

The selection and use of essential medicines, 2025

WHO Model List of Essential Medicines for Children 10th list



World Health
Organization

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WHO Model List of Essential Medicines for Children – 10th List (2025)

Explanatory notes

This Model List is intended for use for children up to and including 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 (□)** is intended to indicate therapeutic alternatives to the listed medicine that may be considered for selection in national essential medicines lists. Alternatives may be individual medicines, or multiple medicines within a pharmacological class or chemical subgroup, defined at the 4th level of the Anatomical Therapeutic Chemical (ATC) classification, which have similar clinical effectiveness and safety. The listed medicine should be the example of the class or subgroup 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. A square box is not used to indicate alternative generic brands of the same small molecule medicines, nor alternative biosimilars of biological medicines. However, the selection and use of quality-assured generics and biosimilars of essential medicines at country level is recommended.

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 22nd WHO Model List of Essential Medicines is used for the 8th 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.

The presence of an entry on the Essential Medicines List for Children 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 <https://www.who.int/teams/health-product-and-policy-standards/standards-and-specifications/norms-and-standards-for-pharmaceuticals/guidelines/quality-assurance>.

Medicines and dosage forms are listed in alphabetical order within each section and the order of listing does not imply 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 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* <https://www.who.int/teams/health-product-policy-and-standards/standards-and-specifications/norms-and-standards-for-pharmaceuticals/international-pharmacopoeia>.

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1. ANAESTHETICS, PREOPERATIVE MEDICINES AND MEDICAL GASES	
1.1 General anaesthetics and oxygen	
1.1.1 Inhalational medicines	
isoflurane	Inhalation.
nitrous oxide*	Inhalation. *Piped nitrous oxide is a major source of atmospheric pollution from healthcare facilities. Point-of-care cylinders are the preferred delivery system over centrally-supplied (piped) delivery systems.
oxygen	Inhalation (medical gas).
sevoflurane	Inhalation.
1.1.2 Injectable medicines	
ketamine	Injection: 10 mg/mL; 50 mg/mL (as hydrochloride) in vial.
<input type="checkbox"/> propofol Therapeutic alternatives: - thiopental	Injection: 10 mg/mL; 20 mg/mL.
1.2 Local anaesthetics	
<input type="checkbox"/> bupivacaine Therapeutic alternatives to be reviewed	Injection: 0.25%; 0.5% (hydrochloride). Injection for spinal anaesthesia: 0.5% (hydrochloride) in 4 mL ampoule in 8% glucose solution.
<input type="checkbox"/> lidocaine Therapeutic alternatives to be reviewed	Injection: 0.5%; 1%; 2% (hydrochloride). Injection for spinal anaesthesia: 5% (hydrochloride) in 2 mL ampoule in 7.5% glucose solution. Topical forms: 2% to 4% (hydrochloride).
lidocaine + epinephrine (adrenaline)	Dental cartridge: 2% (hydrochloride) + epinephrine 1:80 000. Injection: 1%; 2% (hydrochloride or sulfate) + epinephrine 1:200 000.
1.3 Preoperative medication and sedation for short-term procedures	
atropine	Injection: 400 micrograms/mL; 1 mg/mL (sulfate) in 1 mL ampoule or vial.
<input type="checkbox"/> midazolam Therapeutic alternatives to be reviewed	Injection: 1 mg/mL in 5 mL vial; 5 mg/mL in 1 mL or 3 mL vial. Oral liquid: 2 mg/mL.
morphine	Injection: 1 mg/mL; 2 mg/mL; 10 mg/mL (sulfate or hydrochloride) in 1 mL ampoule.
1.4 Medical gases	
oxygen*	Inhalation For use in the management of hypoxaemia. *No more than 30% oxygen should be used to initiate resuscitation of neonates less than or equal to 32 weeks of gestation.

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2. MEDICINES FOR PAIN AND PALLIATIVE CARE	
2.1 Non-opioids and non-steroidal anti-inflammatory medicines (NSAIMs)	
ibuprofen ^a	<p>Oral liquid: 100 mg/5 mL; 200 mg/5 mL.</p> <p>Tablet: 200 mg; 400 mg; 600 mg.</p> <p>^a Not in children less than 3 months.</p>
paracetamol (acetaminophen)*	<p>Oral liquid: 120 mg/5 mL or 125 mg/5 mL^{**}; 250 mg/5 mL.</p> <p>^{**}The presence of both 120 mg/5 mL and 125 mg/5 mL strengths on the same market would cause confusion in prescribing and dispensing and should be avoided.</p> <p>Suppository: 100 mg; 250 mg.</p> <p>Tablet: 250 mg; 325 mg; 500 mg.</p> <p>Tablet (dispersible): 100 mg; 250 mg</p> <p>*Not recommended for anti-inflammatory use due to lack of proven benefit to that effect.</p>
2.2 Opioid analgesics	
<input type="checkbox"/> morphine Therapeutic alternatives: - hydromorphone - oxycodone	<p>Granules (slow release; to mix with water): 20 mg; 30 mg; 60 mg; 100 mg (morphine sulfate).</p> <p>Injection: 1 mg/mL; 2 mg/mL; 10 mg/mL (morphine hydrochloride or morphine sulfate) in 1 mL ampoule.</p> <p>Oral liquid: 5 mg/5 mL; 10 mg/5 mL (morphine hydrochloride or morphine sulfate).</p> <p>Solid oral dosage form (slow release): 5 mg; 10 mg; 30 mg; 60 mg; 100 mg (morphine hydrochloride or morphine sulfate).</p> <p>Tablet (immediate release): 10 mg (morphine sulfate).</p>
Complementary list	
methadone*	<p>Tablet: 5 mg (hydrochloride).</p> <p>Oral liquid: 5 mg/5 mL (hydrochloride).</p> <p>Concentrate for oral liquid: 25 mg/5 mL (hydrochloride)</p> <p>*For the management of cancer pain.</p>
2.3 Medicines for other common symptoms in palliative care	
amitriptyline	<p>Oral liquid: 25 mg/5 mL.</p> <p>Tablet: 10 mg; 25 mg.</p>
cyclizine	<p>Injection: 50 mg/mL (lactate).</p> <p>Tablet: 50 mg (hydrochloride).</p>
dexamethasone	<p>Injection: 4 mg/mL dexamethasone phosphate (as sodium phosphate) (equivalent to 3.3 mg/mL dexamethasone base) in 1 mL ampoule.</p> <p>Oral liquid: 0.5 mg/5 mL, 2 mg/5 mL (as sodium phosphate).</p> <p>Tablet: 0.5 mg, 0.75 mg, 1.5 mg, 2 mg, 4 mg (as dexamethasone base).</p>

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diazepam	Oral liquid: 2 mg/5 mL. Rectal gel: 5 mg/mL in 0.5 mL, 2 mL, 4 mL rectal delivery system. Rectal solution: 2 mg/mL in 1.25 mL, 2.5 mL rectal tube; 4 mg/mL in 2.5 mL rectal tube. Tablet (scored): 2 mg; 5 mg; 10 mg.
docusate sodium	Oral liquid: 12.5 mg/5 mL; 50 mg/5 mL.
hyoscine hydrobromide	Injection: 400 micrograms/mL; 600 micrograms/mL. Transdermal patches: 1 mg/72 hours.
lactulose	Oral liquid: 3.3 to 3.4 g/5 mL.
midazolam	Injection*: 1 mg/mL in 5 mL vial; 5 mg/mL in 1 mL, 3 mL vial. *May be used for buccal administration when solution for oromucosal administration is not available. Oral liquid: 2 mg/mL. 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 prefilled syringe.
<input type="checkbox"/> ondansetron Therapeutic alternatives : - dolasetron - granisetron - palonosetron - tropisetron	Injection: 2 mg/mL in 2 mL, 4 mL ampoule (as hydrochloride dihydrate). Oral liquid: 4 mg/5 mL (as hydrochloride dihydrate). Solid oral dosage form: 4 mg; 8 mg (as hydrochloride dihydrate).
senna	Oral liquid: 7.5 mg/5 mL.
3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS	
dexamethasone	Injection: 4 mg/mL dexamethasone phosphate (as sodium phosphate) (equivalent to 3.3 mg/mL dexamethasone base) in 1 mL ampoule. Oral liquid: 0.5 mg/5 mL; 2 mg/5 mL (as sodium phosphate). Tablet: 0.5 mg; 0.75 mg; 1.5 mg; 2 mg; 4 mg (as dexamethasone base).
epinephrine (adrenaline)	Injection: 1 mg/mL (as hydrochloride or hydrogen tartrate) in 1 mL ampoule.
hydrocortisone	Powder for injection: 100 mg (as sodium succinate) in vial.
<input type="checkbox"/> loratadine* Therapeutic alternatives: - cetirizine - fexofenadine	Oral liquid: 1 mg/mL. Tablet: 10 mg. Tablet (chewable): 5 mg; 10 mg. <i>*There may be a role for sedating antihistamines for limited indications.</i>
<input type="checkbox"/> prednisolone Therapeutic alternatives: - prednisone	Oral liquid: 5 mg/mL. Tablet: 5 mg; 25 mg.

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4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS	
4.1 Non-specific	
charcoal, activated	<p>Granules for oral suspension*: 50 mg.</p> <p>*Alternative formulations of activated charcoal may be used if granules are not available.</p>
4.2 Specific	
acetylcysteine	Injection: 200 mg/mL in 10 mL ampoule.
atropine	Injection: 1 mg/mL (sulfate) in 1 mL ampoule or vial.
calcium gluconate	Injection: 100 mg/mL (10%) in 10 mL ampoule or vial.
naloxone	Injection: 400 micrograms (hydrochloride) in 1 mL ampoule.
<i>Complementary List</i>	
<i>deferoxamine</i>	Powder for injection: 500 mg (mesilate) in vial.
<i>dimercaprol</i>	Injection in oil: 50 mg/mL in 2 mL ampoule; 100 mg/mL in 3 mL ampoule.
<i>fomepizole</i>	Injection: 5 mg/mL (sulfate) in 20 mL ampoule or 1 g/mL (base) in 1.5 mL ampoule or vial.
<i>sodium calcium edetate</i>	Injection: 200 mg/mL in 5 mL ampoule.
<i>succimer</i>	Solid oral dosage form: 100 mg.
5. MEDICINES FOR NEUROLOGICAL DISORDERS	
5.1 Medicines for central nervous system disorders	
5.1.1 Antiseizure medicines	
carbamazepine	<p>Oral liquid: 100 mg/5 mL.</p> <p>Tablet (chewable): 100 mg; 200 mg.</p> <p>Tablet (scored): 100 mg; 200 mg; 400 mg.</p>
diazepam	<p>Rectal gel: 5 mg/mL in 0.5 mL, 2 mL, 4 mL rectal delivery system.</p> <p>Rectal solution: 2 mg/mL in 1.25 mL, 2.5 mL rectal tube; 4 mg/mL in 2.5 mL rectal tube.</p>
lamotrigine*	<p>Tablet: 25 mg; 50 mg; 100 mg; 200 mg.</p> <p>Tablet (chewable, dispersible): 2 mg; 5 mg; 25 mg; 50 mg; 100 mg; 200 mg.</p> <p>*For use as adjunctive therapy for treatment-resistant partial or generalized seizures.</p>
levetiracetam	<p>Oral liquid: 100 mg/mL.</p> <p>Tablet: 250 mg; 500 mg; 750 mg; 1000 mg.</p>
<input type="checkbox"/> lorazepam Therapeutic alternatives: - diazepam (injection) - midazolam (injection)	Injection: 2 mg/mL in 1 mL ampoule; 4 mg/mL in 1 mL ampoule.



