1006

# The Selection and Use of Essential Medicines

Report of the WHO Expert Committee, 2017 (including the 20th WHO Model List of Essential Medicines and the 6th Model List of Essential Medicines for Children)



## The Selection and Use of Essential Medicines

Report of the WHO Expert Committee, 2017 (including the 20th WHO Model List of Essential Medicines and the 6th WHO Model List of Essential Medicines for Children)

This report contains the collective views of an international group of experts and does not necessarily represent the decisions or the stated policy of the World Health Organization



The selection and use of essential medicines: report of the WHO Expert Committee, 2017 (including the 20th WHO model list of essential medicines and the 6th WHO model list of essential medicines for children).

(WHO technical report series; no. 1006)

ISBN 978-92-4-121015-7 ISSN 0512-3054

#### © World Health Organization 2017

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; https://creativecommons.org/licenses/by-nc-sa/3.0/igo).

Under the terms of this licence, you may copy, redistribute and adapt the work for non-commercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products or services. The use of the WHO logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: "This translation was not created by the World Health Organization (WHO). WHO is not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition".

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization.

**Suggested citation.** The selection and use of essential medicines: report of the WHO Expert Committee, 2017 (including the 20th WHO Model List of Essential Medicines and the 6th WHO Model List of Essential Medicines for Children). Geneva: World Health Organization; 2017 (WHO technical report series; no. 1006). Licence: CC BY-NC-SA 3.0 IGO.

Cataloguing-in-Publication (CIP) data. CIP data are available at http://apps.who.int/iris.

**Sales, rights and licensing.** To purchase WHO publications, see http://apps.who.int/bookorders. To submit requests for commercial use and queries on rights and licensing, see http://www.who.int/about/licensing.

**Third-party materials.** If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

**General disclaimers.** The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by WHO in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO be liable for damages arising from its use.

This publication contains the collective views of a WHO Expert Committee and does not necessarily represent the decisions or the policies of the World Health Organization.

Printed in Italy.

### **Contents**

Executive	summary	vii
List of par	ticipants	xix
Declaratio	on of interests	xxii
1.Introduc	ction	1
2.Open se	ssion	2
3.General	items	4
3.1:	Alignment of the Essential Medicines List and WHO guidelines	4
3.2:	New format for the Technical Report	4
3.3:	Increasing the affordability of high-priced medicines	5
3.4:	EML Working Groups and comprehensive reviews	5
3.5:	Proposal for a WHO list of essential in vitro diagnostics	6
4.Summa	ry of recommendations	7
	Additions to Model Lists	7
	Deletions from Model Lists	8
	Changes to listings	8
	New indications	8
	New dosage form and/or strength	9
	Rejected applications	9
5.Applicat	ions for the 20th Model List of Essential Medicines	
and the	6th Model List of Essential Medicines for Children	12
Section 1:	Anaesthetics, preoperative medicines and medical gases	12
1.4:	Medical gases (new section) Oxygen	12 12
Section 2:	Medicines for pain and palliative care	17
2.1:	Non-opioids and non-steroidal anti-inflammatory medicines (NSAIMs) Paracetamol	<b>17</b> 17
2.2:	Opioid analgesics	19
	Fentanyl	19
	Methadone Tramadol	24 31
2.3:	Medicines for other common symptoms in palliative care  Gabapentin	<b>37</b> 37
Section 5:	Anticonvulsants/antiepileptics	45
	Lamotrigine	45
Section 6:	Anti-infective medicines	55
6.1:	Anthelminthics	55

6.1.1:	Intestinal anthelminthics  Ivermectin	55 55
6.2:	Antibacterials	62
	Comprehensive review of antibiotics Overview Community-acquired pneumonia (CAP) Pharyngitis	62 62 69 76
	Sinusitis	76 79
	Otitis media	82
	Hospital-acquired pneumonia (HAP) and ventilator-associated pneumonia Sepsis in children	89
	Urinary tract infections Meningitis	92 96
	Complicated intra-abdominal infections	99
	Acute infectious diarrhoea	112
	Sexually transmitted infections	118
	Exacerbations of chronic obstructive pulmonary disease Bone and joint infections	126 130
	Febrile neutropenia	134
	Severe acute malnutrition	139
	Proposal from the McMaster Group for a "conserved" antibiotics list – for preservation, niche indications, and last-resort use.	143
6.2.2:	Other antibacterials	146
	Azithromycin	146
6.2.4.	Antituberculosis medicines	150
	Clofazimine	150
	Delamanid c Gatifloxacin	155 159
	Isoniazid + pyrazinamide + rifampicin	164
	Isoniazid + rifampicin	164
	Ofloxacin	168
	Streptomycin	171
6.3.	Antifungal medicines	173
	Itraconazole	173
	Voriconazole	181
6.4:	Antiviral medicines	186
6.4.2:	Antiretrovirals	186
	ARV formulations	186
6.4.2.1:	Nucleoside/Nucleotide reverse transcriptase inhibitors	191
	Abacavir Zidovudine (ZDV or AZT)	191 194
6423	Protease inhibitors	194
0. 1.2.0.	Atazanavir + ritonavir	197
	Lopinavir + ritonavir	200
6.4.2.4:	Integrase inhibitors (new subsection)	204
	Dolutegravir	204
	Raltegravir	208
	FIXED-DOSE COMBINATIONS	212

	Abacavir + lamivudine	212
	Cobicistat + elvitegravir + emtricitabine + tenofovir alafenamide	215
	Efavirenz + lamivudine + tenofovir disoproxil fumarate	220
	Emtricitabine + tenofovir alafenamide	223
	Emtricitabine + rilpivirine + tenofovir alafenamide	228
	Tenofovir disoproxil fumarate	234
	Emtricitabine + tenofovir disoproxil fumarate	234
	Lamivudine + tenofovir disoproxil fumarate	234
6.4.2.5:	Medicines for prevention of HIV-related opportunistic infections	
	(new subsection)	240
	Isoniazid + pyridoxine + sulfamethoxazole + trimethoprim	240
6.4.3:	Other antivirals	245
	Oseltamivir	245
6.4.4:	Antihepatitis medicines	254
	Medicines for hepatitis B	254
	Tenofovir alafenamide	254
6.4.4.2:	Medicines for hepatitis C	259
	Elbasvir + grazoprevir	259
	Sofosbuvir + velpatasvir	265
6.5:	Antiprotozoal medicines	272
6.5.3:	Antimalarial medicines	272
6.5.3.1:	For curative treatment	272
	Artesunate + pyronaridine	272
	Artesunate	277
	Dihydroartemisinin + piperaquine	281
Section 8:	Antineoplastics and immunosuppressives	286
8.2:	Cytotoxic and adjuvant medicines	286
	Erlotinib, gefitinib, afatinib, crizotinib	286
	Nilotinib, dasatinib	293
	Trastuzumab emtansine	299
	Zoledronic acid	307
8.3:	Hormones and antihormones	314
	Enzalutamide	314
Section 10:	Medicines affecting the blood	320
10.1:	Antianaemia medicines	320
	Erythropoiesis-stimulating agents	320
Section 12:	Cardiovascular medicines	339
12.3:	Antihypertensive medicines	339
	Lisinopril + hydrochlorothiazide	339
	Losartan	345
12.7:	Fixed-dose combinations of cardiovascular medicines (new subsection)	351
	Aspirin + atorvastatin + ramipril	351
Section 15:	Disinfectants and antiseptics	361
15.1:	Antiseptics	361
	Hypochlorous acid	361

Section 18:	Hormones, other endocrine medicines and contraceptives	366
18.3:	Contraceptives	366
18.3.1:	Oral hormonal contraceptives Ulipristal acetate	366 366
18.3.2:	Injectable hormonal contraceptives  Medroxyprogesterone acetate	371 371
18.5:	Insulins and other medicines used for diabetes  Long-acting insulin analogues –  Second-line treatments for type 2 diabetes	375 375 382
Section 21:	Ophthalmological preparations	401
21.1:	Anti-infective agents Natamycin	<b>401</b>
21.6:	Anti-vascular endothelial growth factor (VEGF) preparations Bevacizumab	<b>405</b>
Section 22:	Oxytocics and antioxytocics	408
22.1:	Oxytocics Misoprostol	<b>408</b>
Section 25:	Medicines acting on the respiratory tract	413
25.1:	Antiasthmatics and medicines for chronic obstructive pulmonary disease Budesonide + formoterol	<b>413</b> 413
Section 26:	Solutions correcting water, electrolyte and acid-base disturbances	418
26.3:	Miscellaneous Ready to use therapeutic food (RUTF)	<b>418</b>
Annex 1		424
WHO Model	List of Essential Medicines (March 2017)	424
Annex 2		485
WHO Model	List of Essential Medicines for Children (March 2017)	485
Annex 3		531
The Anatom	nical Therapeutic Chemical (ATC) Classification System	531

### 预览已结束,完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5\_26593



