

# Journey of the

## **AMU Data Collection**

Regional ANIMUSE Training for Europe 7-9 November 2023, Belgrade, Serbia



1920



"Practitioner must not use antibiotics at the discretion of his fantasy, but following rules that have been set by experience.

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World Organisation

Use of antibiotics against insensitive germs or specifically resistant, utilization of too weak doses or through a too short time frame, can reveal resistant germs, delaying the set of an efficient therapy and lead to treatment failures, harming a method that, when judiciously and correctly applied, has saved numerous human and animal lives"



## Launch of WOAH AMU Data Collection

85% Participation (152 Members)

2012 - Survey on the implementation of Chapter 6.9 of the Terrestrial Animal Health Code Some of the objectives were: To determine what actions are needed and to help the OIE to develop its strategy regarding AMU To prepare the 1st OIE Global Conference on AMR

2013 - 1<sup>st</sup> Global Conference on AMR 5

AMU Template Created by the experts of the OIE ad hoc Group on AMR – based on Chapters 6.9 and 6.3 of the Terrestrial and Aquatic Codes, respectively. 2014 – National Focal Points for Veterinary Products (FPVP) Documents were discussed with the OIE National FPVP in the Americas; Europe; and Asia, Far East and Oceania regions; Africa was asked by email.



1<sup>st</sup> Round Launched in 2015





## Global database on antimicrobial agents intended for use in animals

#### **Type of Reporting**

#### **Qualitative Data**

Baseline data designed to allow all countries to respond

**Quantitative Data** Reporting Options represent increased level of data detail **Option 1** Option 2 **Option 3**  Antimicrobial Antimicrobial Antimicrobial agents agents agents Type of use\* Type of use\* Type of use\* • Group of Group of animals\*\* animals\*\* Routes of administration or reviewed methodologies for

Peer-reviewed methodologies for data collection and analysis



\* Type of use: veterinary medical use or growth promotion

\*\* Groups of animals: 'terrestrial food-producing animals', 'aquatic food-producing animals' or 'Companion animals'





#### **PROGRESS**

Since 1st round, + 20% Participation +120 % Reporting Option 3

#### UNDERSTANDING

Each round,

**80%** of Members amend their dossiers after interacting with WOAH AMU Team

#### TRAININGS

Since 5th round,

**615** participants were trained through in-person or virtual trainings







## Recommendation n°4 of the 2<sup>nd</sup> OIE Global Conference on Antimicrobial Resistance – October 2018



To further develop the OIE data collection on Antimicrobial Agents Intended for Use in Animals, **converting the current spreadsheet format to a database system**, able to accommodate data submissions by animal species, and its connection to the World Animal Health Information System (WAHIS) and also allowing addition of data from field studies

2 <sup>nd</sup> OIE Global Conference on Antimicrobial Resistance and Prudent Use of Antimicrobial Agents	
	Putting Standards into Practice
Marrakesh (Morocco), 29-31 October 2018	
	RECOMMENDATIONS
CON	ISIDERING THAT:
1.	Antimicrobial resistance (AMR) is a serious global threat to human health, animal health an welfare, plant health, food security, and also impacts to the environment throughout the world and cannot be successfully tackled without multi-sectoral cooperation;
2.	The Tripartite (Food and Agriculture Organization of the United Nations (FAO), Work Organization for Animal Health (OIE), World Health Organization (WHO)) are collaborating will the United Nations Environment Programme (UN Environment) to ensure the development an implementation of global strategies and measures designed to control the development an spread of AMR, and contribute to the fulfilment of the United Nations Sustainable Development Goals;
3.	The Tripartite is developing frameworks on AMR Stewardship and the Monitoring and Evaluation of the implementation of National Action Plans and has recently been strengthened through the signing of a Memorandum of Understanding (MOU) with a strong focus on AMR including the development of a detailed workplan for the coming years in collaboration with UN Environment;
4.	The OIE establishes global standards and guidelines and provides assistance and leadership to Member Counties to strengthen Veterinary Services and capacities to support the implementation at national level;
5.	The OIE is implementing its Strategy on Antimicrobial Resistance and the Prudent Use of Antimicrobials, improving awareness and capacity through monitoring and training; in line with the Global Action Plan on AMR developed by the WHO in collaboration with FAO and OIE;
6.	Following the Political Declaration of the High Level Meeting of the United Nations Genera Assembly on Antimicrobial resistance in 2016, the UN Interagency Coordination Group (IACG on AMR with the support of the Tripartite secretariat is preparing a report to the UN Secretar General by May 2019;
AND	CONSIDERING
The Glob as th natio	commitment expressed by Ministers attending the conference, who confirmed their support to the al strategies and initiatives developed under the leadership of the Tripartile OIE-FAQ-WHO, as we eier political will to allocate the adequate resources for the implementation of those strategies a nal level,
THE PRU	PARTICIPANTS OF THE OIE GLOBAL CONFERENCE ON ANTIMICROBIAL RESISTANCE AND DENT USE OF ANTIMICROBIAL AGENTS
DEC	ONMEND TO THE TRIPARTITE (EAO, OIE, WHO)



## AMU Data collection: A New Phase





A system designed for **YOU** To calculate antimicrobial quantities with the **Calculation module** 

Allows online access to complete the antimicrobial use (AMU) questionnaire and upload data collected offline.