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midazolam	<p>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.</p> <p>Injection*: 1 mg/mL in 5 mL vial; 5 mg/mL in 1 mL or 3 mL vial.</p> <p>*For buccal administration when solution for oromucosal administration is not available.</p>
phenobarbital	<p>Injection: 30 mg/mL or 60 mg/mL; 200 mg/mL (sodium).</p> <p>Oral liquid: 15 mg/5 mL.</p> <p>Tablet: 15 mg; 30 mg; 60 mg; 100 mg.</p>
phenytoin	<p>Injection: 50 mg/mL (phenytoin sodium).</p> <p>Oral liquid: 30 mg/5 mL (phenytoin).</p> <p>Solid oral dosage form: 25 mg; 50 mg; 100 mg (phenytoin sodium).</p> <p>Tablet (chewable): 50 mg (phenytoin).</p>
prednisolone	<p>Oral liquid: 1 mg/mL</p> <p>Tablet: 1 mg, 5 mg, 10 mg</p>
valproic acid (sodium valproate)* <i>*Valproic acid (sodium valproate) is not recommended in women and girls of childbearing potential owing to the high risk of birth defects and neurodevelopmental disorders in children exposed to valproic acid (sodium valproate) in the womb.</i>	<p>Oral liquid: 200 mg/5 mL.</p> <p>Tablet (crushable): 100 mg.</p> <p>Tablet (enteric-coated): 200 mg; 500 mg.</p>
Complementary List	
ethosuximide	<p>Capsule: 250 mg.</p> <p>Oral liquid: 250 mg/5 mL.</p>
levetiracetam	<p>Concentrate solution for infusion: 100 mg/mL in 5 mL ampoule or vial.</p> <p>Solution for infusion: 5 mg/mL; 10 mg/mL; 15 mg/mL in 100 mL bag.</p>
valproic acid (sodium valproate)* <i>*Valproic acid (sodium valproate) is not recommended in women and girls of childbearing potential owing to the high risk of birth defects and neurodevelopmental disorders in children exposed to valproic acid (sodium valproate) in the womb.</i>	<p>Injection: 100 mg/mL in 3 mL, 4 mL, 10 mL ampoule.</p>
5.1.2 Medicines for multiple sclerosis	
5.1.3 Medicines for parkinsonism	
5.1.4 Medicines for cerebral palsy	
Complementary List	
baclofen	<p>Intrathecal injection: 500 micrograms/mL in ampoule</p> <p>Oral liquid: 10 mg/5 mL</p> <p>Tablet: 10 mg</p>

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5.1.5 Medicines for headache disorders		
5.1.5.1 Medicines for acute migraine attacks		
ibuprofen	Oral liquid: 100 mg/5 mL. Tablet: 200 mg; 400 mg.	
paracetamol (acetaminophen)	Oral liquid: 120 mg/5 mL or 125 mg/5 mL*; 250 mg/5 mL. *The presence of both 120 mg/5 mL and 125 mg/5mL strengths on the same market would cause confusion in prescribing and dispensing and should be avoided. Suppository: 250 mg. Tablet: 250 mg; 325 mg; 500 mg. Tablet (dispersible): 100 mg; 250 mg.	
5.1.5.2 Medicines for migraine prophylaxis		
propranolol	Tablet: 10 mg; 40 mg (hydrochloride).	
5.1.5.3 Medicines for cluster headache		
5.1.6 Medicines for central nervous system infections		
5.1.6.1 Medicines for bacterial central nervous system infections		
amoxicillin	Powder for injection: 250 mg; 500 mg; 1 g (as sodium) in vial. Powder for oral liquid: 125 mg/5 mL; 250 mg/5 mL (as trihydrate). Solid oral dosage form: 250 mg; 500 mg (as trihydrate). Tablet (dispersible, scored): 250 mg; 500 mg (as trihydrate).	
	FIRST CHOICE	SECOND CHOICE – Acute bacterial meningitis
ampicillin	Powder for injection: 500 mg; 1 g (as sodium) in vial.	
	FIRST CHOICE	SECOND CHOICE – Acute bacterial meningitis
benzylpenicillin	Powder for injection: 600 mg (= 1 million IU); 3 g (= 5 million IU) (sodium or potassium salt) in vial.	
	FIRST CHOICE	SECOND CHOICE – Acute bacterial meningitis
cefotaxime*	Powder for injection: 250 mg; 500 mg; 1 g; 2 g (as sodium) in vial. *3rd generation cephalosporin of choice for use in hospitalized neonates.	
	FIRST CHOICE – Acute bacterial meningitis	SECOND CHOICE
ceftriaxone* ^a	Powder for injection: 250 mg; 500 mg; 1 g (as sodium) in vial. *Do not administer with calcium and avoid in infants with hyperbilirubinaemia. ^a > 41 weeks corrected gestational age.	
	FIRST CHOICE – Acute bacterial meningitis	SECOND CHOICE

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chloramphenicol	Oily suspension for injection*: 0.5 g/mL (as sodium succinate) in 2 mL ampoule. *Only for the presumptive treatment of epidemic meningitis in children older than 2 years. Powder for injection: 1 g (sodium succinate) in vial.	
	FIRST CHOICE	SECOND CHOICE – Acute bacterial meningitis
gentamicin	Injection: 10 mg/mL (as sulfate); 40 mg/mL (as sulfate) in 2 mL vial.	
	FIRST CHOICE – Acute bacterial meningitis in neonates	SECOND CHOICE
Complementary List		
meropenem* 	Powder for injection: 500 mg (as trihydrate); 1 g (as trihydrate) in vial  > 3 months.	
	FIRST CHOICE	SECOND CHOICE – Acute bacterial meningitis in neonates
5.1.6.2 Medicine for viral central nervous system infections		
aciclovir	Oral liquid: 200 mg/5 mL. Powder for solution for infusion: 250 mg (as sodium dihydrate) in vial. Solution for infusion: 25 mg/mL (as sodium) in vial. Tablet: 200 mg.	
5.2 Medicines for peripheral nervous system disorders		
5.2.1 Medicines for Guillain-Barré syndrome		
Complementary List		
normal immunoglobulin	Intravenous administration: 5%; 10% protein solution.	
5.2.2 Medicines for myasthenia gravis		
neostigmine	Injection: 500 micrograms/mL (methylsulfate) in 1 mL ampoule; 2.5 mg/mL (methylsulfate) in 1 mL ampoule.	
Complementary List		
pyridostigmine	Injection: 5 mg/mL (bromide) in ampoule or vial. Tablet (scored): 60 mg (bromide).	
6. ANTI-INFECTIVE MEDICINES		
6.1 Anthelmintics		
6.1.1 Intestinal anthelmintics		
albendazole	Tablet (chewable, scored): 400 mg.	
ivermectin	Tablet: 3 mg.	
levamisole	Tablet: 50 mg (as hydrochloride).	
mebendazole	Tablet (chewable): 100 mg; 500 mg.	
niclosamide	Tablet (chewable): 500 mg.	

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praziquantel	Tablet: 150 mg; 500 mg. Tablet (scored): 600 mg.
pyrantel	Tablet (chewable): 250 mg (as embonate or pamoate).
6.1.2 Antifilarials	
albendazole	Tablet (chewable, scored): 400 mg.
diethylcarbamazine	Tablet: 50 mg; 100 mg (dihydrogen citrate).
<input type="checkbox"/> ivermectin Therapeutic alternatives: - moxidectin	Tablet: 3 mg.
6.1.3 Antischistosomes and other antitremitode medicines	
<input type="checkbox"/> praziquantel* Therapeutic alternatives: - arpraziquantel (Tablet (dispersible): 150 mg) *The square box applies only to the listing of praziquantel on the EMLc for schistosomiasis	Tablet: 150 mg; 500 mg. Tablet (scored): 600 mg.
triclabendazole	Tablet (scored): 250 mg.
Complementary List	
oxamniquine*	Capsule: 250 mg. Oral liquid: 250 mg/5 mL. *For use when praziquantel treatment fails.
6.1.4 Cysticidal medicines	
Complementary List	
albendazole	Tablet (chewable): 200 mg. Tablet (chewable, scored): 400 mg.
mebendazole	Tablet (chewable): 100 mg; 500 mg.
praziquantel	Tablet: 150 mg; 500 mg. Tablet (scored): 600 mg

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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 has been developed by WHO – 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 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.

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 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 programmes involving monitoring and utilization reporting, to preserve their effectiveness.

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6.2.1 Access group antibiotics		
amikacin	Injection: 50 mg/mL (as sulfate); 250 mg/mL (as sulfate) in 2 mL vial.	
	FIRST CHOICE <ul style="list-style-type: none"> – High-risk febrile neutropenia – Pyelonephritis (severe) 	SECOND CHOICE <ul style="list-style-type: none"> – Sepsis in neonates and children
amoxicillin	Powder for injection: 250 mg; 500 mg; 1 g (as sodium) in vial. Powder for oral liquid: 125 mg/5 mL; 250 mg/5 mL (as trihydrate). Solid oral dosage form: 250 mg; 500 mg (as trihydrate). Tablet (dispersible, scored): 250 mg; 500 mg (as trihydrate).	
	FIRST CHOICE <ul style="list-style-type: none"> – Community acquired pneumonia (mild to moderate) – Community acquired pneumonia (severe) – Complicated severe acute malnutrition – Otitis media – Pharyngitis – Progressive apical dental abscess – Sepsis in neonates and children – Sinusitis – Uncomplicated severe acute malnutrition 	SECOND CHOICE <ul style="list-style-type: none"> – Acute bacterial meningitis
amoxicillin + clavulanic acid	Powder for injection: 500 mg (as sodium) + 100 mg (as potassium salt); 1000 mg (as sodium) + 200 mg (as potassium salt) in vial. Powder for oral liquid: 125 mg (as trihydrate) + 31.25 mg (as potassium salt)/5 mL; 250 mg (as trihydrate) + 62.5 mg (as potassium salt)/5 mL. Tablet: 500 mg (as trihydrate) + 125 mg (as potassium salt). Tablet (dispersible): 200 mg (as trihydrate) + 28.5 mg (as potassium salt); 250 mg (as trihydrate) + 62.5 mg (as potassium salt).	
	FIRST CHOICE <ul style="list-style-type: none"> – 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 	SECOND CHOICE <ul style="list-style-type: none"> – Bone and joint infections – Community acquired pneumonia (mild to moderate) – Community acquired pneumonia (severe) – Otitis media – Surgical prophylaxis

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ampicillin	Powder for injection: 500 mg; 1 g (as sodium) in vial.	
	FIRST CHOICE – <i>Community acquired pneumonia (severe)</i> – <i>Complicated intraabdominal infections</i> – <i>Complicated severe acute malnutrition</i> – <i>Sepsis in neonates and children</i>	SECOND CHOICE – <i>Acute bacterial meningitis</i>
benzathine benzylpenicillin	Powder for injection: 1.2 million IU (\approx 900 mg) in vial; 2.4 million IU (\approx 1.8 g) in vial.	
	FIRST CHOICE – <i>Syphilis (congenital)</i>	SECOND CHOICE
benzylpenicillin	Powder for injection: 600 mg (= 1 million IU); 3 g (= 5 million IU) (sodium or potassium salt) in vial.	
	FIRST CHOICE – <i>Community acquired pneumonia (severe)</i> – <i>Complicated severe acute malnutrition</i> – <i>Sepsis in neonates and children</i> – <i>Syphilis (congenital)</i>	SECOND CHOICE – <i>Acute bacterial meningitis</i>
cefalexin	Powder for oral liquid: 125 mg/5 mL; 250 mg/5 mL (anhydrous). Solid oral dosage form: 250 mg (as monohydrate). Tablet (dispersible): 125 mg; 250 mg.	
	FIRST CHOICE – <i>Skin and soft tissue infections</i>	SECOND CHOICE – <i>Pharyngitis</i>
cefazolin ^a	Powder for injection: 1 g (as sodium salt) in vial. ^a > 1 month.	
	FIRST CHOICE – <i>Surgical prophylaxis</i>	SECOND CHOICE – <i>Bone and joint infections</i>
chloramphenicol	Oily suspension for injection*: 0.5 g/mL (as sodium succinate) in 2 mL ampoule. *Only for the presumptive treatment of epidemic meningitis in children older than 2 years. Powder for injection: 1 g (sodium succinate) in vial.	
	FIRST CHOICE	SECOND CHOICE – <i>Acute bacterial meningitis</i>
clindamycin	Capsule: 150 mg (as hydrochloride). Injection: 150 mg/mL (as phosphate). Powder for oral liquid: 75 mg/5 mL (as palmitate hydrochloride).	
	FIRST CHOICE – <i>Necrotizing fasciitis</i>	SECOND CHOICE – <i>Bone and joint infections</i>

