5th List

(April 2015)

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Status of this document

This is a reprint of the text on the WHO Medicines website

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



5th edition

WHO Model List of Essential Medicines for Children (April 2015)

Explanatory notes

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

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

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

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

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

The format and numbering of the 18th WHO Model List of Essential Medicines have been retained but, as indicated in the text, some sections have been deleted because they contain medicines that are not relevant for children.

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

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

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

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

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

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

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Inhalation.	
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Inhalation (medicinal gas).	
illiaiation (medicinai gas).	
Injection: 50 mg (as hydrochloride)/mL in 10-mL vial.	
Injection: 10 mg/mL; 20 mg/mL.	
* Thiopental may be used as an alternative depending on local availability and cost.	
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.	
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.	
Injection: 1%; 2% (hydrochloride or sulfate) + epinephrine 1:200 000 in vial.	
1.3 Preoperative medication and sedation for short-term procedures	
Injection: 1 mg (sulfate) in 1-mL ampoule.	
Injection: 1 mg/mL.	
Oral liquid: 2 mg/mL.	
Tablet: 7.5 mg; 15 mg.	
Injection: 10 mg (sulfate or hydrochloride) in 1-mL	

2. MEDICINES FOR PAIN AND PALLIATIVE CARE	
2.1 Non-opioids and non-steroidal	anti-inflammatory medicines (NSAIMs)
ibuprofen a	Oral liquid: 200 mg/5 mL.
	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	
	Granules (slow release; to mix with water): 20 mg to 200 mg (morphine sulfate).
	Injection: 10 mg (morphine hydrochloride or morphine sulfate) in 1-mL ampoule.
□ morphine*	Oral liquid: 10 mg (morphine hydrochloride or morphine sulfate)/5 mL.
	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 symptoms	common in palliative care
amitriptyline	Tablet: 10 mg; 25 mg.
111	Injection: 50 mg/mL.
cyclizine	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.
diazepam	Injection: 5 mg/mL.
	Oral liquid: 2 mg/5 mL.
	Rectal solution: 2.5 mg; 5 mg; 10 mg.
	Tablet: 5 mg; 10 mg.
docusate sodium	Capsule: 100 mg.
	Oral liquid: 50 mg/5 mL.

	Salid and decade form, 20 mg (as hydrochlarida)
fluoxetine a	Solid oral dosage form: 20 mg (as hydrochloride).
	a >8 years.
hyoscine hydrobromide	Injection: 400 micrograms/mL; 600 micrograms/mL.
	Transdermal patches: 1 mg/72 hours.
lactulose	Oral liquid: 3.1–3.7 g/5 mL.
	Injection: 1 mg/mL; 5 mg/mL.
midazolam	Oral liquid: 2mg/mL.
	Solid oral dosage form: 7.5 mg; 15 mg.
	Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride).
ondansetron 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 MEDIC	INES 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.
- 1: 1	Oral liquid: 5 mg/mL.
□ prednisolone	Tablet: 5 mg; 25 mg.
4. ANTIDOTES AND OTHER SUB	STANCES USED IN POISONINGS
4.1 Non-specific	
charcoal, activated	Powder.
4.2 Specific	I
	Injection: 200 mg/mL in 10-mL ampoule.
acetylcysteine	Oral liquid: 10%; 20%.
atropine	Injection: 1 mg (sulfate) in 1-mL ampoule.
calcium gluconate	Injection: 100 mg/mL in 10-mL ampoule.
	I

naloxone	Injection: 400 micrograms (hydrochloride) in 1-mL ampoule.
Complementary List	
deferoxamine	Powder for injection: 500 mg (mesilate) in vial.
dimercaprol	Injection in oil: 50 mg/mL in 2-mL ampoule.
fomepizole	Injection: 5 mg/mL (sulfate) in 20-mL ampoule or 1 g/mL (base) in 1.5-mL ampoule.
sodium calcium edetate	Injection: 200 mg/mL in 5-mL ampoule.
succimer	Solid oral dosage form: 100 mg.
5. ANTICONVULSANTS/ANT	IEPILEPTICS
	Oral liquid: 100 mg/5 mL.
carbamazepine	Tablet (chewable): 100 mg; 200 mg.
	Tablet (scored): 100 mg; 200 mg.
diazepam	Gel or rectal solution: 5 mg/mL in 0.5 mL; 2-mL; 4-mL tubes.
□ lorazepam	Parenteral formulation: 2 mg/mL in 1-mL ampoule; 4 mg/mL in 1-mL ampoule.
	Solution for oromucosal administration: 5 mg/mL; 10 mg/mL
midazolam	Ampoule*: 1 mg/ mL; 10 mg/mL
maazotan	*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.
phenytoin	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).
	Tablet (chewable): 50 mg.
	* The presence of both 25 mg/5 mL and 30 mg/5 mL strengths on the same market would cause confusion in prescribing and dispensing and should be avoided.

	Oral liquid: 200 mg/5 mL.
valproic acid (sodium valproate)	Tablet (crushable): 100 mg.
	Tablet (enteric-coated): 200 mg; 500 mg (sodium valproate).
Complementary List	'
ath acusinii da	Capsule: 250 mg.
ethosuximide	Oral liquid: 250 mg/5 mL.
valproic acid (sodium valproate)	Injection: 100 mg/ mL in 4- mL ampoule; 100 mg/ mL in 10-mL ampoule.
6. ANTI-INFECTIVE MEDICINE	is The state of th
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	er antitrematode medicines
praziquantel	Tablet: 600 mg.
triclabendazole	Tablet: 250 mg.
Complementary List	
	Capsule: 250 mg.
oxamniquine*	Oral liquid: 250 mg/5 mL.
,	* Oxamniquine is listed for use when praziquantel treatment fails.
6.2 Antibacterials	
6.2.1 Beta-lactam medicines	

amoxicillin	Powder for oral liquid: 125 mg (as trihydrate)/5 mL; 250 mg (as trihydrate)/5 mL.
	Solid oral dosage form: 250 mg; 500 mg (as trihydrate).
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.
	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; 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	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.
	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	1

