



Regional Workshop on Advancing WOA's AMR Standards in Veterinary Practice

8 – 10 April 2026

Nairobi, Kenya

Agenda

Introduction

Antimicrobial resistance (AMR) is a major global threat to health, food security, livestock production, and economic development. The **World Organisation for Animal Health** (WOAH) supports countries in addressing AMR through standards, governance, capacity building, and advocacy. Despite progress in AMR National Action Plans and surveillance, implementation at national and frontline levels remains weak.

A key gap lies in translating international standards into effective policies, education, and veterinary practice.

Frontline veterinarians play a critical role in containing AMR and preserving antimicrobial effectiveness. Education and continuing professional development are essential to equip veterinarians with AMR and *antimicrobial stewardship* (AMS) competencies. Many veterinary education systems struggle to adequately integrate AMR into curricula and training. Inconsistent regulatory oversight further limits Members' ability to build a competent veterinary workforce. These gaps hinder effective implementation of WOA standards and broader animal and public health objectives.

Coordinated action is required among **Veterinary Education Establishments** (VEEs), **Veterinary Statutory Bodies** (VSBs), and national stakeholders. Strengthening VEE capacity to integrate AMR and AMS into curricula and lifelong learning is critical. Access to WOA standards and guidance can improve the quality and consistency of AMR training. VSBs are pivotal in reinforcing AMR competencies through

regulation, licensing, and professional development. Stronger VSB engagement can significantly enhance national antimicrobial stewardship practices.

The workshop aims to build sustainable AMR mitigation in Africa through education, regulation, and sector-wide collaboration.

Expected learning outcomes

1. Recognise WOHAMR and AMS standards, guidelines, and tools, and their relevance to veterinary education, regulatory frameworks, and professional practice across the region.
2. Introduce and demonstrate structured analytical tools and approaches for reviewing veterinary curricula, faculty capacity, and regulatory systems for alignment with WOHAMR/AMS standards.
3. Identify common strengths, priority gaps, and implementation challenges related to AMR governance and AMS in veterinary practice, including diagnostics, prescribing behaviours, and regulatory oversight.
4. Identify feasible, context-appropriate improvement options to strengthen AMR and AMS teaching and learning approaches, continuing education, and stewardship practices in veterinary education and professional settings, informed by WOHAMR guidance and regional experiences.
5. Outline priority follow-up actions at institutional or national level, including indicative timelines and key stakeholders, to support continued progress in AMR/AMS education and continuing education, and cross-sectoral collaboration.

eLearning Phase

Registered participants will be enrolled into the [WOHAMR eLearning platform](#) and will receive invitation to complete the following eLearning modules prior to the workshop (see table below). As part of this process, participants are also encouraged to complete the initial learner self-assessment associated with the AMR modules, as a reflective exercise to familiarise themselves with key concepts and terminology. The self-assessment is intended solely to support individual learning and reflection and will not be used for evaluation, comparison, or reporting purposes.

The completion of the e-Modules and associated online learning activities and assessments is highly recommended to ensure a harmonised baseline of knowledge among participants and to enable the workshop to focus on applied discussions, technical analysis, experience-sharing, and strategic reflection rather than introductory concepts.

To support engagement with the online component, online English and French speaking tutors will be identified to facilitate learning, respond to technical or content-related questions, and encourage timely completion of the modules.

TITLE	RECOMMENDED TO	COMPETENCY
AMR through the WOAHLens: introduction	Recommended for participants with low level of expertise in AMR	Describe the impact of antimicrobial resistance (AMR) mechanisms, risks, and mitigation strategies in veterinary practice.
Stewardship on AMR under a One Health approach	Recommended to participants with low level of expertise in One Health and antimicrobial stewardship	Explain the principles of antimicrobial stewardship and advocate for responsible antimicrobial use across human, animal, and environmental health sectors.
Stewardship on AMR in terrestrial animals	Highly recommended for participants with expertise in AMR in terrestrial animals	Apply prudent antimicrobial stewardship practices in terrestrial animal health, contributing to policy development, risk assessment, and national monitoring efforts.
Stewardship on AMR in aquatic animals	Highly recommended for participants with expertise in AMR in aquatic animals	Implement responsible antimicrobial management practices in aquatic animal health, supporting risk assessment, regulatory compliance, and national surveillance systems.
Building a <i>National Action Plan</i> (NAP) for AMR focused on terrestrial and aquatic animal health sectors	Recommended to participants with low level of experience in NAP development and implementation	Design and implement a comprehensive <i>National Action Plan</i> (NAP) to combat AMR in terrestrial and aquatic animal health, ensuring effective governance, monitoring, and evaluation.

eModules are available on the WOAHL eLearning Platform under the Competency Package 8: [Prudent use of antimicrobials and other veterinary products](#)