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<p><input type="checkbox"/> cloxacillin*</p> <p>Therapeutic alternatives:</p> <p>- 4th level ATC chemical subgroup (J01CF Beta-lactamase resistant penicillins)</p>	<p>Capsule: 250 mg; 500 mg; 1 g (as sodium).</p> <p>Powder for injection: 250 mg; 500 mg (as sodium) in vial.</p> <p>Powder for oral liquid: 125 mg/5 mL; 250 mg/5 mL (as sodium).</p> <p>*cloxacillin, dicloxacillin and flucloxacillin are preferred for oral administration due to better bioavailability.</p>	
	<p>FIRST CHOICE</p> <ul style="list-style-type: none"> – Bone and joint infections – Skin and soft tissue infections 	<p>SECOND CHOICE</p> <ul style="list-style-type: none"> – Sepsis in neonates and children
<p>doxycycline <input type="checkbox"/></p>	<p>Oral liquid: 50 mg/5 mL (calcium).</p> <p>Powder for oral liquid: 25 mg/5 mL (monohydrate).</p> <p>Powder for injection: 100 mg in vial.</p> <p>Solid oral dosage form: 50 mg; 100 mg (as hyclate).</p> <p>Tablet (dispersible): 100 mg (as monohydrate).</p> <p><input type="checkbox"/> Use in children <8 years only for life-threatening infections when no alternative exists.</p>	
	<p>FIRST CHOICE</p>	<p>SECOND CHOICE</p> <ul style="list-style-type: none"> – Cholera – Community acquired pneumonia (mild to moderate)
<p>gentamicin</p>	<p>Injection: 10 mg/mL (as sulfate); 40 mg/mL (as sulfate) in 2 mL vial.</p>	
	<p>FIRST CHOICE</p> <ul style="list-style-type: none"> – Acute bacterial meningitis in neonates – Community acquired pneumonia (severe) – Complicated intraabdominal infections – Complicated severe acute malnutrition – Sepsis in neonates and children 	<p>SECOND CHOICE</p> <ul style="list-style-type: none"> – Surgical prophylaxis
<p>metronidazole</p>	<p>Injection: 500 mg in 100 mL vial.</p> <p>Oral liquid: 200 mg/5 mL (as benzoate).</p> <p>Tablet: 200 mg; 250 mg; 400 mg; 500 mg.</p>	
	<p>FIRST CHOICE</p> <ul style="list-style-type: none"> – C. difficile infection – Complicated intra-abdominal infections (mild to moderate) – Complicated intra-abdominal infections (severe) – Necrotizing fasciitis – Surgical prophylaxis 	<p>SECOND CHOICE</p> <ul style="list-style-type: none"> – Complicated intra-abdominal infections (mild to moderate)
<p>nitrofurantoin</p>	<p>Oral liquid: 25 mg/5 mL.</p> <p>Solid oral dosage form: 50 mg; 100 mg.</p>	
	<p>FIRST CHOICE</p> <ul style="list-style-type: none"> – Lower urinary tract infections 	<p>SECOND CHOICE</p>

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phenoxymethylpenicillin	Powder for oral liquid: 250 mg/5 mL (as potassium). Solid oral dosage form: 250 mg (as potassium).	
	FIRST CHOICE – <i>Community acquired pneumonia (mild to moderate)</i> – <i>Pharyngitis</i> – <i>Progressive apical dental abscess</i>	SECOND CHOICE
procaine benzylpenicillin*	Powder for injection: 1 g (=1 million IU); 3 g (=3 million IU) in vial. *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 – <i>Syphilis (congenital)</i>	SECOND CHOICE
sulfamethoxazole + trimethoprim	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. Tablet: 100 mg + 20 mg; 400 mg + 80 mg. Tablet (dispersible): 100 mg + 20 mg.	
	FIRST CHOICE – <i>Lower urinary tract infections</i>	SECOND CHOICE – <i>Acute invasive bacterial diarrhoea / dysentery</i>
trimethoprim	Tablet: 100 mg; 200 mg. Oral liquid: 50 mg/5 mL.	
	FIRST CHOICE – <i>Lower urinary tract infections</i>	SECOND CHOICE
6.2.2 Watch group antibiotics		
azithromycin	Solid oral dosage form: 250 mg; 500 mg (anhydrous). Powder for oral liquid: 200 mg/5 mL (anhydrous).	
	FIRST CHOICE – <i>Cholera</i> – <i>Enteric fever</i> – <i>Trachoma</i> – <i>Yaws</i>	SECOND CHOICE – <i>Acute invasive bacterial diarrhoea / dysentery</i>
cefixime	Powder for oral liquid: 100 mg/5 mL. Solid oral dosage form: 200 mg; 400 mg (as trihydrate).	
	FIRST CHOICE	SECOND CHOICE – <i>Acute invasive bacterial diarrhoea / dysentery</i>

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cefotaxime*	Powder for injection: 250 mg; 500 mg; 1 g; 2 g (as sodium) in vial. *3rd generation cephalosporin of choice for use in hospitalized neonates.	
	FIRST CHOICE <ul style="list-style-type: none"> – Acute bacterial meningitis – Community acquired pneumonia (severe) – Complicated intraabdominal infections (mild to moderate) – Complicated intraabdominal infections (severe) – Hospital acquired pneumonia – Pyelonephritis (severe) 	SECOND CHOICE <ul style="list-style-type: none"> – Bone and joint infections – Pyelonephritis (mild to moderate) – Sepsis in neonates and children
ceftriaxone*[a]	Powder for injection: 250 mg; 500 mg; 1 g (as sodium) in vial. *Do not administer with calcium and avoid in infants with hyperbilirubinaemia. [a] > 41 weeks corrected gestational age.	
	FIRST CHOICE <ul style="list-style-type: none"> – Acute bacterial meningitis – Community acquired pneumonia (severe) – Complicated intraabdominal infections (mild to moderate) – Complicated intraabdominal infections (severe) – Endophthalmitis – Enteric fever – Hospital acquired pneumonia – Necrotizing fasciitis – Pyelonephritis (severe) 	SECOND CHOICE <ul style="list-style-type: none"> – Acute invasive bacterial diarrhoea / dysentery – Bone and joint infections – Pyelonephritis (mild to moderate) – Sepsis in neonates and children
cefuroxime	Powder for injection: 250 mg; 750 mg; 1.5 g (as sodium) in vial.	
	FIRST CHOICE	SECOND CHOICE <ul style="list-style-type: none"> – Surgical prophylaxis
ciprofloxacin	Oral liquid: 250 mg/5 mL (anhydrous) . Solution for IV infusion: 2 mg/mL (as hyclate) . Solid oral dosage form: 100 mg; 250 mg (as hydrochloride).	
	FIRST CHOICE <ul style="list-style-type: none"> – Acute invasive bacterial diarrhoea / dysentery – Enteric fever – Low-risk febrile neutropenia – Pyelonephritis (mild to moderate) 	SECOND CHOICE <ul style="list-style-type: none"> – Cholera – Complicated intraabdominal infections (mild to moderate)
<input type="checkbox"/> clarithromycin Therapeutic alternatives: - erythromycin	Powder for oral liquid: 125 mg/5 mL; 250 mg/5 mL. Powder for injection: 500 mg in vial. Solid oral dosage form: 250 mg.	
	FIRST CHOICE	SECOND CHOICE <ul style="list-style-type: none"> – Pharyngitis

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piperacillin + tazobactam	Powder for injection: 2 g (as sodium) + 250 mg (as sodium); 4 g (as sodium) + 500 mg (as sodium) in vial.	
	FIRST CHOICE – <i>Complicated intraabdominal infections (severe)</i> – <i>High-risk febrile neutropenia</i> – <i>Hospital acquired pneumonia</i> – <i>Necrotizing fasciitis</i>	SECOND CHOICE
vancomycin*	Capsule: 125 mg; 250 mg (as hydrochloride). *vancomycin powder for injection may also be used for oral administration.	
	FIRST CHOICE	SECOND CHOICE – <i>C. difficile infection</i>
Complementary List		
ceftazidime	Powder for injection: 250 mg; 1 g (as pentahydrate) in vial.	
	FIRST CHOICE – <i>Endophthalmitis</i>	SECOND CHOICE
<input type="checkbox"/> meropenem* ^a Therapeutic alternatives*: - imipenem + cilastatin *complicated intraabdominal infections and high-risk febrile neutropenia only. Meropenem is the preferred choice for acute bacterial meningitis in neonates.	Powder for injection: 500 mg (as trihydrate); 1 g (as trihydrate) in vial. ^a > 3 months.	
	FIRST CHOICE	SECOND CHOICE – <i>Acute bacterial meningitis in neonates</i> – <i>Complicated intraabdominal infections (severe)</i> – <i>High-risk febrile neutropenia</i>
vancomycin	Powder for injection: 250 mg; 500 mg; 1 g (as hydrochloride) in vial.	
	FIRST CHOICE – <i>Endophthalmitis</i> – <i>Necrotizing fasciitis</i>	SECOND CHOICE – <i>High-risk febrile neutropenia</i>
6.2.3 Reserve group antibiotics		
Complementary List		
ceftazidime + avibactam	Powder for injection: 2 g + 0.5 g in vial.	
ceftolozane + tazobactam	Powder for injection: 1 g + 0.5 g in vial.	
colistin	Powder for injection: 1 million IU (as colistemetate sodium) (equivalent to 34 mg colistin base activity) in vial.	
fosfomycin	Powder for injection: 2 g; 4 g (as sodium) in vial.	
linezolid	Injection for intravenous administration: 2 mg/mL in 300 mL bag. Powder for oral liquid: 100 mg/5 mL. Tablet (dispersible): 150 mg.	
polymyxin B	Powder for injection: 500 000 IU (equivalent to 50 mg polymyxin B base) in vial.	

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6.2.4 Antileprosy medicines	
Medicines used in the treatment of leprosy must be used 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	Solid oral dosage form: 50 mg; 100 mg.
dapsone	Tablet: 25 mg; 50 mg; 100 mg.
rifampicin	Oral liquid: 20 mg/mL. 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.	
amikacin	Injection: 250 mg/mL (as sulfate) in 2 mL vial.
amoxicillin + clavulanic acid*	Powder for oral liquid: 250 mg (as trihydrate) + 62.5 mg (as potassium salt)/5 mL. Tablet: 500 mg (as trihydrate) + 125 mg (as potassium salt). Tablet (dispersible): 250 mg (as trihydrate) + 62.5 mg (as potassium salt). *For use only in combination with meropenem.
bedaquiline	Tablet: 20 mg; 100 mg.
clofazimine	Solid oral dosage form: 50 mg; 100 mg.
cycloserine	Solid oral dosage form: 125 mg; 250 mg.
delamanid	Tablet (dispersible): 25 mg. Tablet: 50 mg.
ethambutol	Tablet: 100 mg; 400 mg (hydrochloride). Tablet (dispersible): 100 mg.
□ ethionamide Therapeutic alternatives*: - prothionamide *for multi-drug resistant tuberculosis	Tablet: 250 mg. Tablet (dispersible): 125 mg.
isoniazid	Tablet: 100 mg; 300 mg. Tablet (dispersible, scored): 100 mg.
isoniazid + pyrazinamide + rifampicin	Tablet (dispersible): 50 mg + 150 mg + 75 mg.
isoniazid + rifampicin	Tablet (dispersible): 50 mg + 75 mg.
isoniazid + rifapentine	Tablet (scored): 300 mg + 300 mg.
levofloxacin	Tablet: 250 mg; 500 mg. Tablet (dispersible): 100 mg.
linezolid	Tablet: 600 mg. Tablet (dispersible, scored): 150 mg.
meropenem	Powder for injection: 500 mg (as trihydrate); 1 g (as trihydrate) in vial.