	D 1 (11 11 250 11 11 11)
cefotaxime*	Powder for injection: 250 mg per vial (as sodium salt).
	* 3rd generation cephalosporin of choice for use in hospitalized neonates.
ceftazidime	Powder for injection: 250 mg or 1 g (as pentahydrate) in vial.
imipenem* + cilastatin*	Powder for injection: 250 mg (as monohydrate) + 250 mg (as sodium salt); 500 mg (as monohydrate) + 500 mg (as sodium salt) in vial.
	* Only listed 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.
	* Listed only for trachoma.
chloramphenicol	Capsule: 250 mg.
	Oily suspension for injection*: 0.5 g (as sodium succinate)/mL in 2-mL ampoule.
	* Only for the presumptive treatment of epidemic meningitis in children older than 2 years.
	Oral liquid: 150 mg (as palmitate)/5 mL.
	Powder for injection: 1 g (sodium succinate) in vial.
	Oral liquid: 250 mg/5 mL (anhydrous).
ciprofloxacin	Solution for IV infusion: 2 mg/mL (as hyclate).
•	Tablet: 250 mg (as hydrochloride).
	Oral liquid: 25 mg/5 mL; 50 mg/5 mL (anhydrous).
doxycycline a	Solid oral dosage form: 50 mg; 100 mg (as hyclate).
doxycycline G	a Use in children <8 years only for life-threatening infections when no alternative exists.
arythramyain	Powder for oral liquid: 125 mg/5 mL (as stearate or estolate or ethyl succinate).
erythromycin	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.

metronidazole	Injection: 500 mg in 100-mL vial.
	Oral liquid: 200 mg (as benzoate)/5 mL.
	Tablet: 200 mg to 500 mg.
nitrofurantoin	Oral liquid: 25 mg/5 mL.
	Tablet: 100 mg.
	Injection:
sulfamethoxazole + trimethoprim	80 mg + 16 mg/mL in 5-mL ampoule; 80 mg + 16 mg/mL in 10-mL ampoule.
-	Oral liquid: 200 mg + 40 mg/5 mL.
	Tablet: 100 mg + 20 mg; 400 mg + 80 mg.
	Oral liquid: 50 mg/5 mL.
trimethoprim a	Tablet: 100 mg; 200 mg.
	a >6 months.
Complementary List	
clindamycin	Capsule: 150 mg (as hydrochloride).
	Injection: 150 mg (as phosphate)/mL.
	Oral liquid: 75 mg/5 mL (as palmitate).
vancomycin	Powder for injection: 250 mg (as hydrochloride) in vial.
6 2 2 Antilonrosy modicines	

6.2.3 Antileprosy medicines

Medicines used in the treatment of leprosy should never be used except in combination. Combination therapy is essential to prevent the emergence of drug resistance. Colour-coded blister packs (MDT blister packs) containing standard two-medicine (paucibacillary leprosy) or three-medicine (multibacillary leprosy) combinations for adult and childhood leprosy should be used. MDT blister packs can be supplied free of charge through WHO.

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

6.2.4 Antituberculosis medicines

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

Oral liquid: 25 mg/mL.
Tablet: 100 mg; 400 mg (hydrochloride).
Oral liquid: 50 mg/5 mL.
Tablet: 100 mg to 300 mg.
Tablet (scored): 50 mg.

d: 30 mg/mL.
_
) mg.
spersible): 150 mg.
ored): 150 mg.
d: 20 mg/mL.
dosage form: 150 mg; 300 mg.
0 mg
nent of latent TB infection (LTBI) only
drug-resistant tuberculosis (MDR-TB) should dards for TB control.
r injection: 100 mg; 500 mg; 1 g (as sulfate) in
r injection: 1 g (as sulfate) in vial.
dosage form: 250 mg.
5 mg; 250 mg.
ide may be used as an alternative.
r injection: 1 g (as sulfate) in vial.
) mg: 500 mg.
and moxifloxacin may be used as alternatives ailability and programme considerations.
or intravenous administration: 2 mg/ mL in
r oral liquid: 100 mg/5 mL,
0 mg; 600 mg
1 g in sachet.
) mg.
r injection: 1 g (as sulfate) in vial.
r injection: 50 mg in vial (as sodium ate or liposomal complex).
0 mg.
2 mg/mL in vial.
d: 50 mg/5 mL.
50 mg.

griseofulvin	Oral liquid: 125 mg/5 mL.
	Solid oral dosage form: 125 mg; 250 mg.
	Lozenge: 100 000 IU.
nystatin	Oral liquid: 50 mg/5 mL; 100 000 IU/mL.
	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.
aciclovir	Powder for injection: 250 mg (as sodium salt) in vial.
	Tablet: 200 mg.
6 1 2 Antirotrovirals	

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.

6.4.2.1 Nucleoside	'Nucleotide reverse	transcriptase inhibitors
0		c. a

6.4.2.1 Nucleoside/Nucleotide reve	erse transcriptase inhibitors
abacavir (ABC)	Oral liquid: 100 mg (as sulfate)/5 mL.
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.
zidovudine (ZDV or AZT)	Capsule: 100 mg. Oral liquid: 50 mg/5 mL.
6.4.2.2 Non-nucleoside reverse tra	nscriptase inhibitors
efavirenz (EFV or EFZ) a	Capsule: 50 mg; 100 mg; 200 mg. Tablet: 200 mg (scored). a > 3 years or > 10 kg.

