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WOAH Collaborative Centre Reports Activities 2024

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CENTRE INFORMATION

*Title of WOAHCollaborating Centre	Biological Threat Reduction
*Address of WOAHCollaborating Centre	Institute for Infectious Animal Diseases
*Tel:	+1-979 862.3202
*E-mail address:	heather.ingleking@agnet.tamu.edu
Website:	https://iiaad.tamu.edu
*Name Director of Institute (Responsible Official):	Heather Simmons
*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Director
*Name of the writer:	Heather L Simmons

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 WOAHC

Category	Title of activity	Scope
		African Swine Fever Economics Cross

<p>Disease control (true)</p>	<p>African Swine Fever Economics</p>	<p>Border Threat Screening & Supply Chain Defense (CBTS), a DHS Centre of Excellence, is partnering with IIAD 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 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 categorized at regional, national, and international levels.</p> <p>This work links and builds on collaborations on the economic impact of animal diseases through the Global Burden of Animal Diseases program. It also connects IIAD with the work of the WOA Collaborating Centres on Economics of Animal Health for Europe (Rushton, Liverpool, UK) and The Americas (Pendell, KSU, USA).</p>
<p>Training, capacity building (true)</p>	<p>WOAH AU-IBAR Capacity Development of Support of Strengthening Veterinary Health Systems to Facilitate Trade within Member States of the African Union</p>	<p>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 (SMP-AH) developed by AU-IBAR for Africa and the development of two new animal health procedures for AMR and two for emerging diseases. AU-IBAR and IIAD/TAMU will conduct 2 regional workshops in Africa to review current and new SMP-AHs. IIAD will lead the emerging diseases, and the Texas A&M School of Veterinary Medicine and Biomedical Sciences will oversee AMR activities.</p>
		<p>This research project aims to work with the U.S. - Mexico Border Health Commission (BHS) to develop an overall report for U.S. – Mexico BHC's 10 priority</p>

<p>Disease Control (true)</p>	<p>Healthy Border 2030 Roadmap</p>	<p>border issues in public health till 2030. IIAD is working with U.S. and Mexico public health specialists in all border states to address areas for 10 border health issues of importance to public health and the U.S. Health and Human Services (HHS). In addition, in FY 2025, the project will focus on evaluating 2 public health SOPs related to emerging diseases for emergency management communication between public health entities in the United States and Mexico.</p>
<p>Training, capacity building (true)</p>	<p>Competencies in One Health Field Epidemiology (COHFE)</p>	<p>The Competencies for One Health field epidemiology (COHFE) framework addresses the increasing 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 Competencies for One Health Field Epidemiology (COHFE) framework to define the core One Health knowledge, skills and competencies needed in Field Epidemiology Training Programmes (FETP). IIAD helped to develop the guidance documents for the COHFE programme and the prioritization tool.</p>
<p>Training, capacity building (true)</p>	<p>eModules</p>	<p>Collaborating with WOAHA, IIAD is developing four eLearning modules on Emergency and Disaster Management to be included in the eLearning catalog of the WOAHA Training Portal. The 4 modules include 1) Introduction to Disaster and Emergency Management; 2) Planning for emergencies and disasters; 3) Planning for emergencies and disasters (expert); and 4) Emergency and disaster response with a majority of the curriculum focused on professional development of day 1 Veterinarians with less than 5 years of experience. The eLearning modules will be offered on the WOAHA eLearning platform</p>

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		in three languages: English, French, and Spanish.
Training, capacity building (true)	EmVetNet	EmVetNet members reviewed and edited the Term of Reference for WOAHS Competency Package 6. IAD Initiated a project with Lincoln Memorial University to catalog and characterize emergency and disaster management references including FAO GEMP, IAEA reference, WOAHS guidelines, WOAHS S and T, LEGS, Sendai, and other international references. Initially established as a Zoom meeting with WOAHS HQ on future EmVetNet projects including expanding membership. Led EmVetNet meetings.
Training, capacity building (true)	FAO Field Training Programme in Wildlife, Ecosystem, Biodiversity and the Environment (FTP-WEBE)	IAD partners with the USDA and BRIDGES, a Ukrainian consulting firm, to assess and support the recovery of Ukraine's livestock industries impacted by the invasion. Dr. Jimmy Tickel and Madeline Healy of IAD collaborated with Dr. Lina Dotsko and the BRIDGES team to survey affected livestock and poultry producers, initially focusing on pharmaceutical support. The survey reveals that training and technical support from US-based experts are more in demand than pharmaceuticals. Regular surveys from 2023 to 2024 help refine producers' needs, leading USDA FAS to develop an RFP for technical assistance training, due Jan 6, 2025. IAD submitted a proposal for a project expected to start in Spring 2025 and run for 18 months, although delays may occur. Virtual training will be affected by ongoing challenges and the availability of Ukrainian stakeholders.

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

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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 Health Management
FAO FTP- WEBE	FAO FTP- WEBE 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
Centre National de Veille Zoosanitaire (CNVZ)	Tunisia	África	Consortium with IIAD for eModules.
Ecole interne de VetAgro Sup (ENSFVI)	France	Oriente Medio	Consortium with IIAD for eModules.
Centro Buenos Aires para la Capacitacion de los Servicios (CresVet)	Argentina	América	Consortium with IIAD for eModules.
Center for Food Security and Public Health (CFSPH)	United States	América	Consortium with IIAD for eModules.

