

WOAH Collaborative Centre Reports Activities 2025

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CENTRE INFORMATION

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TOR 1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Disease control (true)	African Swine Fever Economics	Cross-Border Threat Screening & Supply Chain Defence (CBTS), a Department of Homeland Security (DHS) Centre of Excellence, is partnering with IAD to lead an African Swine Fever (ASF) Economics Study. The study aims to assess the economic impacts of the ASF virus on U.S. supply chains within the food and agriculture sector. The project's objectives include measuring the economic impact on the U.S. pork production supply chain, estimating economic welfare impacts, and assessing direct and indirect effects on the U.S. swine industry, allied industries, and non-agricultural sectors. Additionally, the study aims to determine the duration for which economic indicator impacts can be categorised at the regional, national, and international levels. This work links to and builds upon collaborations on the economic impact of animal diseases through the Global Burden of Animal Diseases programme. It also connects IAD with the work of the WOA Collaborating Centres on Economics of Animal Health for Europe (Rushton, Liverpool, UK) and The Americas (Pendell, KSU, USA).
Training, capacity building (true)	World Organisation for Animal-Health African Union InterAfrican Bureau for Animal Resources (WOAH AU-IBAR) Capacity Development of Support of Strengthening Veterinary Health Systems to Facilitate Trade within Member States of the African Union	This project focuses on reviewing, updating, and developing the Standard Methods and Procedures in Animal Health (SMP-AH) protocols for implementation throughout African Union (AU) countries. Through two workshops conducted in eastern and southern Africa regions (Kenya and Senegal) in 2025, the project team solicited the input, participation, and expertise of selected Veterinary Services (VS), animal industry representatives, and stakeholders across the continent to update thirteen (13) SMP-AH protocols for Africa. Workshop facilitators and observers includes staff from the African Union InterAfrican Bureau for Animal Resources (AU-IBAR), the World Organisation for Animal Health (WOAH), the Institute for Infectious Animal Diseases (IAD) under Texas A&M AgriLife Research, Texas A&M University's College of Veterinary Medicine and Biomedical

		Sciences (TAMU-CVMBS), and the United States Department of Agriculture Animal and Plant Health Inspection Service International Services (USDA-APHIS-IS).
Disease Control (true)	Healthy Border 2030 Roadmap and Development of the Scenario-Based Facilitated Discussion	This research project, undertaken in collaboration with the U.S.–Mexico Border Health Commission (BHC), aims to develop an overarching report addressing the Commission's ten priority public health issues through to 2030. The Institute for Infectious Animal Diseases (IIAD) is partnering with public health specialists from both the United States and Mexico, across all border states, to advance work in these key areas of importance to the U.S. Department of Health and Human Services (HHS). In addition, during FY 2025, the project focused on evaluating two public health operating protocols related to infectious diseases, aimed at enhancing emergency management communication between public health agencies in the United States and Mexico.
Training, Capacity Building (true)	Competencies in One Health Field Epidemiology (COHFE)	The Competencies for One Health Field Epidemiology (COHFE) framework addresses the growing and urgent need to strengthen collaboration among the public health, animal health, and environment sectors to tackle health threats at the human–animal–environment interface. The Food and Agriculture Organization of the United Nations (FAO), the World Health Organization (WHO), and the World Organisation for Animal Health (WOAH) developed the COHFE framework to define the core One Health knowledge, skills, and competencies required in Field Epidemiology Training Programmes (FETPs). IIAD contributed to the development of the guidance documents for the COHFE programme and the prioritisation tool.
Training, Capacity Building (true)	eModules, Development on Emergency Management Modules for the World Organisation for Animal Health (WOAH) Training Program	In collaboration with WOA, the IIAD is developing four eLearning modules on Emergency and Disaster Management to be included in the eLearning catalogue of the WOA Training Portal. The modules are as follows: 1) Introduction to Disaster and Emergency Management (day 2); 2) Planning for Emergencies and Disasters (day 2); 3) Planning for Emergencies and Disasters (Expert); 4) Emergency and Disaster Response (day 2). The curriculum is focused on professional development for Day 2 Veterinary Services with fewer than five years of experience. The eLearning modules will be available on the WOA eLearning platform in the three official WOA languages: English, French, and Spanish.
Training, Capacity Building (true)	EmVetNet- Collaborating Centre on Veterinary Emergencies	EmVetNet members reviewed and edited the Terms of Reference for WOA Competency Package Six. IIAD initiated a project with Lincoln Memorial University to catalogue and characterise emergency and disaster management references, including FAO GEMP, IAEA references, WOA guidelines, WOA Science and Technology documents, LEGS, the Sendai Framework, and other international sources. An initial Zoom meeting was held with WOA Headquarters to discuss future EmVetNet projects, including the potential expansion of membership. EmVetNet meetings were led by IIAD. In collaboration with Lincoln Memorial University and Ross University, a National Veterinary Services capacity survey was conducted to assess disaster preparedness and response in the Caribbean region.
Training, Capacity Building (true)	Food and Agricultural Organization (FAO) Field Training Programme in Wildlife, Ecosystem, Biodiversity and the Environment (FTP-WEBE)	The Frontline Field Training Programme for Wildlife, Environment, Biodiversity, and Ecosystems (FTP-WEBE) supports the Food and Agriculture Organization of the United Nations (FAO) Organisational Strategic Framework, which prioritises One Health, a better environment, and biodiversity and ecosystem services for food and agriculture. The programme, implemented in Indonesia, includes a country readiness assessment, an implementation plan, training for programme trainers and mentors, and the delivery of one FTP-WEBE training course using the in-service training model.
Training, Capacity Building (true)	Ukraine Emergency Veterinary Medicine	The Institute for Infectious Animal Diseases (IIAD) partners with the United States Department of Agriculture (USDA) and BRIDGES, a Ukrainian consulting firm, to assess and support the recovery of Ukraine's livestock industries impacted by the ongoing Russian invasions. Dr Jimmy Tickel and Madeline Healy of IIAD collaborated with Dr Lina Dotsko and the BRIDGES team