Access historical data and generate professional outputs for data visualisation









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World Organisation for Animal Health

#### The Quadripartite <sup>10</sup>



#### **GLOBAL ACTION PLAN** ON ANTIMICROBIAL RESISTANCE

Adopted in 2015 by all countries through decisions in the World Health Assembly, the Food and Agriculture Organization of the United Nations (FAO) Governing Conference and the World Assembly of World Organisation for Animal Health (OIE) Delegates. Countries agreed to have a national action plan on AMR that is consistent with the Global Action Plan, and to implement relevant policies and plans to prevent, control and monitor AMR. This action plan underscores the need for an effective "one health" approach involving coordination among numerous

international sectors and actors, including human and veterinary medicine, agriculture, finance, environment, and well informed consumers.

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WORKING TOGETHER FOR THE HEALTH OF HUMANS, ANIMALS, PLANTS AND THE ENVIRONMENT

AMR is embedded as one action track

FIGURE 3: THE SIX OH JPA ACTION TRACKS



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Memorandum of understanding signature

OHHLEP, as an independent advisory group to the Quadripartite, has issued a comprehensive definition of One Health, which the Quadripartite embraces in this OH JPA (Adisasmito *et al.*, 2022):

One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of humans, animals, plants and ecosystems. It recognizes the health of humans, domestic and wild animals, plants and the wider environment (including ecosystems) are closely linked and interdependent.

The approach mobilizes multiple sectors, disciplines and communities at varying levels of society to work together to foster well-being and tackle threats to health and ecosystems, while addressing the collective need for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development.



Action track 1: Enhancing One

communication of food safety risks

Action track 2: Reducing the risks from emerging and re-emerging zoonotic epidemics and pandemics

Action track 3: Controlling and eliminating zoonotic, neglected tropical and vector-borne diseases **One Health's definition** 

## Antimicrobial Resistance – Commitments

2014 - Netherlands (Ministries of Health and Agriculture) - 17 countries → accelerated political commitment and action to the realization of the WHO Global Action Plan on AMR as well as the UN General Assembly High level Meeting on AMR in September 2016.

2019 – Netherlands (Ministries of Health and Agriculture) - 40 countries  $\rightarrow$  twining initiative among countries from the North and South in the implementation of National Action Plans and the establishment of the AMR Multiparter Trust Fund with 5M USD initial financial commitment from the Government of Netherlands. By June 2022, the AMR Trust Fund mobilized 26M USD with additional donors including the Governments of UK, Germany and Sweden and supports 11 countries in the implementation of One Health NAPs on AMR.

**2022** – Muscat, Oman (Ministries of Health and Agriculture) – Endorsed by 47 countries (attended by 28 Ministers of Health and 14 Ministers of Agriculture)



## **Muscat Manifesto**

Reviewing, updating or revising our National Action Plans for AMR with all relevant stakeholders for implementation with financial resources, milestones and national targets, including the Sustainable Development Goal indicators on AMR in the human health sector, taking into consideration the One Health approach;

Strengthening national, regional, and global surveillance systems through improved data management, private sector engagement, implementation of data-driven practices, and the reporting of data to the WHO Global Antimicrobial Resistance Use Surveillance System (GLASS), the WOAH Animal Antimicrobial Use system (ANIMUSE), and the Quadripartite Tracking AMR Country Self-Assessment Survey (TrACSS);

Reducing the total amount of antimicrobials used in the agri-food system by at least 30-50% from the current level by 2030;

Zero use of medically important antimicrobials for human medicine in animals for non-veterinary medical purposes or in crop production and agri-food systems for non-phytosanitary purposes;

Ensuring that ACCESS group antibiotics comprise at least 60% of overall antibiotic consumption in humans by 2030.

Coming soon (2024) – United Nations General Assembly (UNGA 2024)– AMR Side Event &

Fourth High-Level Inter-Ministerial Conference on AMR (Saudi Arabia)

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## Muscat Manifesto: Recommendations for countries

**Reviewing, updating or revising our NAPs for AMR** with all relevant stakeholders for implementation with financial resources, milestones and national targets, (...) taking into consideration the One Health approach;

**Strengthening national, regional, and global surveillance systems** through **improved data management, private sector engagement, implementation of data-driven practices**, and the reporting of data to WHO (GLASS), **WOAH Animal Antimicrobial Use system (ANIMUSE)**, and the Quadripartite Tracking AMR Country Self-Assessment Survey (TrACSS);

Target 1: Reducing the **total amount of antimicrobials** used in the agri-food system by at **least 30-50%\*** from the current level by 2030;

Target 2: Zero use of medically important antimicrobials (MIAs) for human medicine in animals for nonveterinary medical purposes – CIA are of utmost priority to preserve.

Target 3: Ensure that ACCESS group antibiotics are at least ≥ 60% of overall antibiotic consumption in humans by 2023.

\*Note: This **30-50%** measurement refers to a **population-weighted amount of antimicrobials reduction** 





## Scientific and Technical Review vol. 41 Antimicrobial use in animals: a journey towards integrated surveillance

M. Jeannin, M. Magongo, D. Gochez, O. Valsson, E. Erlacher-Vindel, M. Arroyo Kuribreña & J. Yugueros-Marcos



# Thank you