

General Information:

Workshop Title: Evaluating Surveillance Systems for AMR and AMU in a One Health context

Motivation and description of the objectives, or learning outcomes, of the workshop: The CoEval-AMR (Convergence of Evaluation Frameworks for Integrated AMR and AMU Surveillance) network was created to guide design and evaluation of integrated AMR and AMU surveillance systems. The network was established with the support of JPIAMR funding in 2019 (Phase 1) to harmonize and refine existing methods and tools for assessing AMR and AMU surveillance from a One Health, integrated and systems perspective. Since its inception, the CoEval-AMR network has evaluated and compared 12 different assessment tools in terms of applicability to AMU and AMR with a focus on One Health aspects. The network was renewed in 2021 for Phase 2 to 1) improve tools for evaluation of the impact and socioeconomic value of integrated surveillance systems and the governance of these complex collaborative monitoring systems, 2) engage more social scientists in design and evaluation of integrated AMR and AMU surveillance systems, and 3) to assess new assessment tools by applying them to different case studies. More information about CoEval-AMR is on our network website: <https://coevalamr.fp7-risksur.eu/>.

In this workshop, instructors will:

- 1) provide a summary of Phase 1 findings and an overview of Phase 2 plans and activities,
- 2) will present the decision tool developed in Phase 1, summarize the available evaluation tools and review several case studies
- 3) lead participants through individual and group activities to formulate an evaluation question, plan, and identify an appropriate evaluation tool
- 4) facilitate a discussion of challenges and gaps in surveillance system evaluation

Workshop objectives:

- To share and discuss findings and material developed by CoEval-AMR members (Phase 1)
 - The decision tool and how to use it
 - Relevant case studies
- To share and discuss previous research, approaches and methods relevant to evaluation of One Health governance and impacts for AMR and AMU surveillance systems (Phase 2).
 - Systematic review of tools for evaluating surveillance impact
 - Scoping review for governance
 - Updated evaluation frameworks and discussion
 - Relevant case studies

Background and skills the workshop attendees are expected to (or must) have: The workshop is intended for anyone who works in surveillance, is responsible for evaluation of their programs and/or is interested in learning more about the added value of integrated surveillance and how to measure it. The material is particularly relevant to those working in AMR and AMU surveillance in public or animal health with an interest in evaluation.

Information about any previous history of the proposed workshop (if the workshop has been offered before), including venues, dates, and approximate attendance numbers.

- A workshop was held virtually in March 2021 to launch CoEval-AMR Phase 2. At that time, the results of Phase I were presented, gaps were highlighted, and an outline of activities was decided for Phase 2. Approximately 90 people participated in the overview session on Day 1 of this workshop; the other components were limited to current member of the CoEval-AMR network (approximately 30 people).
- A similar workshop proposal has been submitted to the ICAHS meeting (scheduled for May 2022 in Copenhagen)

Workshop specifications:

Duration of the proposed workshop: 1 day

Minimum: 10 people; maximum: 30 people

Conference preference: 1 day pre-conference workshop

Will you allow non-ISVEE delegates to participate in the workshop if the registration by ISVEE delegates does not reach the maximal enrolment? Yes. However, priority will be given to ISVEE delegates. As such, workshop registration will initially open only to ISVEE delegates. If we do not reach our capacity by the deadline, registration will open to non-ISVEE delegates. Individuals interested in the workshop who will not be ISVEE delegates are invited to reach out to the workshop coordinators to place their name on a waiting list.

Working language of the workshop: The workshop will be given in English. Instructors are also fluent in French.

Schedule of the workshop: See Table 1 below.

Will online participation in the workshop be possible: Yes. Online participants will engage in the workshop with in-person attendees. The presentations from the instructors will be shared over Zoom and one instructor will be responsible to ensuring that the content is delivered, and online participants are able to engage in discussion. Laptop computers will be used to allow online participants to engage in small group discussions as well as plenary.

Any specific requirements for the organization of the workshop: None required.

Table 1: Proposed Workshop Schedule

Day	Time	Activity/Contents	Details
1	8:30-10:00	Introductions and welcome	Introduction of all participants and instructors; ice breaker activity
	10:00-10:30	bio break	
	10:30-11:00	CoEval-AMR Phase 1 and the Decision Tool	Introduction to CoEval-AMR network, activities in Phase I and the decision tool
	11:00-12:00	Developing an evaluation plan	<u>Activity:</u> Participants will formulate an evaluation question, develop an evaluation plan and select an appropriate tool
	12:00-13:00	lunch break	
	13:00-13:30	CoEval-AMR Phase 2: Governance and Impact	Introduction to governance, how to evaluate governance and impact, and activities in Phase 2
	13:30-14:30	Choosing indicators for governance and impact evaluation	<u>Activity:</u> Participants will select a set of indicators for evaluating governance and impacts and discuss about evaluation challenges related.
	14:30-15:00	bio break	
15:00-15:45	Case studies	Lessons learned – Presentation of select Phase 1 and 2 case studies	
	15:45-16:00	Wrap-up and discussion	Discussion of ongoing surveillance evaluation gaps and challenges

