WHO Model List of Essential Medicines

19th List (April 2015) (Amended August 2015)

Status of this document

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http://www.who.int/medicines/publications/essentialmedicines/en/

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Explanatory notes

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 primarily intended to indicate similar clinical performance within a pharmacological class. The listed medicine should be the example of the class for which there is the best evidence for effectiveness and safety. In some cases, this may be the first medicine that is licensed for marketing; in other instances, subsequently licensed compounds may be safer or more effective. Where there is no difference in terms of efficacy and safety data, the listed medicine should be the one that is generally available at the lowest price, based on international drug price information sources. Not all square boxes are applicable to medicine selection for children — see the second EMLc for details.

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

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

Where the **[c]** symbol is placed next to the complementary list it signifies that the medicine(s) require(s) specialist diagnostic or monitoring facilities, and/or specialist medical care, and/or specialist training for their use in children.

Where the **[C]** symbol is placed next to an individual medicine or strength of medicine it signifies that there is a specific indication for restricting its use to children.

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

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

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

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

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* <u>http://www.who.int/medicines/publications/pharmacopoeia</u>.

1. ANAESTHETICS		
1.1 General anaesthetics and oxygen		
1.1.1 Inhalational medicines		
halothane	Inhalation.	
isoflurane	Inhalation.	
nitrous oxide	Inhalation.	
oxygen	Inhalation (medicinal gas).	
1.1.2 Injectable medicines		
ketamine	Injection: 50 mg (as hydrochloride)/ mL in 10- mL vial.	
	Injection: 10 mg/ mL; 20 mg/ mL.	
propofol*	* Thiopental may be used as an alternative depending on local availability and cost.	
1.2 Local anaesthetics		
D bupivacaine	Injection: 0.25%; 0.5% (hydrochloride) in vial.	
	Injection for spinal anaesthesia: 0.5% (hydrochloride) in 4- mL ampoule to be mixed with 7.5% glucose solution.	
	Injection: 1%; 2% (hydrochloride) in vial.	
□ lidocaine	Injection for spinal anaesthesia: 5% (hydrochloride) in 2- mL ampoule to be mixed with 7.5% glucose solution.	
	Topical forms: 2% to 4% (hydrochloride).	
	Dental cartridge: 2% (hydrochloride) + epinephrine 1:80 000.	
lidocaine + epinephrine (adrenaline)	Injection: 1%; 2% (hydrochloride or sulfate) + epinephrine 1:200 000 in vial.	
Complementary List		
ephedrine	<i>Injection:</i> 30 mg (hydrochloride)/ mL in 1- mL ampoule.	
epheurine	(For use in spinal anaesthesia during delivery, to prevent hypotension).	
1.3 Preoperative medication and sedation for short-term procedures		
atropine	Injection: 1 mg (sulfate) in 1- mL ampoule.	
	Injection: 1 mg/ mL.	
□ midazolam	Oral liquid: 2 mg/ mL [c].	
	Tablet: 7.5 mg; 15 mg.	
morphine	Injection: 10 mg (sulfate or hydrochloride) in 1- mL ampoule.	

2. MEDICINES FOR PAIN AND PALLIATIVE CARE			
2.1 Non-opioids and non-steroidal anti-in	nflammatory medicines (NSAIMs)		
acetylsalicylic acid	Suppository: 50 mg to 150 mg.		
	Tablet: 100 mg to 500 mg.		
	Oral liquid: 200 mg/5 mL.		
ibuprofen a	Tablet: 200 mg; 400 mg; 600 mg.		
	a Not in children less than 3 months.		
	Oral liquid: 125 mg/5 mL.		
	Suppository: 100 mg.		
paracetamol*	Tablet: 100 mg to 500 mg.		
	* Not recommended for anti-inflammatory use due to lack of proven benefit to that effect.		
2.2 Opioid analgesics			
codeine	Tablet: 30 mg (phosphate).		
	Granules (slow-release; to mix with water): 20 mg – 200 mg (morphine sulfate).		
	Injection: 10 mg (morphine hydrochloride or morphine sulfate) in 1- mL ampoule.		
	Oral liquid: 10 mg (morphine hydrochloride or morphine sulfate)/5 mL.		
□ morphine*	Tablet (slow release): 10 mg–200mg (morphine hydrochloride or morphine sulfate).		
	Tablet (immediate release): 10 mg (morphine sulfate).		
	*Alternatives limited to hydromorphone and oxycodone		
2.3 Medicines for other common symptoms in palliative care			
amitriptyline	Tablet: 10 mg; 25 mg; 75 mg.		
gyelizing [c]	Injection: 50 mg/ mL.		
cyclizine [C]	Tablet: 50 mg.		
	Injection: 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt).		
dexamethasone	Oral liquid : 2 mg/5 mL.		
	Tablet: 2 mg [C] ; 4 mg.		

	Injection: 5 mg/ mL.	
diazepam	Oral liquid: 2 mg/5 mL.	
	Rectal solution: 2.5 mg; 5 mg; 10 mg.	
	Tablet: 5 mg; 10 mg.	
	Capsule: 100 mg.	
docusate sodium	Oral liquid: 50 mg/5 mL.	
	Solid oral dosage form: 20 mg (as hydrochloride).	
fluoxetine a	a >8 years.	
	Injection: 5 mg in 1- mL ampoule.	
halanaridal	, , , , , , , , , , , , , , , , , , , ,	
haloperidol	Oral liquid: 2 mg/ mL.	
1 . 1 . 11 . 1	Solid oral dosage form: 0.5 mg; 2mg; 5 mg.	
hyoscine butylbromide	Injection: 20 mg/ mL.	
hyoscine hydrobromide [c]	Injection: 400 micrograms/ mL; 600 micrograms/ mL.	
	Transdermal patches: 1 mg/72 hours.	
lactulose [c]	Oral liquid: 3.1–3.7 g/5 mL.	
loperamide	Solid oral dosage form: 2 mg.	
	Injection: 5 mg (hydrochloride)/mL in 2-mL ampoule.	
metoclopramide	Oral liquid: 5 mg/5 mL.	
	Solid oral form: 10 mg (hydrochloride).	
	Injection: 1 mg/ mL; 5 mg/ mL.	
midazolam	Solid oral dosage form: 7.5 mg; 15 mg.	
	Oral liquid: 2mg/ mL [c].	
	Injection: 2 mg base/ mL in 2- mL ampoule (as hydrochloride).	
ondansetron [c] a	Oral liquid: 4 mg base/5 mL.	
	Solid oral dosage form: Eq 4 mg base; Eq 8 mg base.	
	a >1 month.	
senna	Oral liquid: 7.5 mg/5 mL.	
3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS		
dexamethasone	Injection: 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt).	
epinephrine (adrenaline)	Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1- mL ampoule.	
hydrocortisone	Powder for injection: 100 mg (as sodium succinate) in vial.	

	Oral liquid: 1 mg/ mL.	
□ loratadine *	Tablet: 10 mg.	
	*There may be a role for sedating antihistamines for limited indications (EMLc).	
□ prednisolone	Oral liquid: 5 mg/ mL [c].	
	Tablet: 5 mg; 25 mg.	
4. ANTIDOTES AND OTHER SUBSTANCES	USED IN POISONINGS	
4.1 Non-specific		
charcoal, activated	Powder.	
4.2 Specific	l	
	Injection: 200 mg/ mL in 10- mL ampoule.	
acetylcysteine	Oral liquid: 10% [c] ; 20% [c] .	
atropine	Injection: 1 mg (sulfate) in 1- mL ampoule.	
calcium gluconate	Injection: 100 mg/ mL in 10- mL ampoule.	
methylthioninium chloride (methylene blue)	Injection: 10 mg/ mL in 10- mL ampoule.	
naloxone	Injection: 400 micrograms (hydrochloride) in 1- mL ampoule.	
penicillamine	Solid oral dosage form: 250 mg.	
potassium ferric hexacyano-ferrate(II) - 2H2O(Prussian blue)	Powder for oral administration.	
sodium nitrite	Injection: 30 mg/ mL in 10- mL ampoule.	
sodium thiosulfate	Injection: 250 mg/ mL in 50- mL ampoule.	
Complementary List		
deferoxamine	Powder for injection: 500 mg (mesilate) in vial.	
dimercaprol	<i>Injection in oil:</i> 50 mg/ mL in 2- mL ampoule.	
fomepizole	<i>Injection:</i> 5 mg/ mL (sulfate) in 20- mL ampoule or 1 g/ mL (base) in 1.5- mL ampoule.	
sodium calcium edetate	<i>Injection:</i> 200 mg/ mL in 5- mL ampoule.	
succimer	Solid oral dosage form: 100 mg.	

5. ANTICONVULSANTS/ANTIEPILEPTICS		
carbamazepine	Oral liquid: 100 mg/5 mL.	
	Tablet (chewable): 100 mg; 200 mg.	
	Tablet (scored): 100 mg; 200 mg.	
diazepam	Gel or rectal solution: 5 mg/ mL in 0.5 mL; 2- mL; 4- mL tubes.	
□ lorazepam	Parenteral formulation: 2 mg/ mL in 1- mL ampoule; 4 mg/ mL in 1- mL ampoule.	
magnesium sulfate*	Injection: 0.5g/ mL in 2- mL ampoule (equivalent to 1 g in 2 mL; 50% weight/volume); 0.5g/ mL in 10- mL ampoule (equivalent to 5 g in 10 mL; 50% weight/volume).	
	* For use in eclampsia and severe pre-eclampsia and not for other convulsant disorders.	
	Solution for oromucosal administration: 5 mg/mL; 10 mg/mL	
midazolam	Ampoule*: 1 mg/ mL; 10 mg/mL	
	*for buccal administration when solution for oromucosal administration is not available	
	Injection: 200 mg/ mL (sodium).	
phenobarbital	Oral liquid: 15 mg/5 mL.	
	Tablet: 15 mg to 100 mg.	
	Injection: 50 mg/ mL in 5- mL vial (sodium salt).	
	Oral liquid: 25 mg to 30 mg/5 mL.*	
	Solid oral dosage form: 25 mg; 50 mg; 100 mg (sodium salt).	
phenytoin	Tablet (chewable): 50 mg.	
	* The presence of both 25 mg/5 mL and 30 mg/5 mL strengths on the same market would cause confusion in prescribing and dispensing and should be avoided.	
valproic acid (sodium valproate)	Oral liquid: 200 mg/5 mL.	
	Tablet (crushable): 100 mg.	
	Tablet (enteric-coated): 200 mg; 500 mg (sodium valproate).	
Complementary List	1	
ethosuximide	Capsule: 250 mg.	
	Oral liquid: 250 mg/5 mL.	

valproic acid (sodium valproate)	<i>Injection:</i> 100 mg/ mL in 4- mL ampoule; 100 mg/ mL in 10- mL ampoule.
6. ANTI-INFECTIVE MEDICINES	
6.1 Anthelminthics	
6.1.1 Intestinal anthelminthics	
albendazole	Tablet (chewable): 400 mg.
levamisole	Tablet: 50 mg; 150 mg (as hydrochloride).
mebendazole	Tablet (chewable): 100 mg; 500 mg.
niclosamide	Tablet (chewable): 500 mg.
praziquantel	Tablet: 150 mg; 600 mg.
	Oral liquid: 50 mg (as embonate or pamoate)/ mL.
pyrantel	Tablet (chewable): 250 mg (as embonate or pamoate).
6.1.2 Antifilarials	
albendazole	Tablet (chewable): 400 mg.
diethylcarbamazine	Tablet: 50 mg; 100 mg (dihydrogen citrate).
ivermectin	Tablet (scored): 3 mg.
6.1.3 Antischistosomals and other	antitrematode medicines
praziquantel	Tablet: 600 mg.
triclabendazole	Tablet: 250 mg.
Complementary List	
	Capsule: 250 mg.
oxamniquine*	Oral liquid: 250 mg/5 mL.
oxunniquine	* Oxamniquine is listed for use when praziquantel treatment fails.
6.2 Antibacterials	
6.2.1 Beta-lactam medicines	
amoxicillin	Powder for oral liquid: 125 mg (as trihydrate)/5 mL; 250 mg (as trihydrate)/5 mL [c] .
	Solid oral dosage form: 250 mg; 500 mg (as trihydrate).
amoxicillin + clavulanic acid	Oral liquid: 125 mg amoxicillin + 31.25 mg clavulanic acid/5 mL AND 250 mg amoxicillin + 62.5 mg clavulanic acid/5 mL [c] .
	Tablet: 500 mg (as trihydrate) + 125 mg (as potassium salt).