	Oral liquid: 50 mg/5 mL.	
nevirapine (NVP) a	Tablet: 50 mg (dispersible); 200 mg.	
	a > 6 weeks	
6.4.2.3 Protease inhibitors		
consideration of international and national	del List will need to be determined by each country after all treatment guidelines and experience. Ritonavir is narmacological booster, and not as an antiretroviral in its be used in boosted forms (e.g. with ritonavir).	
atazanavir a	Solid oral dosage form: 100 mg; 150 mg (as sulfate).	
atazatavii 🖬	a >25 kg.	
darunavir a	Tablet: 75 mg;	
uarunavn <u>u</u>	a >3 years	
lopinavir + ritonavir (LPV/r)	Oral liquid: 400 mg + 100 mg/5 mL.	
Tophiavii + Inoliavii (Li v/i)	Tablet (heat stable): 100 mg + 25 mg-	
ritonavir	Oral liquid: 400 mg/5 mL.	
Honavii	Tablet (heat stable): 25 mg; 100 mg.	
FIXED-DOSE COMBINATIONS		
abacavir + lamivudine	Tablet (dispersible, scored): 60 mg (as sulfate) + 30 mg	
lamivudine + nevirapine + stavudine	Tablet (dispersible): 30 mg + 50 mg + 6 mg.	
lamivudine + nevirapine + zidovudine	Tablet: 30 mg + 50 mg + 60 mg.	
lamivudine + zidovudine	Tablet: 30 mg + 60 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 only.	

Complementary List	Powder for oral solution: 50 mg/mL
1 .1 . *	Powder for oral solution: 50 mg/mL
1 '1 '4	
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 re	everse transcriptase inhibitors
entecavir	Oral liquid: 0.05 mg/ mL
entecavii	Tablet: 0.5 mg; 1 mg
6.4.4.2 Medicines for hepatitis C	
6.5 Antiprotozoal medicines	
6.5.1 Antiamoebic and antigiardias	is medicines
diloxanide a	Tablet: 500 mg (furoate).
unoxanide 🖪	a >25 kg.
	Injection: 500 mg in 100-mL vial.
□ metronidazole	Oral liquid: 200 mg (as benzoate)/5 mL.
	Tablet: 200 mg to 500 mg.
6.5.2 Antileishmaniasis medicines	
amphotericin B	Powder for injection: 50 mg in vial.
	As sodium deoxycholate or liposomal complex.
miltefosine	Solid oral dosage form: 10 mg; 50 mg.
paromomycin	Solution for intramuscular injection: 750 mg of paromomycin base (as the sulfate).
sodium stibogluconate or meglumine antimoniate	Injection: 100 mg/mL, 1 vial = 30 mL or 30%, equivalent to approximately 8.1% antimony (pentavalent) in 5-mL ampoule.
6.5.3 Antimalarial medicines	
6.5.3.1 For curative treatment	
currently recommends combinations accord the fixed dose combinations (FDCs in the	<i>m</i> malaria cases should be used in combination. The list ing to treatment guidelines. WHO recognizes that not all of e WHO treatment guidelines exist, and encourages their also encourages development and testing of rectal dosage
amodiaquine*	Tablet: 153 mg or 200 mg (as hydrochloride).

artemether*	Oily injection: 80 mg/mL in 1-mL ampoule.
artementer	* For use in the management of severe malaria.
	Tablet: 20 mg + 120 mg.
artemether + lumefantrine*	Tablet (dispersible): 20 mg + 120 mg.
	* Not recommended in the first trimester of pregnancy or in children below 5 kg.
	Injection: ampoules, containing 60 mg anhydrous artesunic acid with a separate ampoule of 5% sodium bicarbonate solution.
	For use in the management of severe malaria.
artesunate*	Rectal dosage form: 50 mg; 200 mg capsules (for prereferral treatment of severe malaria only; patients should be taken to an appropriate health facility for follow-up care).
	Tablet: 50 mg.
	* To be used in combination with either amodiaquine, mefloquine or sulfadoxine + pyrimethamine.
	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).
	* To be used in combination with artesunate 50 mg.
	Tablet: 7.5 mg; 15 mg (as diphosphate).
primaquine*	* Only for use to achieve radical cure of <i>P.vivax</i> and <i>P.ovale</i> infections, given for 14 days.

quinine*	Injection: 300 mg quinine hydrochloride/mL in 2-mL ampoule.
	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).
	* For use only for the treatment of <i>P.vivax</i> infection.
doxycycline a	Solid oral dosage form: 100 mg (as hydrochloride or hyclate).
	a >8 years.
	Tablet: 250 mg (as hydrochloride).
mefloquine a	a >5 kg or >3 months.
	Tablet: 100 mg (as hydrochloride).
proguanil*	* For use only in combination with chloroquine.
6.5.4 Antipneumocystosis and and	titoxoplasmosis medicines
pyrimethamine	Tablet: 25 mg.
sulfadiazine	Tablet: 500 mg.
	Injection:
	80 mg + 16 mg/mL in 5-mL ampoule;
sulfamethoxazole + trimethoprim	80 mg + 16 mg/mL in 10-mL ampoule.
	Oral liquid: 200 mg + 40 mg/5 mL.
	Tablet: 100 mg + 20 mg; 400 mg + 80 mg.
6.5.5 Antitrypanosomal medicines	5
6.5.5.1 African trypanosomiasis	
Medicines for the treatment of 1st stage A	frican trypanosomiasis.
pentamidine*	Powder for injection: 200 mg (as isetionate) in vial.
	* To be used for the treatment of <i>Trypanosoma brucei</i> gambiense infection.
	Powder for injection: 1 g in vial.
suramin sodium*	* To be used for the treatment of the initial phase of <i>Trypanosoma brucei rhodesiense</i> infection.
L	1

Medicines for the treatment of 2nd stag	ge African trypanosomiasis
eflornithine*	Injection: 200 mg (hydrochloride)/mL in 100-mL bottle.
	* To be used for the treatment of <i>Trypanosoma brucei</i> gambiense infection.
	Tablet: 120 mg.
nifurtimox*	* Only to be used in combination with eflornithine, for the treatment of <i>Trypanosoma brucei gambiense</i> infection.
Complementary List	
melarsoprol	Injection: 3.6% solution in 5-mL ampoule (180 mg of active compound).
6.5.5.2 American trypanosomia	asis
benznidazole	Tablet: 12.5 mg; 100 mg.
benznidazoie	Tablet (scored): 50 mg.
nifurtimox	Tablet: 30 mg; 120 mg; 250 mg.
7. ANTIMIGRAINE MEDICIN	IES
7.1 For treatment of acute atta	ack
ibuprofen	Tablet: 200 mg; 400 mg.
	Oral liquid: 125 mg/5 mL.
paracetamol	Tablet: 300 mg to 500 mg.
7.2 For prophylaxis	<u> </u>
propranolol	Tablet: 20 mg; 40 mg (hydrochloride).
8. ANTINEOPLASTICS AND	IMMUNOSUPPRESSIVES
8.1 Immunosuppressive medic	cines
Complementary List	
	Powder for injection: 100 mg (as sodium salt) in vial.
azathioprine	Tablet (scored): 50 mg.
	Capsule: 25 mg.
ciclosporin	Concentrate for injection: 50 mg/mL in 1-mL ampoule for organ transplantation.
8.2 Cytotoxic and adjuvant me	dicines
Medicines listed below should be used	according to protocols for treatment of the diseases.
Complementary List	
allopurinol	Tablet: 100 mg; 300 mg.
	Powder for injection: 10 000 IU in vial.
asparaginase	

