		
acetylsalicylic acid* (acute or chronic use)	Suppository: 50 mg to 150 mg.	
	Tablet: 100 mg to 500 mg.	
	* For use for rheumatic fever, juvenile arthritis, Kawasaki disease.	

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