ampicillin	Powder for injection: 500 mg; 1 g (as sodium salt) in vial.
benzathine benzylpenicillin	Powder for injection: 900 mg benzylpenicillin (= 1.2 million IU) in 5- mL vial [c] ; 1.44 g benzylpenicillin (= 2.4 million IU) in 5- mL vial.
benzylpenicillin	Powder for injection: 600 mg (= 1 million IU); 3 g (= 5 million IU) (sodium or potassium salt) in vial.
cefalexin [C]	Powder for reconstitution with water: 125 mg/5 mL; 250 mg/5 mL (anhydrous).
	Solid oral dosage form: 250 mg (as monohydrate).
	Powder for injection: 1 g (as sodium salt) in vial.
□ cefazolin* a	* For surgical prophylaxis.
	a >1 month.
	Capsule: 400 mg (as trihydrate).
cefixime*	* Listed only for single-dose treatment of uncomplicated anogenital gonorrhoea.
	Powder for injection: 250 mg; 1 g (as sodium salt) in vial.
ceftriaxone* a	* Do not administer with calcium and avoid in infants with hyperbilirubinaemia.
	a >41 weeks corrected gestational age.
	Capsule: 500 mg; 1 g (as sodium salt).
🗆 cloxacillin	Powder for injection: 500 mg (as sodium salt) in vial.
	Powder for oral liquid: 125 mg (as sodium salt)/5 mL.
phenoxymethylpenicillin	Powder for oral liquid: 250 mg (as potassium salt)/5 mL.
	Tablet: 250 mg (as potassium salt).
	Powder for injection: 1 g (=1 million IU); 3 g (=3 million IU) in vial.
procaine benzylpenicillin*	* Procaine benzylpenicillin is not recommended as first-line treatment for neonatal sepsis except in settings with high neonatal mortality, when given by trained health workers in cases where hospital care is not achievable.
Complementary List	· · · · · · · · · · · · · · · · · · ·
	Powder for injection: 250 mg per vial (as sodium salt).
cefotaxime* [c]	* 3rd generation cephalosporin of choice for use in hospitalized neonates.
	1

ceftazidime	Powder for injection: 250 mg or 1 g (as pentahydrate) in vial.
	Powder for injection: 250 mg (as monohydrate) + 250 mg (as sodium salt); 500 mg (as monohydrate) + 500 mg (as sodium salt) in vial.
imipenem* + cilastatin*	* Listed only for the treatment of life-threatening hospital- based infection due to suspected or proven multidrug- resistant infection.
	Meropenem is indicated for the treatment of meningitis and is licensed for use in children over the age of 3 months.
6.2.2 Other antibacterials	
	Capsule: 250 mg; 500 mg (anhydrous).
azithromycin*	Oral liquid: 200 mg/5 mL.
	* Only listed for single-dose treatment of genital <i>Chlamydia trachomatis</i> and of trachoma.
	Capsule: 250 mg.
	Oily suspension for injection*: 0.5 g (as sodium succinate)/ mL in 2- mL ampoule.
chloramphenicol	* Only for the presumptive treatment of epidemic meningitis in children older than 2 years.
	Oral liquid: 150 mg (as palmitate)/5 mL.
	Powder for injection: 1 g (sodium succinate) in vial.
	Oral liquid: 250 mg/5 mL (anhydrous) [c] .
□ ciprofloxacin*	Solution for IV infusion: 2 mg/ mL (as hyclate) [C].
L'epronoxaem	Tablet: 250 mg (as hydrochloride).
	* Square box applies to adults only.
	Solid oral dosage form: 500 mg.
clarithromycin*	* For use in combination regimens for eradication of <i>H. Pylori</i> in adults.
	Oral liquid: 25 mg/5 mL [c] ; 50 mg/5 mL (anhydrous) [c] .
doxycycline a	Solid oral dosage form: 50 mg [c] ; 100 mg (as hyclate).
	a Use in children <8 years only for life-threatening infections when no alternative exists.

□ erythromycin	Powder for injection: 500 mg (as lactobionate) in vial.
	Powder for oral liquid: 125 mg/5 mL (as stearate or estolate or ethyl succinate).
	Solid oral dosage form: 250 mg (as stearate or estolate or ethyl succinate).
□ gentamicin	Injection: 10 mg; 40 mg (as sulfate)/ mL in 2- mL vial.
	Injection: 500 mg in 100- mL vial.
	Oral liquid: 200 mg (as benzoate)/5 mL.
□ metronidazole	Suppository: 500 mg; 1 g.
	Tablet: 200 mg to 500 mg.
	Oral liquid: 25 mg/5 mL [c].
nitrofurantoin	Tablet: 100 mg.
spectinomycin	Powder for injection: 2 g (as hydrochloride) in vial.
	Injection:
	80 mg + 16 mg/ mL in 5- mL ampoule; 80 mg + 16 mg/ mL in 10- mL ampoule.
sulfamethoxazole + trimethoprim	Oral liquid: 200 mg + 40 mg/5 mL.
	Tablet: 100 mg + 20 mg; 400 mg + 80 mg; 800 mg + 160 mg.
	Oral liquid: 50 mg/5 mL [c].
trimethoprim a	Tablet: 100 mg; 200 mg.
	a >6 months.
Complementary List	
	Capsule: 150 mg (as hydrochloride).
clindamycin	<i>Injection:</i> 150 mg (as phosphate)/ mL.
	Oral liquid: 75 mg/5 mL (as palmitate) [c] .
vancomycin	Powder for injection: 250 mg (as hydrochloride) in vial.
6.2.3 Antileprosy medicines	
therapy is essential to prevent the emergence of packs) containing standard two-medicine (pa	ould never be used except in combination. Combination drug resistance. Colour-coded blister packs (MDT blister aucibacillary leprosy) or three-medicine (multibacillary eprosy should be used. MDT blister packs can be supplied
clofazimine	Capsule: 50 mg; 100 mg.
dapsone	Tablet: 25 mg; 50 mg; 100 mg.

rifampicin	Solid oral dosage form: 150 mg; 300 mg.
6.2.4 Antituberculosis medicines	!
	xed-dose combinations and the development of appropriate fied dosage forms, non-refrigerated products and paediatrie y.
ethe meleost el	Oral liquid: 25 mg/ mL [c].
ethambutol	Tablet: 100 mg to 400 mg (hydrochloride).
ethambutol + isoniazid	Tablet: 400 mg + 150 mg.
ethambutol + isoniazid + pyrazinamide + rifampicin	Tablet: 275 mg + 75 mg + 400 mg + 150 mg.
ethambutol + isoniazid + rifampicin	Tablet: 275 mg + 75 mg + 150 mg.
	Oral liquid: 50 mg/5 mL [c].
isoniazid	Tablet: 100 mg to 300 mg.
	Tablet (scored): 50 mg.
	Tablet:
isoniazid + pyrazinamide + rifampicin	75 mg + 400 mg + 150 mg. 150 mg + 500 mg + 150 mg (For intermittent use three times weekly).
	Tablet:
isoniazid + rifampicin	 75 mg + 150 mg; 150 mg + 300 mg. 60 mg + 60 mg (For intermittent use three times weekly). 150 mg + 150 mg (For intermittent use three times weekly).
	Oral liquid: 30 mg/ mL [c].
,	Tablet: 400 mg.
pyrazinamide	Tablet (dispersible): 150 mg.
	Tablet (scored): 150 mg.
	Capsule: 150 mg.*
rifabutin	* For use only in patients with HIV receiving protease inhibitors.
.,	Oral liquid: 20 mg/ mL [c].
rifampicin	Solid oral dosage form: 150 mg; 300 mg.
rifanentine*	Tablet: 150 mg
rifapentine*	*For treatment of latent TB infection (LTBI) only
streptomycin	Powder for injection: 1 g (as sulfate) in vial.

	Powder for injection: 100 mg; 500 mg; 1 g (as sulfate)
amikacin	in vial.
bedaquiline	Tablet: 100 mg
capreomycin	Powder for injection: 1 g (as sulfate) in vial.
cycloserine*	Solid oral dosage form: 250 mg.
cycloserine	*Terizidone may be an alternative
delamanid	Tablet: 50 mg
ethionamide*	Tablet: 125 mg; 250 mg.
emonumue	*Protionamide may be an alternative.
kanamycin	Powder for injection: 1 g (as sulfate) in vial.
	Tablet: 250mg; 500 mg; 750 mg.
levofloxacin*	* Ofloxacin and moxifloxacin may be alternatives based on availability and programme considerations.
	Injection for intravenous administration: 2 mg/ ml in 300 mL bag
linezolid	Powder for oral liquid : 100 mg/5 mL,
	Tablet: 400 mg; 600 mg
n aminocaliculia acid	Granules: 4 g in sachet.
p-aminosalicylic acid	Tablet: 500 mg.
streptomycin [c]	Powder for injection: 1 g (as sulfate) in vial.
6.3 Antifungal medicines	
amphotericin B	Powder for injection: 50 mg in vial (as sodium deoxycholate or liposomal complex).
lotrimazole	Vaginal cream: 1%; 10%.
	Vaginal tablet: 100 mg; 500 mg.
	Capsule: 50 mg.
□ fluconazole	Injection: 2 mg/ mL in vial.
	Oral liquid: 50 mg/5 mL.
flucytosine	Capsule: 250 mg.
	Infusion: 2.5 g in 250 mL.
risoofulvin	Oral liquid: 125 mg/5 mL [c] .
griseofulvin	Solid oral dosage form: 125 mg; 250 mg.

	Lozenge: 100 000 IU.	
avata tin	Oral liquid: 50 mg/5 mL [c] ; 100 000 IU/ mL [c] .	
nystatin	Pessary: 100 000 IU.	
	Tablet: 100 000 IU; 500 000 IU.	
Complementary List		
potassium iodide	Saturated solution.	
6.4 Antiviral medicines		
6.4.1 Antiherpes medicines		
	Oral liquid: 200 mg/5 mL [c].	
□ aciclovir	Powder for injection: 250 mg (as sodium salt) in vial.	
	Tablet: 200 mg.	
6.4.2 Antiretrovirals		

Based on current evidence and experience of use, medicines in the following three 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.

abacavir (ABC)Oral liquid: 100 mg (as sulfate)/5 mL. Tablet: 300 mg (as sulfate).lamivudine (3TC)Oral liquid: 50 mg/5 mL. Tablet: 150 mg.stavudine (d4T)Capsule: 15 mg; 20 mg; 30 mg. Powder for oral liquid: 5 mg/5 mL.tenofovir disoproxil fumarate (TDF)Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).zidovudine (ZDV or AZT)Capsule: 100 mg; 250 mg. Oral liquid: 50 mg/5 mL.6.4.2.2 Non-nucleoside reverse transcriptase inhibitors		•
Tablet: 300 mg (as sulfate).Iamivudine (3TC)Oral liquid: 50 mg/5 mL.Tablet: 150 mg.Tablet: 150 mg.stavudine (d4T)Capsule: 15 mg; 20 mg; 30 mg.tenofovir disoproxil fumarate (TDF)Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).zidovudine (ZDV or AZT)Capsule: 100 mg; 250 mg. Oral liquid: 50 mg/5 mL.zidovudine (ZDV or AZT)Solution for IV infusion injection: 10 mg/ mL in 20- mL vial. Tablet: 300 mg.	abacavir (APC)	Oral liquid: 100 mg (as sulfate)/5 mL.
lamivudine (3TC)Tablet: 150 mg.Tablet: 150 mg.Capsule: 15 mg; 20 mg; 30 mg.stavudine (d4T)Powder for oral liquid: 5 mg/5 mL.tenofovir disoproxil fumarate (TDF)Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).tenofovir disoproxil fumarate (TDF)Capsule: 100 mg; 250 mg.zidovudine (ZDV or AZT)Solution for IV infusion injection: 10 mg/ mL in 20- mL vial.Tablet: 300 mg.Tablet: 300 mg.		Tablet: 300 mg (as sulfate).
Tablet: 150 mg.stavudine (d4T)Capsule: 15 mg; 20 mg; 30 mg.Powder for oral liquid: 5 mg/5 mL.tenofovir disoproxil fumarate (TDF)Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).zidovudine (ZDV or AZT)Capsule: 100 mg; 250 mg. Oral liquid: 50 mg/5 mL.zidovudine (ZDV or AZT)Solution for IV infusion injection: 10 mg/ mL in 20- mL vial.Tablet: 300 mg.	lamivuding (2TC)	Oral liquid: 50 mg/5 mL.
stavudine (d4T)Powder for oral liquid: 5 mg/5 mL.tenofovir disoproxil fumarate (TDF)Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).zidovudine (ZDV or AZT)Capsule: 100 mg; 250 mg. Oral liquid: 50 mg/5 mL. Solution for IV infusion injection: 10 mg/ mL in 20- mL vial. Tablet: 300 mg.		Tablet: 150 mg.
Powder for oral liquid: 5 mg/5 mL.tenofovir disoproxil fumarate (TDF)Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil).zidovudine (ZDV or AZT)Capsule: 100 mg; 250 mg. Oral liquid: 50 mg/5 mL. Solution for IV infusion injection: 10 mg/ mL in 20- mL vial. Tablet: 300 mg.	stanuding (d4T)	Capsule: 15 mg; 20 mg; 30 mg.
tenofovir disoproxil fumarate (TDF)equivalent to 245 mg tenofovir disoproxil).equivalent to 245 mg tenofovir disoproxil).Capsule: 100 mg; 250 mg.Zidovudine (ZDV or AZT)Oral liquid: 50 mg/5 mL.Solution for IV infusion injection: 10 mg/ mL in 20- mL vial.Solution for IV infusion injection: 10 mg/ mL in 20- mL vial.	stavuume (u41)	Powder for oral liquid: 5 mg/5 mL.
zidovudine (ZDV or AZT) Capsule: 100 mg; 250 mg. Solution for IV infusion injection: 10 mg/ mL in 20- mL vial. Tablet: 300 mg.	tenofovir disoproxil fumarate (TDF)	U I
zidovudine (ZDV or AZT) Solution for IV infusion injection: 10 mg/ mL in 20- mL vial. Tablet: 300 mg.		equivalent to 245 mg tenofovir disoproxil).
zidovudine (ZDV or AZT) Solution for IV infusion injection: 10 mg/ mL in 20- mL vial. Tablet: 300 mg.		Capsule: 100 mg; 250 mg.
20- mL vial. Tablet: 300 mg.		Oral liquid: 50 mg/5 mL.
Tablet: 300 mg.	zidovudine (ZDV or AZT)	Solution for IV infusion injection: 10 mg/ mL in
		20- mL vial.
6.4.2.2 Non-nucleoside reverse transcriptase inhibitors		Tablet: 300 mg.
	6.4.2.2 Non-nucleoside reverse transcriptase inhibitors	

6.4.2.1 Nucleoside/Nucleotide reverse transcriptase inhibitors

	Capsule: 50 mg; 100 mg; 200 mg.
efavirenz (EFV or EFZ) a	Tablet: 200 mg (scored); 600 mg.
	a >3 years or >10 kg weight.
nevirapine (NVP)	Oral liquid: 50 mg/5 mL.
	Tablet: 50 mg (dispersible); 200 mg.

