



Food and Agriculture
Organization of the
United Nations



World Health
Organization

International instruments on the use of antimicrobials across the human, animal and plant sectors



International instruments on the use of antimicrobials across the human, animal and plant sectors

Published by

the Food and Agriculture Organization of the United Nations
and
the World Organisation for Animal Health
and
the World Health Organization

International instruments on the use of antimicrobials across the human, animal and plant sectors

ISBN (WHO) 978-92-4-001396-4 (electronic version)

ISBN (WHO) 978-92-4-001397-1 (print version)

ISBN (FAO) 978-92-5-133526-0

ISBN (OIE) 978-92-95115-87-3

© World Health Organization (WHO), Food and Agriculture Organization of the United Nations (FAO) and World Organisation for Animal Health (OIE), 2020

All rights reserved. WHO, FAO and OIE encourage the reproduction and dissemination of material in this information product. Any proposed reproduction or dissemination for non-commercial purposes will be authorized free of charge upon request, provided the source is fully acknowledged. Any proposed reproduction or dissemination for resale or other commercial purposes, including educational purposes, is prohibited without the prior written permission of the copyright holders, and may incur fees.

Requests for permission to reproduce or translate WHO publications – whether for sale or for non-commercial distribution – should be addressed to WHO Press through the WHO web site http://www.who.int/about/licensing/copyright_form/en/index.html.

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization (WHO), the Food and Agriculture Organization of the United Nations (FAO) or of the World Organisation for Animal Health (OIE) 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 products of manufacturers, whether or not these have been patented, does not imply that these are or have been endorsed or recommended by WHO, FAO and OIE in preference to others of a similar nature that are not mentioned. 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, FAO and OIE be liable for damages arising from its use. The views expressed herein are those of the authors and do not necessarily represent those of WHO, FAO, OIE.

Publications of the World Health Organization are available on the WHO web site www.who.int or can be purchased from WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland. Tel.: +41 22 791 3264; fax: +41 22 791 4857; e-mail: bookorders@who.int.

FAO information products are available on the FAO website www.fao.org/publications and can be purchased through Publications-sales@fao.org

Publications of the World Organisation for Animal Health are available either on the OIE web site www.oie.int or can be purchased through the OIE online bookshop www.oie.int/boutique.

Design and layout by Phoenix Design Aid

Contents

List of figures, tables and boxes	iv
Acknowledgements	v
List of abbreviations	vi
1 Introduction	1
1.1 Objective	1
1.2 Background	1
2 Scope and methodology	3
2.1 Scope	4
2.2 Methodology	5
3 Compilation of instruments on antimicrobial use	6
3.1 Overview and analysis of instruments on human use	6
3.2 Overview and analysis of instruments on animal use	12
3.3 Overview and analysis of instruments on plant use	19
3.4 Overview and analysis of antimicrobial use and the environment	22
4 Monitoring implementation of international standards on the use of antimicrobials	26
4.1 Implementation at the national level	26
4.2 Tripartite monitoring of standards implementation	26
4.3 Monitoring implementation of standards for human use	27
4.4 Monitoring implementation of standards for animal use	27
4.5 Monitoring implementation of standards for plant use	28
4.6 Monitoring implementation of standards for the environment	28
Annex I: List of international instruments on the use of antimicrobials across the human sector	30
Annex II: List of international instruments on the use of antimicrobials across the animal sector	38
Annex III: List of international instruments on the use of antimicrobials across the plant sector	46
Annex IV: Questions in TrACSS 4.0 (2019–2020) regarding standards on the use of antimicrobials	50