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moxifloxacin	Tablet: 400 mg. Tablet (dispersible): 100 mg.
p-aminosalicylate sodium	Powder for oral solution: 5.52 g in sachet (equivalent to 4 g p-aminosalicylic acid).
pyrazinamide	Tablet: 400 mg; 500 mg. Tablet (dispersible): 150 mg.
rifampicin	Oral liquid: 20 mg/mL. Solid oral dosage form: 150 mg; 300 mg.
rifapentine	Tablet: 150 mg; 300 mg. Tablet (dispersible, scored): 150 mg
streptomycin	Powder for injection: 1 g (as sulfate) in vial.
6.3 Antifungal medicines	
amphotericin B*	Powder for injection: 50 mg (liposomal complex) in vial. Powder for injection: 50 mg (as sodium deoxycholate) in vial. <small>*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.</small>
fluconazole	Capsule: 50 mg. Injection: 2 mg/mL in vial. Oral liquid: 50 mg/5 mL. Powder for oral liquid: 50 mg/5 mL.
flucytosine	Capsule: 250 mg. Infusion: 2.5 g in 250 mL.
griseofulvin	Oral liquid: 125 mg/5 mL. Solid oral dosage form: 125 mg; 250 mg.
itraconazole*	Capsule: 100 mg. Oral liquid: 10 mg/mL. <small>*For treatment of chronic pulmonary aspergillosis, histoplasmosis, sporotrichosis, paracoccidioidomycosis, mycoses caused by <i>T. marneffe</i> and chromoblastomycosis; and prophylaxis of histoplasmosis and infections caused by <i>T. marneffe</i> in AIDS patients.</small>
nystatin	Lozenge: 100 000 IU. Oral liquid: 100 000 IU/mL. Solid oral dosage form: 500 000 IU.
voriconazole*	Tablet: 50 mg; 200 mg. Powder for injection: 200 mg in vial. Powder for oral liquid: 40 mg/mL. <small>*For treatment of chronic pulmonary aspergillosis and acute invasive aspergillosis.</small>




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<i>Complementary List</i>	
<input type="checkbox"/> <i>micafungin</i> <i>Therapeutic alternatives:</i> - <i>anidulafungin</i> - <i>caspofungin</i>	<i>Powder for injection: 50 mg (as sodium); 100 mg (as sodium) in vial.</i>
<i>potassium iodide</i>	<i>Saturated solution.</i>
6.4 Antiviral medicines	
6.4.1 Antiherpes medicines	
aciclovir	Oral liquid: 200 mg/5 mL. Powder for solution for infusion: 250 mg (as sodium dihydrate) in vial. Solution for infusion: 25 mg/mL (as sodium) 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 can be considered for inclusion in the listing of tablets, provided that adequate quality products are available.	
6.4.2.1 Nucleoside/Nucleotide reverse transcriptase inhibitors	
lamivudine	Oral liquid: 50 mg/5 mL.
zidovudine	Oral liquid: 50 mg/5 mL.
6.4.2.2 Non-nucleoside reverse transcriptase inhibitors	
nevirapine <input type="checkbox"/>	Oral liquid: 50 mg/5 mL. Tablet (dispersible): 50 mg. <input type="checkbox"/> > 6 weeks
6.4.2.3 Protease inhibitors	
Selection of protease inhibitor(s) from the Model List will need to be determined by each country after consideration of international and national treatment guidelines and experience. 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).	
darunavir <input type="checkbox"/>	Tablet: 75 mg. <input type="checkbox"/> > 3 years
lopinavir + ritonavir	Solid oral dosage form: 40 mg + 10 mg. Tablet (heat stable): 100 mg + 25 mg.
ritonavir	Tablet (heat stable): 25 mg; 100 mg.
6.4.2.4 Integrase inhibitors	
dolutegravir <input type="checkbox"/>	Tablet (dispersible, scored): 10 mg. <input type="checkbox"/> ≥4 weeks and ≥3 kg Tablet: 50 mg. <input type="checkbox"/> ≥ 25 kg

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raltegravir*	Granules for oral suspension: 100 mg in sachet. *For use in second-line regimens in accordance with WHO treatment guidelines
6.4.2.5 Fixed-dose combinations of antiretroviral medicines	
abacavir + dolutegravir + lamivudine	Tablet (dispersible, scored): 60 mg (as sulfate) + 5 mg + 30 mg
abacavir + lamivudine	Tablet (dispersible, scored): 120 mg (as sulfate) + 60 mg.
lamivudine + zidovudine	Tablet: 30 mg + 60 mg.
6.4.2.6 Medicines for prevention of HIV-related opportunistic infections	
isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	Tablet (scored): 300 mg + 25 mg + 800 mg + 160 mg
6.4.3 Other antivirals	
Complementary List	
oseltamivir*	Capsule: 30 mg; 45 mg; 75 mg (as phosphate). Powder for oral liquid: 6 mg/mL (as phosphate). *Severe illness due to confirmed or suspected influenza virus infection in critically ill hospitalized patients
valganciclovir*	Powder for oral solution: 50 mg/mL (as hydrochloride) Tablet: 450 mg (as hydrochloride). *For the treatment of cytomegalovirus retinitis (CMVr).
6.4.4 Antihepatitis medicines	
6.4.4.1 Medicines for hepatitis B	
6.4.4.1.1 Nucleoside/Nucleotide reverse transcriptase inhibitors	
entecavir	Oral liquid: 0.05 mg/mL Tablet: 0.5 mg; 1 mg
6.4.4.2 Medicines for hepatitis C	
Pangenotypic direct-acting antivirals should be considered as therapeutic alternatives for the purposes of selection and procurement at national level.	
6.4.4.2.1 <input type="checkbox"/> Pangenotypic direct-acting antiviral combinations	
daclatasvir*	Tablet: 30 mg; 60 mg (as dihydrochloride). *Pangenotypic when used in combination with sofosbuvir
daclatasvir + sofosbuvir	Tablet: 60 mg (as dihydrochloride)+ 400 mg.
glecaprevir + pibrentasvir	Granules: 50 mg + 20 mg in sachet. Tablet: 100 mg + 40 mg.
sofosbuvir*	Granules: 200 mg in sachet. Tablet: 200 mg; 400 mg. *Pangenotypic when used in combination with daclatasvir
sofosbuvir + velpatasvir	Granules: 150 mg + 37.5 mg; 200 mg + 50 mg in sachet. Tablet: 200 mg + 50 mg; 400 mg + 100 mg
6.4.4.2.2 Non-pangenotypic direct-acting antiviral combinations	

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6.4.4.2.3 Other antivirals for hepatitis C	
6.5 Antiprotozoal medicines	
6.5.1 Antiamoebic and anti giardiasis medicines	
diloxanide*  *proposed for deletion in 2027	Tablet: 500 mg (furoate).  > 25 kg.
 metronidazole Therapeutic alternatives: - tinidazole	Injection: 500 mg in 100 mL vial. Oral liquid: 200 mg/5 mL (as benzoate). Tablet: 200 mg; 250 mg; 400 mg; 500 mg.
6.5.2 Antileishmaniasis medicines	
amphotericin B*	Powder for injection: 50 mg (liposomal complex) in vial. Powder for injection: 50 mg (as sodium deoxycholate) in vial. *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.
meglumine antimoniate	Injection: 1.5 g/5 mL in 5 mL ampoule.
miltefosine	Solid oral dosage form: 10 mg; 50 mg.
paromomycin	Solution for intramuscular injection: 750 mg of paromomycin base (as sulfate).
sodium stibogluconate	Injection: 100 mg/mL in 30 mL vial.
6.5.3 Antimalarial medicines	
6.5.3.1 Medicines 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 WHO treatment guidelines for malaria.	
artemether	Oily injection: 20 mg/mL; 40 mg/mL in 1 mL ampoule. For use in the management of severe malaria.
artemether + lumefantrine	Tablet: 20 mg + 120 mg. Tablet (dispersible): 20 mg + 120 mg.
artesunate	Powder for injection: 30 mg; 60 mg; 120 mg in vial. For use in the management of severe malaria. Rectal dosage form: 100 mg. For pre-referral treatment of severe malaria only.
artesunate + amodiaquine	Tablet: 25 mg + 67.5 mg; 50 mg + 135 mg; 100 mg + 270 mg.
artesunate + mefloquine	Tablet: 25 mg + 50 mg (as hydrochloride); 100 mg + 200 mg (as hydrochloride).
artesunate + pyronaridine	Granules: 20 mg + 60 mg (tetraphosphate). Tablet: 60 mg + 180 mg (tetraphosphate).
artesunate – sulfadoxine + pyrimethamine	Co-packaged scored tablets: artesunate 50 mg [3] and sulfadoxine + pyrimethamine 500 mg + 25 mg [1].

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chloroquine	Oral liquid: 50 mg/5 mL (base). Tablet: 150 mg (base). For use only for the treatment of <i>Plasmodium vivax</i> infection.
dihydroartemisinin + piperazine	Tablet: 20 mg + 160 mg (phosphate); 40 mg + 320 mg (phosphate); 60 mg + 480 mg (phosphate); 80 mg + 640 mg (phosphate). Tablet (dispersible): 20 mg + 160 mg (phosphate); 40 mg + 320 mg (phosphate).
primaquine	Tablet: 7.5 mg; 15 mg (as phosphate). For use to reduce the transmission of <i>Plasmodium falciparum</i> and for radical cure of <i>Plasmodium vivax</i> and <i>Plasmodium ovale</i> infections.
quinine	Solution for infusion: 60 mg/mL; 300 mg/mL (hydrochloride) in 2 mL ampoule. For use in the management of severe malaria.
6.5.3.2 Medicines for chemoprevention	
amodiaquine – sulfadoxine + pyrimethamine	Co-packaged dispersible tablets: amodiaquine 75 mg (as hydrochloride) [3] and sulfadoxine + pyrimethamine 250 mg + 12.5 mg [1]. amodiaquine 76.5 mg (as hydrochloride) [3] and sulfadoxine + pyrimethamine 250 mg + 12.5 mg [1]. amodiaquine 150 mg (as hydrochloride) [3] and sulfadoxine + pyrimethamine 500 mg + 25 mg [1]. amodiaquine 153 mg (as hydrochloride) [3] and sulfadoxine + pyrimethamine 500 mg + 25 mg [1].
sulfadoxine + pyrimethamine	Tablet (dispersible): 250 mg + 12.5 mg.
6.5.3.3 Medicines for chemoprophylaxis in travellers	
chloroquine	Oral liquid: 50 mg/5 mL (base). Tablet: 150 mg (base). For use only for prophylaxis of <i>Plasmodium vivax</i> infection.
doxycycline ^a	Oral liquid: 50 mg/5 mL (calcium). Powder for oral liquid: 25 mg/5 mL (monohydrate). Solid oral dosage form: 50 mg; 100 mg (as hyclate). Tablet (dispersible): 100 mg (as monohydrate). ^a > 8 years
mefloquine	Tablet (scored): 250 mg (as hydrochloride).
6.5.4 Antipneumocystosis and antitoxoplasmosis medicines	
pyrimethamine	Tablet: 25 mg.
sulfadiazine	Tablet: 500 mg.

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sulfamethoxazole + trimethoprim	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. Tablet: 100 mg + 20 mg; 400 mg + 80 mg. Tablet (dispersible): 100 mg + 20 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> and <i>Trypanosoma brucei rhodesiense</i> infection.
Medicines for the treatment of 1st stage African trypanosomiasis.	
pentamidine*	Powder for injection: 300 mg (as isetionate) in vial. *To be used for the treatment of <i>Trypanosoma brucei gambiense</i> infection.
suramin sodium*	Powder for injection: 1 g in vial. *To be used for the treatment of the initial phase of <i>Trypanosoma brucei rhodesiense</i> infection.
Medicines for the treatment of 2nd stage African trypanosomiasis	
eflornithine*	Injection: 200 mg/mL (hydrochloride) in 50 mL bottle. *To be used for the treatment of <i>Trypanosoma brucei gambiense</i> infection.
nifurtimox*	Tablet (scored): 30 mg; 120 mg. *Only to be used in combination with eflornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection.
Complementary List	
melarsoprol	Injection: 180 mg/5 mL in 5 mL ampoule (3.6% solution).
6.5.5.2 American trypanosomiasis	
benznidazole	Tablet: 12.5 mg. Tablet (scored): 50 mg; 100 mg.
nifurtimox	Tablet (scored): 30 mg; 120 mg.
6.6 Medicines for ectoparasitic infections	
ivermectin	Tablet: 3 mg.
6.7 Medicines for Ebola virus disease	
ansuvimab	Powder for injection: 400 mg.
atoltivimab + maftivimab + odesivimab	Injection: 241.7 mg + 241.7 mg + 241.7 mg in 14.5 mL vial.