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).

atazanavir a	Solid oral dosage form: 100 mg; 150 mg; 300 mg (as sulfate). a >25 kg.
darunavir a	Tablet: 75 mg; 400 mg; 600 mg; 800 mg a >3 years
lopinavir + ritonavir (LPV/r)	Oral liquid: 400 mg + 100 mg/5 mL. Tablet (heat stable): 100 mg + 25 mg; 200 mg + 50 mg.
ritonavir	Oral liquid: 400 mg/5 mL. Tablet (heat stable): 25 mg; 100 mg.
saquinavir (SQV) <mark>a</mark>	Solid oral dosage form: 200 mg; 500 mg (as mesilate). a >25 kg.
FIXED-DOSE COMBINATIONS	
abacavir + lamivudine	Tablet (dispersible, scored): 60 mg (as sulfate) + 30 mg
	Tablet: 600 mg + 200 mg + 300 mg (disoproxil fumarate equivalent to 245 mg tenofovir disoproxil).
efavirenz + emtricitabine* + tenofovir	*Emtricitabine (FTC) is an acceptable alternative to 3TC, based on knowledge of the pharmacology, the resistance patterns and clinical trials of antiretrovirals.
	Tablet: 200 mg + 300 mg (disoproxil fumarate equivalent to 245 mg tenofovir disoproxil).
emtricitabine* + tenofovir	*Emtricitabine (FTC) is an acceptable alternative to 3TC, based on knowledge of the pharmacology, the resistance patterns and clinical trials of antiretrovirals.

	Tablet: 150 mg + 200 mg + 30 mg.
lamivudine + nevirapine + stavudine	Tablet (dispersible): 30 mg + 50 mg + 6 mg [C] .
lamivudine + nevirapine + zidovudine	Tablet: 30 mg + 50 mg + 60 mg [c] ; 150 mg + 200 mg + 300 mg.
lamivudine + zidovudine	Tablet: 30 mg + 60 mg [C] ; 150 mg + 300 mg.
6.4.3 Other antivirals	
	Capsule: 30 mg; 45 mg; 75 mg (as phosphate).
	Oral powder: 12 mg/ mL.
oseltamivir*	* potentially severe or complicated illness due to confirmed or suspected influenza virus infection in accordance with WHO treatment guidelines.
	Injection for intravenous administration: 800 mg and 1 g in 10- mL phosphate buffer solution.
ribavirin*	Solid oral dosage form: 200 mg; 400 mg; 600 mg.
	* For the treatment of viral haemorrhagic fevers
valganciclovir*	Tablet: 450 mg.
	*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 r	
	everse transcriptase inhibitors
	Oral liquid: 0.05 mg/ mL
entecavir	
	Oral liquid: 0.05 mg/ mL
entecavir	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate –
entecavir tenofovir disoproxil fumarate (TDF) <i>6.4.4.2 Medicines for hepatitis C</i> Based on current evidence, medicines in the	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). e following classes of direct acting antiviral medicines are nt of hepatitis C virus infection. WHO guidelines recommend
entecavir tenofovir disoproxil fumarate (TDF) 6.4.4.2 Medicines for hepatitis C Based on current evidence, medicines in the included as essential medicines for treatmen	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). e following classes of direct acting antiviral medicines are nt of hepatitis C virus infection. WHO guidelines recommend icines from different classes.
entecavir tenofovir disoproxil fumarate (TDF) <i>6.4.4.2 Medicines for hepatitis C</i> Based on current evidence, medicines in the included as essential medicines for treatmer specific combination therapy utilizing med	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). e following classes of direct acting antiviral medicines are nt of hepatitis C virus infection. WHO guidelines recommend icines from different classes.
entecavir tenofovir disoproxil fumarate (TDF) <i>6.4.4.2 Medicines for hepatitis C</i> Based on current evidence, medicines in the included as essential medicines for treatmer specific combination therapy utilizing med <i>6.4.4.2.1 Nucleotide polymerase i</i>	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). e following classes of direct acting antiviral medicines are not of hepatitis C virus infection. WHO guidelines recommend icines from different classes. inhibitors
entecavir tenofovir disoproxil fumarate (TDF) <i>6.4.4.2 Medicines for hepatitis C</i> Based on current evidence, medicines in the included as essential medicines for treatmer specific combination therapy utilizing med <i>6.4.4.2.1 Nucleotide polymerase i</i> sofosbuvir <i>6.4.4.2.2 Protease inhibitors</i>	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). e following classes of direct acting antiviral medicines are not of hepatitis C virus infection. WHO guidelines recommend icines from different classes. inhibitors
entecavir tenofovir disoproxil fumarate (TDF) <i>6.4.4.2 Medicines for hepatitis C</i> Based on current evidence, medicines in the included as essential medicines for treatmer specific combination therapy utilizing med <i>6.4.4.2.1 Nucleotide polymerase i</i> sofosbuvir	Oral liquid: 0.05 mg/ mL Tablet: 0.5 mg; 1 mg Tablet: 300 mg (tenofovir disoproxil fumarate – equivalent to 245 mg tenofovir disoproxil). e following classes of direct acting antiviral medicines are not of hepatitis C virus infection. WHO guidelines recommend icines from different classes. inhibitors Tablet: 400 mg

dasabuvir	Tablet: 250 mg
6.4.4.2.5 Other antivirals	
ribavirin*	Injection for intravenous administration: 800 mg and 1 g in 10- mL phosphate buffer solution.
	Solid oral dosage form: 200 mg; 400 mg; 600 mg.
	* For the treatment of hepatitis C, in combination with peginterferon and/or direct acting anti-viral medicines
Complementary List	
	Vial or prefilled syringe:
	180 micrograms (peginterferon alfa-2a),
pegylated interferon alfa (2a or 2b) *	80 microgram, 100 microgram (peginterferon alfa-2b).
	* To be used in combination with ribavirin.
FIXED-DOSE COMBINATIONS	
Alternative combinations of DAAs from differe	nt pharmacological classes are possible
ledipasvir + sofosbuvir	Tablet: 90 mg + 400 mg.
ombitasvir + paritaprevir + ritonavir	Tablet: 12.5 mg + 75 mg + 50 mg
6.5 Antiprotozoal medicines	
6.5.1 Antiamoebic and antigiardiasis med	licines
diloxanide a	Tablet: 500 mg (furoate).
	a >25 kg.
	Injection: 500 mg in 100- mL vial.
🗆 metronidazole	Oral liquid: 200 mg (as benzoate)/5 mL.
	Tablet: 200 mg to 500 mg.
6.5.2 Antileishmaniasis medicines	
amphotericin B	Powder for injection: 50 mg in vial (as sodium deoxycholate or liposomal complex).
miltefosine	Solid oral dosage form: 10 mg; 50 mg.
paromomycin	Solution for intramuscular injection: 750 mg of paromomycin base (as the sulfate).
sodium stibogluconate or meglumine antimoniate	Injection: 100 mg/ mL, 1 vial = 30 mL or 30%, equivalent to approximately 8.1% antimony (pentavalent) in 5- mL ampoule.

Medicines for the treatment of *P. falciparum* malaria cases should be used in combination. The list currently recommends combinations according to treatment guidelines. WHO recognizes that not all of the fixed dose combinations (FDCs) in the WHO treatment guidelines exist, and encourages their development and rigorous testing. WHO also encourages development and testing of rectal dosage formulations.

amodiaquine*	Tablet: 153 mg or 200 mg (as hydrochloride).
	* To be used in combination with artesunate 50 mg.
artemether*	Oily injection: 80 mg/ mL in 1- mL ampoule.
anemether	* For use in the management of severe malaria.
	Tablet: 20 mg + 120 mg.
artemether + lumefantrine*	Tablet (dispersible): 20 mg + 120 mg [c].
	* Not recommended in the first trimester of pregnancy or in children below 5 kg.
	Injection: ampoules, containing 60 mg anhydrous artesunic acid with a separate ampoule of 5% sodium bicarbonate solution. For use in the management of severe malaria.
artesunate*	Rectal dosage form: 50 mg [c] ; 200 mg capsules (for pre-referral treatment of severe malaria only; patients should be taken to an appropriate health facility for follow-up care) [c] .
	Tablet: 50 mg.
	* To be used in combination with either amodiaquine, mefloquine or sulfadoxine + pyrimethamine.
	Tablet: 25 mg + 67.5 mg; 50 mg + 135 mg; 100 mg + 270 mg.
artesunate + amodiaquine*	* Other combinations that deliver the target doses required such as 153 mg or 200 mg (as hydrochloride) with 50 mg artesunate can be alternatives.
artesunate + mefloquine	Tablet: 25 mg + 55 mg; 100 mg + 220 mg.
	Oral liquid: 50 mg (as phosphate or sulfate)/5 mL.
chloroquine*	Tablet: 100 mg; 150 mg (as phosphate or sulfate).
	* For use only for the treatment of <i>P.vivax</i> infection.
	Capsule: 100 mg (as hydrochloride or hyclate).
doxycycline*	Tablet (dispersible): 100 mg (as monohydrate).
	* For use only in combination with quinine.
mefloquine*	Tablet: 250 mg (as hydrochloride).

	Tablet: 7.5 mg; 15 mg (as diphosphate).
primaquine*	* Only for use to achieve radical cure of <i>P.vivax</i> and <i>P.ovale</i> infections, given for 14 days.
	Injection: 300 mg quinine hydrochloride/ mL in 2- mL ampoule.
quinine*	Tablet: 300 mg (quinine sulfate) or 300 mg (quinine bisulfate).
	* For use only in the management of severe malaria, and should be used in combination with doxycycline.
	Tablet: 500 mg + 25 mg.
sulfadoxine + pyrimethamine*	* Only in combination with artesunate 50 mg.
6.5.3.2 For prophylaxis	
	Oral liquid: 50 mg (as phosphate or sulfate)/5 mL.
chloroquine*	Tablet: 150 mg (as phosphate or sulfate).
anoroquine	* For use only in central American regions, for <i>P.vivax</i> infections.
doxycycline a	Solid oral dosage form: 100 mg (as hydrochloride or hyclate).
	a >8 years.
a · 🖂	Tablet: 250 mg (as hydrochloride).
mefloquine a	a >5 kg or >3 months.
proguanil*	Tablet: 100 mg (as hydrochloride).
proguain	* For use only in combination with chloroquine.
6.5.4 Antipneumocystosis and ant	itoxoplasmosis medicines
pyrimethamine	Tablet: 25 mg.
sulfadiazine	Tablet: 500 mg.
	Injection:
sulfamethoxazole + trimethoprim	80 mg + 16 mg/ mL in 5- mL ampoule; 80 mg + 16 mg/ mL in 10- mL ampoule.
	Oral liquid: 200 mg + 40 mg/5 mL [c] .
	Tablet: 100 mg + 20 mg; 400 mg + 80 mg [c] .
Complementary List	
pentamidine	Tablet: 200 mg; 300 mg (as isethionate).
6.5.5 Antitrypanosomal medicines	
6.5.5.1 African trypanosomiasis	
Medicines for the treatment of 1st stage Afr	rican trypanosomiasis

pentamidine* * To be used for the treatment of Trypanosoma brucei gambiense infection. suramin sodium* Powder for injection: 1 g in vial. suramin sodium* * To be used for the treatment of the initial phase of Trypanosoma brucei rhodesiense infection. Medicines for the treatment of 2 nd stage African trypanosoma brucei rhodesiense infection. Injection: 200 mg (hydrochloride)/ mL in 100- mL bottle. effornithine* Injection: 3.0% solution, 5- mL ampoule (180 mg of active compound). melarsoprol Injection: 3.6% solution, 5- mL ampoule (180 mg of active compound). nifurtimox* * Only to be used in combination with effornithine, infection. melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). complementary List [C] melarsoprol melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active active compound). complementary List [C] Tablet: 12.5 mg [C]:100 mg. Tablet: 12.5 mg [C]:100 mg. Tablet: 30 mg: 120 mg: 250 mg. r. ANTIMIGRAINE MEDI CINES Tablet: 30 mg: 120 mg: 250 mg. 7. I For treatment of acute attack acetylsalicylic acid Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 300 mg to 500 mg. nareetamol Tablet: 300 mg to 500 mg. 7. Z For prophylaxis Dral Hiquid:		Powder for injection: 200 mg (as isetionate) in vial.
suramin sodium* * To be used for the treatment of the initial phase of Trypanosoma brucei rhodesiense infection. Medicines for the treatment of 2 nd stage African try=nosomiasis eflornithine* Injection: 200 mg (hydrochloride)/ mL in 100- mL bottle. * To be used for the treatment of Trypanosoma brucei agambiense infection. melarsoprol Injection: 3.6% solution, 5- mL ampoule (180 mg of active compound). melarsoprol Tablet: 120 mg. nifurtimox* * Only to be used in combination with eflornithine, for the treatment of Trypanosoma brucei gambiense infection. <i>Complementary List [c] Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). Gentementary List [c] Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). Gentementary List [c] Tablet: 120 mg. melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). Gentementary List [c] Tablet: 30 mg: 120 mg: 250 mg. niturtimox Tablet: 30 mg: 120 mg: 250 mg. TANTIMIGRAINE MEDICINES Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 300 mg to 500 mg. iparacetamol Tablet: 300 mg to 500 mg. iparacetamol Tablet: 300 mg to 500 mg. Jate: 300 mg to 500 mg. </i>	pentamidine*	
Trypanosoma brucei rhodesiense infection. Medicines for the treatment of 2nd stage African trypanosomiasis efformithine* Injection: 200 mg (hydrochloride)/ mL in 100- mL bottle. * To be used for the treatment of Trypanosoma brucei gambiense infection. Injection: 36% solution, 5- mL ampoule (180 mg of active compound). melarsoprol Injection: 3.6% solution, 5- mL ampoule (180 mg of active compound). mifurtimox* * Only to be used in combination with efformithine, for the treatment of Trypanosoma brucei gambiense infection. Complementary List [c] Mijection: 3.6% solution in 5- mL ampoule (180 mg of active compound). for the treatment of Trypanosoma brucei gambiense infection. Solution in 5- mL ampoule (180 mg of active compound). for the treatment of Trypanosoma brucei gambiense infection. Tablet: 120 mg. melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). for the treatment of Trypanosoma brucei gambiense infection. Tablet: 12.5 mg [c],100 mg. for the treatment of active attack Tablet (scored): 50 mg. nifurtimox Tablet: 300 mg to 500 mg. for the treatment of acute attack acetylsalicylic acid acetylsalicylic acid Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 300 mg: 400 mg (hydrochloride). for prophylaxis		Powder for injection: 1 g in vial.
effornithine* Injection: 200 mg (hydrochloride)/ mL in 100- mL bottle. * To be used for the treatment of <i>Trypanosoma brucci gambiense</i> infection. Injection: 3.6% solution, 5- mL ampoule (180 mg of active compound). melarsoprol Injection: 3.6% solution, 5- mL ampoule (180 mg of active compound). nifurtimox* * Only to be used in combination with effornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection. <i>Complementary List [C] melarsoprol melarsoprol Injection:</i> 3.6% solution in 5- mL ampoule (180 mg of active compound). <i>6.5.5.2 American trypanosomiasis safeti (scored):</i> 50 mg. benznidazole Tablet: 12.5 mg [c];100 mg. nifurtimox Tablet: 30 mg: 120 mg. 250 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 300 mg to 500 mg. 7.1 For treatment of acute attack acetylsalicylic acid acetylsalicylic acid Tablet: 200 mg; 400 mg. paracetamol Oral liquid: 125 mg/5 ml. [c]. paracetamol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines protocols for treatment of the diseases.	suramin sodium*	-
effornithine* bottle. * To be used for the treatment of <i>Trypanosoma brucei</i> gambiense infection. melarsoprol Injection: 3.6% solution, 5- mL ampoule (180 mg of active compound). rablet: 120 mg. nifurtimox* * Only to be used in combination with effornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection. <i>Complementary List [C]</i> Tablet: 120 mg. melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). <i>6.5.5.2 American trypanosomiasis</i> active compound). <i>benznidazole</i> Tablet: 12.5 mg [c];100 mg. ratiet (scored): 50 mg. Tablet (scored): 50 mg. nifurtimox Tablet: 30 mg; 120 mg; 250 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 300 mg to 500 mg. <i>ratet</i> solution in 5- mL [c]. Tablet: 300 mg to 500 mg. paracetamol Tablet: 300 mg to 500 mg. <i>ratet</i> solution go to 500 mg. Tablet: 300 mg to 500 mg. <i>ratet</i> solution go to 500 mg. Tablet: 300 mg to 500 mg. <i>ratet</i> solution go to 500 mg. Tablet: 300 mg to 500 mg. <i>ratet</i> solution go to 500 mg. Tablet: 300 mg to 500 mg. <i>ratet</i> solution go to 500 mg. Tablet: 300 mg to 500 mg. <i>ratest</i> solution go to 500 mg. Tab	Medicines for the treatment of 2nd stage African	n trypanosomiasis
* To be used for the treatment of <i>Trypanosoma brucei</i> gambiense infection. melarsoprol active compound). Tablet: 120 mg. * Only to be used in combination with eflornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection. <i>Complementary List [c]</i> melarsoprol <i>melarsoprol Injection</i> : 3.6% solution in 5- mL ampoule (180 mg of active compound). 6.5.5.2 American trypanosomiasis benznidazole Infurtimox Tablet: 12.5 mg [c];100 mg. rablet (scored): 50 mg. nifurtimox 7. ANTIMIGRAINE MEDICINES 7.1 For treatment of acute attack acetylsalicylic acid Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 200 mg; 400 mg. paracetamol Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Oral liquid: 125 mg/5 mL [c]. propranolol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8. Immunosuppressive medicines protocols for treatment of the diseases.	effornithine*	
melarsoprol active compound). rablet: 120 mg. Tablet: 120 mg. * Only to be used in combination with effornithine, for the treatment of Trypanosoma brucei gambiense infection. * Only to be used in combination with effornithine, for the treatment of Trypanosoma brucei gambiense infection. melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). 6.5.5.2 American trypanosomiasis Tablet: 12.5 mg [C];100 mg. benznidazole Tablet: 12.5 mg [C];100 mg. nifurtimox Tablet: 30 mg; 120 mg; 250 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 300 mg to 500 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 300 mg to 500 mg. jupprofen [c] Tablet: 300 mg to 500 mg. paracetamol Oral liquid: 125 mg/5 mL [c]. paracetamol Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Oral liquid: 125 mg/5 mL [c]. D propranolol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPFESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8. Immunosuppressive medicines For treatment of the diseases.	enomume	
Tablet: 120 mg. * Only to be used in combination with effornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection. Complementary List [c] melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). 6.5.5.2 American trypanosomiasis benznidazole Tablet: 12.5 mg [c];100 mg. nifurtimox Tablet (scored): 50 mg. nifurtimox Tablet: 30 mg; 120 mg; 250 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 300 mg to 500 mg. 7.1 For treatment of acute attack acetylsalicylic acid ibuprofen [c] Tablet: 200 mg; 400 mg. paracetamol Oral liquid: 125 mg/5 mL [c]. Tablet: 300 mg to 500 mg. Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Dipropranolol I propranolol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines Protocols for treatment of the diseases.	melarsoprol	active
NITURTIONS* for the treatment of Trypanosoma brucei gambiense infection. Complementary List [c] infection: 3.6% solution in 5- mL ampoule (180 mg of active compound). 6.5.5.2 American trypanosomiasis active compound). 6.5.5.2 American trypanosomiasis Tablet: 12.5 mg [c];100 mg. benznidazole Tablet: som [c];100 mg. nifurtimox Tablet: som [c];100 mg. nifurtimox Tablet: som [c];20 mg; 250 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 30 mg; 120 mg; 250 mg. 7.1 For treatment of acute attack acetylsalicylic acid ibuprofen [c] Tablet: 300 mg to 500 mg. paracetamol Oral liquid: 125 mg/5 mL [c]. Tablet: 300 mg to 500 mg. Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Dipropranolol B ANTINEOPLASTICS AND IMMUNOSUPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8. ANTINEOPLASTICS medicines Protocols for treatment of the diseases.		
melarsoprol Injection: 3.6% solution in 5- mL ampoule (180 mg of active compound). 6.5.5.2 American trypanosomiasis active compound). 6.5.5.2 American trypanosomiasis Tablet: 12.5 mg [c];100 mg. benznidazole Tablet: scored): 50 mg. nifurtimox Tablet (scored): 50 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 30 mg; 120 mg; 250 mg. 7.1 For treatment of acute attack acetylsalicylic acid acetylsalicylic acid Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 200 mg; 400 mg. paracetamol Oral liquid: 125 mg/5 mL [c]. Tablet: 300 mg to 500 mg. Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Dropranolol D propranolol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines Tablet: 20 mg: 40 mg (hydrochloride).	nifurtimox*	for the treatment of Trypanosoma brucei gambiense
active compound). 6.5.5.2 American trypanosomiasis benznidazole Tablet: 12.5 mg [c];100 mg. Tablet (scored): 50 mg. nifurtimox Tablet: 30 mg; 120 mg; 250 mg. 7. ANTIMIGRAINE MEDICINES 7.1 For treatment of acute attack acetylsalicylic acid Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 200 mg; 400 mg. paracetamol Oral liquid: 125 mg/5 mL [c]. Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines protocols for treatment of the diseases.	Complementary List [c]	
benznidazole Tablet: 12.5 mg [c];100 mg. Tablet (scored): 50 mg. Tablet: 30 mg; 120 mg; 250 mg. 7. ANTIMIGRAINE MEDICINES Tablet: 300 mg; 120 mg. 7.1 For treatment of acute attack acetylsalicylic acid acetylsalicylic acid Tablet: 300 mg to 500 mg. ibuprofen [c] Tablet: 200 mg; 400 mg. paracetamol Oral liquid: 125 mg/5 mL [c]. Tablet: 300 mg to 500 mg. Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines For treatment of the diseases.	melarsoprol	, , , , , , , , , , , , , , , , , , , ,
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paracetamol Tablet: 300 mg to 500 mg. 7.2 For prophylaxis Image: Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines	ibuprofen [c]	Tablet: 200 mg; 400 mg.
Tablet: 300 mg to 500 mg. 7.2 For prophylaxis propranolol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines	naracetamol	Oral liquid: 125 mg/5 mL [c].
□ propranolol Tablet: 20 mg; 40 mg (hydrochloride). 8. ANTINEOPLASTICS AND IMMUNOSUPPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines	paracetanioi	Tablet: 300 mg to 500 mg.
8. ANTINEOPLASTICS AND IMMUNOSUPPRESSIVES Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines	7.2 For prophylaxis	
Medicines listed below should be used according to protocols for treatment of the diseases. 8.1 Immunosuppressive medicines	🗆 propranolol	Tablet: 20 mg; 40 mg (hydrochloride).
8.1 Immunosuppressive medicines	8. ANTINEOPLASTICS AND IMMUNOS	JPPRESSIVES
	Medicines listed below should be used according	g to protocols for treatment of the diseases.
Complementary List	8.1 Immunosuppressive medicines	
Comprementary List	Complementary List	

azathioprine	Powder for injection: 100 mg (as sodium salt) in vial.
	Tablet (scored): 50 mg.
	Capsule: 25 mg.
ciclosporin	Concentrate for injection: 50 mg/ mL in 1- mL ampoule for organ transplantation.
8.2 Cytotoxic and adjuvant medicin	les
Complementary List	
all two outinoid and (ATDA)	Capsule: 10 mg.
all-trans retinoid acid (ATRA)	– Acute promyelocytic leukaemia.
allopurinol [c]	Tablet: 100 mg; 300 mg.
	Powder for injection: 10 000 IU in vial.
asparaginase	– Acute lymphoblastic leukaemia.
	<i>Injection:</i> 45 mg/0.5 mL; 180 mg/2 mL.
bendamustine	– Chronic lymphocytic leukaemia – Follicular lymphoma
	Powder for injection: 15 mg (as sulfate) in vial.
bleomycin	– Hodgkin lymphoma – Kaposi sarcoma – Ovarian germ cell tumour – Testicular germ cell tumour
	<i>Injection:</i> 3 mg/ mL in 10- mL ampoule.
	Tablet: 15 mg.
calcium folinate	 Early stage colon cancer Early stage rectal cancer Gestational trophoblastic neoplasia Metastatic colorectal cancer Osteosarcoma Burkitt lymphoma
	Tablet: 150 mg; 500 mg.
capecitabine	 Early stage colon cancer Early stage rectal cancer Metastatic breast cancer Metastatic colorectal cancer

carboplatin	Injection: 50 mg/5 mL; 150 mg/15 mL; 450 mg/45 mL; 600 mg/60 mL. – Early stage breast cancer – Epithelial ovarian cancer – Nasopharyngeal cancer – Non-small cell lung cancer – Osteosarcoma – Retinoblastoma
chlorambucil	Tablet: 2 mg. – Chronic lymphocytic leukaemia.
cisplatin	Injection: 50 mg/50 mL; 100 mg/100 mL. – Cervical cancer (as a radio-sensitizer) – Head and neck cancer (as a radio-sensitizer) – Nasopharyngeal cancer (as a radio-sensitizer) – Non-small cell lung cancer – Osteosarcoma – Ovarian germ cell tumour – Testicular germ cell tumour
cyclophosphamide	Powder for injection: 500 mg in vial. Tablet: 25 mg. – Chronic lymphocytic leukaemia – Diffuse large B-cell lymphoma – Early stage breast cancer – Gestational trophoblastic neoplasia – Hodgkin lymphoma – Follicular lymphoma – Rhabdomyosarcoma – Ewing sarcoma – Acute lymphoblastic leukaemia – Burkitt lymphoma – Metastatic breast cancer.
cytarabine	Powder for injection: 100 mg in vial. – Acute myelogenous leukaemia – Acute lymphoblastic leukaemia – Acute promyelocytic leukaemia – Burkitt lymphoma.
dacarbazine	Powder for injection: 100 mg in vial. – Hodgkin lymphoma
dactinomycin	Powder for injection: 500 micrograms in vial. – Gestational trophoblastic neoplasia – Rhabdomyosarcoma – Wilms tumour

