



Emerging antimicrobial resistance reporting framework

August 2018



Emerging antimicrobial resistance reporting framework

August 2018



**World Health
Organization**

Emerging antimicrobial resistance reporting framework

ISBN 978-92-4-151459-0

© World Health Organization 2018

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. Emerging antimicrobial resistance reporting framework. Geneva: World Health Organization; 2018. Licence: [CC BY-NC-SA 3.0 IGO](https://creativecommons.org/licenses/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.

Printed in Switzerland

Table of Contents

Abbreviations.....	4
Acknowledgements.....	5
1 Introduction	7
2 The purpose and scope of the emerging AMR reporting component of GLASS	8
3 Detection and reporting of emerging resistance.....	9
3.1 Detection of emerging AMR and reporting at national level	9
3.1.1 Collection of raw data	9
3.1.2 Triage of relevant data	10
3.1.3 Verification of unusual resistance.....	10
3.1.4 National reporting and initial assessment	10
3.2 Reporting emerging AMR to GLASS	11
3.2.1 Provisional watch list	11
3.2.2 Submission of emerging AMR data	11
3.3 Data sharing	13
3.3.1 Data security	13
3.3.2 Sharing of genetic sequence data	14
3.4 WHO risk assessment and communication of newly detected AMR.....	14
Annex 1. Example list of critical resistance phenotypes.....	15
Annex 2. Proposed generic data set for reporting emerging AMR.....	16

Abbreviations

AMR	antimicrobial resistance
CLSI	Clinical and Laboratory Standards Institute
GLASS-EAR	GLASS Emerging Antimicrobial Resistance Reporting
EUCAST	European Committee on Antimicrobial Susceptibility Testing
FAO	Food and Agriculture Organization of the United Nations
GLASS	Global Antimicrobial Resistance Surveillance System
MIC	minimum inhibitory concentration
NRL	national reference laboratory
OIE	World Organisation for Animal Health
WHO	World Health Organization

Acknowledgements

WHO would like to express its sincere appreciation and gratitude to all those who have supported and contributed to the development of this document.

Developer group

Muna Abu Sin, Rene Hendriksen, Roman Kozlov, Jean Patel, Diamantis Plachouras, Pilar Ramon Pardo, Neil Woodford, Takuya Yamagishi

Review group

Olov Aspevall, Tim Eckmanns, Jonas Fuks, Shoaib Hassan, Danilo Lo Fo Wong, Sonja Löfmark, Babatunde Olowokure, Sirenda Vong

Executive group

Sergey Eremin, Martina Escher, Carmem Pessoa da Silva

Financial Support

US Centers for Disease Control and Prevention Cooperative Agreement

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_25683