Acknowledgements



Ministry of Agriculture and Livestock Development



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Workshop agenda

DAY 1		Setting the Common Reference Frame	
Session 1: Opening and workshop framing			
Learning outcomes: O1, O3			
Purpose: Establish a common understanding of the workshop scope, principles, and working approach			
Expected output: Shared understanding of workshop objectives and participant mapping by role and experience (informal)			
Time	Theme	Speaker/facilitator	
08:00-08:30	Registration and networking		
08:30-09:00	Workshop opening Opening remarks: The Urgency of our Mission	Carole Goulet , Facilitator Neo Mapiitse , WOAH Sub-Regional Representative James Wabacha , AU-IBAR, Animal Health Expert Abraham Sangula , on behalf of Allan Azegele , DVS, WOAH Delegate (Kenya), President of the <i>Codex Alimentarius</i>	
09:00-09:40	Workshop Objectives Self-introduction by participants	Jane Lwoyero , WOAH AMR Programme Officer (EA) Hana Abdelsattar , WOAH Capacity-Building Department	
09:40-10:00	Adopting a One Health approach for AMR - why is it important?	Eric Fevre , ILRI and University of Liverpool	
10:00-10:30	Health Break and Group photo		
Session 2: WOAH Guidelines, standards and strategies on AMR and AMS			
Objective addressed: O1.			
Purpose: Introduce WOAH Competency based training framework (CBTF), AMR/AMS standards, guidance, and strategic orientation within a One Health framework			
Expected output: Increased familiarity with relevant WOAH standards and guidance, clarified linkages between AMR standards, veterinary education, and practice			
Time	Theme	Speaker/facilitator	
10:30-10:45	Global Action Plan on antimicrobial resistance and WOAH strategy on AMR and prudent use of antimicrobials: key areas of interventions for animal health.	Morgan Jeannin , WOAH Veterinary Products and Drug Resistance Department	
10:45-11:00	WOAH competency framework for AMR: aligning education and continuing education	Hana Abdelsattar , WOAH Capacity-Building Department	
11:00-11:15	Antimicrobial stewardship (AMS) in veterinary practice: a WOAH perspective. <ul style="list-style-type: none"> Stewardship as a professional and ethical responsibility Integration of stewardship into clinical decision-making and herd/flock health management Relationship between disease prevention, biosecurity, vaccination, and reduced antimicrobial use 	Dechassa Tegegne , WOAH AMR Programme Officer (SA)	
11:15-12:30	Group Work: Increase familiarity with relevant standards and guidance	Carole Goulet , Facilitator All facilitators	
13:00-14:00	Lunch break		

Session 3: Veterinary education, regulation, and stewardship – perspectives		
Objectives addressed: O1, O3		
Purpose: Situate veterinary education and regulation within the broader AMR and stewardship ecosystem		
Expected output: Shared understanding of typical learning and governance pathways for AMR/AMS competencies. Documented examples of how competencies are acquired across contexts		
Time	Theme	Speaker/facilitator
14:00-15:00	Group work: How adequately are veterinary students prepared to combat AMR? Introduction by: Armando Hoet, Ohio State Univ.	Miftahul Barbaruah , WOA Capacity-Building Department Carole Goulet , Facilitator
15:00-15.30	Plenary presentation from the groups	Group leaders
15:30-16:00	Health Break	
16:00-16:45	Group work: learning needs of veterinarians in AMR	Hana Abdelsattar , WOA Capacity-Building Department Nadia Brik , WOA One Health Programme Officer (NA) Moctar Mouiche , WOA AMR Project Officer (WCA)
19:00	WOAH welcome reception	All workshop participants



DAY 2		Tools, Experiences, and Structured Reflection	
Session 4: Tools for reflection on curricula, capacity, regulation and experience-sharing on AMR governance and stewardship			
Objective addressed: O2			
Purpose: Introduce and demonstrate WOAHA-aligned tools for voluntary reflection and analysis			
Expected output: Assess the relevance and potential use of selected WOAHA-aligned AMR/AMS tools within national or institutional contexts.			
Time	Theme	Speaker/facilitator	
08:45-09:00	Recap of lessons learned from Day-one	Carole Goulet , Facilitator	
09:00-09:20	WHO AMR Curriculum Assessment Tool for medical education.	Walter Fuller , WHO AFRO	
09:20-09:40	The engagement of the Africa FAO Virtual Learning Centre in promoting a culture of responsible antimicrobial use and long-term AMR mitigation efforts across the region	Gerald Mucheru , FAO (VLC)	
09:40-10:00	The engagement of the Africa-CDC in building capacities for responsible antimicrobial use and long-term AMR mitigation efforts across the region	Fowzia Mohamed Sheikh , Africa-CDC	
10:00-11:00	Group work: Having a framework for competencies: Why it matters?	Miftahul Barbaruah , WOAHA Capacity-Building Department	
11:00-11:30	Health Break		
11:30-11:50	Experience-sharing on AMR governance and stewardship	Romona Ndanyi , DVS, AMR-MPTF beneficiary country: Kenya	
11:50-12:10	VEE Twinning Programme and Benchmarking	Ibrahim Zubairu Hassan , Senior Lecturer, Faculty of Veterinary Sciences, University of Pretoria	
12:10-13:00	“World Café”: Collaborative dialogue process mimicking the creative atmosphere of a café to spark innovation, deepen understanding, and build shared knowledge.	Walter Fuller , WHO AFRO Gerald Mucheru , FAO ECTAD Fowzia Mohamed Sheikh , Africa-CDC Romona Ndanyi , DVS, AMR-MPTF beneficiary country: Kenya Ibrahim Zubairu Hassan , Senior Lecturer, Faculty of Veterinary Sciences, University of Pretoria Hana Abdelsattar , Miftahul Barbaruah , WOAHA Capacity-Building Department	
13:00-14:00	Lunch break		