	Powder for injection: 50 mg (hydrochloride) in vial.
daunorubicin	– Acute lymphoblastic leukaemia
	– Acute myelogenous leukaemia
	– Acute promyelocytic leukaemia
	<i>Injection:</i> 20 mg/ mL; 40 mg/ mL.
docetaxel	– Early stage breast cancer
иоссилст	– Metastatic breast cancer
	– Metastatic prostate cancer
	Powder for injection: 10 mg; 50 mg (hydrochloride) in vial.
	– Diffuse large B-cell lymphoma
	– Early stage breast cancer
	– Hodgkin lymphoma
	– Kaposi sarcoma
doxorubicin	– Follicular lymphoma
	– Metastatic breast cancer
	– Osteosarcoma
	– Ewing sarcoma
	– Acute lymphoblastic leukaemia
	– Wilms tumour
	– Burkitt lymphoma
	Capsule: 100 mg.
	<i>Injection:</i> 20 mg/ mL in 5- mL ampoule.
	– Testicular germ cell tumour
	– Gestational trophoblastic neoplasia
atomocida	– Hodgkin lymphoma
etoposide	– Non-small cell lung cancer
	– Ovarian germ cell tumour
	– Retinoblastoma
	– Ewing sarcoma
	– Acute lymphoblastic leukaemia
	– Burkitt lymphoma
	Powder for injection: 50 mg (phosphate) in vial.
fludarabine	Powaer for injection: 50 mg (phosphate) in vial. Tablet: 10 mg
fludarabine	
fludarabine	Tablet: 10 mg
fludarabine	Tablet: 10 mg - Chronic lymphocytic leukaemia.
	Tablet: 10 mg - Chronic lymphocytic leukaemia. Injection: 50 mg/ mL in 5- mL ampoule.
fludarabine fluorouracil	Tablet: 10 mg - Chronic lymphocytic leukaemia. Injection: 50 mg/ mL in 5- mL ampoule. - Early stage breast cancer
	Tablet: 10 mg - Chronic lymphocytic leukaemia. Injection: 50 mg/ mL in 5- mL ampoule. - Early stage breast cancer - Early stage colon cancer

filgrastim	 Injection: 120 micrograms/0.2 mL; 300 micrograms/0.5 mL; 480 micrograms/0.8 mL in pre-filled syringe 300 micrograms/mL in 1- mL vial, 480 mg/1.6 mL in 1.6- mL vial. 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
gemcitabine	Powder for injection: 200 mg in vial, 1 g in vial. – Epithelial ovarian cancer – Non-small cell lung cancer
hydroxycarbamide	Solid oral dosage form: 200 mg; 250 mg; 300 mg; 400 mg; 500 mg; 1 g. – Chronic myeloid leukaemia.
ifosfamide	Powder for injection:500 mg vial; 1-g vial; 2-g vial Testicular germ cell tumour- Ovarian germ cell tumour- Osteosarcoma- Rhabdomyosarcoma- Ewing sarcoma
imatinib	Tablet: 100 mg; 400 mg Chronic myeloid leukaemia- Gastrointestinal stromal tumour
irinotecan	<i>Injection:</i> 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.
mercaptopurine	Tablet: 50 mg Acute lymphoblastic leukaemia- Acute promyelocytic leukaemia.
mesna	Injection: 100 mg/ mL in 4- mL and 10- mL ampoules.Tablet: 400 mg; 600 mg Testicular germ cell tumour- Ovarian germ cell tumour- Osteosarcoma- Rhabdomyosarcoma- Ewing sarcoma.

methotrexate	Powder for injection: 50 mg (as sodium salt) in vial.
	Tablet: 2.5 mg (as sodium salt).
	– Early stage breast cancer – Gestational trophoblastic neoplasia – Osteosarcoma – Acute lymphoblastic leukaemia – Acute promyelocytic leukaemia
	<i>Injection:</i> 50 mg/10 mL in 10- mL vial; 100 mg/20 mL in 20- mL vial; 200 mg/40 mL in 40- mL vial.
oxaliplatin	Powder for injection: 50 mg, 100 mg in vial.
	– Early stage colon cancer – Metastatic colorectal cancer
	Powder for injection: 6 mg/ mL.
paclitaxel	 Epithelial ovarian cancer Early stage breast cancer Metastatic breast cancer Kaposi sarcoma Nasopharyngeal cancer Non-small cell lung cancer Ovarian germ cell tumour
procarbazine	Capsule: 50 mg (as hydrochloride).
rituximab	Injection: 100 mg/10 mL in 10- mL vial; 500 mg/50 mL in 50- mL vial. – Diffuse large B-cell lymphoma – Chronic lymphocytic leukaemia – Follicular lymphoma.
	Solid oral dosage form: 40 mg.
tioguanine [c]	– Acute lymphoblastic leukaemia.
trastuzumab	Powder for injection: 60 mg; 150 mg; 440 mg in vial- Early stage HER2 positive breast cancer- Metastatic HER2 positive breast cancer.
vinblastine	Powder for injection: 10 mg (sulfate) in vial. – Hodgkin lymphoma – Kaposi sarcoma. – Testicular germ cell tumour – Ovarian germ cell tumour

	Powder for injection: 1 mg; 5 mg (sulfate) in vial.
vincristine	 Diffuse large B-cell lymphoma Gestational trophoblastic neoplasia Hodgkin lymphoma Kaposi sarcoma Follicular lymphoma Retinoblastoma Rhabdomyosarcoma Ewing sarcoma Acute lymphoblastic leukaemia Wilms tumour Burkitt lymphoma.
vinorelbine	Injection: 10 mg/mL in 1- mL vial; 50 mg/5 mL in 5- mL vial. – Non-small cell lung cancer – Metastatic breast cancer
8.3 Hormones and antihormone	es l
Complementary List	
	Tablet: 1 mg.
□ anastrozole	– Early stage breast cancer – Metastatic breast cancer.
□ bicalutamide	Tablet: 50 mg. - Metastatic prostate cancer.
dexamethasone	Injection: 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt). Oral liquid: 2 mg/5 mL [c]. – Acute lymphoblastic leukaemia.
□leuprorelin	Dose form – Early stage breast cancer – Metastatic prostate cancer
hydrocortisone	Powder for injection: 100 mg (as sodium succinate) in vial. – Acute lymphoblastic leukaemia.
methylprednisolone [c]	Injection: 40 mg/ mL (as sodium succinate) in 1- mL single-dose vial and 5- mL multi-dose vials; 80 mg/ mL (as sodium succinate) in 1- mL single-dose vial. - Acute lymphoblastic leukamia.

□ prednisolone	Oral liquid: 5 mg/ mL [c].
	Tablet: 5 mg; 25 mg.
	– Chronic lymphocytic leukaemia – Diffuse large B-cell lymphoma – Hodgkin lymphoma – Follicular lymphoma – Acute lymphoblastic leukaemia – Burkitt lymphoma
	Tablet: 10 mg; 20 mg (as citrate).
tamoxifen	– Early stage breast cancer – Metastatic breast cancer
9. ANTIPARKINSONISM MEDICINE	S
□ biperiden	Injection: 5 mg (lactate) in 1- mL ampoule.
	Tablet: 2 mg (hydrochloride).
levodopa + □ carbidopa	Tablet: 100 mg + 10 mg; 100 mg + 25 mg; 250 mg + 25 mg
10. MEDICINES AFFECTING THE BI	LOOD
10.1 Antianaemia medicines	
ferrous salt	Oral liquid: equivalent to 25 mg iron (as sulfate)/ mL.
	Tablet: equivalent to 60 mg iron.
ferrous salt + folic acid	Tablet: equivalent to 60 mg iron + 400 micrograms folic acid (nutritional supplement for use during pregnancy).
	Tablet: 400 micrograms*; 1 mg; 5 mg.
folic acid	*periconceptual use for prevention of first occurrence of neural tube defects
hydroxocobalamin	Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1- mL ampoule.
10.2 Medicines affecting coagulati	on
□ enoxaparin*	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
	*Alternatives are limited to nadroparin and dalteparin
heparin sodium	Injection: 1000 IU/ mL; 5000 IU/ mL; 20 000 IU/ mL in 1- mL ampoule.

phytomenadione	Injection: 1 mg/ mL [c]; 10 mg/ mL in 5- mL ampoule.
	Tablet: 10 mg.
protamine sulfate	Injection: 10 mg/ mL in 5- mL ampoule.
tranexamic acid	Injection: 100 mg/ mL in 10- mL ampoule.
□ warfarin	Tablet: 1 mg; 2 mg; 5 mg (sodium salt).
Complementary List [c]	
desmopressin	<i>Injection</i> : 4 micrograms/ mL (as acetate) in 1- mL ampoule.
	Nasal spray: 10 micrograms (as acetate) per dose
heparin sodium	Injection: 1000 IU/ mL; 5000 IU/ mL in 1- mL ampoule.
protamine sulfate	Injection: 10 mg/ mL in 5- mL ampoule.
uwarfarin	<i>Tablet:</i> 0.5 mg; 1 mg; 2 mg; 5 mg (sodium salt).
10.3 Other medicines for haemoglobinop	pathies
Complementary List	
deferoxamine*	Powder for injection: 500 mg (mesilate) in vial. * Deferasirox oral form may be an alternative, depending on cost and availability.
hydroxycarbamide	Solid oral dosage form: 200 mg; 500 mg; 1 g.
11. BLOOD PRODUCTS OF HUMAN OF	RIGIN AND PLASMA SUBSTITUTES
11. BLOOD PRODUCTS OF HUMAN OF 11.1 Blood and blood components	RIGIN AND PLASMA SUBSTITUTES
11.1 Blood and blood components In accordance with the World Health Assembly res self-sufficiency, unless special circumstances preclu	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals n requirements of the patient population. All
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusion	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals n requirements of the patient population. All
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances preclu voluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusion preparations should comply with the WHO require	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals n requirements of the patient population. All
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusio preparations should comply with the WHO required fresh-frozen plasma	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals n requirements of the patient population. All
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusion preparations should comply with the WHO required fresh-frozen plasma platelets	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals n requirements of the patient population. All
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusion preparations should comply with the WHO required fresh-frozen plasma platelets red blood cells	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals n requirements of the patient population. All
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances prech voluntary, non-remunerated blood donation, and t to prevent blood shortages and meet the transfusio preparations should comply with the WHO requires fresh–frozen plasma platelets red blood cells whole blood	Polution WHA63.12, WHO recognizes that achieving rade it, in the supply of safe blood components based on the security of that supply are important national goals in requirements of the patient population. All ements.
11.1 Blood and blood components In accordance with the World Health Assembly resself-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and to prevent blood shortages and meet the transfusio preparations should comply with the WHO requires fresh-frozen plasma platelets red blood cells whole blood 11.2 Plasma-derived medicines	Polution WHA63.12, WHO recognizes that achieving rade it, in the supply of safe blood components based on the security of that supply are important national goals in requirements of the patient population. All ements.
11.1 Blood and blood components In accordance with the World Health Assembly resself-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusio preparations should comply with the WHO requires fresh-frozen plasma platelets red blood cells whole blood 11.2 Plasma-derived medicines	Polution WHA63.12, WHO recognizes that achieving rade it, in the supply of safe blood components based on the security of that supply are important national goals in requirements of the patient population. All ements.
11.1 Blood and blood components In accordance with the World Health Assembly ress self-sufficiency, unless special circumstances preclu voluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusion preparations should comply with the WHO required fresh-frozen plasmaplatelets red blood cells whole blood 11.2 Plasma-derived medicines All human plasma-derived medicines should comp 11.2.1 Human immunoglobulins	olution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals in requirements of the patient population. All ements.
11.1 Blood and blood components In accordance with the World Health Assembly resself-sufficiency, unless special circumstances precluvoluntary, non-remunerated blood donation, and the to prevent blood shortages and meet the transfusio preparations should comply with the WHO requires fresh-frozen plasma platelets red blood cells whole blood 11.2 Plasma-derived medicines All human plasma-derived medicines should comp 11.2.1 Human immunoglobulins	oolution WHA63.12, WHO recognizes that achieving ide it, in the supply of safe blood components based on he security of that supply are important national goals in requirements of the patient population. All ements. ements. olution olution in requirements of the patient population. All ements. olution olution

normal immunoglobulin	Intramuscular administration: 16% protein solution.*
	<i>Intravenous administration:</i> 5%; 10% protein solution.**
	<i>Subcutaneous administration:</i> 15%; 16% protein solution.*
	* Indicated for primary immune deficiency. **Indicated for primary immune deficiency and Kawasaki disease.
11.2.2 Blood coagulation factors	
Complementary List	
□ coagulation factor VIII	Powder for injection: 500 IU/vial.
□ coagulation factor IX	Powder for injection: 500 IU/vial, 1000 IU/vial.
11.3 Plasma substitutes	1
	Injectable solution: 6%.
□ dextran 70*	* Polygeline, injectable solution, 3.5% is considered as equivalent.
12. CARDIOVASCULAR MEDICINE	ES
12.1 Antianginal medicines	
	Tablet: 1.25 mg; 5 mg.
□ bisoprolol*	* □ includes metoprolol and carvedilol as alternatives.
glyceryl trinitrate	Tablet (sublingual): 500 micrograms.
□ isosorbide dinitrate	Tablet (sublingual): 5 mg.
verapamil	Tablet: 40 mg; 80 mg (hydrochloride).
12.2 Antiarrhythmic medicines	
	Tablet: 1.25 mg; 5 mg.
□ bisoprolol*	* □ includes metoprolol and carvedilol as alternatives.
digoxin	Injection: 250 micrograms/ mL in 2- mL ampoule.
	Oral liquid: 50 micrograms/ mL.
	Tablet: 62.5 micrograms; 250 micrograms.
epinephrine (adrenaline)	Injection: 100 micrograms/ mL (as acid tartrate or hydrochloride) in 10- mL ampoule.
lidocaine	Injection: 20 mg (hydrochloride)/ mL in 5- mL ampoule.

