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► To cite this version:

Daniele De Meneghi, Jane Parmley, Mary E. Wiktorowicz, Arne Ruckert, Nicolas Antoine-Moussiaux, et al.. CoEvalAMR Convergence in evaluation frameworks for integrated surveillance of AMU & AMR: selected activities and new results. ECVPH Annual Scientific Conference, Sep 2023, Berlin, Germany. anses-04478075

HAL Id: anses-04478075

<https://anses.hal.science/anses-04478075v1>

Submitted on 6 Mar 2024

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CoEvalAMR - Convergence in evaluation frameworks for integrated surveillance of AMU & AMR: selected activities and new results



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Group photos at COEvalAMR workshop, 4th ICAHS confer., May 2022, Copenhagen (DK) (<https://icahs4.org/workshops>), and Annual co-ordination meeting, AgroVet campus, Grugliasco-Turin (I), June 2023



Choosing an evaluation framework for surveillance of AMU and AMR

This evaluation guidance aims to provide support towards the evaluation of surveillance systems for AMU and/or AMR, to personnel working in public, private and non-governmental organizations, from local, national and international environmental health, at local, national and international levels. Selecting an appropriate tool for evaluation is part of the evaluation process. It will support the evaluation planning and help define data and information needs.



1. Introduction to surveillance evaluation
2. Evaluation of surveillance for AMU and AMR
3. Evaluation tools
4. Support for selecting an evaluation tool
5. Case Studies
6. Directory of tools

ACTIVITIES CARRIED OUT AND/OR IN PROGRESS

Results: CoEvalAMR has evaluated and compared 14 assessment tools for their applicability to AMU/AMR, and their focus on OH aspects.

Webinars and workshops on AMU/AMR surveillance systems, health policies and governance have been organized.

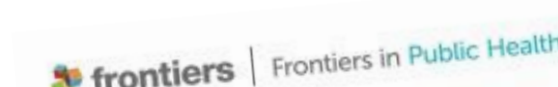
Results have been presented at international conferences and scientific papers and popular-science articles have been published (<https://coevalamr.fp7-risksur.eu/publications>).



Evaluating the Integration of One Health in Surveillance Systems for Antimicrobial Use and Resistance: A Conceptual Framework

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OPEN ACCESS
 Edited by: Juan Antonio VEGHET Health Surveillance Center (EGZK), Spain



Users' perception of the OH-EpiCap evaluation tool based on its application to nine national antimicrobial resistance surveillance systems

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TYPE Brief Research Report
 PUBLISHED 19 June 2023
 DOI 10.3389/fvets.2023.1136645

WHO WE ARE

CoEvalAMR is an international collaborative network with more than 40 participants from different disciplines, belonging to 15 Institutions around the world (<https://coevalamr.fp7-risksur.eu/>). It is funded by the Joint Programming Initiative on Antimicrobial Resistance (<https://www.jpiamr.eu/>). The present project (Phase 2, 2021-2024), co-ordinated by the University of Montreal, extends Phase 1 (2019-2020).



WHAT WE DO

Objectives: CoEvalAMR aims to develop and share guidance for the evaluation of integrated One Health (OH) surveillance systems for antimicrobial use (AMU) and resistance (AMR).

Materials & Methods: CoEvalAMR is organized in 5 working groups (WGs), namely

- WG1 promotes knowledge exchange and peer-learning between people working on evaluation of OH surveillance for AMU/AMR and social scientists in governance and impact evaluation;
- WG2 reviews strategies for effective OH governance of AMU/AMR;
- WG3 develops method to evaluate impacts of OH surveillance for AMU/AMR;
- WG4 applies selected evaluation methods to country-based case studies;
- WG5 coordinates general network activities.

An “Evaluation guidance” developed by the network is used to guide selection of appropriate evaluation frameworks for AMU/AMR surveillance (<https://guidance.fp7-risksur.eu>)

The screenshot shows the user interface of the evaluation matrix tool. It includes a header with the CoEvalAMR logo, a greeting, and instructions on how to use the tool. The interface is divided into several sections: 'Case study', 'Description of the tool', 'Content themes', 'Functional aspects', 'SWOT', 'Open comments', and 'Figures'. A 'The 5 Evaluation Levels' diagram is also visible, showing a conceptual model for the evaluation of integrated surveillance for AMU and AMR. The diagram consists of five levels: Level 1: One health integration, Level 2: One health information and expertise, Level 3: Knowledge generation, Level 4: Decision-making, and Level 5: Impact. The diagram shows how these levels are interconnected and supported by various components like 'Data', 'Methods', 'Processes', and 'Outcomes'.

THE CHALLENGES OF COEVALAMR

Discussion & Conclusions: CoEvalAMR helps users in selecting among evaluation tools available and enhances their development. Gaps identified in Phase1 included governance and impact of integrated surveillance. In Phase2, CoEvalAMR members are working to fill these gaps and provide guidance on how governance and impact considerations can be included in evaluation frameworks.

Perspectives: Other challenges such as gender and social equity have been identified in Phase 2; CoEvalAMR members shall explore how these issues may impact on AMU/AMR surveillance. The guidance will be further disseminated to provide support for evaluation of AMU/AMR surveillance systems to personnel working locally, nationally or internationally in public, private or non-governmental organizations, with expertise in public, animal, plant and environmental health.