	Pozuder for injection: 15 mg (ac culfate) in avial
bleomycin	Powder for injection: 15 mg (as sulfate) in vial. - Hodgkin lymphoma - Testicular germ cell tumours - Ovarian germ cell tumours
calcium folinate	Injection: 3 mg/ mL in 10- mL ampoule. Tablet: 15 mg.
	– Osteosarcoma – Burkitt lymphoma
carboplatin	Injection: 50 mg/5 mL; 150 mg/15 mL; 450 mg/45 mL; 600 mg/60 mL. - Osteosarcoma - Retinoblastoma
cisplatin	Injection: 50 mg/50 mL; 100 mg/100 mL. - Osteosarcoma - Testicular germ cell tumours - Ovarian germ cell tumours
cyclophosphamide	Powder for injection: 500 mg in vial. Tablet: 25 mg. - Rhabdomyosarcoma - Ewing sarcoma - Acute lymphoblastic leukaemia - Burkitt lymphoma - Hodgkin lymphoma
cytarabine	Powder for injection: 100 mg in vial. - Acute lymphoblastic leukaemia - Burkitt lymphoma.
dacarbazine	Powder for injection: 100 mg in vial. – Hodgkin lymphoma
dactinomycin	Powder for injection: 500 micrograms in vial. - Rhabdomyosarcoma - Wilms tumour
daunorubicin	Powder for injection: 50 mg (hydrochloride) in vial. – Acute lymphoblastic leukaemia

	Powder for injection: 10 mg; 50 mg (hydrochloride) in vial.
doxorubicin	 Osteosarcoma Ewing sarcoma Acute lymphoblastic leukaemia Wilms tumour Burkitt lymphoma Hodgkin lymphoma
	Capsule: 100 mg.
etoposide	Injection: 20 mg/ mL in 5- mL ampoule. - Retinoblastoma - Ewing sarcoma - Acute lymphoblastic leukaemia - Burkitt lymphoma - Hodgkin lymphoma - Testicular germ cell tumours - Ovarian germ cell tumours
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
ifosfamide	Powder for injection: 500 mg vial 1-g vial; 2-g vial. - Osteosarcoma - Rhabdomyosarcoma - Ewing sarcoma - Testicular germ cell tumours - Ovarian germ cell tumours
mercaptopurine	Tablet: 50 mg. – Acute lymphoblastic leukaemia

	Injection: 100 mg/ mL in 4- mL and 10- mL ampoules.
	Tablet: 400 mg; 600 mg.
	– Osteosarcoma
mesna	– Rhabdomyosarcoma
meenw	
	– Ewing sarcoma.
	– Testicular germ cell tumours
	– Ovarian germ cell tumours
	Powder for injection: 50 mg (as sodium salt) in vial.
	Tablet: 2.5 mg (as sodium salt).
methotrexate	October
	- Osteosarcoma
	– Acute lymphoblastic leukaemia
10.	Powder for injection: 6 mg/ mL.
paclitaxel	– Ovarian germ cell tumours
tioguanine [c]	Solid oral dosage form: 40 mg.
noguanine [C]	– Acute lymphoblastic leukaemia.
	Powder for injection: 10 mg (sulfate) in vial.
vinblastine	– Testicular germ cell tumours
	– Ovarian germ cell tumours
	– Hodgkin lymphoma
	Powder for injection: 1 mg; 5 mg (sulfate) in vial.
	– Retinoblastoma
	– Rhabdomyosarcoma
vincristine	– Ewing sarcoma
	– Acute lymphoblastic leukaemia
	– Wilms tumour
	– Burkitt lymphoma.
	– Hodgkin lymphoma
8.3 Hormones and antihormones	
Complementary List	
dexamethasone	Oral liquid: 2 mg/5 mL
	– Acute lymphoblastic leukaemia
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.
	Oral liquid: 5 mg/ mL [c].
	Tablet: 5 mg; 25 mg.
□ prednisolone	– Acute lymphoblastic leukaemia – Burkitt lymphoma – Hodgkin lymphoma
9. ANTIPARKINSONISM ME	DICINES
10. MEDICINES AFFECTING	THE BLOOD
10.1 Antianaemia medicines	
ferrous salt	Oral liquid: equivalent to 25 mg iron (as sulfate)/mL.
rerrous sait	Tablet: equivalent to 60 mg iron.
folic acid	Tablet: 1 mg; 5 mg.
hydroxocobalamin	Injection: 1 mg (as acetate, as hydrochloride or as sulfate) in 1-mL ampoule.
10.2 Medicines affecting coag	ulation
phytomenadione	Injection: 1 mg/mL; 10 mg/mL in 5-mL ampoule.
phytomenatione	Tablet: 10 mg.
Complementary List	
desmopressin	<i>Injection</i> : 4 micrograms/ mL (as acetate) in 1- mL ampoule.
westivepresetti	Nasal spray: 10 micrograms (as acetate) per dose
heparin sodium	Injection: 1000 IU/mL; 5000 IU/mL in 1-mL ampoule.
protamine sulfate	Injection: 10 mg/mL in 5-mL ampoule.
□ warfarin	Tablet: 0.5 mg; 1 mg; 2 mg; 5 mg (sodium salt).
10.3 Other medicines for haer	moglobinopathies
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.
	I.