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to survey affected livestock and poultry producers, initially focusing on pharmaceutical support. The survey revealed that training and technical support from US-based experts are in greater demand than pharmaceuticals. Regular surveys conducted from 2023 to 2024 help refine producers' needs.

TOR 3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable Area
WOAH AU-IBAR Capacity Development of Support of Strengthening Veterinary Health Systems to Facilitate Trade within Member States of the African Union	This project focuses on the Standard Methods and Procedures in Animal Health developed by AU-IBAR for Africa and the development of three new animal health procedures for AMR and emerging diseases. IIAD will lead the emerging diseases, and the Texas A&M School of Veterinary Medicine and Biomedical Sciences will oversee AMR activities.	Training and Education
FAO FTP- WEBE Support to Development the Frontline Field Training Programme for Wildlife, Biodiversity, and Ecosystems	The Frontline FTP-WEBE program was developed for in-serve professionals from the ministries responsible for natural resource management, ecosystems, wildlife, and biodiversity to increase their capacity to contribute to One Health.	Training and Education Wildlife Health and Biodiversity

3. In exercising your activities, have you identified any regulatory research needs* relevant for WOAHP?

No

4. Did your Collaborating Centre maintain a network with other WOAHP Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOAHP CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Nationale Centre of Zoonotic Sanitary Vigilance (CNVZ)	Tunisia	África	Consortium with IIAD for eModules
World Organisation for Animal Health (WOAH) Platform Action's bridging workshop on Disaster Management and Risk Reduction.	Belgium	Europa	Presentations and SOP workshop facilitation as EMVETNET representatives
Nationale Centre for Animal and Plant Health, Centro Nacional de Sanidad Agropecuaria (CENSA)	Cuba	América	Consortium with IIAD for eModules and EmVetNet
Italian Zooprophyllactic Experimental Institute, Istituti Zooprofilattici Superimentali (ISZAM)	Italy	Europa	Consortium with IIAD for eModules and EmVetNet
Centro Regional de Entrenamiento para los Servicios Veterinarios de las Americas (CresVet)	Argentina	América	Consortium with IIAD for eModules
Center for Food Security and Public Health (CFSPH)	United States	América	Consortium with IIAD for eModules
University of Minnesota	United States	América	Consortium with IIAD for eModules

Ecole Nationale des Services Veterinaires (ENSVI)	France	Europa	Consortium with IAD for eModules
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TOR 4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOA Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

No

TOR 6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOA?