verapamil	Injection: 2.5 mg (hydrochloride)/ mL in 2- mL ampoule.
	Tablet: 40 mg; 80 mg (hydrochloride).
Complementary List	
amiodarone	<i>Injection:</i> 50 mg/ mL in 3- mL ampoule (hydrochloride).
umiouurone	Tablet: 100 mg; 200 mg; 400 mg (hydrochloride).
12.3 Antihypertensive medicines	
□ amlodipine	Tablet: 5 mg (as maleate, mesylate or besylate).
	Tablet: 1.25 mg; 5 mg.
□ bisoprolol*	* includes atenolol, metoprolol and carvedilol as alternatives. Atenolol should not be used as a first- line agent in uncomplicated hypertension in patients >60 years
🗆 enalapril	Tablet: 2.5 mg; 5 mg (as hydrogen maleate).
	Powder for injection: 20 mg (hydrochloride) in ampoule.
	Tablet: 25 mg; 50 mg (hydrochloride).
hydralazine*	* Hydralazine is listed for use only in the acute management of severe pregnancy-induced hypertension. Its use in the treatment of essential hypertension is not recommended in view of the evidence of greater efficacy and safety of other medicines.
	Oral liquid: 50 mg/5 mL.
□ hydrochlorothiazide	Solid oral dosage form: 12.5 mg; 25 mg.
	Tablet: 250 mg.
methyldopa*	* Methyldopa is listed for use only in the management of pregnancy-induced hypertension. Its use in the treatment of essential hypertension is not recommended in view of the evidence of greater efficacy and safety of other medicines.
Complementary List	
sodium nitroprusside	Powder for infusion: 50 mg in ampoule.

12.4 Medicines used in heart failure	
□ bisoprolol*	Tablet: 1.25 mg; 5 mg.
	*□ includes metoprolol and carvedilol as alternatives.
	Injection: 250 micrograms/ mL in 2- mL ampoule.
digoxin	Oral liquid: 50 micrograms/ mL.
	Tablet: 62.5 micrograms; 250 micrograms.
🗆 enalapril	Tablet: 2.5 mg; 5 mg (as hydrogen maleate).
	Injection: 10 mg/ mL in 2- mL ampoule.
□ furosemide	Oral liquid: 20 mg/5 mL [c].
	Tablet: 40 mg.
□ hudrochlorothiozido	Oral liquid: 50 mg/5 mL.
□ hydrochlorothiazide	Solid oral dosage form: 25 mg.
spironolactone	Tablet: 25 mg.
Complementary List	
dopamine	Injection: 40 mg/ mL (hydrochloride) in 5- mL vial.
12.5 Antithrombotic medicines	
12.5.1 Anti-platelet medicines	
acetylsalicylic acid	Tablet: 100 mg.
clopidogrel	Tablet: 75 mg; 300 mg
12.5.2 Thrombolytic medicines	
Complementary List	
streptokinase	Powder for injection: 1.5 million IU in vial.
12.6 Lipid-lowering agents	
	Tablet: 5 mg; 10 mg; 20 mg; 40 mg.
□ simvastatin*	* For use in high-risk patients.
13. DERMATOLOGICAL MEDICINES (topical)
13.1 Antifungal medicines	
□ miconazole	Cream or ointment: 2% (nitrate).
selenium sulfide	Detergent-based suspension: 2%.
sodium thiosulfate	Solution: 15%.
terbinafine	Cream: 1% or Ointment: 1% terbinafine hydrochloride.

13.2 Anti-infective medicines		
	Cream (as mupirocin calcium): 2%.	
mupirocin	Ointment: 2%.	
potassium permanganate	Aqueous solution: 1:10 000.	
silver sulfadiazine a	Cream: 1%.	
	a >2 months.	
13.3 Anti-inflammatory and antipruritic medicines		
□ betamethasone a	Cream or ointment: 0.1% (as valerate).	
	a Hydrocortisone preferred in neonates.	
□ calamine	Lotion.	
□ hydrocortisone	Cream or ointment: 1% (acetate).	
13.4 Medicines affecting skin differentiat	ion and proliferation	
benzoyl peroxide	Cream or lotion: 5%.	
coal tar	Solution: 5%.	
fluorouracil	Ointment: 5%.	
□ podophyllum resin	Solution: 10% to 25%.	
salicylic acid	Solution: 5%.	
urea	Cream or ointment: 5%; 10%.	
13.5 Scabicides and pediculicides		
□ benzyl benzoate a	Lotion: 25%.	
	a >2 years.	
permethrin	Cream: 5%.	
Permeanin	Lotion: 1%.	
14. DIAGNOSTIC AGENTS		
14.1 Ophthalmic medicines		
fluorescein	Eye drops: 1% (sodium salt).	
□ tropicamide	Eye drops: 0.5%.	
14.2 Radiocontrast media		
□ amidotrizoate	Injection: 140 mg to 420 mg iodine (as sodium or meglumine salt)/ mL in 20- mL ampoule.	
barium sulfate	Aqueous suspension.	
□iohexol	Injection: 140 mg to 350 mg iodine/ mL in 5- mL; 10- mL; 20- mL ampoules.	

Complementary List	
barium sulfate [c]	Aqueous suspension.
meglumine iotroxate	Solution: 5 g to 8 g iodine in 100 mL to 250 mL.
15. DISINFECTANTS AND ANTIS	EPTICS
15.1 Antiseptics	
□ chlorhexidine	Solution: 5% (digluconate).
□ ethanol	Solution: 70% (denatured).
□ povidone iodine	Solution: 10% (equivalent to 1% available iodine).
15.2 Disinfectants	
	Solution containing ethanol 80% volume /volume
alcohol based hand rub	Solution containing isopropyl alcohol 75% volume/volume
□ chlorine base compound	Powder: (0.1% available chlorine) for solution.
□ chloroxylenol	Solution: 4.8%.
glutaral	Solution: 2%.
16. DIURETICS	
amiloride	Tablet: 5 mg (hydrochloride).
	Injection: 10 mg/ mL in 2- mL ampoule.
□ furosemide	Oral liquid: 20 mg/5 mL [c].
	Tablet: 10 mg [c] ; 20 mg [c] ; 40 mg.
□ hydrochlorothiazide	Solid oral dosage form: 25 mg.
mannitol	Injectable solution: 10%; 20%.
spironolactone	Tablet: 25 mg.
Complementary List [c]	
\Box hydrochlorothiazide	Tablet (scored): 25 mg.
mannitol	Injectable solution: 10%; 20%.
minoualactorea	Oral liquid: 5 mg/5 mL; 10 mg/5 mL; 25 mg/5 mL.
spironolactone	Tablet: 25 mg.
17. GASTROINTESTINAL MEDICI	NES
Complementary List [c]	
□ pancreatic enzymes	Age-appropriate formulations and doses including lipase, protease and amylase.
17.1 Antiulcer medicines	

□ omeprazole □ ranitidine	Powder for injection: 40 mg in vial	
	Powder for oral liquid: 20 mg; 40 mg sachets.	
	Solid oral dosage form: 10 mg; 20 mg; 40 mg.	
	Injection: 25 mg/ mL (as hydrochloride) in 2- mL ampoule.	
	Oral liquid: 75 mg/5 mL (as hydrochloride).	
	Tablet: 150 mg (as hydrochloride).	
17.2 Antiemetic medicines		
	Injection: 4 mg/ mL in 1- mL ampoule (as disodium phosphate salt).	
dexamethasone	Oral liquid: 0.5 mg/5 mL; 2 mg/5 mL.	
	Solid oral dosage form: 0.5 mg; 0.75 mg; 1.5 mg; 4 mg.	
	Injection: 5 mg (hydrochloride)/ mL in 2- mL ampoule.	
metoclopramide a	Oral liquid: 5 mg/5 mL [c].	
	Tablet: 10 mg (hydrochloride).	
	a Not in neonates.	
	Injection: 2 mg base/ mL in 2- mL ampoule (as hydrochloride).	
ondansetron a	Oral liquid: 4 mg base/5 mL.	
	Solid oral dosage form: Eq 4 mg base; Eq 8 mg base; Eq 24 mg base.	
	a >1 month.	
17.3 Anti-inflammatory medicines		
	Retention enema.	
🗆 sulfasalazine	Suppository: 500 mg.	
	Tablet: 500 mg.	
Complementary List	i	
	Retention enema.	
□ hydrocortisone	<i>Suppository:</i> 25 mg (acetate). (the □ only applies to hydrocortisone retention enema).	
17.4 Laxatives	· · · · · · · · · · · · · · · · · · ·	
□ senna	Tablet: 7.5 mg (sennosides) (or traditional dosage forms).	
17.5 Medicines used in diarrhoea		
17.5.1 Oral rehydration		
---------------------------------------	--	--
	Powder for dilution in 200) mL; 500 mL; 1 L.
oral rehydration salts	glucose: sodium: chloride: potassium: citrate: osmolarity: glucose: sodium chloride: potassium chloride: trisodium citrate dihydrate *trisodium citrate dihydrate sodium hydrogen carbona 2.5 g/L. However, as the st formulation is very poor u is recommended only whe immediate use.	te may be replaced by te (sodium bicarbonate) ability of this latter nder tropical conditions, it
17.5.2 Medicines for diarrhoea	I	
	Solid oral dosage form: 20) mg.
zinc sulfate*	* In acute diarrhoea zinc su adjunct to oral rehydration	
18. HORMONES, OTHER ENDOCRIN	E MEDICINES AND CONTRAC	CEPTIVES
18.1 Adrenal hormones and synthe	etic substitutes	
fludrocortisone	Tablet: 100 micrograms (additional contents)	cetate).
hydrocortisone	Tablet: 5 mg; 10 mg; 20 mg	у. Э
18.2 Androgens		
Complementary List		
testosterone	Injection: 200 mg (enanthat	e) in 1- mL ampoule.
18.3 Contraceptives		
18.3.1 Oral hormonal contraceptiv	es	
□ ethinylestradiol + □ levonorgestrel	Tablet: 30 micrograms + 15	50 micrograms.
🗆 ethinylestradiol + 🗆 norethisterone	Tablet: 35 micrograms + 1	mg.
levonorgestrel	Tablet: 30 micrograms; 750 two); 1.5 mg.) micrograms (pack of

18.3.2 Injectable hormonal contraceptive	es
estradiol cypionate + medroxyprogesterone acetate	Injection: 5 mg + 25 mg.
medroxyprogesterone acetate	Depot injection: 150 mg/ mL in 1- mL vial.
norethisterone enantate	Oily solution: 200 mg/ mL in 1- mL ampoule.
18.3.3 Intrauterine devices	
copper-containing device	
levonorgestrel-releasing intrauterine system	Intrauterine system with reservoir containing 52 mg of levonorestrel
18.3.4 Barrier methods	
condoms	
diaphragms	
18.3.5 Implantable contraceptives	
etonogestrel-releasing implant	Single-rod etonogestrel-releasing implant, containing 68 mg of etonogestrel.
levonorgestrel-releasing implant	Two-rod levonorgestrel-releasing implant, each rod containing 75 mg of levonorgestrel (150 mg total).
18.3.6 Intravaginal contraceptives	
nyogostayona yaginal ying*	Progesterone-releasing vaginal ring containing 2.074 g of micronized progesterone.
progesterone vaginal ring*	*For use in women actively breastfeeding at least 4 times per day
18.4 Estrogens	
18.5 Insulins and other medicines used f	or diabetes
	Solid oral dosage form: (controlled-release tablets) 30 mg; 60 mg;
□ gliclazide*	80 mg.
	* glibenclamide not suitable above 60 years.
glucagon	Injection: 1 mg/ mL.
insulin injection (soluble)	Injection: 40 IU/ mL in 10- mL vial; 100 IU/ mL in 10- mL vial.
intermediate-acting insulin	Injection: 40 IU/ mL in 10- mL vial; 100 IU/ mL in 10- mL vial (as compound insulin zinc suspension or isophane insulin).
metformin	Tablet: 500 mg (hydrochloride).
Complementary List [c]	
metformin	Tablet: 500 mg (hydrochloride).