Session 5: Mapping curriculum gaps to strengthen AMR competencies in veterinary education		
Objectives addressed: O3, O4		
Purpose: Analyse veterinary curricula, identify gaps in generating AMR-specific competencies, and synthesise findings into thematic areas to guide practical improvement strategies in education, training, and professional development.		
Expected outputs: Consolidated list of shared challenges, enabling factors, and areas of interest, agreed thematic clusters for further reflection.		
Time	Theme	Speaker/facilitator
14:00-15:30	Group work : Understanding gaps in veterinary curriculum frameworks to generate AMR prevention and response competencies. Introduction by: Armando Hoet, Ohio State Univ.	Miftahul Barbaruah , WOA Capacity-Building Department
15:30-16:00	Plenary Presentation from group work and discussion	Group leaders All
16:00-16:30	Health Break	
16:30-16:50	Continuing education of veterinary practitioners: strengthen learning on Essential Veterinary Medicines List and use of critically important antimicrobials in animal health	Olatunji Nasir , Medicines Stewardship Working Group, President – Elect, World Veterinary Association
16:50-17:00	Plenary Discussion, Q&A	All



DAY 3	From Reflection to Forward-looking Considerations	
Session 6: Strengthening AMR/AMS teaching, training and learning approaches		
Objectives addressed: O1, O4		
Purpose: Share examples of effective and innovative teaching and learning approaches		
Expected outputs: Increased awareness of adaptable teaching and learning methods, and participant reflections on relevance to their own contexts.		
Time	Theme	Speaker/facilitator
09:00-09:10	Recap of lessons learned from Day 2	Carole Goulet , Facilitator
09:10-09:30	Principles of Antimicrobial Stewardship: implementing AMS plan in clinical settings	Olatunji Nasir , Medicines Stewardship Working Group, President – Elect, World Veterinary Association (WVA)
09:30-09:45	Are veterinary faculties ready to respond to AMR/AMS educational needs?	Hezron Nonga Sokoine University of Agriculture

09:45-10:30	Panel Discussion: Are veterinary faculties ready to respond to AMR/AMS educational needs?	Hezron Nonga Sokoine University of Agriculture Ibrahim Zubairu Hassan , Senior Lecturer, Faculty of Veterinary Sciences, University of Pretoria
10:30-11:00	Health Break	
11:00-11:20	Promote behaviour changes for a more responsible use of antimicrobial through risk communication	Jane Lwoyero , WOAAMR Programme Officer (EA)
11:20-12:20	Group Work: Reflection on how to promote and implement behaviour change strategy	Jane Lwoyero , WOAAMR Programme Officer (EA) Hana Abdelsattar , WOAAMR Capacity-Building Department Carole Goulet , Facilitator
12:20-13:00	Restitution of Group work and discussion	Group Leaders
13:00-14:00	Lunch break	
Session 7: Co-design of sustainable improvement options and follow-up		
Objectives addressed: O4, O5		
Purpose: Encourage collective reflection on practical, context-sensitive improvement options and to support voluntary identification of next-step considerations beyond the workshop		
Time	Theme	Speaker/facilitator
14:00-15:30	Group work: Roadmap for Institutional Commitment to integrate AMR-specific and AMR-sensitive content to veterinary curricula	Carole Goulet , Facilitator Jane Lwoyero , WOAAMR Programme Officer (EA) Dechassa Tegegne , WOAAMR Programme Officer (SA) Nadia Brik , WOAAMR One Health Programme Officer (NA) Moctar Mouiche , WOAAMR Project Officer (WCA)
15:30-16:00	Health Break	
16:00-16:30	Each sector presents their road map	Group leaders
16:30-17:00	Workshop evaluation and awarding of certificates	Hana Abdelsattar , WOAAMR Capacity-Building Department
17:00-17:20	Workshop Closing Remarks from WOAAMR Representative Official closing by WOAAMR Delegate of Kenya	Carole Goulet , Facilitator Patrick Bastiaensen , on behalf of Neo Mapiitse , WOAAMR Sub-Regional Representative (EA) Abraham Sangula , on behalf of Allan Azegele , DVS, WOAAMR Delegate (Kenya), President of the <i>Codex Alimentarius</i>