Yes

Name of expert	Kind of consultancy	Subject
Dr. David Castellan	International Veterinary Epidemiology Consultant	GF-TADs – HPAI Global Strategy (8 months) Conducted direct regional consultations through the GF-TADs and indirectly through FAO and WOA global consultations and led a draft of the Global Strategy for the Control of Avian Influenza that was submitted to the GF-TADs steering committee. FAO – African Swine Fever White Paper (8 months) Conducted consultations with a panel of international experts that resulted in an outline and a final draft document of the ASF White Paper; summarized ASF vaccination guidelines that are harmonized with WOA Technical Guidelines for ASF under different epidemiological contexts and production systems; and documented ASF vaccination considerations, options, and strategies in a White Paper for member countries related to existing challenges.
Dr. Christine Budke	WOAH Technical Working Group Member	Competencies for One Health Field Epidemiology (COHFE) – Quadripartite
Dr. Gary Vroegindewey	WOAH Collaborating Centre Network Member	Veterinary Evaluator for Exercise Phoenix and International Exercise Phoenix WOA Global Conference on Emergency Management-Simulation Exercise Moderator, Foresight Exercise Facilitator, poster presentation on Veterinary Emergencies Responder Behavioural Health in Disasters Consultation of Chilean Wildfires 2024 Review and edit TOR for WOA CP 6 on Veterinary Emergencies
Dr. Heather Simmons	WOAH Technical Working Group Member	Competencies for One Health Field Epidemiology (COHFE) – Quadripartite WOA VPP Curriculum Analysis Support Missions One Health Assessment Tool (FAO-RAP) Field Training Program for Wildlife, Ecosystem, Biodiversity and the Environment (FAO-RAP). Review and edit TOR for WOA CP 12 on One Health
Ms. Barbara Martin	FAO Consultancy WOA Ad hoc Working group and Contractor	Development of the Global Laboratory Leadership Program (FAO-NS)
Dr. Jonathan Rushton	International Consultancy and Project Management Director for WOA Collaborating Centre for Economics of Animal Health for Europe	Global Burden of Animal Diseases program – BMGF/FCDO, ACIAR, IDRC, Brooke, and others. Assessment of the zoonotic disease burdens in the Middle East and North Africa Region for the World Bank. Support to the economic assessment of growth promotion antimicrobials in Georgia – funded by ICARS.
Mr. Gary Flory	WOAH Technical Working Group Member	HPAI Response Development of Animal Disease Management Plans Workshop on Wildlife Carcass Management HPAI Consultations EuFMD: Depopulation, Disposal and Cleaning and Disinfection Emergency Poultry Disease Response Certificate Symposium Depopulation, Disposal, and Animal Handling Workshop Mortality Management Training Schools
Dr. Jimmy Tickel	WOAH Technical Working Group Member Lead Facilitator, Guide development for Facilitators, Participants, and Observers, Exercise Inject development Participant/Group leader for Foresight Workshop Presenter and Group Leader Participant and Case Study Actor Committee Member Committee Member/Presenter Board of Director/Moderator Presenter	Phoenix Exercise- Regional hub at Bangkok and International Exercise Global Emergency Management Conference WOA Platform Action Plans' bridging workshop on Disaster Management and Risk Reduction WOA AgroCrime/Terrorism Interview Workshop USAHA Conference Regional Ruckus NASAAEP Summit

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

1. *Biological Threat Reduction – EmVetNet – Member requests from disasters for expert advice.*

2. *Biological Threat Reduction – Epidemiology – Member requests for data analysis for epidemiology activities.*

3. *Biological Threat Reduction – Veterinary Workforce Development*

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOA, to personnel from WOA Members?