18.6 Ovulation inducers	
Complementary List	
clomifene	Tablet: 50 mg (citrate).
18.7 Progestogens	
□ medroxyprogesterone acetate	Tablet: 5 mg.
18.8 Thyroid hormones and antithyroid	medicines
levothyroxine	Tablet: 25 micrograms [C] ; 50 micrograms;100 micrograms (sodium salt).
potassium iodide	Tablet: 60 mg.
D propylthiouracil	Tablet: 50 mg.
Complementary List [c]	
Lugol's solution	Oral liquid: about 130 mg total iodine/ mL.
potassium iodide	Tablet: 60 mg.
propylthiouracil	Tablet: 50 mg.
19. IMMUNOLOGICALS	
19.1 Diagnostic agents	
All tuberculins should comply with the WHO requ	irements for tuberculins.
tuberculin, purified protein derivative (PPD)	Injection.
19.2 Sera and immunoglobulins	
All plasma fractions should comply with the WHO	requirements.
Anti-venom immunoglobulin*	Injection.
	* Exact type to be defined locally.
diphtheria antitoxin	Injection: 10 000 IU; 20 000 IU in vial.

19.3 Vaccines

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

WHO vaccine position papers are updated three to four times per year. The list below details the vaccines for which there is a recommendation from SAGE and a corresponding WHO position paper as at **27 February 2015**. The most recent versions of the WHO position papers, reflecting the current evidence related to a specific vaccine and the related recommendations, can be accessed at any time on the WHO website at:

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

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

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

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

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

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

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

Recommendations for some high-risk populations	
cholera vaccine	
hepatitis A vaccine	
meningococcal meningitis vaccine	
rabies vaccine	
typhoid vaccine	
Recommendations for immunization programmes u	vith certain characteristics
influenza vaccine (seasonal)	
mumps vaccine	
varicella vaccine	
20. MUSCLE RELAXANTS (PERIPHERALLY INHIBITORS	-ACTING) AND CHOLINESTERASE
□ atracurium	Injection: 10 mg/ mL (besylate).
neostigmine	Injection: 500 micrograms in 1- mL ampoule; 2.5 mg (metilsulfate) in 1- mL ampoule.
	Tablet: 15 mg (bromide).
suxamethonium	Injection: 50 mg (chloride)/ mL in 2- mL ampoule.
suxaneuronum	Powder for injection (chloride), in vial.
□ vecuronium [c]	Powder for injection: 10 mg (bromide) in vial.
Complementary List	
pyridostigmine	Injection: 1 mg in 1- mL ampoule.
py moong mile	Tablet: 60 mg (bromide).
🗆 vecuronium	Powder for injection: 10 mg (bromide) in vial.
21. OPHTHALMOLOGICAL PREPARATION	S
21.1 Anti-infective agents	
aciclovir	Ointment: 3% W/W.
azithromycin	Solution (eye drops): 1.5%.
□ gentamicin	Solution (eye drops): 0.3% (sulfate).
□ ofloxacin	Solution (eye drops): 0.3%.
□ tetracycline	Eye ointment: 1% (hydrochloride).
21.2 Anti-inflammatory agents	
□ prednisolone	Solution (eye drops): 0.5% (sodium phosphate).

21.3 Local anaesthetics	
□ tetracaine a	Solution (eye drops): 0.5% (hydrochloride).
	a Not in preterm neonates.
21.4 Miotics and antiglaucoma medicine	s
acetazolamide	Tablet: 250 mg.
latanoprost	Solution (eye drops): latanoprost 50 micrograms/mL
□ pilocarpine	Solution (eye drops): 2%; 4% (hydrochloride or nitrate).
□ timolol	Solution (eye drops): 0.25%; 0.5% (as hydrogen maleate).
21.5 Mydriatics	
	Solution (eye drops): 0.1%; 0.5%; 1% (sulfate).
atropine* a	* [c] Or homatropine (hydrobromide) or cyclopentolate (hydrochloride).
	a >3 months.
Complementary List	
epinephrine (adrenaline)	Solution (eye drops): 2% (as hydrochloride).
21.6 Anti-vascular endothelial growth fa	ctor (VEGF) preparations
Complementary List	
bevacizumab	Injection: 25 mg/ mL.
22. OXYTOCICS AND ANTIOXYTOCICS	
22.1 Oxytocics	
□ ergometrine	Injection: 200 micrograms (hydrogen maleate) in 1- mL ampoule.
misoprostol	 Tablet: 200 micrograms. Management of incomplete abortion and miscarriage; Prevention and treatment of postpartum haemorrhage where oxytocin is not available or cannot be safely used Vacinal tablet: 25 micrograms *
	Vaginal tablet: 25 micrograms.*
	* Only for use for induction of labour where appropriate facilities are available.
oxytocin	Injection: 10 IU in 1- mL.
Complementary List	

mifepristone* – misoprostol*	
Where permitted under national law and	Tablet 200 mg – tablet 200 micrograms.
where culturally acceptable.	* Requires close medical supervision.
22.2 Antioxytocics (tocolytics)	
nifedipine	Immediate-release capsule: 10 mg.
23. PERITONEAL DIALYSIS SOLUTION	N
Complementary List	
intraperitoneal dialysis solution (of appropriate composition)	Parenteral solution.
24. MEDICINES FOR MENTAL AND	BEHAVIOURAL DISORDERS
24.1 Medicines used in psychotic diso	orders
	Injection: 25 mg (hydrochloride)/ mL in 2- mL ampoule.
□ chlorpromazine	Oral liquid: 25 mg (hydrochloride)/5 mL.
	Tablet: 100 mg (hydrochloride).
□ fluphenazine	Injection: 25 mg (decanoate or enantate) in 1- mL ampoule.
□ haloperidol	Injection: 5 mg in 1- mL ampoule.
	Tablet: 2 mg; 5 mg.
risperidone	Solid oral dosage form: 0.25 mg to 6.0 mg.
Complementary List	
	<i>Injection:</i> 25 mg (hydrochloride)/ mL in 2- mL ampoule.
chlorpromazine [c]	Oral liquid: 25 mg (hydrochloride)/5 mL.
	Tablet: 10 mg; 25 mg; 50 mg; 100 mg (hydrochloride).
clozapine	Solid oral dosage form: 25 to 200 mg.
	Injection: 5 mg in 1- mL ampoule.
haloperidol [C]	Oral liquid: 2 mg/ mL.
	Solid oral dosage form: 0.5 mg; 2 mg; 5 mg.

24.2 Medicines used in mood disord	lers	
24.2.1 Medicines used in depressive	e disorders	
□ amitriptyline	Tablet: 25 mg; 75mg. (hydrochloride).	
fluoxetine	Solid oral dosage form: 20 mg (as hydrochloride).	
Complementary List [c]		
fluoxetine <mark>a</mark>	<i>Solid oral dosage form:</i> 20 mg (as hydrochloride). a >8 years.	
24.2.2 Medicines used in bipolar dis	sorders	
carbamazepine	Tablet (scored): 100 mg; 200 mg.	
lithium carbonate	Solid oral dosage form: 300 mg.	
valproic acid (sodium valproate)	Tablet (enteric-coated): 200 mg; 500 mg (sodium valproate).	
24.3 Medicines for anxiety disorder	s	
🗆 diazepam	Tablet (scored): 2 mg; 5 mg.	
24.4 Medicines used for obsessive c	compulsive disorders	
clomipramine	Capsule: 10 mg; 25 mg (hydrochloride).	
24.5 Medicines for disorders due to	psychoactive substance use	
	Chewing gum: 2 mg; 4 mg (as polacrilex).	
nicotine replacement therapy (NRT)	Transdermal patch: 5 mg to 30 mg/16 hrs; 7 mg to 21 mg/24 hrs.	
Complementary List		
	Concentrate for oral liquid: 5 mg/ mL; 10 mg/ mL (hydrochloride).	
□ methadone*	Oral liquid: 5 mg/5 mL; 10 mg/5 mL (hydrochloride). * The square box is added to include buprenorphine. The medicines should only be used within an established support programme.	
25. MEDICINES ACTING ON THE RES	SPIRATORY TRACT	
25.1 Antiasthmatic and medicines for	or chronic obstructive pulmonary disease	
□ beclometasone	Inhalation (aerosol): 50 micrograms (dipropionate) per dose; 100 micrograms (dipropionate) per dose (as CFC free forms).	
□ budesonide [c]	Inhalation (aerosol): 100 micrograms per dose; 200 micrograms per dose.	
epinephrine (adrenaline)	Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1- mL ampoule.	
ipratropium bromide	Inhalation (aerosol): 20 micrograms/metered dose.	

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	Inhalation (aerosol): 100 micrograms (as sulfate) per dose.
🗆 salbutamol	Injection: 50 micrograms (as sulfate)/ mL in 5- mL ampoule.
	Metered dose inhaler (aerosol): 100 micrograms (as sulfate) per dose.
	Respirator solution for use in nebulizers: 5 mg (as sulfate)/ mL.

26. SOLUTIONS CORRECTING WATER, ELECTROLYTE AND ACID–BASE DISTURBANCES

26.1 Oral

20.1 018		
oral rehydration salts	See section 17.5.1.	
potassium chloride	Powder for solution.	
26.2 Parenteral	· ·	
glucose	Injectable solution: 5% (isotonic); 10% (hypertonic); 50% (hypertonic).	
glucose with sodium chloride	Injectable solution: 4% glucose, 0.18% sodium chloride (equivalent to Na+30 mmol/L, Cl- 30 mmol/L).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)[c].	
potassium chloride	 Solution: 11.2% in 20- mL ampoule (equivalent to K+ 1.5 mmol/ mL, Cl- 1.5 mmol/ mL). Solution for dilution: 7.5% (equivalent to K 1 mmol/ mL and Cl 1 mmol/ mL) [c]; 15% (equivalent to K 2 mmol/ mL and Cl 2 mmol/ mL) [c]. 	
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, HCO3- 167 mmol/L).Solution: 8.4% in 10- mL ampoule (equivalent to Na+1000 mmol/L, HCO3-1000 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.
calcium	Tablet: 500 mg (elemental).
	Oral liquid: 400 IU/ mL.
cholecalciferol* [C]	Solid oral dosage form: 400 IU; 1000 IU.
	* Ergocalciferol can be used as an alternative.
□ ergocalciferol	Oral liquid: 250 micrograms/ mL (10 000 IU/ mL).
	Solid oral dosage form: 1.25 mg (50 000 IU).
	Capsule: 200 mg.
iodine	Iodized oil: 1 mL (480 mg iodine); 0.5 mL (240 mg iodine) in ampoule (oral or injectable); 0.57 mL (308 mg iodine) in dispenser bottle.
□ nicotinamide	Tablet: 50 mg.
pyridoxine	Tablet: 25 mg (hydrochloride).
	Capsule: 50 000 IU; 100 000 IU; 200 000 IU (as palmitate).
retinol	Oral oily solution: 100 000 IU (as palmitate)/ mL in multidose dispenser.
	Tablet (sugar-coated): 10 000 IU (as palmitate).
	Water-miscible injection: 100 000 IU (as palmitate) in 2- mL ampoule.
riboflavin	Tablet: 5 mg.
sodium fluoride	In any appropriate topical formulation.
thiamine	Tablet: 50 mg (hydrochloride).
Complementary List	
calcium gluconate	<i>Injection:</i> 100 mg/ mL in 10- mL ampoule.
28. EAR, NOSE AND THROAT MEDICI	NES [c]
acetic acid	Topical: 2%, in alcohol.
□ budesonide	Nasal spray: 100 micrograms per dose.
□ ciprofloxacin	Topical: 0.3% drops (as hydrochloride).
_ · · · ·	Nasal spray: 0.05%.
□ xylometazoline a	a Not in children less than 3 months.

29. SPECIFIC MEDICINES	FOR NEONATAL CARE
29.1 Medicines administered	d to the neonate [c]
caffeine citrate	Injection: 20 mg/ mL (equivalent to 10 mg caffeine base/ mL).
carreine citrate	Oral liquid: 20 mg/ mL (equivalent to 10 mg caffeine base/ mL).
Chlorhexidine	Solution or gel: 7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care) [c] .
Complementary List	
🗖 ibuprofen	<i>Solution for injection</i> : 5 mg/ mL.
	Solution for injection:
🗖 prostaglandin E	<i>Prostaglandin E1:</i> 0.5 mg/ mL in alcohol. <i>Prostaglandin E 2:</i> 1 mg/ mL.
surfactant	Suspension for intratracheal instillation: 25 mg/ mL or 80 mg/ mL.
29.2 Medicines administered	d to the mother
dexamethasone	Injection: 4 mg/ mL dexamethasone phosphate (as disodium salt)
30. MEDICINES FOR DISE	ASES OF JOINTS
30.1 Medicines used to treat	t gout
allopurinol	Tablet: 100 mg.
30.2 Disease-modifying age	nts used in rheumatoid disorders (DMARDs)
chloroquine	Tablet: 100 mg; 150 mg (as phosphate or sulfate).
Complementary List	
azathioprine	<i>Tablet:</i> 50 mg.
hydroxychloroquine [c]	Solid oral dosage form: 200 mg (as sulfate).
methotrexate	Tablet: 2.5 mg (as sodium salt).
penicillamine	Solid oral dosage form: 250 mg.
sulfasalazine	Tablet: 500 mg.
30.3 Juvenile joint diseases	
	Suppository: 50 mg to 150 mg.
acetylsalicylic acid* (acute or chronic use)	Tablet: 100 mg to 500 mg.
	* For use for rheumatic fever, juvenile arthritis, Kawasaki disease.