Center for Animal Health and Food Safety (CAHFS)	United States	América	Consortium with IIAD for eModules.
Centro Nacional de Sanidad Agropecuaria (CENSA)	Cuba	América	Consortium with IIAD for eModules.
Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise (ISZAM)	Italy	Europa	Consortium with IIAD for eModules.
WOAH Platform Action's Bridging Workshop on Disaster Management and Risk Reduction.	Belgium	Europa	Presentation and SOP workshop facilitation as EmVetNet representatives.
University of Liverpool	United Kingdom	Europa	ASF economic modelling.

TOR 4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOAHP 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 WOAHP?

Yes

Name of expert	Kind of consultancy	Subject
		GF-TADs – HPAI Global Strategy (8 months) Conducted direct regional consultations through the GF-TADs and indirectly through FAO and WOAHP global consultations and led a draft of the Global Strategy for the Control of

Dr. David Castellan	International Veterinary Epidemiology Consultant	Avian Influenza that was submitted to the GF-TADs steering committee. FAO – African Swine Fever White Paper (8 months) Conducted stakeholder consultations that resulted in an outline and a final draft document of the ASF White Paper; summarized ASF vaccination guidelines that are harmonized with WOAHP Technical Guidelines for ASF under different epidemiological contexts and production systems; and documents ASF vaccination 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
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	Pheonix Exercise- Regional hub at Bangkok and International Exercise Global Emergency Management Conference WOAHP Platform Action Plans' bridging workshop on Disaster Management and Risk Reduction WOAHP AgroCrime/Terrorism Interview Workshop USAHA Conference Regional Ruckus NASAAEP Summit
Dr. Gary Vroegindewey	WOAH Collaborating Centre Network Member	Veterinary Evaluator for Exercise Pheonix and International Exercise Pheonix WOAHP Global Conference on Emergency Management-Simulation Exercise Moderator, Foresight Exercise Facilitator, poster presentation on Veterinary Responder Behavioural Health in Disasters Consultation of Chilean Wildfires 2024 Review and edit TOR for WOAHP CP 6 on Veterinary Emergencies
Dr. Heather Simmons	WOAH Technical Working Group Member Director of WOAHP Collaborating Centre for Biological Threat Reduction	Competencies for One Health Field Epidemiology (COHFE) - Quadripartite WOAHP VPP Curriculum Analysis Support Missions Review and edit TOR for WOAHP CP 11 on One Health One Health Assessment Tool (FAO-RAP)

		Field Training Program for Wildlife, Ecosystem, Biodiversity and the Environment (FAO-RAP)
Ms. Barbara Martin	FAO consultancy WOA Ad hoc Working group and contractor	Development of the Global Laboratory Leadership Program (FAO-NS)
Professor Jonathan Rushton	International Consultancy and Project Management Director of 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

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 : 3
- b) Seminars : 5
- c) Hands-on training courses: 5
- 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
A	WOAH VPP Curriculum Analysis Support Mission	Kenya	50
A	Sub-regional Awareness Raising Workshop on Veterinary Workforce Development in Eastern Europe	Romania (host country), Bulgaria, Moldova, Ukraine, Turkiye, and Georgia	30
A	FAO One Health Assessment Tool (OHAT) Prioritization Workshop	Papua New Guinea	100

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B	Competencies in One Health Field Epidemiology (COHFE) Awareness at I International Symposium on Veterinary Epidemiology and Economics (ISVEE)	Australia	30
B	ASF Economic Impacts at ISVEE	Australia	30
B	Point of Care Diagnostic Assays at ISVEE	Australia	30
B	ASF Economic Impacts at United States Animal Health Association	USA	30
B	Multisectoral Collaboration for Field Epidemiology Training: COHFE Framework and Training Guidance	Global (virtual)	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	40
C	Women in Sustainable Food Systems Grant Writing Workshop	USA (10 countries from Africa)	10
C	FTP-WEBE ToT and ToM Training	Indonesia	30

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D	Veterinary Student Interns at Institute	USA	4
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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 WOA?H?

Yes

National/International	Title of event	Co-organiser	Date	Location	No. Participants
Internationally	WOAH Seminar held in conjunction with WAVLD	WAVLD	2024-06-01	Lyon, France	1
Internationally	Sub-regional Awareness Raising Workshop on Veterinary Workforce Development in Eastern Europe	WOAH	2024-06-01	Bucharest, Romania	1
Nationally	IVMA, 2024 Annual Meeting	IVMA	2024-09-01	Ames, Iowa, USA	1
Nationally	USAHA, 2024 Annual Meeting	USAHA	2024-10-19	Nashville, Tennessee, USA	5
Nationally	NAASEP, 2004 Summit	NAASEP	2024-12-01	Linthicum Heights, Maryland, USA	1
Internationally	ISVEE, International Symposium on Veterinary Epidemiology and Economics	ISVEE	2024-11-11	Sydney, Australia	4
Nationally	American Veterinary Medical Association (AVMA) Annual Meeting	AVMA	2024-06-01	Austin, Texas, USA	1

TOR 9: DATA AND INFORMATION DISSEMINATION

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

of WOAHP

a) Articles published in peer-reviewed journals:

4

Tickel, J. *Current Best Practices in Animal Emergency Management Incident Command and Coordination, NASAAEP Best Practices Working Group*, https://www.thenasaaep.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

b) International conferences:

7

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

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

Maria De la Puente Arevalo, Jenny Maud, Alessandra Alvitì, Hao Tang, Acty George, Heather Simmons, David Castellan, Boripat Sirdaroonrat, Eimear O' Neill, Achila Longchar, Rodrigo Nova, Wilnot Chikurunhe, Mark Obonyo, Gerald Mucheru 1, Felipe Torres Andrade, Paolo Pacini, Scott Newman 3, Madhur Dhingra 4 and Keith Sumption. *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.; Dhand, 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):

6

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:

None