Yes

a) Technical visit : 5

b) Seminars : 7

c) Hands-on training courses: 7

d) Internships (>1 month) : 4

Type of technical training provided (a, b, c or d)	Content	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
C	World Organisation for Animal Health (WOAH) Standard Methods and Procedures-African Union (SMP-AH) Workshop	Kenya	20
C	World Organisation for Animal Health (WOAH) Standard Methods and Procedures-African Union (SMP-AH) Workshop	Senegal	20
A	(VPP) Curriculum Analysis Support Mission	Kenya	20
A	(VPP) Curriculum Analysis Support Mission	Rwanda	14
A	Sub-Regional Awareness Raising Workshop on Veterinary Workforce Development in Eastern Europe	Romania (host country), Bulgaria, Moldova, Ukraine, Türkiye, and Georgia	30
A	Food and Agricultural Organisation (FAO) One Health Assessment Tool (OHAT) Prioritisation Workshop	Papua New Guinea	100
B	Competencies in One Health Field Epidemiology (COHFE) Awareness at I International Symposium on Veterinary Epidemiology and Economics International Symposium on Veterinary Epidemiology and Economics (ISVEE)	Australia	30
B	Avian Swine Influenza (ASF) Economic Impacts at International Symposium on Veterinary Epidemiology and Economics (ISVEE) Annual Conference	Australia	30
B	Point of Care Diagnostic Assays at International Symposium on Veterinary Epidemiology and Economics (ISVEE) Annual Conference	Australia	30
A	WOAH and Interpol Agrocime Regional Workshop	Zimbabwe	10
B	WOAH Regional Strategy (RAWS) Asia-Pacific Animal Welfare - Maintaining Animal Welfare when Emergency and Disaster Strike	Japan	30

B	WOAH Global Conference on Biological Threat Reduction	Switzerland	100
B	ASF Economic Impacts at the United States Animal Health Association Annual Conference	United States	30
B	Multisectoral Collaboration for Field Epidemiology Training: COHFE Framework and Training Guidance	Global	100
C	Diagnostic Epidemiology Course	All RECs in Africa (Anglophone)	30
C	Diagnostic Epidemiology Course	All RECs in Africa (Francophone)	30
C	FTP-WEBE Readiness Assessment Workshop	Indonesia	30
C	Women in Sustainable Food Systems Grant Writing Workshop	United States	6
C	FTP-WEBE ToT and ToM Training	Indonesia	30
D	Veterinary Student Interns at Institute	United States	4

TOR 8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOAHP?

Yes

National/International	Title of event	Co-organiser	Date	Location	No. Participants
Internationally	World Organisation for Animal Health (WOAH) Seminar held in conjunction with World Association for Veterinary Laboratory Diagnosticians (WAVLD)	WAVLD	2024-06-18	Lyon, France	1
Internationally	Sub-Regional Awareness Raising Workshop on Veterinary Workforce Development in Eastern Europe	WOAH	2024-06-11	Bucharest, Romania	1
Nationally	Iowa Veterinary Medical Association (IVMA), 2024 Annual Meeting	IVMA	2024-09-15	Ames, Iowa, USA	1
Nationally	United States Animal Health Association (USAHA), 2024 Annual Meeting	USAHA	2024-10-20	Nashville, Tennessee, USA	5
Nationally	National Alliance of State and Animal and Agricultural	NAASEP	2024-12-15	Linthicum Heights, Maryland, USA	1

	Emergency Programs (NAASEP), 2004 Summit				
Internationally	International Symposium on Veterinary Epidemiology and Economics (ISVEE), International Symposium on Veterinary Epidemiology and Economics	ISVEE	2024-11-19	Sydney, Australia	4

TOR 9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOA that may be useful to Members of WOA

a) Articles published in peer-reviewed journals:

5

Tickel, J. Current Best Practices in Animal Emergency Management Incident Command and Coordination, NASAAEP Best Practices Working Group,

https://www.thenasaep.com/_files/ugd/8b3e05_262b8265c64743dba20502296e263cc5.pdf

Duc, H.M.; Hoa, T.T.K.; Ha, C.T.T.; Hung, L.V.; Thang, N.V.; Son, H.M.; Flory, G.A. Antibiotic Resistance Profile and Bio-Control of Multidrug-Resistant Escherichia coli Isolated from Raw Milk in Vietnam Using Bacteriophages. Pathogens 2024, 13, 494. <https://doi.org/10.3390/pathogens13060494>