atazanavir	>25 kg
atropine	>3 months
benzyl benzoate	>2 years
betamethasone topical preparations	hydrocortisone preferred in neonates
cefazolin	>1 month
ceftriaxone	>41 weeks corrected gestational age
darunavir	> 3 years
diloxanide	>25 kg
doxycycline	>8 years (except for serious infections e.g. cholera)
efavirenz	>3 years or >10 kg
fluoxetine	>8 years
ibuprofen	>3 months (except IV form for patent ductus arteriosus)
mefloquine	>5 kg or >3 months
metoclopramide	Not in neonates
nevirapine	>6 weeks
ondansetron	>1 month
saquinavir	>25 kg
silver sulfadiazine	>2 months
tetracaine	Not in preterm neonates
trimethoprim	>6 months
xylometazoline	>3 months

Table 1.1: Medicines with age or weight restrictions

Table 1.2: Explanation of dosage forms

A. Principal dosage forms used in EML – oral administration

Term	Definition
Solid oral dosage form	Refers to tablets or capsules or other solid dosage forms such as 'melts' that are immediate-release preparations. It implies that there is no difference in clinical efficacy or safety between the available dosage forms, and countries should therefore choose the form(s) to be listed depending on quality and availability. The term 'solid oral dosage form' is <i>never</i> intended to allow any type of modified-release tablet.
	Refers to:
Tablets	 uncoated or coated (film-coated or sugar-coated) tablets that are intended to be swallowed whole; unscored and scored[*]; tablets that are intended to be chewed before being swallowed; tablets that are intended to be dispersed or dissolved in water or another suitable liquid before being swallowed; tablets that are intended to be crushed before being swallowed.
Tablets (qualified)	Refers to a specific type of tablet: chewable - tablets that are intended to be chewed before being swallowed; dispersible - tablets that are intended to be dispersed in water or another suitable liquid before being swallowed; soluble - tablets that are intended to be dissolved in water or another suitable liquid before being swallowed; crushable - tablets that are intended to be crushed before being swallowed; scored - tablets that are intended to be crushed before being swallowed; scored - tablets bearing a break mark or marks where sub-division is intended in order to provide doses of less than one tablet; sublingual - tablets that are intended to be placed beneath the tongue. The term 'tablet' is <i>always</i> qualified with an additional term (in parentheses) in entries where one of the following types of tablet is intended: gastro-resistant (such tablets may sometimes be described as enteric-coated or as delayed-release), prolonged-release or another modified-release form.

^{*} Scored tablets may be divided for ease of swallowing, provided that dose is a whole number of tablets.

Term	Definition
Capsules	Refers to hard or soft capsules. The term 'capsule' without qualification is <i>never</i> intended to allow any type of modified-release capsule.
Capsules (qualified)	The term 'capsule' with qualification refers to gastro-resistant (such capsules may sometimes be described as enteric-coated or as delayed-release), prolonged-release or another modified-release form.
Granules	Preparations that are issued to patient as granules to be swallowed without further preparation, to be chewed, or to be taken in or with water or another suitable liquid. The term 'granules' without further qualification is <i>never</i> intended to allow any type of modified-release granules.
Oral powder	Preparations that are issued to patient as powder (usually as single- dose) to be taken in or with water or another suitable liquid.
Oral liquid	Liquid preparations intended to be <i>swallowed</i> i.e. oral solutions, suspensions, emulsions and oral drops, including those constituted from powders or granules, but <i>not</i> those preparations intended for <i>oromucosal</i> <i>administration</i> e.g. gargles and mouthwashes. Oral liquids presented as powders or granules may offer benefits in the form of better stability and lower transport costs. If more than one type of oral liquid is available on the same market (e.g. solution, suspension, granules for reconstitution), they may be interchanged and in such cases should be bioequivalent. It is preferable that oral liquids do not contain sugar and that solutions for children do not contain alcohol.

B. Principal dosage forms used in EMLc – parenteral administration

Term	Definition
Injection	Refers to solutions, suspensions and emulsions including those
	constituted from powders or concentrated solutions.
Injection (qualified)	Route of administration is indicated in parentheses where relevant.
Injection (oily)	The term `injection' is qualified by `(oily)' in relevant entries.
Intravenous infusion	Refers to solutions and emulsions including those constituted from
	powders or concentrated solutions.

C. Other dosage forms

Mode of	Term to be used		
administration			
To the eye	Eye drops, eye ointments.		
Topical	For liquids: lotions, paints.		
	For semi-solids: cream, ointment.		
Rectal	Suppositories, gel or solution.		
Vaginal	Pessaries or vaginal tablets.		
Inhalation	Powder for inhalation, pressurized inhalation, nebulizer.		

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artesunate	16	coagulation factor IX	27
artesunate + amodiaquine	16 16	<i>coagulation factor VIII</i> coal tar	27 30
artesunate + mefloquine ascorbic acid	42	codeine	50 2
asparaginase	42 19	condoms	34
atazanavir	13	copper-containing device	34
atracurium	37	cyclizine	2
atropine	1, 4, 38	cyclophosphamide	20
azathioprine	19, 43	cycloserine	11
azithromycin	8, 37	cytarabine	20
barium sulfate	30, 31	dacarbazine	20
BCG vaccine	36	daclatasvir	15
beclometasone	40	dactinomycin	20
bedaquiline	11	dapsone	9
bendamustine	19	darunavir	13
benzathine benzylpenicillin	7	dasabuvir	15
benznidazole	18	daunorubicin	21
benzoyl peroxide	30	deferoxamine	4, 26
benzyl benzoate	30 7	delamanid	11
benzylpenicillin betamethasone	30	desmopressin dexamethasone	26 2, 3, 24, 32, 43
bevacizumab	38	dextran 70	2, 3, 24, 32, 43
bicalutamide	24	diaphragms	34
biperiden	25	diazepam	3, 5, 40
bisoprolol	27, 28, 29	diethylcarbamazine	6
bleomycin	19	digoxin	27, 29
budesonide	40, 42	diloxanide	15
bupivacaine	1	dimercaprol	4
caffeine citrate	43	diphtheria antitoxin	35
calamine	30	diphtheria vaccine	36
calcium	42	docetaxel	21
calcium folinate	19	docusate sodium	3
calcium gluconate	4, 42	dopamine	29
capecitabine	19	doxorubicin	21
capreomycin	11	doxycycline	8, 17
carbamazepine	5,40	efavirenz (EFV or EFZ)	13
<i>carboplatin</i>	20	efavirenz + emtricitabine + tenofovir	13
cefalexin cefazolin	7 7	eflornithine emtricitabine + tenofovir	18 14
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enalapril	28, 29	iodine	42
enoxaparin	25	iohexol	30
entecavir	14	ipratropium bromide	40
ephedrine	1	irinotecan	22
	28, 38, 40	isoflurane	1
ergocalciferol	42	isoniazid	10
ergometrine	38	isoniazid + pyrazinamide + rifampicin	10
erythromycin	9	isoniazid + rifampicin	10
estradiol cypionate + medroxyprogesterone acetate	34	isosorbide dinitrate	27
ethambutol	10	ivermectin	6
ethambutol + isoniazid	10	Japanese encephalitis vaccine	36
ethambutol + isoniazid + pyrazinamide + rifampicin		kanamycin	11
ethambutol + isoniazid + rifampicin	10	ketamine	1
ethanol	31	lactulose	3
ethinylestradiol + levonorgestrel	33	lamivudine (3TC)	12
ethinylestradiol + norethisterone	33	lamivudine + nevirapine + stavudine	14
ethionamide	11	lamivudine + nevirapine + zidovudine	14
ethosuximide	5	lamivudine + zidovudine	14
etonogestrel-releasing implant	34	latanoprost)	38
etoposide	21	ledipasvir + sofosbuvir	15
ferrous salt	25	leuprorelin	24
ferrous salt + folic acid	25	levamisole	6
filgrastim	22	levodopa + carbidopa	25
fluconazole	11	levofloxacin	11
flucytosine	11	levonorgestrel	33
fludarabine	21	levonorgestrel-releasing implant	33
fludrocortisone	33		34
		levonorgestrel-releasing intrauterine system	
fluorescein	30	levothyroxine	35
fluorouracil	21, 30	lidocaine	1,28
fluoxetine	3, 40	lidocaine + epinephrine (adrenaline)	1
fluphenazine	39	linezolid	11
folic acid	25	lithium carbonate	40
fomepizole	4	loperamide	3
fresh frozen plasma	26	lopinavir + ritonavir (LPV/r)	13
furosemide	29, 31	loratadine	4
gemcitabine	22	lorazepam	5
gentamicin	9, 37	Lugol's solution	35
gliclazide	34	magnesium sulfate	5
glucagon	34	mannitol	31
glucose	41	measles vaccine	36
glucose with sodium chloride	41	mebendazole	6
glutaral	31	medroxyprogesterone acetate	34, 35
glyceryl trinitrate	27	mefloquine	17
griseofulvin	12	meglumine iotroxate	31
Haemophilus influenzae type b vaccine	36	melarsoprol	18
haloperidol	3, 39	meningococcal meningitis vaccine	37
halothane	1	mercaptopurine	22
heparin sodium	25, 26		22
	,	mesna mestermin	35
hepatitis A vaccine	37	metformin	
hepatitis B vaccine	36	methadone	40
HPV vaccine	36	methotrexate	23, 43
hydralazine	28	methyldopa	28
	28, 29, 31	methylprednisolone	24
•	30, 32, 33	methylthioninium chloride (methylene blue)	4
hydroxocobalamin	25	metoclopramide	32
hydroxycarbamide	22, 26	metronidazole	9, 15
hydroxychloroquine	43	miconazole	29
hyoscine butylbromide	3	midazolam	1, 3, 5
hyoscine hydrobromide	3	mifepristone	39
ibuprofen	2, 18, 43	miltefosine	15
ifosfamide	22	misoprostol	38, 39
imatinib	22	morphine	1, 2
imipenem + cilastatin	8	mumps vaccine	37
influenza vaccine	37	mupirocin	30
insulin injection (soluble)	34	naloxone	4
intermediate-acting insulin	34	neostigmine	37
intraperitoneal dialysis solution (of appropriate com		nevirapine (NVP)	13
and appropriate com	1903111011) 39	niclosamide	6

nicotinamide	42	rifabutin	10
nicotine replacement therapy (NRT)	40	rifampicin	10
nifedipine	39	rifapentine	10
nifurtimox	18	risperidone	39
nitrofurantoin	9	ritonavir	13
nitrous oxide	1	rituximab	23
norethisterone enantate	34	rotavirus vaccine	36
normal immunoglobulin	27	rubella vaccine	36
nystatin	12	salbutamol	41
ofloxacin	38	salicylic acid	30
ombitasvir + paritaprevir + ritonavir	15	saquinavir (SQV)	13
omeprazole	32	selenium sulfide	29
ondansetron	3, 32	senna	3, 32
oral rehydration salts	33, 41	silver sulfadiazine	30
oseltamivir	14	simeprevir	15
oxaliplatin	23	simvastatin	29
oxamniquine	6	sodium calcium edetate	4
oxygen	1	sodium chloride	41
oxytocin	39	sodium fluoride	42
packed red blood cells	26	sodium hydrogen carbonate	41
paclitaxel	23	sodium lactate	41
p-aminosalicylic acid	11	sodium nitrite	4
pancreatic enzymes	31	sodium nitroprusside	28
paracetamol	2, 18	sodium stibogluconate or meglumine antimoniate	16
paromomycin	15	sodium thiosulfate	4, 29
pegylated interferon alfa 2a	15	sofosbuvir	14
penicillamine	4, 43	spectinomycin	9
pentamidine	18	spironolactone	29, 31
permethrin	30	stavudine (d4T)	12
pertussis vaccine	36	streptokinase	29
phenobarbital	5	streptomycin	11
phenoxymethylpenicillin	7	succimer	4
phenytoin	5	sulfadiazine	17
phytomenadione	26	sulfadoxine + pyrimethamine	17
pilocarpine	38	sulfamethoxazole + trimethoprim	9, 17
platelet concentrates	26	sulfasalazine	32, 43
pneumococcal vaccine	36	suramin sodium	18
podophyllum resin	30	surfactant	43
poliomyelitis vaccine	36	suxamethonium	37
potassium chloride	41	tamoxifen	25
potassium ferric hexacyano-ferrate(II) -2H ₂ 0 (I		tenofovir disoproxil fumarate	12, 14
potassium iodide	12, 35	terbinafine	29
potassium permanganate	30	testosterone	33
povidone iodine	31	tetanus vaccine	36
praziquantel	6	tetracaine	38
prednisolone	4, 25, 38	tetracycline	38
primaquine	17	thiamine	42
procaine benzylpenicillin	7	thioguanine	23
procarbazine	23	tick-borne encephalitis vaccine	37
progesterone vaginal ring	34	timolol	38
proguanil	17	tranexamic acid	26
propofol	1	trastuzumab	23
propranolol	18	triclabendazole	6
propylthiouracil	35	trimethoprim	9
prostaglandin E	43	tropicamide	30
protamine sulfate	26	tuberculin, purified protein derivative (PPD)	35
pyrantel	6	typhoid vaccine	37
pyrazinamide	10	urea	30
pyridostigmine	37	valganciclovir	14
pyridoxine	42	valproic acid (sodium valproate)	5, 6, 40
pyrimethamine	17	vancomycin	9
quinine	17	varicella vaccine	37
rabies immunoglobulin	26	vecuronium	37
rabies vaccine	37	verapamil	27, 28
ranitidine	32	vinblastine	23
retinol	42	vincristine	24
ribavirin	14, 15	vinorelbine	24
riboflavin	42	warfarin	26

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water for injection	41	yellow fever vaccine	36
whole blood	26	zidovudine (ZDV or AZT)	13
xylometazoline	42	zinc sulfate	33