List of figures, tables and boxes

Fig. 1.	The antimicrobial life cycle: the series of stages through which antimicrobials pass, from production to disposal by the end user.	3
Table 1.	Summary overview of instruments included and excluded from this compilation.	4
Table 2.	Overview of instruments related to human use of antimicrobials across the antimicrobial life cycle	6
Table 3.	Overview of instruments related to the animal use of antimicrobials across the antimicrobial life cycle	12
Table 4.	Overview of instruments related to the plant use of antimicrobials across the antimicrobial life cycle	19
Table 5.	Overview of instruments per area of use with standards related to the environment	22
Box 1.	Summary of core standards for human use.	12
Box 2.	The OIE Codes and Codex Alimentarius instruments as reference standards	14
Box 3.	Summary of core standards for animal use	18
Box 4.	AMR and plant use	20
Box 5.	Summary of core standards for plant use	21
Box 6.	Antimicrobial use and the environment	24

Acknowledgements

This compilation was prepared by Maarten van der Heijden (WHO), Peter Beyer (WHO) and Sarah Paulin (WHO), with contributions from Carmen Bullón Caro (FAO), Yingjing Li (FAO), Junxia Song (FAO) and Jing Xu (FAO), Elisabeth Erlacher-Vindel (OIE), Jorge Pinto Ferreira (OIE) and Saija Kalenius (OIE) under the overall direction of Haileyesus Getahun (WHO), Director of the Tripartite Joint Secretariat on Antimicrobial Resistance. Administrative support was provided by Sandra Kotur Corliss.

Jacqueline Álvarez and Aitziber Echeverria from the United Nations Environment Programme (UNEP) reviewed the sections related to the environment.

We would also like to thank the following experts from the Tripartite organizations (FAO, OIE and WHO) for reviewing the document:

- | | |
|---------------------------|-----------------------|
| ■ Penelope Jane Andrea | ■ Eva Kohlschmid |
| ■ Anand Balachandran | ■ Sabine Kopp |
| ■ Amina Benyahia | ■ Francesca Latronico |
| ■ Sarah Cahill | ■ Jeffrey LeJeune |
| ■ Marisa Caipo | ■ Camille Loi |
| ■ Emer Cooke | ■ Friederike Mayen |
| ■ Tim Corrigan | ■ Kate Medlicott |
| ■ Stephanie Croft | ■ Lorenzo Moja |
| ■ Carmen Dolea | ■ Arno Muller |
| ■ Alejandro Dorado Garcia | ■ Clive Ondari |
| ■ Valeria Gigante | ■ Henk Jan Ormel |
| ■ Mary Gordoncillo | ■ Ponnu Padiyara |
| ■ Johanna Gouws | ■ Pravasha Prakash |
| ■ Alice Green | ■ Artur Shamilov |
| ■ Baogen Gu | ■ Mária Szabó |
| ■ Zifeng Han | ■ Elizabeth Tayler |
| ■ Armando Hoet | |

This document was edited by Giselle Weiss.

Financial support

Funding for this report was kindly provided by the Government of Germany.

List of abbreviations

ADI	acceptable daily intake
AGISAR	Advisory Group on Integrated Surveillance of Antimicrobial Resistance
AMR	antimicrobial resistance
AMU	antimicrobial use
API	active pharmaceutical ingredient
CCPR	Codex Committee on Pesticide Residues
CCRVDF	Codex Committee on Residues of Veterinary Drugs in Foods
CIA	critically important antibiotic
ECSP	Expert Committee on Specifications for Pharmaceutical Preparations
EIA	environmental impact assessment
EML	essential medicines list
FAO	Food and Agriculture Organization of the United Nations
FAO GBS	FAO Governing and Statutory Bodies
FIP	International Pharmaceutical Federation
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GMP	good manufacturing practices
GRP	good regulatory practices
IACG	Interagency Coordination Group
ICH	International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use
ICoCPM	International Code of Conduct on Pesticide Management
IPC	infection prevention and control
IPPC	International Plant Protection Convention
MDR	multidrug-resistant
MRL	maximum residue limit
OIE	World Organisation for Animal Health
PAH	polycyclic aromatic hydrocarbon
RMR	risk management recommendation
SPS	Sanitary and Phytosanitary
TB	tuberculosis
TBT	Technical Barriers to Trade
TFAF	Task Force on Animal Feeding

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_24248