11. BLOOD PRODUCTS OF HUMAN ORIGIN AND PLASMA SUBSTITUTES

11.1 Blood and blood components

In accordance with the World Health Assembly resolution WHA63.12, WHO recognizes that achieving self-sufficiency, unless special circumstances preclude it, in the supply of safe blood components based on voluntary, non-remunerated blood donation, and the security of that supply are important national goals to prevent blood shortages and meet the transfusion requirements of the patient population. All preparations should comply with the WHO requirements.

goals to prevent blood shortages and m preparations should comply with the W	eet the transfusion requirements of the patient population. All /HO requirements.
fresh-frozen plasma	
platelet	
red blood cells	
whole blood	
11.2 Plasma-derived medicines	•
All human plasma-derived medicines s	hould comply with the WHO requirements.
11.2.1 Human immunoglobulin	s
anti-rabies immunoglobulin	Injection: 150 IU/ mL in vial.
anti-tetanus immunoglobulin	Injection: 500 IU in vial.
Complementary List	
normal immunoglobulin	Intramuscular administration: 16% protein solution.*
	Intravenous administration: 5%; 10% protein solution.**
	Subcutaneous administration: 15%; 16% protein solution.*
	* Indicated for primary immune deficiency. **Indicated for primary immune deficiency and Kawasaki disease.
11.2.2 Blood coagulation factor	rs
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	
	Injectable solution: 6%.
□ dextran 70*	* Polygeline, injectable solution, 3.5% is considered as equivalent.
12. CARDIOVASCULAR MEDI	CINES
12.1 Antianginal medicines	
12.2 Antiarrhythmic medicines	