Information about workshop organizers:

Short biography for each member of the team delivering the workshop:

Cécile Aenishaenslin is a professor at the Faculty of Veterinary Medicine and a researcher at the Public Health Research Center of the University of Montreal. A veterinarian and epidemiologist, Dr. Aenishaenslin is also trained in public health and international studies. She conducts transdisciplinary research to better understand the effects of global changes on animal and zoonotic diseases and to design and evaluate One Health interventions, programs, and policies. She is leading the second phase of the CoEvalAMR consortium, after being involved as an active member of its first phase.

Sarah Mediouni graduated from the National School of Veterinary Medicine in Tunisia in 2017. Having obtained a scholarship of excellence from the Tunisian Ministry of Higher Education and Scientific Research, she pursued a master's degree in public health at the University of Montreal during which she worked on human exposures to rabies in the Inuit communities of Nunavik (Quebec-Canada), particularly through dog bites. Sarah is currently a PhD student at the Faculty of Veterinary Medicine at the University of Montreal. Her PhD project consists of evaluating the health and economic impacts of the Canadian Integrated Program for Antimicrobial Resistance Surveillance (CIPARS). Sarah is a member of the Research Group on Epidemiology of Zoonoses and Public Health (GREZOSP) since 2018 and is also affiliated with the Public Health Research Centre (CreSP). Sarah is the network coordinator for CoEVAL AMR – Phase 2.

Jane Parmley is an Associate Professor in the Department of Population Medicine at the University of Guelph. She trained as a veterinarian at the University of Saskatchewan and has a PhD in Epidemiology from the University of Guelph. Throughout her career, Jane has worked on complex but fascinating health problems such as antimicrobial resistance (AMR) and emerging zoonotic diseases with government, non-governmental and university-based organizations. Using a One Health approach in her research, Jane uses systems thinking to consider the many drivers that influence health and the interconnections between humans, animals and our shared ecosystems, and collaborates with other disciplinary experts to find creative solutions to complex health problems.

Marion Bordier is a veterinarian with 20 years of experience working in veterinary public health. She first worked as a deputy director in a veterinary laboratory where she was in charge of the animal health and food safety departments and then at the French Ministry of Agriculture where she coordinated the surveillance system for food and feed. After completed her PhD on the application of the One Health concept to the surveillance of health hazards at the human-animal-environment interface, she joined the CIRAD (the French Agricultural Research Centre for International Development) in 2019 as an epidemiologist. Based in Senegal, her work is focusing on the development of actor-based strategies for the prevention of animal diseases, including zoonotic diseases, and for a better management of antimicrobials. She is particularly interested in integrated approaches to health, involving participatory methods, and mixing qualitative and quantitative approaches. She has developed methodological frameworks and tools to support the co-construction of integrated surveillance systems and their evaluation that have been successfully applied to AMR and AMU surveillance. During the JPIAMR network CoEvalAMR phase I, she actively participated in evaluating and comparing tools to assess AMR

surveillance. During phase II, she is continuing assessing evaluation tools and is also working on the evaluation of the impacts of integrated surveillance.

Arne Ruckert is the Director of Research at the Globalization and Health Equity Research Unit at the University of Ottawa. He is also the Associate Director of the One Health Modeling Network for Emerging Infections (OMNI) at York University, as well as Research Coordinator of the Global One Health Network. His principal areas of research include global health diplomacy and governance, health equity and social determinants of health, and One Health approaches to public health and infectious disease modelling. He recently co-authored an award-winning textbook on global health (Health Equity in a Globalizing Era, Oxford University Press, 2019), and has published close to 100 academic articles and book chapters in a variety of different disciplinary settings. Arne holds an M.A. in International Relations from Queen's University, a Diploma degree from the University of Frankfurt in Social Studies, and a PhD in Political Science from Carleton University.

Lis Alban holds a DVM and a PhD in Veterinary Epidemiology from the Royal Veterinary and Agricultural University of Copenhagen, Denmark. She is an active Diplomate of the European College of Veterinary Public Health and a non-certified Diplomate of the European College of Porcine Health Management. She is Adjunct Professor at the University of Copenhagen and is affiliated with the Danish Agricultural & Food Council (DAFC) as a Chief Scientist. DAFC is an organization that gives scientific and practical advice to the entire Danish agricultural industry - from the farmers to the meat processing plants. Her double affiliation makes it possible for her to act as a bridge between academia and industry. Her research areas are epidemiology and risk assessment including risk-based surveillance-and-control for food safety.

Contact information of the primary applicants:

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