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6.8 Medicines for COVID-19	
<p>WHO recommends that 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. WHO recommendations are revised and updated regularly in WHO living guidelines for therapeutics for the treatment and prevention of COVID-19.</p> <p>Selection of essential therapeutics for COVID-19 at the national level should be informed by recommendations in these guidelines, and consideration of the latest evidence, epidemiology and national priorities.</p> <p>The latest WHO Therapeutics and COVID-19: living guideline is available online at: https://app.magicapp.org/#/guideline/nBkO1E</p> <p>The latest WHO Drugs to prevent COVID-19: living guideline is available online at: https://app.magicapp.org/#/guideline/L6RXYL</p>	
7. MEDICINES FOR CYSTIC FIBROSIS	
elexacaftor + tezacaftor + ivacaftor	<p>Granules: 80 mg + 40 mg + 60 mg; 100 mg + 50 mg + 75 mg in sachet.</p> <p>Tablet: 50 mg + 25 mg + 37.5 mg; 100 mg + 50 mg + 75 mg.</p>
ivacaftor	<p>Granules: 59.5 mg; 75 mg in sachet.</p> <p>Tablet: 75 mg; 150 mg.</p>
Complementary List	
pancreatic enzymes	<p>Capsule (modified release)*: 10 000 lipase units + 8000 amylase units + 600 protease units; 25 000 lipase units + 18 000 amylase units + 1000 protease units.</p> <p><i>*Units expressed in Ph.Eur</i></p>
8. IMMUNOMODULATORS AND ANTINEOPLASTICS	
8.1 Immunomodulators for non-malignant disease	
Complementary List	
<p><input type="checkbox"/> <i>adalimumab*</i></p> <p><i>Therapeutic alternatives*:</i></p> <ul style="list-style-type: none"> - etanercept - infliximab <p><i>*including quality-assured biosimilars</i></p>	<p>Injection: 10 mg/0.2 mL; 20 mg/0.2 mL; 20 mg/0.4 mL; 40 mg/0.4 mL 40 mg/0.8 mL in pre-filled syringe or pre-filled pen.</p>
azathioprine	<p>Oral liquid: 10 mg/mL.</p> <p>Powder for injection: 50 mg; 100 mg (as sodium salt) in vial.</p> <p>Tablet: 25 mg.</p> <p>Tablet (scored): 50 mg.</p>
ciclosporin	<p>Capsule: 25 mg.</p> <p>Concentrate for injection: 50 mg/mL in 1 mL ampoule.</p> <p>Oral liquid: 100 mg/mL.</p>
tacrolimus	<p>Capsule (immediate-release): 0.5 mg; 0.75 mg; 1 mg; 2 mg; 5 mg.</p> <p>Granules for oral suspension: 0.2 mg; 1 mg.</p> <p>Injection: 5 mg/mL in 1 mL vial.</p>

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8.2 Antineoplastic and supportive medicines	
Medicines listed below should be used according to protocols for treatment of the diseases.	
8.2.1 Cytotoxic medicines	
Complementary List	
arsenic trioxide	Concentrate for solution for infusion: 1 mg/mL; 2 mg/mL. – Acute promyelocytic leukaemia
asparaginase* *including quality-assured biosimilars	Powder for injection: 10 000 IU in vial. – Acute lymphoblastic leukaemia
bleomycin	Powder for injection: 15 000 IU (as sulfate) in vial. – Hodgkin lymphoma – Kaposi sarcoma – Ovarian germ cell tumours – Testicular germ cell tumours
calcium folinate (leucovorin calcium)	Injection: 3 mg/mL in 10 mL ampoule; 7.5 mg/mL in 2 mL ampoule; 10 mg/mL in 5 mL ampoule. Tablet: 5 mg; 15 mg; 25 mg. – Burkitt lymphoma – Osteosarcoma
carboplatin	Injection: 50 mg/5 mL; 150 mg/15 mL; 450 mg/45 mL; 600 mg/60 mL. – Low-grade glioma – Nephroblastoma (Wilms tumour) – Osteosarcoma – Ovarian germ cell tumours – Retinoblastoma – Testicular germ cell tumours
cisplatin	Injection: 10 mg/10 mL; 20 mg/20 mL; 50 mg/50 mL; 100 mg/100 mL. – Low-grade glioma – Nasopharyngeal cancer – Osteosarcoma – Ovarian germ cell tumours – Testicular germ cell tumours
cyclophosphamide	Powder for injection: 500 mg; 1 g; 2 g in vial. Solid oral dosage form: 25 mg; 50 mg. – Acute lymphoblastic leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma – Diffuse large B-cell lymphoma – Ewing sarcoma – Hodgkin lymphoma – Low-grade glioma – Nephroblastoma (Wilms tumour) – Rhabdomyosarcoma

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cytarabine	<p>Injection: 100 mg/mL in vial.</p> <p>Powder for injection: 100 mg in vial.</p> <ul style="list-style-type: none"> – Acute lymphoblastic leukaemia – Acute myeloid leukaemia – Acute promyelocytic leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma – Langerhans cell histiocytosis
dacarbazine	<p>Powder for injection: 100 mg; 200 mg in vial.</p> <ul style="list-style-type: none"> – Hodgkin lymphoma
dactinomycin	<p>Powder for injection: 500 micrograms in vial.</p> <ul style="list-style-type: none"> – Ewing sarcoma – Nephroblastoma (Wilms tumour) – Rhabdomyosarcoma
daunorubicin	<p>Injection: 2 mg/mL; 5 mg/mL (as hydrochloride) in vial.</p> <p>Powder for injection: 20 mg; 50 mg (as hydrochloride) in vial.</p> <ul style="list-style-type: none"> – Acute lymphoblastic leukaemia – Acute promyelocytic leukaemia
doxorubicin	<p>Injection: 2 mg/mL (hydrochloride) in vial.</p> <p>Powder for injection: 10 mg; 50 mg (hydrochloride) in vial.</p> <ul style="list-style-type: none"> – Acute lymphoblastic leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma – Diffuse large B-cell lymphoma – Ewing sarcoma – Hodgkin lymphoma – Kaposi sarcoma – Nephroblastoma (Wilms tumour) – Osteosarcoma
doxorubicin (as pegylated liposomal)	<p>Injection: 2 mg/mL (hydrochloride) in 10 mL, 25 mL vial.</p> <ul style="list-style-type: none"> – Kaposi sarcoma
etoposide	<p>Capsule: 50 mg; 100 mg.</p> <p>Injection: 20 mg/mL in 5 mL ampoule.</p> <p>Powder for injection: 100 mg (as phosphate) in vial.</p> <ul style="list-style-type: none"> – Acute lymphoblastic leukaemia – Acute myeloid leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma – Ewing sarcoma – Hodgkin lymphoma – Nephroblastoma (Wilms tumour) – Osteosarcoma – Ovarian germ cell tumours – Retinoblastoma – Testicular germ cell tumours

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<i>fluorouracil</i>	Injection: 50 mg/mL in vial. – Early stage colon cancer – Early stage rectal cancer – Metastatic colorectal cancer – Nasopharyngeal cancer
<i>hydroxyurea (hydroxycarbamide)</i>	Solid oral dosage form: 100 mg; 200 mg; 300 mg; 400 mg; 500 mg; 1 g. – Chronic myeloid leukaemia
<i>ifosfamide</i>	Powder for injection: 500 mg; 1 g; 2 g in vial. – Anaplastic large cell lymphoma – Burkitt lymphoma – Ewing sarcoma – Nephroblastoma (Wilms tumour) – Osteosarcoma – Ovarian germ cell tumours – Rhabdomyosarcoma – Testicular germ cell tumours
<i>irinotecan</i>	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 – Nephroblastoma (Wilms tumour) – Rhabdomyosarcoma
<i>mercaptopurine</i>	Tablet: 50 mg. Oral liquid: 20 mg/mL. – Acute lymphoblastic leukaemia – Acute promyelocytic leukaemia – Langerhans cell histiocytosis
<i>methotrexate</i>	Concentrated injection: 1000 mg/10 mL. Injection: 50 mg/2 mL. Powder for injection: 50 mg (as sodium) in vial. Tablet: 2.5 mg (as sodium). – Acute lymphoblastic leukaemia – Acute promyelocytic leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma – Langerhans cell histiocytosis – Osteosarcoma
<i>oxaliplatin</i>	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. Powder for injection: 50 mg; 100 mg in vial. – Early stage colon cancer – Metastatic colorectal cancer
<i>paclitaxel</i>	Injection: 6 mg/mL in vial. – Ovarian germ cell tumours

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pegaspargase* *including quality-assured biosimilars	Injection: 3750 units/5 mL in vial. Powder for injection: 3750 units in vial. – Acute lymphoblastic leukaemia.
procarbazine	Capsule: 50 mg (as hydrochloride). – Hodgkin lymphoma
realgar-Indigo naturalis formulation	Tablet: 270 mg (containing tetra-arsenic tetra-sulfide 30 mg) – Acute promyelocytic leukaemia
tioguanine	Solid oral dosage form: 40 mg. – Acute lymphoblastic leukaemia
vinblastine	Injection: 10 mg/10 mL (sulfate) in vial. Powder for injection: 10 mg (sulfate) in vial. – Anaplastic large cell lymphoma – Hodgkin lymphoma – Langerhans cell histiocytosis – Low-grade glioma – Ovarian germ cell tumours – Testicular germ cell tumours
vincristine	Injection: 1 mg/mL (sulfate); 2 mg/2 mL (sulfate) in vial. Powder for injection: 1 mg; 5 mg (sulfate) in vial. – Acute lymphoblastic leukaemia – Burkitt lymphoma. – Diffuse large B-cell lymphoma – Ewing sarcoma – Hodgkin lymphoma – Kaposi sarcoma – Langerhans cell histiocytosis – Low-grade glioma – Nephroblastoma (Wilms tumour) – Retinoblastoma – Rhabdomyosarcoma
vinorelbine	Capsule: 20 mg; 30 mg. Injection: 10 mg/mL in 1 mL, 5 mL vial. – Rhabdomyosarcoma
8.2.2 Targeted therapies	
Complementary List	
all-trans retinoid acid (ATRA)	Capsule: 10 mg. – Acute promyelocytic leukaemia
dasatinib	Tablet: 20 mg; 50 mg; 70 mg; 80 mg. – Imatinib-resistant chronic myeloid leukaemia
everolimus	Tablet: 2.5 mg; 5 mg; 7.5 mg; 10 mg. Tablet (dispersible): 2 mg; 3 mg; 5 mg. – Subependymal giant cell astrocytoma

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<i>imatinib</i>	Solid oral dosage form: 100 mg; 400 mg. <ul style="list-style-type: none"> – Chronic myeloid leukaemia – Gastrointestinal stromal tumour – Philadelphia chromosome positive acute lymphoblastic leukaemia
<i>nilotinib</i>	Capsule: 150 mg; 200 mg. <ul style="list-style-type: none"> – Imatinib-resistant chronic myeloid leukaemia
<i>rituximab*</i> <i>*including quality-assured biosimilars</i>	Injection (intravenous): 100 mg/10 mL in 10 mL vial; 500 mg/50 mL in 50 mL vial. <ul style="list-style-type: none"> – Burkitt lymphoma – Diffuse large B-cell lymphoma
8.2.3 Immunomodulators	
Complementary List	
<i>blinatumomab*</i> <i>*including quality-assured biosimilars</i>	Powder for concentrate for solution for infusion: 35 micrograms; 38.5 micrograms in vial. <ul style="list-style-type: none"> – B-cell acute lymphoblastic leukemia
<i>filgrastim*</i> <i>*including quality-assured biosimilars</i>	Injection: 120 micrograms/0.2 mL; 300 micrograms/0.5 mL; 480 micrograms/0.8 mL in pre-filled syringe. Injection: 300 micrograms/mL in 1 mL vial; 480 micrograms/1.6 mL in 1.6 mL vial. <ul style="list-style-type: none"> – 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
<i>pegfilgrastim*</i> <i>*including quality-assured biosimilars</i>	Injection: 6 mg/0.6 mL in pre-filled syringe. <ul style="list-style-type: none"> – 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	
Complementary List	
<i>dexamethasone</i>	Injection: 4 mg/mL dexamethasone phosphate (as sodium phosphate) (equivalent to 3.3 mg/mL dexamethasone base) in 1 mL ampoule. Oral liquid: 2 mg/5 mL (as sodium phosphate). Tablet: 2 mg; 4 mg (as dexamethasone base). <ul style="list-style-type: none"> – Acute lymphoblastic leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma

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hydrocortisone	Powder for injection: 100 mg (as sodium succinate) in vial. – Acute lymphoblastic leukaemia – Burkitt lymphoma
methylprednisolone	Powder for injection: 40 mg (as sodium succinate); 125 mg (as sodium succinate) in vial. – Acute lymphoblastic leukaemia – Burkitt lymphoma
<input type="checkbox"/> prednisolone Therapeutic alternatives: – prednisone	Oral liquid: 5 mg/mL. Tablet: 5 mg; 25 mg. – Acute lymphoblastic leukaemia – Anaplastic large cell lymphoma – Burkitt lymphoma – Diffuse large B-cell lymphoma – Hodgkin lymphoma – Langerhans cell histiocytosis
8.2.5 Supportive medicines	
Complementary List	
allopurinol	Powder for injection: 500 mg (as sodium). Tablet: 100 mg; 300 mg. – Tumour lysis syndrome
mesna	Injection*: 100 mg/mL in 4 mL, 10 mL ampoule. Tablet: 400 mg; 600 mg. *May also be used for oral administration. – Burkitt lymphoma – Ewing sarcoma – Nephroblastoma (Wilms tumour) – Osteosarcoma – Ovarian germ cell tumours – Rhabdomyosarcoma – Testicular germ cell tumours
rasburicase	Powder and solvent for solution for infusion: 1.5 mg (with 1 mL solvent); 7.5 mg (with 5 mL solvent) in vial. – Tumour lysis syndrome
9. THERAPEUTIC FOODS	
ready-to-use therapeutic food	Biscuit or paste*. *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 Antianaemia medicines	
ferrous salt	Oral liquid: equivalent to 9 mg/mL elemental iron; equivalent to 25 mg/mL elemental iron. Tablet: equivalent to 60 mg – 65 mg elemental iron.

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folic acid	Oral liquid: 1 mg/mL. Tablet: 1 mg; 5 mg.
hydroxocobalamin	Injection: 1 mg/mL (as acetate, as hydrochloride or as sulfate) in 1 mL ampoule.
Complementary List	
<input type="checkbox"/> erythropoiesis-stimulating agents Therapeutic alternatives: - epoetin alfa, beta and theta - darbepoetin alfa *including quality-assured biosimilars	Injection: pre-filled syringe 1000 IU/0.5 mL; 2000 IU/0.5 mL; 3000 IU/0.3 mL; 4000 IU/0.4 mL; 5000 IU/0.5 mL; 6000 IU/0.6 mL; 8000 IU/0.8 mL; 10 000 IU/1 mL; 20 000 IU/0.5 mL; 40 000 IU/1 mL.
10.2 Medicines affecting coagulation	
desmopressin	Injection: 4 micrograms/mL (acetate) in 1 mL ampoule. Nasal spray: 150 micrograms (acetate) per actuation.
emicizumab	Injection: 12 mg/0.4 mL; 30 mg/mL; 60 mg/0.4 mL in vial.
<input type="checkbox"/> enoxaparin* Therapeutic alternatives*: - dalteparin - nadroparin *including quality-assured biosimilars	Injection: ampoule or pre-filled syringe 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.
phytomenadione	Injection: 1 mg/0.5 mL; 1 mg/mL; 10 mg/mL in ampoule. Injection (mixed micelle solution): 2 mg/0.2 mL; 10 mg/mL in ampoule. Tablet: 5 mg.
Complementary List	
heparin sodium	Injection: 1000 IU/mL; 5000 IU/mL in 1 mL ampoule or vial.
protamine sulfate	Injection: 10 mg/mL in 5 mL ampoule or vial.
<input type="checkbox"/> warfarin Therapeutic alternatives: - acenocoumarol	Tablet (scored): 0.5 mg; 1 mg; 2 mg; 3 mg; 5 mg (sodium).
10.3 Medicines for haemoglobinopathies	
10.3.1 Medicines for sickle-cell disease	
<input type="checkbox"/> deferasirox Therapeutic alternatives: - deferiprone	Tablet (dispersible): 100 mg; 125 mg; 250 mg; 400 mg; 500 mg. Tablet (film-coated): 90 mg; 180 mg; 360 mg.
Complementary list	
deferroxamine	Powder for injection: 500 mg (mesilate) in vial.
hydroxyurea (hydroxycarbamide)	Solid oral dosage form: 100 mg; 200 mg; 500 mg; 1 g.

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10.3.2 Medicines for thalassaemias	
<input type="checkbox"/> deferasirox Therapeutic alternatives: - deferiprone	Tablet (dispersible): 100 mg; 125 mg; 250 mg; 400 mg; 500 mg. Tablet (film-coated): 90 mg; 180 mg; 360 mg.
Complementary list	
<i>deferroxamine</i>	Powder for injection: 500 mg (mesilate) in vial.
11. BLOOD PRODUCTS, COAGULATION FACTORS, AND PLASMA SUBSTITUTES	
11.1 Blood and blood components	
<p>In accordance with the World Health Assembly resolution WHA63.12, WHO recognizes that 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.</p> <p>All blood and plasma-derived products should comply with the WHO requirements.</p>	
<input type="checkbox"/> cryoprecipitate, pathogen-reduced Therapeutic alternatives: - cryoprecipitate, native* *native cryoprecipitate should only be used in situations of life-threatening haemorrhage when pathogen-reduced cryoprecipitate is not available.	Injection: frozen liquid in bag or lyophilized powder in vial containing: <ul style="list-style-type: none"> - > 50 IU Factor VIII - > 100 IU vWF - > 140 mg clottable fibrinogen per unit
fresh-frozen plasma	
platelets	
red blood cells	
whole blood	
11.2 Human immunoglobulins	
anti-rabies immunoglobulin	Injection: 150 IU/mL in vial.
anti-tetanus immunoglobulin	Injection: 500 IU in vial.
Complementary List	
<i>normal immunoglobulin</i>	Intramuscular administration: 16% protein solution. Subcutaneous administration: 15%; 16% protein solution. <ul style="list-style-type: none"> - Primary immune deficiency. Intravenous administration: 5%; 10% protein solution. <ul style="list-style-type: none"> - Primary immune deficiency - Kawasaki disease - Langerhans cell histiocytosis
11.3 Coagulation factors	
coagulation factor VIII, plasma-derived	Powder for injection: 250 IU; 500 IU; 1000 IU in vial.
coagulation factor IX, plasma-derived	Powder for injection: 500 IU; 1000 IU in vial.
coagulation factor VIII, recombinant	Lyophilized powder for solution for injection: 250 IU, 500 IU, 1000 IU, 1500 IU, 2000 IU, 3000 IU, 4000 IU in vial.
coagulation factor IX, recombinant	Lyophilized powder for solution for injection: 250 IU, 500 IU, 1000 IU, 1500 IU, 2000 IU, 3000 IU, 4000 IU in vial.

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11.4 Plasma substitutes	
<input type="checkbox"/> dextran 70 Therapeutic alternatives: - Polygeline injectable solution 3.5%	Injectable solution: 6%.
12. CARDIOVASCULAR MEDICINES	
12.1 Antianginal medicines	
12.2 Antiarrhythmic medicines	
12.3 Antihypertensive medicines	
<input type="checkbox"/> enalapril Therapeutic alternatives: - 4 th level ATC chemical subgroup (C09AA ACE inhibitors, plain)	Oral liquid: 1 mg/mL (as hydrogen maleate). Tablet: 2.5 mg; 5 mg; 10 mg (as hydrogen maleate).
12.4 Medicines used in heart failure	
furosemide	Injection: 10 mg/mL in 2 mL, 5 mL ampoule. Oral liquid: 20 mg/5 mL; 50 mg/5 mL. Tablet: 20 mg; 40 mg.
<i>Complementary List</i>	
<i>digoxin</i>	<i>Injection: 100 micrograms/mL in 1 mL ampoule; 250 micrograms/mL in 2 mL ampoule.</i> <i>Oral liquid: 50 micrograms/mL.</i> <i>Tablet: 62.5 micrograms; 125 micrograms; 250 mg micrograms.</i>
<i>dopamine</i>	<i>Injection: 40 mg/mL (hydrochloride) in 5 mL vial.</i>
12.5 Antithrombotic medicines	
12.6 Lipid-lowering agents	
12.7 Fixed-dose combinations for prevention of atherosclerotic cardiovascular disease	
13. DERMATOLOGICAL MEDICINES	
13.1 Antifungal medicines	
<input type="checkbox"/> miconazole Therapeutic alternatives: - 4 th level ATC chemical subgroup (D01AC Imidazole and triazole derivatives) excluding combinations	Cream or ointment: 2% (nitrate).
selenium sulfide	Detergent-based suspension: 2%.
terbinafine	Cream or ointment: 1% (hydrochloride).

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13.2 Anti-infective medicines	
mupirocin	Cream: 2% (as calcium). Ointment: 2%.
potassium permanganate	Aqueous solution: 1:10 000.
silver sulfadiazine <input type="checkbox"/>	Cream: 1%. <input type="checkbox"/> > 2 months.
13.3 Anti-inflammatory and antipruritic medicines	
<input type="checkbox"/> betamethasone <input type="checkbox"/> Therapeutic alternatives: - 4 th level ATC chemical subgroup (D07AC Corticosteroids, potent (group III))	Cream or ointment: 0.1% (as valerate). <input type="checkbox"/> 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%.
<input type="checkbox"/> calcipotriol Therapeutic alternatives: - calcitriol - tacalcitol	Cream or ointment: 50 micrograms/mL (0.005%). Lotion: 50 micrograms/mL (0.005%).
coal tar	Solution: 5%.
<input type="checkbox"/> podophyllum resin Therapeutic alternatives: - podophyllotoxin	Solution: 10% to 25%.
salicylic acid	Solution: 5%.
urea	Cream or ointment: 5%; 10%.
Complementary List	
<input type="checkbox"/> <i>adalimumab</i> * Therapeutic alternatives*: - certolizumab pegol - etanercept - infliximab *including quality-assured biosimilars	Injection: 10 mg/0.2 mL; 20 mg/0.2 mL; 20 mg/0.4 mL; 40 mg/0.4 mL; 40 mg/0.8 mL; 80 mg/0.8 mL in pre-filled syringe or pre-filled pen.
<i>methotrexate</i>	Tablet: 2.5 mg; 10 mg (as sodium).
<i>ustekinumab</i> * *including quality-assured biosimilars	Injection: 45 mg/0.5 mL in vial or pre-filled syringe; 90 mg/mL in pre-filled syringe.

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13.5 Scabicides and pediculicides	
<input type="checkbox"/> benzyl benzoate ^a Therapeutic alternatives: - precipitated sulfur topical ointment	Lotion: 25%. ^a > 2 years.
permethrin	Cream: 5%. Lotion: 1%.
13.6 Moisturizers	
urea	Cream: 5%.
glycerol	Cream: 10% to 20%.
13.7 Sunscreens	
sunscreen, broad-spectrum	Topical: Therapeutic broad-spectrum sunscreens should contain proven active ingredients in appropriate amounts to absorb or filter UVA and UVB radiation, and have a high sun protection factor (SPF).
14. DIAGNOSTIC AGENTS	
14.1 Ophthalmic medicines	
fluorescein	Eye drops: 1% (sodium salt).
<input type="checkbox"/> tropicamide Therapeutic alternatives: - atropine - cyclopentolate	Eye drops: 0.5%.
14.2 Radiocontrast media	
<i>Complementary List</i>	
<i>barium sulfate</i>	<i>Aqueous suspension.</i>
15. ANTISEPTICS AND DISINFECTANTS	
15.1 Antiseptics	
<input type="checkbox"/> chlorhexidine Therapeutic alternatives to be reviewed	Solution: 5% (digluconate).
<input type="checkbox"/> ethanol Therapeutic alternatives: - propanol	Solution: 70% (denatured).
<input type="checkbox"/> povidone iodine Therapeutic alternatives: - iodine	Solution: 10% (equivalent to 1% available iodine).