□ enalapril Tablet: 2.5 mg; 5 mg (as hydrogen maleate). 12.4 Medicines used in heart failure Injection: 250 micrograms/mL in 2-mL ampoule. Oral liquid: 50 micrograms/mL in 2-mL ampoule. Oral liquid: 50 micrograms/mL in 2-mL ampoule. Oral liquid: 20 mg/m L in 2-mL ampoule. Oral liquid: 20 mg/m L in 2-mL ampoule. Oral liquid: 20 mg/s mL. Tablet: 40 mg. Tablet: 40 mg. Tablet: 40 mg. Oral liquid: 20 mg/s mL. Tablet: 40 mg. Oral liquid: 20 mg/s mL.	12.3 Antihypertensive medicines		
digoxin Injection: 250 micrograms/mL in 2-mL ampoule. Oral liquid: 50 micrograms/mL. Tablet: 62.5 micrograms/s 250 micrograms. Injection: 10 mg/mL in 2-mL ampoule. Oral liquid: 20 mg/5 mL. Tablet: 40 mg. Complementary List dopamine Injection: 40 mg (hydrochloride) in 5-mL vial. 12.5 Antithrombotic medicines 12.6 Lipid-lowering agents 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines miconazole Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Ointment: 2%. ointment: 0.1% (as valerate). hydrocortisone Phydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acctate). 13.4 Medicines affecting skin differ=ritation and proliferation benzoyl peroxide Cream or lotion: 5%. opodophyllum resin Solution: 10% to 25%. oral iquid: 20 micrograms/mL. Tablet: 62.5 micrograms/mL. injection: 10 mg/mL. in 2-mL ampoule. Oral liquid: 20 mg/5 mL. Tablet: 40 mg.	□ enalapril	Tablet: 2.5 mg; 5 mg (as hydrogen maleate).	
digoxin Oral liquid: 50 micrograms/mL. Tablet: 62.5 micrograms; 250 micrograms. Injection: 10 mg/mL in 2-mL ampoule. Oral liquid: 20 mg/5 mL. Tablet: 40 mg. Complementary List dopamine Injection: 40 mg (hydrochloride) in 5-mL vial. 12.5 Antithrombotic medicines 12.6 Lipid-lowering agents 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines □ miconazole □ terbinafine □ Cream: 1% or Ointment: 2% (nitrate). □ terbinafine □ Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Ointment: 2%. Ointment: 2%. Ointment: 2%. □ > 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ □ betamethasone □ □ hydrocortisone □ Lotion. hydrocortisone Cream or ointment: 1% (acetate). □ Hydrocortisone □ Cream or ointment: 1% (acetate). □ Hydrocortisone □ Cream or ointment: 1% (acetate). □ 13.4 Medicines affecting skin differentiation and proliferation □ benzoyl peroxide Cream or lotion: 5%. □ podophyllum resin □ Solution: 10% to 25%.	12.4 Medicines used in heart failure		
Tablet: 62.5 micrograms; 250 micrograms. Injection: 10 mg/mL in 2-mL ampoule. Oral liquid: 20 mg/5 mL. Tablet: 40 mg. Complementary List dopamine Injection: 40 mg (hydrochloride) in 5-mL vial. 12.5 Antithrombotic medicines 12.6 Lipid-lowering agents 13.1 Antifungal medicines □ miconazole terbinafine Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Ointment: 2%. Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. □ > 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ □ betamethasone □ □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ hydrocortisone Pydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Coal tar Solution: 10% to 25%.		Injection: 250 micrograms/mL in 2-mL ampoule.	
furosemide Injection: 10 mg/mL in 2-mL ampoule. Oral liquid: 20 mg/5 mL. Tablet: 40 mg. Complementary List dopamine Injection: 40 mg (hydrochloride) in 5-mL vial. 12.5-Antithrombotic medicines 12.6 Lipid-lowering agents 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines □ miconazole terbinafine Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Ointment: 2%. Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. □ > 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ □ betamethasone □ □ betamethasone □ □ betamethasone □ □ Cream or ointment: 0.1% (as valerate). □ Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Coal tar □ podophyllum resin Solution: 5%.	digoxin	Oral liquid: 50 micrograms/mL.	
furosemide Oral liquid: 20 mg/5 mL. Tablet: 40 mg. Complementary List dopamine Injection: 40 mg (hydrochloride) in 5-mL vial. 12.5 Antithrombotic medicines 12.6 Lipid-lowering agents 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines miconazole Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Cream: 1% or Ointment: 2%. Ointment: 2%. Ointment: 2%. Aqueous solution: 1:10 000. Cream: 1%.		Tablet: 62.5 micrograms; 250 micrograms.	
Tablet: 40 mg. Complementary List dopamine 12.5 Antithrombotic medicines 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines miconazole terbinafine Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. Aqueous solution: 1:10 000. Cream: 1%. > > 2 months. 13.3 Anti-inflammatory and antipruritic medicines Detamethasone Cream or ointment: 0.1% (as valerate). Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Could tar Solution: 10% to 25%.		Injection: 10 mg/mL in 2-mL ampoule.	
Complementary List dopamine Injection: 40 mg (hydrochloride) in 5-mL vial.	furosemide	Oral liquid: 20 mg/5 mL.	
### Appendix ###		Tablet: 40 mg.	
12.5 Antithrombotic medicines 12.6 Lipid-lowering agents 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines □ miconazole	Complementary List		
12.6 Lipid-lowering agents 13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines □ miconazole Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. □ > 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%.	dopamine	Injection: 40 mg (hydrochloride) in 5-mL vial.	
13. DERMATOLOGICAL MEDICINES (topical) 13.1 Antifungal medicines □ miconazole terbinafine Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. □ >2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	12.5 Antithrombotic medicines		
13.1 Antifungal medicines Cream or ointment: 2% (nitrate). terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines Cream (as mupirocin calcium): 2%. mupirocin Ointment: 2%. potassium permanganate Aqueous solution: 1:10 000. silver sulfadiazine a Cream: 1%.	12.6 Lipid-lowering agents		
terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. ≥ 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ □ betamethasone □ □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Coal tar Solution: 5%. Solution: 10% to 25%.	13. DERMATOLOGICAL MEDICINE	S (topical)	
terbinafine Cream: 1% or Ointment: 1% terbinafine hydrochloride. 13.2 Anti-infective medicines mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. >> 2 months. 13.3 Anti-inflammatory and antipruritic medicines Cream or ointment: 0.1% (as valerate). >> Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. Solution: 10% to 25%.	13.1 Antifungal medicines		
13.2 Anti-infective medicines mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. ≥ 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ Hydrocortisone Hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Coal tar Solution: 5%. Solution: 10% to 25%.	□ miconazole	Cream or ointment: 2% (nitrate).	
mupirocin Cream (as mupirocin calcium): 2%. Ointment: 2%. Aqueous solution: 1:10 000. Cream: 1%. > 2 months. 13.3 Anti-inflammatory and antipruritic medicines Detamethasone Cream or ointment: 0.1% (as valerate). Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Coal tar Solution: 5%. Solution: 10% to 25%.	terbinafine	Cream: 1% or Ointment: 1% terbinafine hydrochloride.	
mupirocin Ointment: 2%. Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. > 2 months. 13.3 Anti-inflammatory and antipruritic medicines Detamethasone	13.2 Anti-infective medicines		
Potassium permanganate Aqueous solution: 1:10 000. Cream: 1%. a	and the sine	Cream (as mupirocin calcium): 2%.	
silver sulfadiazine a Cream: 1%. 3	пирност	Ointment: 2%.	
a > 2 months. 13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ hydrocortisone preferred in neonates. Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	potassium permanganate	Aqueous solution: 1:10 000.	
13.3 Anti-inflammatory and antipruritic medicines □ betamethasone □ Cream or ointment: 0.1% (as valerate). □ Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	silvon sulfa dianina	Cream: 1%.	
Cream or ointment: 0.1% (as valerate). □ Hydrocortisone preferred in neonates. Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. Coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	silver sulfactiazine a	a >2 months.	
□ betamethasone □ □ Hydrocortisone preferred in neonates. calamine Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	13.3 Anti-inflammatory and antiprur	itic medicines	
a Hydrocortisone preferred in neonates. Lotion. hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	D betamethacana	Cream or ointment: 0.1% (as valerate).	
hydrocortisone Cream or ointment: 1% (acetate). 13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	Detallellasone 🖪	a Hydrocortisone preferred in neonates.	
13.4 Medicines affecting skin differentiation and proliferation benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	calamine	Lotion.	
benzoyl peroxide Cream or lotion: 5%. coal tar Solution: 5%. □ podophyllum resin Solution: 10% to 25%.	hydrocortisone	Cream or ointment: 1% (acetate).	
coal tar Solution: 5%. D podophyllum resin Solution: 10% to 25%.	13.4 Medicines affecting skin differentiation and proliferation		
□ podophyllum resin Solution: 10% to 25%.	benzoyl peroxide	Cream or lotion: 5%.	
	coal tar	Solution: 5%.	
salicylic acid Solution: 5%.	□ podophyllum resin	Solution: 10% to 25%.	
	salicylic acid	Solution: 5%.	

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

16. DIURETICS	
	Injection: 10 mg/mL in 2-mL ampoule.
furosemide	Oral liquid: 20 mg/5 mL.
	Tablet: 10 mg; 20 mg; 40 mg.
Complementary List	<u>'</u>
□ hydrochlorothiazide	Tablet (scored): 25 mg.
mannitol	Injectable solution: 10%; 20%.
eniverelactore	Oral liquid: 5 mg/5 mL; 10 mg/5 mL; 25 mg/5 mL.
spironolactone	Tablet: 25 mg.
17. GASTROINTESTINAL MEDI	CINES
Complementary List	
□ pancreatic enzymes	Age-appropriate formulations and doses including lipase, protease and amylase.
17.1 Antiulcer medicines	
□ amangada	Powder for oral liquid: 20-mg; 40-mg sachets.
□ omeprazole	Solid oral dosage form: 10 mg; 20 mg; 40 mg.
	Injection: 25 mg/mL (as hydrochloride) in 2-mL ampoule.
□ ranitidine	Oral liquid: 75 mg/5 mL (as hydrochloride).
	Tablet: 150 mg (as hydrochloride).
17.2 Antiemetic medicines	
	Injection: 4 mg/mL in 1-mL ampoule (as disodium phosphate salt).
dexamethasone	Oral liquid: 0.5 mg/5 mL; 2 mg/5 mL.
	Solid oral dosage form: 0.5 mg; 0.75 mg; 1.5 mg; 4 mg.
	Injection: 5 mg (hydrochloride)/mL in 2-mL ampoule.
metoclopramide a	Oral liquid: 5 mg/5 mL.
metociopianiide 🖪	Tablet: 10 mg (hydrochloride).
	a Not in neonates.
ondansetron a	Injection: 2 mg base/mL in 2-mL ampoule (as hydrochloride).
	Oral liquid: 4 mg base/5 mL.
	Solid oral dosage form: Eq 4 mg base; Eq 8 mg base.
	a >1 month.
17.3 Anti-inflammatory medicines	

17.4 Laxatives		
17.5 Medicines used in diarr	rhoea	
17.5.1 Oral rehydration		
	Powder for dilution	in 200 mL; 500 mL; 1 L.
oral rehydration salts	hydrogen carbonate (so the stability of this latte	drate may be replaced by sodium dium bicarbonate) 2.5 g/L. However, as r formulation is very poor under recommended only when
17.5.2 Medicines for diarrho	Solid oral dosage for	rm: 20 mg [c]
zinc sulfate*		zinc sulfate should be used as an
18. HORMONES, OTHER E	NDOCRINE MEDICINES	AND CONTRACEPTIVES
18.1 Adrenal hormones and	synthetic substitutes	
fludrocortisone	fludrocortisone Tablet: 100 micrograms (acetate).	
hydrocortisone		
18.2 Androgens		
18.3 Contraceptives		
18.3.1 Oral hormonal contra	nceptives	
18.3.2 Injectable hormonal		
18.3.3 Intrauterine devices	-	
18.3.4 Barrier methods		
18.3.5 Implantable contract	eptives	
18.4 Estrogens		
18.5 Insulins and other med	licines used for diabetes	
glucagon	Injection: 1 mg/mL.	
9-mondo.i.	injection, i mg/mt.	

insulin injection (soluble)	Injection: 100 IU/mL in 10-mL vial.
intermediate-acting insulin	Injection: 100 IU/mL in 10-mL vial
	(as compound insulin zinc suspension or isophane
	insulin).
Complementary List	
metformin	Tablet: 500 mg (hydrochloride).
18.6 Ovulation inducers	
18.7 Progestogens	
18.8 Thyroid hormones and antithyr	oid medicines
levothyroxine	Tablet: 25 micrograms; 50 micrograms; 100 micrograms
levolitytoxille	(sodium salt).
Complementary List	
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 requirements for tuberculins.	
tuberculin, purified protein derivative (PPD)	Injection.
19.2 Sera and immunoglobulins	
All plasma fractions should comply with the WHO requirements.	
Anti-com one immerce of abortin*	Injection.
Anti-venom immunoglobulin*	* 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 programs	nes with certain characteristics
influenza vaccine (seasonal)	
mumps vaccine	
varicella vaccine	
	ERALLY-ACTING) AND CHOLINESTERASE
20. MUSCLE RELAXANTS (PERIPH	ERALLY-ACTING) AND CHOLINESTERASE Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule.
20. MUSCLE RELAXANTS (PERIPH INHIBITORS	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule.
20. MUSCLE RELAXANTS (PERIPH INHIBITORS	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide).
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule.
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial.
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium complementary List	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial.
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial. Powder for injection: 10 mg (bromide) in vial.
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium complementary List	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial. Powder for injection: 10 mg (bromide) in vial. Injection: 1 mg in 1-mL ampoule. Tablet: 60 mg (bromide).
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium complementary List pyridostigmine	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial. Powder for injection: 10 mg (bromide) in vial. Injection: 1 mg in 1-mL ampoule. Tablet: 60 mg (bromide).
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium complementary List pyridostigmine 21. OPHTHALMOLOGICAL PREPAR	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial. Powder for injection: 10 mg (bromide) in vial. Injection: 1 mg in 1-mL ampoule. Tablet: 60 mg (bromide).
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium complementary List pyridostigmine 21. OPHTHALMOLOGICAL PREPAR 21.1 Anti-infective agents	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial. Powder for injection: 10 mg (bromide) in vial. Injection: 1 mg in 1-mL ampoule. Tablet: 60 mg (bromide).
20. MUSCLE RELAXANTS (PERIPH INHIBITORS neostigmine suxamethonium Complementary List pyridostigmine 21. OPHTHALMOLOGICAL PREPAR 21.1 Anti-infective agents aciclovir	Injection: 500 micrograms in 1-mL ampoule; 2.5 mg (metilsulfate) in 1-mL ampoule. Tablet: 15 mg (bromide). Injection: 50 mg (chloride)/mL in 2-mL ampoule. Powder for injection: (chloride), in vial. Powder for injection: 10 mg (bromide) in vial. Injection: 1 mg in 1-mL ampoule. Tablet: 60 mg (bromide). RATIONS Ointment: 3% W/W.

□ tetracycline	Eye ointment: 1% (hydrochloride).
21.2 Anti-inflammatory agents	
□ prednisolone	Solution (eye drops): 0.5% (sodium phosphate).
21.3 Local anaesthetics	
	Solution (eye drops): 0.5% (hydrochloride).
□ tetracaine a	a Not in preterm neonates.
21.4 Miotics and antiglaucoma me	dicines
21.5 Mydriatics	
	Solution (eye drops): 0.1%; 0.5%; 1% (sulfate).
atropine* a	* Or homatropine (hydrobromide) or cyclopentolate (hydrochloride).
	a >3 months.
Complementary List	I
epinephrine (adrenaline)	Solution (eye drops): 2% (as hydrochloride).
22. OXYTOCICS AND ANTIOXY T	FOCICS
22.1 Oxytocics 22.2 Antioxytocics (tocolytics)	
23. PERITONEAL DIALYSIS SOL	LUTION
Complementary List	
intraperitoneal dialysis solution (of appropriate composition)	Parenteral solution.
24. MEDICINES FOR MENTAL A	ND BEHAVIOURAL DISORDERS
24.1 Medicines used in psychotic d	disorders
Complementary List	
	Injection: 25 mg (hydrochloride)/mL in 2-mL ampoule.
chlorpromazine	Oral liquid: 25 mg (hydrochloride)/5 mL.
	Tablet: 10 mg; 25 mg; 50 mg; 100 mg (hydrochloride).
	Injection: 5 mg in 1-mL ampoule.
haloperidol	Oral liquid: 2 mg/mL.
	Solid oral dosage form: 0.5 mg; 2 mg; 5 mg.
24.2 Medicines used in mood disor	rders
24.2.1 Medicines used in depressiv	ve disorders
Complementary List	

	Solid oral dosage form: 20 mg (as hydrochloride).
fluoxetine a	a >8 years.
24.2.2 Medicines used in bipo	lar disorders
24.3 Medicines for anxiety dis	orders
24.4 Medicines used for obses	sive compulsive disorders
24.5 Medicines for disorders d	lue to psychoactive substance use
25. MEDICINES ACTING ON	THE RESPIRATORY TRACT
25.1 Antiasthmatic medicines	
□ budesonide	Inhalation (aerosol): 100 micrograms per dose; 200 micrograms per dose.
epinephrine (adrenaline)	Injection: 1 mg (as hydrochloride or hydrogen tartrate) in 1-mL ampoule.
	Injection: 50 micrograms (as sulfate)/mL in 5-mL ampoule.
□ salbutamol	Metered dose inhaler (aerosol): 100 micrograms (as sulfate) per dose.
	Respirator solution for use in nebulizers: 5 mg (as sulfate)/mL.
26. SOLUTIONS CORRECTION DISTURBANCES	NG WATER, ELECTROLYTE AND ACID-BASE
26.1 Oral	
oral rehydration salts	See section 17.5.1.
potassium chloride	Powder for solution.
26.2 Parenteral	
glucose	Injectable solution: 5% (isotonic); 10% (hypertonic); 50% (hypertonic).
glucose with sodium chloride	Injectable solution: 5% glucose, 0.9% sodium chloride (equivalent to Na+ 150 mmol/L and Cl- 150 mmol/L); 5% glucose, 0.45% sodium chloride (equivalent to Na+ 75 mmol/L and Cl- 75 mmol/L).
potassium chloride	Solution for dilution: 7.5% (equivalent to K+ 1 mmol/mL and Cl- 1 mmol/mL); 15% (equivalent to K+ 2 mmol/mL and Cl- 2 mmol/mL).
sodium chloride	Injectable solution: 0.9% isotonic (equivalent to Na+ 154 mmol/L, Cl-154 mmol/L).

sodium hydrogen carbonate	Injectable solution: 1.4% isotonic (equivalent to Na+167 mmol/L, HCO ₃ - 167 mmol/L).
	Solution: 8.4% in 10-mL ampoule (equivalent to Na+ 1000 mmol/L, HCO ₃ -1000 mmol/L).
□ sodium lactate, compound solution	Injectable solution.
26.3 Miscellaneous	
water for injection	2-mL; 5-mL; 10-mL ampoules.
27. VITAMINS AND MINERALS	
ascorbic acid	Tablet: 50 mg.
	Oral liquid: 400 IU/mL.
cholecalciferol*	Solid oral dosage form: 400 IU; 1000 IU.
	* Ergocalciferol can be used as an alternative.
	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.
pyridoxine	Tablet: 25 mg (hydrochloride).
	Capsule: 100 000 IU; 200 000 IU (as palmitate).
	Oral oily solution: 100 000 IU (as palmitate)/mL in multidose dispenser.
retinol	Tablet (sugar-coated): 10 000 IU (as palmitate).
	Water-miscible injection: 100 000 IU (as palmitate) in 2-mL ampoule.
riboflavin	Tablet: 5 mg.
sodium fluoride	In any appropriate topical formulation.
thiamine	Tablet: 50 mg (hydrochloride).
Complementary List	
calcium gluconate	Injection: 100 mg/mL in 10-mL ampoule.
28. EAR, NOSE AND THROAT M	EDICINES
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 to the	ne neonate

caffeine citrate	Injection: 20 mg/mL (equivalent to 10 mg caffeine base/mL).
	Oral liquid: 20 mg/mL (equivalent to 10 mg caffeine base/mL).
chlorhexidine	Solution or gel: 7.1% (digluconate) delivering 4% chlorhexidine (for umbilical cord care).
Complementary List	
□ ibuprofen	Solution for injection: 5 mg/mL.
	Solution for injection:
□ prostaglandin E	Prostaglandin E1: 0.5 mg/mL in alcohol. Prostaglandin E2: 1 mg/mL.
surfactant	Suspension for intratracheal instillation: 25 mg/mL or 80 mg/mL.
30. MEDICINES FOR DISEASES O	F JOINTS
30.1 Medicines used to treat gout	
30.2 Disease-modifying agents used	in rheumatoid disorders (DMARDs)
Complementary List	
hydroxychloroquine	Solid oral dosage form: 200 mg (as sulfate).
methotrexate	Tablet: 2.5 mg (as sodium salt).
30.3 Juvenile joint diseases	
acetylsalicylic acid* (acute or chronic use)	Suppository: 50 mg to 150 mg.
	Tablet: 100 mg to 500 mg.
	* For use for rheumatic fever, juvenile arthritis, Kawasaki disease.

Table 1.1: Medicines with age and weight restrictions

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
propofol	>1 month
silver sulfadiazine	>2 months
tetracaine	Not in preterm neonates
trimethoprim	>6 months
xylometazoline	>3 months

Table 1.2: Explanation of dosage forms

A. Principal dosage forms used in EMLc - 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.
Tablet	 Refers to: 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. The term 'tablet' without qualification is never intended to allow any type of modified-release tablet.
Tablet (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 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.

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

Term	Definition
	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.
	Refers to hard or soft capsules.
Capsule	The term 'capsule' without qualification is <i>never</i> intended to allow any type of modified-release capsule.
Capsule (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.
	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 administration</i> e.g. gargles and mouthwashes.
Oral liquid	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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