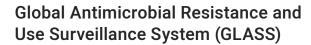


GLASS Manual on the management of antimicrobial consumption data

Global Antimicrobial Resistance and Use Surveillance System (GLASS)



GLASS Manual on the management of antimicrobial consumption data





GLASS manual on the management of antimicrobial consumption data

ISBN 978-92-4-001019-2 (electronic version)

ISBN 978-92-4-001020-8 (print version)

© World Health Organization 2020

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 (http://www.wipo.int/amc/en/mediation/rules/).

Suggested citation. GLASS manual on the management of antimicrobial consumption data. Geneva: World Health Organization; 2020. 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.

Design and layout by 400 Communications Limited.

Contents

Abbreviations		iv	3.2.4.	 Step 1 – Filling in product and consumption variables Step 2 – Assign calculated variables, and validate and correct product information 	
1.	Introduction		3.2.5		
2 UIIIO mothodology for AMC		4	3.3.	Calculate and export consumption data	49
2.	07		3.4.	Export data for WHO GLASS-AMC submission	51
2.1.	AMC data components	4 4			
2.1.1.	2.1.1. AMC data		4.	AMC data analysis using the exported	
2.1.2.	Denominator data	5	AMC Excel files		54
2.2.	AMC reporting metrics and indicators	5	4.1. Prepare the data analysis file		54
2.3.			4.1.1.	Select a workbook	55
	considerations	5	4.1.2.	Combine the data for the different	
2.3.1.	Nomenclature	5	antimicrobial classes and years		56
2.3.2.	ATC code	5	4.1.3.	Create ATC3 variable	57
2.3.3.	DDDs	6	4.1.4.	Create a substance variable	58
2.4.	AMC variables	8	4.2.	Generate tables and figures	62
2.4.1.	Product data variables	8	4.2.1.	Calculate DID from DDD	62
2.4.2.	2. Consumption data		4.2.2.	Present total AMC by year	62
2.4.3.	Compiling antimicrobial product and consumption data	13	4.2.3.	Present relative AMC in DID by ATC3 and year	63
			4.2.4.	Present relative AMC by route of	
3.	GLASS-AMC Excel template	30		administration	66
3.1.	Introduction to the tool	30	4.2.5.	List the top 10 most used antibiotic	
3.2.	Fill in the GLASS-AMC template	32		substances or DU75/DU90 by route of administration and by year	67
3.2.1.	Enter availability data	32			
3.2.2.	Enter population data	33	5. Conclusion		72
3.2.3.	Compile product and consumption data	35			

Abbreviations

AMC	Antimicrobial consumption	
AMR	Antimicrobial resistance	
ATC	Anatomical Therapeutic Chemical	
DDD	Defined Daily Dose	
DID	Defined Daily Doses/1000 inhabitants/day	
DU75	Drug Utilization 75	
DU90	Drug Utilization 90	
GLASS	Global Antimicrobial Resistance and Use Surveillance System	
INN	International nonproprietary name	
MPP	Medicinal product package	
WHO	World Health Organization	



1. Introduction

Antimicrobial resistance (AMR) is a significant threat to health and human development, affecting our ability to treat a range of infections. Use of antimicrobials is the main driver for the development of AMR. To obtain a thorough and comprehensive picture of AMR and to be able to identify areas in which actions are needed, data from surveillance of AMR and antimicrobial consumption (AMC) are essential. These data should be easily compared and exchanged, and should be used locally, nationally and globally.

The World Health Organization (WHO) methodology for a global programme on surveillance of AMC is a component of the Global Antimicrobial Resistance and Use Surveillance System (GLASS)), the system for surveillance of AMR and antimicrobial use, referred to here as GLASS-AMC.

GLASS-AMC provides a common technical basis for setting up national surveillance systems on AMC that can produce reliable and comparable data at national and global levels. The methodology can be used by all countries, regardless of the level of development of a country's national AMC surveillance system.

This manual summarizes the WHO methodology for a global programme on surveillance of AMC. It is intended to guide countries on how to:

- use the GLASS-AMC Microsoft Excel template to prepare the national AMC surveillance data according to the WHO methodology;
- produce national AMC data files to foster AMC data analysis at national level; and
- facilitate the preparation of the AMC national data for submission to GLASS-AMC.

This manual mainly targets professionals from the national AMC surveillance technical team responsible for managing the AMC surveillance database for the national AMC surveillance programme and for submission of data to GLASS-AMC, and for analysing AMC data for the national AMC report. The manual can also be shared with AMC data-source partners, in cases where these partners are asked to compile files of their AMC data.

This manual provides:

- an introduction to the GLASS-AMC methodology for calculating data consumption using the Anatomical Therapeutic Chemical/Defined Daily Dose (ATC/DDD) approach;
- instructions on how to use the GLASS-AMC Excel template to organize AMC data, generate AMC indicators and export data into the GLASS-AMC format:
- instructions on how to use the AMC estimates produced by the GLASS-AMC Excel template to generate and display the most common AMC metrics and indicators.

The manual is based on the following WHO documents:

- WHO methodology for a global programme on surveillance of antimicrobial consumption¹
- the WHO ATC/DDD toolkit;² and
- the WHO GLASS-AMC Excel template.¹

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 24866