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15.2 Disinfectants	
alcohol based hand rub	<p>Solution containing ethanol 80% volume /volume.</p> <p>Solution containing isopropyl alcohol 75% volume/volume.</p>
chlorine base compound	<p>Liquid: (0.1% available chlorine) for solution.</p> <p>Powder: (0.1% available chlorine) for solution.</p> <p>Solid: (0.1% available chlorine) for solution.</p>
<input type="checkbox"/> chloroxylenol Therapeutic alternatives: - 4 th level ATC chemical subgroup (D08AE Phenol and derivatives)	Solution: 4.8%.
glutaral	Solution: 2%.
hypochlorous acid	Solution (aqueous): containing hypochlorous acid \geq 150 parts per million.
16. DIURETICS	
furosemide	<p>Injection: 10 mg/mL in 2 mL, 5 mL ampoule.</p> <p>Oral liquid: 20 mg/5 mL; 50 mg/5 mL.</p> <p>Tablet: 20 mg; 40 mg.</p>
<i>Complementary List</i>	
<input type="checkbox"/> hydrochlorothiazide Therapeutic alternatives: - chlorothiazide - chlortalidone	Solid oral dosage form: 12.5 mg; 25 mg.
mannitol	Solution for infusion: 10%; 20%.
spironolactone	<p>Oral liquid: 25 mg/5 mL.</p> <p>Tablet: 12.5 mg; 25 mg.</p>
17. GASTROINTESTINAL MEDICINES	
<i>Complementary List</i>	
pancreatic enzymes	<p>Capsule (modified release)*: 10 000 lipase units + 8000 amylase units + 600 protease units; 25 000 lipase units + 18 000 amylase units + 1000 protease units.</p> <p><i>*Units expressed in Ph.Eur.</i></p>
17.1 Antiulcer medicines	
<input type="checkbox"/> omeprazole Therapeutic alternatives: - 4 th level ATC chemical subgroup (A02BC Proton pump inhibitors) excluding combinations	<p>Powder for oral liquid: 1 mg/mL; 4 mg/mL.</p> <p>Solid oral dosage form: 10 mg; 20 mg; 40 mg.</p>
<input type="checkbox"/> ranitidine Therapeutic alternatives: - 4 th level ATC chemical subgroup (A02BA H ₂ -receptor antagonists) excluding combinations	<p>Injection: 25 mg/mL (as hydrochloride) in 2 mL ampoule.</p> <p>Oral liquid: 75 mg/5 mL (as hydrochloride).</p> <p>Tablet: 150 mg (as hydrochloride).</p>

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17.2 Antiemetic medicines																					
dexamethasone	<p>Injection: 4 mg/mL dexamethasone phosphate (as sodium phosphate salt) (equivalent to 3.3 mg/mL dexamethasone base) in 1 mL ampoule.</p> <p>Oral liquid: 0.5 mg/5 mL; 2 mg/5 mL (as sodium phosphate).</p> <p>Tablet: 0.5 mg; 0.75 mg; 1.5 mg; 2 mg; 4 mg (as dexamethasone base).</p>																				
metoclopramide	<p>Injection: 5 mg/mL (hydrochloride) in 2 mL ampoule.</p> <p>Oral liquid: 5 mg/5 mL.</p> <p>Tablet (scored): 10 mg (hydrochloride).</p>																				
<p>□ ondansetron</p> <p>Therapeutic alternatives:</p> <ul style="list-style-type: none"> - dolasetron - granisetron - palonosetron - tropisetron 	<p>Injection: 2 mg/mL in 2 mL, 4 mL ampoule (as hydrochloride dihydrate).</p> <p>Oral liquid: 4 mg/5 mL (as hydrochloride dihydrate).</p> <p>Solid oral dosage form: 4 mg; 8 mg (as hydrochloride dihydrate).</p>																				
Complementary list																					
aprepitant	Powder for oral suspension: 125 mg in sachet																				
17.3 Anti-inflammatory medicines																					
17.4 Laxatives																					
17.5 Medicines used in diarrhoea																					
oral rehydration salts – zinc sulfate	<p>Co-package containing:</p> <p>ORS powder for dilution (see Section 17.5.1) – zinc sulfate tablet (dispersible, scored) 20 mg (see Section 17.5.2)</p>																				
17.5.1 Oral rehydration																					
oral rehydration salts	<p>Powder for dilution in 200 mL; 500 mL; 1 L.</p> <table> <tr> <td>glucose:</td><td>75 mEq or mmol/L</td></tr> <tr> <td>sodium:</td><td>75 mEq or mmol/L</td></tr> <tr> <td>chloride:</td><td>65 mEq or mmol/L</td></tr> <tr> <td>potassium:</td><td>20 mEq or mmol/L</td></tr> <tr> <td>citrate:</td><td>10 mEq or mmol/L</td></tr> <tr> <td>osmolarity:</td><td>245 mOsm/L</td></tr> <tr> <td>glucose:</td><td>13.5 g/L</td></tr> <tr> <td>sodium chloride:</td><td>2.6 g/L</td></tr> <tr> <td>potassium chloride:</td><td>1.5 g/L</td></tr> <tr> <td>trisodium citrate dihydrate*:</td><td>2.9 g/L</td></tr> </table> <p>*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.</p>	glucose:	75 mEq or mmol/L	sodium:	75 mEq or mmol/L	chloride:	65 mEq or mmol/L	potassium:	20 mEq or mmol/L	citrate:	10 mEq or 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
glucose:	75 mEq or mmol/L																				
sodium:	75 mEq or mmol/L																				
chloride:	65 mEq or mmol/L																				
potassium:	20 mEq or mmol/L																				
citrate:	10 mEq or 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																				
17.5.2 Medicines for diarrhoea																					
zinc sulfate*	<p>Tablet (dispersible, scored): 20 mg.</p> <p>*In acute diarrhoea, zinc sulfate should be used as an adjunct to oral rehydration salts.</p>																				

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18. MEDICINES FOR ENDOCRINE DISORDERS	
18.1 Adrenal hormones and synthetic substitutes	
fludrocortisone	Oral liquid: 100 micrograms/mL (acetate). Tablet: 100 micrograms (acetate).
hydrocortisone	Granules: 0.5 mg; 1 mg; 2 mg; 5 mg in capsule. Tablet: 5 mg; 10 mg; 20 mg.
<input type="checkbox"/> prednisolone Therapeutic alternatives: - prednisone	Tablet: 1 mg.
18.2 Androgens	
18.3 Estrogens	
18.4 Progestogens	
18.5 Medicines for diabetes	
18.5.1 Insulins	
<input type="checkbox"/> insulin (analogue, long-acting)* Therapeutic alternatives: - insulin glargine - insulin degludec - insulin detemir <i>*including quality-assured biosimilars</i>	Injection solution: 100 IU/mL in 10 mL vial; 100 IU/mL in 3 mL cartridge or pre-filled pen.
<input type="checkbox"/> insulin (analogue, rapid-acting)* Therapeutic alternatives: - insulin lispro - insulin aspart - insulin glulisine <i>*including quality-assured biosimilars</i>	Injection solution: 100 IU/mL in 10 mL vial; 100 IU/mL in 3 mL cartridge or pre-filled pen.
insulin (human, intermediate-acting)* <i>*including quality-assured biosimilars</i>	Injection suspension: 40 IU/mL in 10 mL vial; 100 IU/mL in 10 mL vial; 100 IU/mL in 3 mL cartridge or pre-filled pen (as compound insulin zinc suspension or isophane insulin).
insulin (human, short-acting)* <i>*including quality-assured biosimilars</i>	Injection solution: 40 IU/mL in 10 mL vial; 100 IU/mL in 10 mL vial; 100 IU/mL in 3 mL cartridge or pre-filled pen.
18.5.2 Hypoglycaemic agents	
Complementary List	
<i>metformin</i>	Tablet: 500 mg (hydrochloride).
18.6 Medicines for hypoglycaemia	
glucagon	Injection: 1 mg/mL as powder and diluent.

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<i>Complementary List</i>	
<i>diazoxide</i>	<i>Oral liquid: 50 mg/mL</i> <i>Tablet: 50 mg</i>
18.7 Thyroid hormones and antithyroid medicines	
levothyroxine	Tablet: 25 micrograms; 50 micrograms; 100 micrograms (sodium salt).
<i>Complementary List</i>	
<i>iodine + potassium iodide (Lugol's solution)</i>	<i>Oral liquid (aqueous): 5% w/v + 10% w/v.</i>
□ <i>methimazole</i> <i>Therapeutic alternatives:</i> <i>- carbimazole (depending on local availability)</i>	<i>Tablet: 5 mg; 10 mg.</i>
<i>potassium iodide</i>	<i>Tablet (scored): 65 mg.</i>
<i>propylthiouracil*</i>	<i>Tablet: 50 mg.</i> <i>*For use when alternative first-line treatment is not appropriate or available</i>
18.8 Medicines for disorders of the pituitary hormone system	
19. IMMUNOLOGICALS	
19.1 Diagnostic agents	
All tuberculins should comply with the WHO requirements for tuberculins.	
tuberculin, purified protein derivative (PPD)	Injection.
19.2 Sera, immunoglobulins and monoclonal antibodies	
All plasma fractions should comply with the WHO requirements.	
anti-rabies virus monoclonal antibodies* <i>*including quality-assured biosimilars</i>	Injection: 40 IU/mL in 1.25 mL, 2.5 mL vial; 100 IU/mL in 2.5 mL vial (human). Injection: 300 IU/mL in 10 mL vial; 600 IU/mL in 1 mL, 2.5 mL and 5 mL vial (murine).
antivenom immunoglobulin*	Injection. <i>*Exact type to be defined locally.</i>
diphtheria antitoxin	Injection: 10 000 IU; 20 000 IU in vial.
equine rabies immunoglobulin	Injection: 150 IU/mL; 200 IU/mL; 300 IU/mL; 400 IU/mL in vial

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19.3 Vaccines

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

WHO vaccine position papers are periodically revised to assess the need for an update. The list below details the vaccines for which there is a recommendation from WHO and a corresponding WHO vaccine position paper as at May 2025. 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: <https://www.who.int/teams/immunization-vaccines-and-biologicals/policies/position-papers>

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: <https://www.who.int/teams/immunization-vaccines-and-biologicals/policies/who-recommendations-for-routine-immunization---summary-tables>

Vaccines included on the Model Lists reflect the recommendations of SAGE, as per the available policy reflected in the WHO vaccine position papers.

Countries are encouraged to consider inclusion of specific vaccines into their national immunization schedule based on national priorities by carefully assessing various criteria such as local burden of disease and disease epidemiology, acceptability, cost, cost-effectiveness, programmatic feasibility, regulatory status, and availability of products.

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

BCG vaccine	
cholera vaccine	
dengue vaccine	
diphtheria vaccine	
Ebola vaccine	
Haemophilus influenzae type b vaccine	
hepatitis A vaccine	
hepatitis B vaccine	
human papilloma virus (HPV) vaccine	
influenza vaccine (seasonal)	
Japanese encephalitis vaccine	
malaria vaccine	
measles vaccine	
meningococcal meningitis vaccine	
mpox vaccine	
mumps vaccine	
pertussis vaccine	
pneumococcal vaccine	
poliomyelitis vaccine	
rabies vaccine	
rotavirus vaccine	
rubella vaccine	
tetanus vaccine	
tick-borne encephalitis vaccine	

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typhoid vaccine	
varicella vaccine	
yellow fever vaccine	
20. MUSCLE RELAXANTS (PERIPHERALLY-ACTING) AND CHOLINESTERASE INHIBITORS	
neostigmine	Injection: 500 micrograms/mL (methylsulfate) in 1 mL ampoule; 2.5 mg/mL (methylsulfate) in 1 mL ampoule.
suxamethonium	Injection: 50 mg/mL (chloride) in 2 mL ampoule.
<input type="checkbox"/> vecuronium Therapeutic alternatives: - atracurium	Powder for injection: 10 mg (bromide) in vial.
<i>Complementary List</i>	
<i>pyridostigmine</i>	Injection: 5 mg/mL (bromide) in ampoule or vial. Tablet (scored): 60 mg (bromide).
21. OPHTHALMOLOGICAL PREPARATIONS	
21.1 Anti-infective agents	
aciclovir	Ointment: 3% w/w.
azithromycin	Solution (eye drops): 1.5% – <i>Trachoma</i>
erythromycin	Ointment: 0.5%. – <i>Infections due to Chlamydia trachomatis or Neisseria gonorrhoeae.</i>
<input type="checkbox"/> gentamicin Therapeutic alternatives: - amikacin - kanamycin - netilmicin - tobramycin	Solution (eye drops): 0.3% (sulfate). – <i>Bacterial blepharitis</i> – <i>Bacterial conjunctivitis</i>
natamycin	Suspension (eye drops): 5% – <i>Fungal keratitis</i>
<input type="checkbox"/> ofloxacin Therapeutic alternatives: - 4 th level ATC chemical subgroup (S01AE Fluoroquinolones)	Solution (eye drops): 0.3%. – <i>Bacterial conjunctivitis</i> – <i>Bacterial keratitis</i>
<input type="checkbox"/> tetracycline Therapeutic alternatives: - chlortetracycline - oxytetracycline	Eye ointment: 1% (hydrochloride). – <i>Bacterial blepharitis</i> – <i>Bacterial conjunctivitis</i> – <i>Bacterial keratitis</i> – <i>Trachoma</i>
21.2 Anti-inflammatory agents	
<input type="checkbox"/> prednisolone Therapeutic alternatives to be reviewed	Solution (eye drops): 0.5% (sodium phosphate).
21.3 Local anaesthetics	

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<input type="checkbox"/> tetracaine ^a Therapeutic alternatives: - 4 th level ATC chemical subgroup (S01HA Local anaesthetics) excluding cocaine and combinations	Solution (eye drops): 0.5% (hydrochloride). <input type="checkbox"/> ^a Not in preterm neonates.
21.4 Miotics and antiglaucoma medicines	
21.5 Mydriatics	
<input type="checkbox"/> atropine ^a Therapeutic alternatives: - cyclopentolate hydrochloride - homatropine hydrobromide	Solution (eye drops): 0.1%; 0.5%; 1% (sulfate). <input type="checkbox"/> ^a > 3 months.
Complementary List	
<i>epinephrine (adrenaline)</i>	Solution (eye drops): 2% (as hydrochloride).
21.6 Anti-vascular endothelial growth factor (VEGF) preparations	
22. MEDICINES FOR REPRODUCTIVE HEALTH AND PERINATAL CARE	
22.1 Contraceptives	
22.2 Ovulation inducers	
22.3 Uterotonics	
22.4 Medicines for medical abortion	
22.5 Antioxytocics (tocolytics)	
22.6 Other medicines administered to the mother	
22.7 Medicines administered to the neonate	
caffeine citrate	Injection: 20 mg/mL (equivalent to 10 mg caffeine base/mL). Oral liquid: 20 mg/mL (equivalent to 10 mg caffeine base/mL).
chlorhexidine	Solution or gel: 7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care).
Complementary List	
<input type="checkbox"/> alprostadil (prostaglandin E1) Therapeutic alternatives: - dinoprostone (prostaglandin E2)	Solution for injection: 0.5 mg/mL in alcohol.
<i>beractant</i>	Suspension for intratracheal instillation: 25 mg/mL.
<input type="checkbox"/> ibuprofen Therapeutic alternatives: - indometacin	Solution for injection: 5 mg/mL.
<i>poractant alfa</i>	Suspension for intratracheal instillation: 80 mg/mL.
23. PERITONEAL DIALYSIS SOLUTION	
Complementary List	
<i>intraperitoneal dialysis solution</i>	Solution: of appropriate composition in accordance with local clinical guidelines.
24. MEDICINES FOR MENTAL AND BEHAVIOURAL DISORDERS	

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24.1 Medicines for psychotic disorders	
24.2 Medicines for mood disorders	
24.2.1 Medicines for depressive disorders	
24.2.2 Medicines for bipolar disorders	
24.3 Medicines for anxiety disorders	
24.4 Medicines for obsessive compulsive disorders	
24.5 Medicines for disorders due to psychoactive substance use	
24.5.1 Medicines for alcohol use disorders	
24.5.2 Medicines for nicotine use disorders	
24.5.3 Medicines for opioid use disorders	
25. MEDICINES ACTING ON THE RESPIRATORY TRACT	
25.1 Antiasthmatic medicines	
<input type="checkbox"/> budesonide Therapeutic alternatives: - beclometasone - ciclesonide - fluticasone - mometasone	Powder for inhalation: 100 micrograms per actuation; 200 micrograms per actuation in dry powder inhaler. Suspension for inhalation: 100 micrograms per actuation; 200 micrograms per actuation in pressurized metered-dose inhaler.
epinephrine (adrenaline)	Injection: 1 mg/mL (as hydrochloride or hydrogen tartrate) in 1 mL ampoule.
<input type="checkbox"/> salbutamol Therapeutic alternatives: - terbutaline	Injection: 500 micrograms/mL (as sulfate) in 1 mL, 5 mL ampoule. Solution for inhalation: 100 micrograms (as sulfate) per actuation in pressurized metered-dose inhaler; 2.5 mg/2.5 mL, 5 mg/2.5 mL (as sulfate) in 2.5 mL single-dose ampoules for use in nebulizers; 5 mg/mL (as sulfate) in multi-dose bottle for use in nebulizers.
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.

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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.
<input type="checkbox"/> colecalciferol Therapeutic alternatives: - ergocalciferol	Oral liquid: 400 IU/mL. Solid oral dosage form: 400 IU; 1000 IU.
iodine	Iodized oil: 480 mg iodine/mL in 10 mL ampoule or vial (oral or injectable).
multiple micronutrient powder	Sachets containing: - iron (elemental) 12.5 mg (as coated ferrous fumarate) - zinc (elemental) 5 mg - vitamin A 300 micrograms - with or without other micronutrients at recommended daily values
pyridoxine	Tablet: 10 mg; 25 mg (hydrochloride).
retinol	Soft capsule: 100 000 IU; 200 000 IU (as acetate or palmitate). Oral liquid: 100 000 IU/mL (as palmitate). Water-miscible injection: 50 000 IU/mL (as palmitate) in 2 mL ampoule or vial.
riboflavin	Tablet: 5 mg.
thiamine	Injection: 50 mg/mL (hydrochloride) in ampoule or vial. Tablet: 50 mg (hydrochloride).
Complementary List	
calcium gluconate	Injection: 100 mg/mL in 10 mL ampoule.

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28. EAR, NOSE AND THROAT MEDICINES	
acetic acid	Solution (ear drops): 2%.
<input type="checkbox"/> budesonide Therapeutic alternatives to be reviewed	Nasal spray: 32 micrograms; 64 micrograms per actuation.
<input type="checkbox"/> ciprofloxacin Therapeutic alternatives: - ofloxacin	Solution (ear drops): 0.3% (as hydrochloride).
<input type="checkbox"/> xylometazoline Therapeutic alternatives to be reviewed	Nasal drops: 0.05%. Nasal spray: 0.05%.
29. MEDICINES FOR DISEASES OF JOINTS	
29.1 Medicines used to treat gout	
29.2 Disease-modifying anti-rheumatic drugs (DMARDs)	
<i>Complementary List</i>	
hydroxychloroquine	Solid oral dosage form: 200 mg (as sulfate).
methotrexate	Tablet: 2.5 mg (as sodium).
29.3 Medicines for juvenile joint diseases	
<i>Complementary List</i>	
acetylsalicylic acid*	Suppository: 150 mg; 300 mg. Tablet: 75 mg to 500 mg. Tablet (dispersible): 75 mg; 300 mg; 500 mg. *For use for rheumatic fever, juvenile arthritis, Kawasaki disease.
<input type="checkbox"/> adalimumab* Therapeutic alternatives*: - etanercept - infliximab *including quality-assured biosimilars	Injection: 10 mg/0.2 mL; 20 mg/0.2 mL; 20 mg/0.4 mL; 40 mg/0.4 mL; 40 mg/0.8 mL in pre-filled syringe or pre-filled pen.
methotrexate	Tablet: 2.5 mg (as sodium).
<input type="checkbox"/> triamcinolone hexacetonide Therapeutic alternatives: - triamcinolone acetonide	Injection: 20 mg/mL in vial.

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30. DENTAL MEDICINES AND PREPARATIONS	
fluoride	<p>Gel: containing 2500 to 12 500 ppm fluoride (any type).</p> <p>Mouthrinse: containing 230 to 900 ppm fluoride (any type).</p> <p>Toothpaste, cream or gel: containing 1000 to 1500 ppm fluoride (any type).</p> <p>Varnish: containing 22 500 ppm fluoride (any type).</p>
glass ionomer cement	<p>Single-use capsules: 0.4 g powder + 0.09 mL liquid.</p> <p>Multi-use bottle: powder + liquid.</p> <p>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.</p>
resin-based composite (low-viscosity)*	<p>Single-use applicator or multi-use bottle</p> <p>*of any type for use as dental sealant.</p>
resin-based composite (high-viscosity)*	<p>Single-use capsule or multi-use syringe</p> <p>*of any type for use as dental filling material.</p>
silver diamine fluoride	<p>Solution: 38% w/v.</p>

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insulin (analogue, rapid-acting)	37	nitrous oxide.....	1
insulin (human, intermediate-acting)	37	<i>normal immunoglobulin</i>	7, 31
insulin (human, short-acting).....	37	nystatin	17
<i>intraperitoneal dialysis solution</i>	41	ofloxacin.....	40
iodine	43	omeprazole	35
<i>iodine + potassium iodide (Lugol's solution)</i>	38	ondansetron	3, 36
<i>irinotecan</i>	26	oral rehydration salts	36, 42
isoflurane.....	1	oral rehydration salts – zinc sulfate.....	36
isoniazid	16	<i>oseltamivir</i>	19
isoniazid + pyrazinamide + rifampicin	16	<i>oxaliplatin</i>	26
isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	19	<i>oxamniquine</i>	8
isoniazid + rifampicin	16	oxygen	1
isoniazid + rifapentine	16		

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<i>paclitaxel</i>	26	rubella vaccine	39
p-aminosalicylate sodium	17	salbutamol	42
<i>pancreatic enzymes</i>	23, 35	salicylic acid	33
paracetamol (acetaminophen)	2, 6	selenium sulfide	32
paromomycin	20	senna	3
<i>pegaspargase</i>	27	sevoflurane	1
<i>pegfilgrastim</i>	28	silver diamine fluoride	45
pentamidine	22	silver sulfadiazine	33
permethrin	34	<i>sodium calcium edetate</i>	4
pertussis vaccine	39	sodium chloride	43
phenobarbital	5	sodium hydrogen carbonate	43
phenoxymethylpenicillin	13	sodium lactate, compound solution	43
phenytoin	5	sodium stibogluconate	20
phytomenadione	30	sofosbuvir	19
piperacillin + tazobactam	15	sofosbuvir + velpatasvir	19
platelets	31	<i>spironolactone</i>	35
pneumococcal vaccine	39	streptomycin	17
podophyllum resin	33	<i>succimer</i>	4
poliomyelitis vaccine	39	sulfadiazine	21
<i>polymyxin B</i>	15	sulfadoxine + pyrimethamine	21
<i>poractant alfa</i>	41	sulfamethoxazole + trimethoprim	13, 22
potassium chloride	42, 43	sunscreen, broad-spectrum	34
<i>potassium iodide</i>	18, 38	suramin sodium	22
potassium permanganate	33	suxamethonium	40
povidone iodine	34	<i>tacrolimus</i>	23
praziquantel	8	terbinafine	32
prednisolone	3, 5, 29, 37, 40	tetanus vaccine	39
primaquine	21	tetracaine	41
procaine benzylpenicillin	13	tetracycline	40
<i>procarbazine</i>	27	thiamine	43
propofol	1	tick-borne encephalitis vaccine	39
propranolol	6	<i>tioguanine</i>	27
<i>propylthiouracil</i>	38	<i>triamcinolone hexacetonide</i>	44
<i>protamine sulfate</i>	30	triclabendazole	8
pyrantel	8	trimethoprim	13
pyrazinamide	17	tropicamide	34
<i>pyridostigmine</i>	7, 40	tuberculin, purified protein derivative (PPD)	38
pyridoxine	43	typhoid vaccine	40
pyrimethamine	21	urea	33, 34
quinine	21	<i>ustekinumab</i>	33
rabies vaccine	39	<i>valganciclovir</i>	19
raltegravir	19	valproic acid (sodium valproate)	5
ranitidine	35	vancomycin	15
<i>rasburicase</i>	29	varicella vaccine	40
ready-to-use therapeutic food	29	vecuronium	40
<i>realgar-Indigo naturalis formulation</i>	27	<i>vinblastine</i>	27
red blood cells	31	<i>vincristine</i>	27
resin-based composite (high-viscosity)	45	<i>vinorelbine</i>	27
resin-based composite (low-viscosity)	45	voriconazole	17
retinol	43	<i>warfarin</i>	30
riboflavin	43	water for injection	43
rifampicin	16, 17	whole blood	31
rifapentine	17	xylometazoline	44
ritonavir	18	yellow fever vaccine	40
<i>rituximab</i>	28	zidovudine	18
rotavirus vaccine	39	zinc sulfate	36

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