Duc, H.M.; Hoa, T.T.K.; Ha, C.T.T.; Van Hung, L.; Van Thang, N.; Minh Son, H.; Flory, G.A. Prevalence and Antibiotic Resistance Profile of Clostridium perfringens Isolated from Pork and Chicken Meat in Vietnam. Pathogens 2024, 13, 400. <https://doi.org/10.3390/pathogens13050400>

Railey, A.F., Adamson, D., Simmons, H.L., and Rushton, J. (2024) Economics of reducing response time to foreign-animal disease in the United States with point-of-care diagnostic tests. Preventive veterinary medicine, 230, 106284. Doi:10.1016/j.preventmed.2024.106284

FAO and World Organisation for Animal Health. 2025. Global Strategy for the Prevention and Control of High Pathogenicity Avian Influenza (2024–2033) – Achieving sustainable, resilient poultry production systems. Rome. <https://doi.org/10.4060/cd3840en>

b) International conferences:

6

Vroegindewey G. Supported WOA Platform Action Plans' bridging workshop on Disaster Management and Risk Reduction 17 – 18 January 2024

Vroegindewey G. Lisbon, Portugal, and WOA - online meeting on Disaster Management and Risk Reduction – Europe 26 Sept 2024

Maria De la Puente Arevalo, Jenny Maud, Alessandra Alвити, Hao Tang, Acty George, Heather Simmons, David Castellan, Boripat Siraaronrat, Eimear O' Neill, Achila Longchar, Rodrigo Nova, Wilmot Chikurunhe, Mark Obonyo, Gerald Mucheru1, Felipe Torres Andrade, Paolo Pacini, Scott Newman3, Madhur Dhingra4 and Keith Sumpton. Developing One Health Capacity and Networks Through Virtual Training. 17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia. 11-15 November 2024.

Simmons; H.L.; Dhond, N.; Dunkle, S.; Ogunbode, O.; Dhingra, M.; Abdelsattar, H.A. Training the One Health Epidemiology Workforce in the Post-Pandemic Era. ISVEE17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia. 11-15 November 2024.

Simmons H.L.; Martin, B.M.; Rushton, J.; Saliki, J.; Roth, J.; Swinford, A.; Hensley, T.; Railey, A.; Stowell-Moss., J. Development of a Point-of-Care Diagnostic Testing Framework: High Consequence Transboundary Animal Diseases and the Economic Impacts of use of POC Assays in the United States. ISVEE17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia. 11-15 November 2024.

Pendell, D.; Countryman, A.M.; and Rushton, J. Evaluating Economic Impacts of African Swine Fever on U.S. Pork Supply Chain. 17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia. 11-15 November 2024.

Countryman, A.M.; Pendell, D.; and Rushton, J. Economic Effects of African Swine Fever on U.S. and Global Agricultural Markets. 17th International Symposium on Veterinary Epidemiology and Economics, Sydney, Australia. 11-15 November 2024.

c) National conferences:

1

Budke CM. The Competencies for One Health Field Epidemiology (COHFE) Framework and training guidance. American Veterinary Medical Association (AVMA) Convention. June 21-25, 2024. Austin, Texas.

d) Other (Provide website address or link to appropriate information):

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Quadrupartite Activities: The COHFE Framework

- *Competencies for One Health Field Epidemiology (COHFE) Framework - Competencies for one health field epidemiology (COHFE) framework*
- *Guidance for One Health Field Epidemiology Learning Evaluation and Certification – Guidance for one health field epidemiology learning evaluation and certification*
- *Guidance for One Health Field Epidemiology Continuing Education Programmes – Guidance for one health field epidemiology continuing education programmes*
- *Guidance for One Health Field Epidemiology Mentorship – Guidance for one health field epidemiology mentorship*
- *Guidance for One Health Field Epidemiology Curriculum Development - Guidance for one health field epidemiology curriculum development*
- *Competencies for One Health Field Epidemiology Prioritization Tool - Competencies for One Health Field Epidemiology Prioritization Tool*

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

The Institute has expanded its training programs in capacity development, animal health, and veterinary epidemiology to improve knowledge and implementation of One Health Concepts on a national and international platform.

12. Additional comments regarding your report:

