

WOAH Collaborative Centre Reports Activities 2024

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CENTRE INFORMATION

*Title of WOAHCollaborating Centre	Day-One Veterinary Competencies and Continuing Education
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*Name Director of Institute (Responsible Official):	Daniel Grooms, Dean of the College of Veterinary Medicine
*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	James A. Roth, Director; Molly Lee, Associate Director
*Name of the writer:	Jane Galyon

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
		This project, funded by the Bill & Melinda



<p>Training, capacity building (true)</p>	<p>Day 1 Platform</p>	<p>Gates Foundation, aims to improve veterinary education related to the WOAHO Day 1 Competencies, structured around the WOAHO Model Core Curriculum. High quality, gender-intentional and culturally and geographically relevant educational material has been created to expand herd health management and nutrition and infectious disease epidemiology topics as well as add material related to transmissible diseases and broadened to encompass content specific for cattle, poultry, small ruminants, and swine. The second investment, designated as bridge funding from the Foundation was completed in March 2024, to link the initial investment, and the work under development by WOAHO and the WOAHO Collaborating Centers on Training and Education for a holistic approach to improving awareness, adoption and integration of the Day 1 Competencies (D1-Cs) in VEE curricula. This investment kept the momentum and deepened the successful partnerships with in-country colleagues that are critical for institutional change. The project supported the development of a comprehensive 6-step process ("AID-1C") that includes an assessment identifying educational bottlenecks that impact national veterinary service delivery, a multi-stakeholder workshop to identify root causes of deficiencies in D1-Cs and develop an action plan, and the provision of educational resources aligned with WOAHO day 1 competencies; all developed using a gender-sensitive approach. Activities in 2024 included addition of educational resources for three core courses to the online platform, addition of resources on how to adapt the content to the local situation, development of a concept to ensure sustainability and relevance of the platform in the future, and incorporation of additional questions to identify gender inequities at VEEs. A third investment, funded in December 2024 is designed to validate the usefulness of the model to address bottlenecks and root causes in priority geographies, and develop a process to transfer ownership of the model</p>
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		and platform to stakeholders, simultaneously strengthening the educational influence on veterinary service delivery.
Training, capacity building (true)	Cleaning and Disinfection (C&D) in Animal Settings (Basic and Advanced Courses)	The Basic course uses a practical approach to introduce the key principles of the C&D process and has been RACE®-approved for 2 hours of CE credit. The Advanced course discusses the science behind C&D and important considerations when setting up a C&D program and has been RACE®-approved for 4 hours of CE credit. Both courses are offered at no cost to the user.
Training, capacity building (true)	Transboundary and Emerging Diseases of Animals online course	An online course used by all U.S. veterinary schools to provide training on transboundary animal diseases; 14 components of the course are required for initial accreditation training in the U.S.
Training, capacity building (true)	Biosecurity in Livestock and Poultry Production: Basic and Advanced Courses	The Basic course introduces biosecurity concepts and provides an overview of biosecurity risk factors. It is designed for producers, extension personnel and veterinary technicians. The Advanced course is for veterinarians; in addition to the content in the basic course, this course provides information on how to assess risk and develop, implement, and evaluate biosecurity plans. These courses are offered at no cost to the user.
Training, capacity building (true)	Biosecurity Your Way (English and Spanish)	These websites provide biosecurity training materials for underserved producer populations on small to mid-size farms, such as beginning farmers, non-traditional farmers, and new farm employees. Training content included a bilingual "Biosecurity Basics" website and a bilingual "Biosecurity Assessment Tool" that enables producers to review their current biosecurity practices and develop a farm-specific biosecurity plan.
Training, capacity building (true)	Organic and alternative animal health for animal health professionals	This course has six components: Overview, Prevention, Rules and Regulations, Communication, Practice Management, and Treatment Modalities and is approved for up to 7 hours of CE credit. It is intended for animal health professionals with interest in organic and alternative animal health.
		One course, targeted to youth 13-18, teaches

<p>Training, capacity building (true)</p>	<p>Influenza Education Among Youth in Agriculture: "Bring Home the Blue, Not the Flu" Courses</p>	<p>showmanship and animal involvement along with zoonotic disease risks and preventive measures. A second course, targeted to youth 7-12, is also offered. Outreach to youth and adults (train the trainers) is regularly conducted via in person or virtually or through recorded events.</p>
<p>Training, capacity building (true)</p>	<p>Animal Disease Emergencies</p>	<p>A web-based course covering key concepts of a response to a livestock or poultry disease emergency including actions needed to detect, contain and control diseases to better prepare responders from multiple agencies for their tasks during the response.</p>
<p>Training, capacity building (true)</p>	<p>Fact sheets for transboundary animal diseases; annotated images of animal diseases</p>	<p>Technical Fact Sheets: 148 English fact sheets, downloaded 541,136 times in 2024; 138 Spanish fact sheets, downloaded 539,479 times in 2024; 44 Portuguese fact sheets, downloaded 103,586 times in 2024; and 11 French fact sheets, downloaded 8088 times in 2024. One Page Fact Sheets for the Public: 89 English, downloaded 213,054 times in 2024; 67 Spanish, downloaded 144,496 times in 2024. Annotated Images of Animal Diseases: 410 annotated images, 44,232 views (English) and 17,157 views (Spanish) in 2024</p>
<p>Training, capacity building (true)</p>	<p>Worked with WOA Capacity Building Department for further development of the WOA Training Platform</p>	<p>Following peer review in early 2024, worked with a team of developers to address comments, incorporate necessary revisions, and produce a consolidated version of Competency Package 6: Emergency Management Terms of Reference. Worked with a team of experts in development of Competency Package 11: One Health Terms of Reference, contributing both subject matter and pedagogical/methodological expertise. The intent of the CP11 ToR is to provide all necessary information on WOA training on One Health and to help WOA develop a consistent and qualitative training program on One Health, to support Members in inclusion of this complex topic in their Veterinary Services training programmes.</p>
		<p>The veterinarian course covers why and how to participate in state CWD surveillance identification programs and covers the</p>

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Training, capacity building (true)	Farmed Cervid Chronic Wasting Disease courses for veterinarians and producers	veterinarian's responsibilities including sample collection and submission. The producer course covers why and how to participate in CWD surveillance identification programs.
Training, capacity building (true)	IFADefense Courses on Biosecurity and Epidemiology	The Biosecurity Course provides guidance for veterinarians to help clients develop and implement good biosecurity practices. The Epidemiology course provides information on how to prepare for and conduct an epidemiological investigation. Both course were developed in partnership with the Iowa Department of Agriculture and Land Stewardship.

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
Continue to support WOAHA in development of its Global Platform for the Training of Veterinary Services	Provide subject matter, pedagogical, and methodological expertise to assist in further development of training guidelines, terms of reference and other high-quality training materials for online training portal	Training and Education

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

No

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

Yes

Name of WOAHA CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Center for Animal Health and Food Safety, University of Minnesota	St. Paul, MN USA	América	Collaborate on WOAHA Training Platform

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Center National de Veille Zoo Sanitaire de Tunis	Tunisia	África	Collaborate on WOAHA Training Platform
Chiang Mai University Veterinary Public Health Center	Thailand	Asia y el Pacífico	Collaborate on WOAHA Training Platform
WOAH Central Bureau	Paris, France	Europa	Collaborate on WOAHA Training Platform
FAO Virtual Learning Centers	Rome, Italy	Europa	Collaborate to synergize WOAHA Training Platform projects and FAO Virtual Learning Center projects

TOR 4 AND 5: NETWORKING AND COLLABORATION

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

Yes

Name of WOAHA CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Biological Threat Reduction	College Station, TX USA	Americas	Emergency Management Training
Faculty of Veterinary Medicine at Jordan University of Science and Technology School of Veterinary Science at Massey University Unidade Militar Laboratorial de Defesa Biológica e Química (Exercito Portugues)	Jordan, New Zealand	Africa Asia and Pacific	WOAHA Competency Package 6
Center for Global Health Science and			

Security, Georgetown University; Unlimit Health, UK; University of California, Irvine; Johns Hopkins Bloomberg School of Public Health Center for Health Security	U.S., U.K.	Americas Europe	WOAH Competency Package 11
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TOR 6: EXPERT CONSULTANTS

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

Yes

Name of expert	Kind of consultancy	Subject
Molly Lee	Subject Matter Expert (Scientific) Methodological/Pedagogical Expert	Online training guidelines
Cheryl Eia	Chair, WOA?H ad hoc Group Subject Matter Expert (Scientific)	Veterinary Emergency Standards

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

Day 1 Training Platform: Ethiopia: Used by 14 universities and incorporated into national curriculum. SE Asia: Platform was used in Cambodia, Indonesia, Laos, Malaysia, Philippines, Thailand, and Vietnam. Seventy faculty from 45 veterinary education establishments were trained on the curriculum assessment tool and how to implement it in their universities.

Cleaning and Disinfection Courses: Advanced course: 298 US users and 354 total users. Australia, Brazil, Canada, China, Colombia, Dominican Republic, Egypt, Ethiopia, Finland, France, India, Italy, Kenya, Morocco, Nigeria, Pakistan, Taiwan, Uruguay, Vietnam. Basic course: 314 total users, 260 US users. Canada, Colombia, Dominican Republic, Egypt, United Kingdom, Mexico, Philippines, Portugal, Romania, Saudi Arabia, Thailand, Uruguay, Vietnam, South Africa

Transboundary and Emerging Diseases of Animals

During calendar year 2024, 5,257 veterinary students used the course along with 710 graduate veterinarians for a total of 5,967 individuals.

Biosecurity Courses

Biosecurity Your Way: From July 2023 to December 2024, 2336 (English) and 771 (Spanish) unique users visited the English and Spanish websites. For both websites, the most visited topics were the biosecurity planning tool, the biosecurity short course, and the Design a Farm interaction. Users can create a biosecurity plan and save their plan to their computer. All plans are deleted from the server after 30 days. Number of plans completed are not tracked.

Biosecurity in Livestock and Poultry Production: Advanced Course: 170 US users, 256 total users. Australia, Bangladesh, Brunei Darussalam, Brazil, Canada, China, Colombia, Cyprus, Egypt, Spain, Ethiopia, Great Britain, Hong Kong, Honduras, Indonesia, Iraq, Jamaica, Kenya, Kazakhstan, Morocco, Macedonia, Nigeria, Pakistan, Saudi Arabia, Singapore, El Salvador, Turkey, Ukraine, Vietnam, South Africa, Zimbabwe. Basic Course: 260 users, 162 US users: Argentina, Bangladesh, Brunei Darussalam, Brazil, Canada, China, Colombia, Cyprus, Dominican Republic, Egypt, Spain, Ethiopia, Grenada, Honduras, Indonesia, Israel, Kazakhstan, Morocco, Mexico, Nigeria, Pakistan, Romania, Saudi Arabia, Singapore, Swaziland, Turkey, Uruguay, Vietnam.

Organic and Alternative Agriculture: 246 total users, 190 US users. United Arab Emirates, Austria, Australia, Brazil, Canada, China, Colombia, Dominican Republic, Ethiopia, France, Grenada, Honduras, Indonesia, India, Kenya, Mexico, Nigeria, Pakistan, South Africa.

Youth in Ag courses: 976 users took the middle/high school course (plus 34 Spanish users), 267 users took the elementary course (including 8 Spanish users). International users of Youth-in-Ag materials were from the following countries: Australia, Canada, El Salvador, Great Britain, India, and Turkey.

Chronic Wasting Disease Courses: International users from Brazil, Canada, China, Colombia, Cyprus, Dominican Republic, Egypt, Ethiopia, Finland, Iraq, Nigeria, Pakistan, Serbia, Sudan, Turkey, Ukraine, South Africa.

Animal Disease Emergencies: 21 users from the U.S.

Website:

Technical Fact Sheets: 148 English fact sheets, downloaded 541,136 times in 2024; 138 Spanish fact sheets, downloaded 539,479 times in 2024; 44 Portuguese fact sheets, downloaded 103,586 times in 2024; and 11 French fact sheets, downloaded 8088 times in 2024.

One Page Fact Sheets for the Public: 89 English, downloaded 213,054 times in 2024; 67 Spanish, downloaded 144,496 times in 2024.

Annotated Images of Animal Diseases: 410 annotated images, 44,232 views (English) and 17,157 views (Spanish) in 2024.

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 : 0

b) Seminars : 1583

c) Hands-on training courses: 0

d) Internships (>1 month) : 0

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
B	Day 1 Platform	Ethiopia, Cambodia, Indonesia, Laos, Malaysia, Philippines, Thailand, and Vietnam.	70
B	Cleaning & Disinfection in Animal Settings Basic Course	Belgium (1); Brazil (3); Canada (4); Colombia (35); Dominican Republic (2); Egypt (1); Finland (1); France (6); India (2); Mexico (2); Nigeria (1); Palestine (1);	157

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		Philippines (2); Romania (1); Saudi Arabia (1); Taiwan (1); US (92); Venezuela (1)	
B	Cleaning & Disinfection in Animal Settings Advanced Course	Australia (1); Bangladesh (1); Belgium (2); Brazil (2); Canada (5); Colombia (42); Dominican Republic (1); France (2); Greece (1); Hong Kong (1); Iceland (1); India (2); Mexico (3); Nigeria (2); Pakistan (1); Palestine (1); Philippines (2); Romania (1); Saudi Arabia (1); United Arab Emirates (1); United Kingdom (1); U.S. (93); Vietnam (1); Zimbabwe (1)	169
B	Biosecurity in Livestock and Poultry Production: Basic Course	Belgium (1); Brazil (1); Canada (5); Colombia (69); Ethiopia (1); Hong Kong (1); India (5); Italy (1); Jamaica (1); Kenya (1); Morocco (1); Mexico (3); Nigeria (2); Pakistan (2); Peru (1); Philippines (2); Romania (3); Russian Federation (1); Saudi Arabia (1); Somalia (1); South Africa (1); Spain (1); Tunisia (1); Turkey (1); U.S. (291); Uruguay (1); Vietnam(1);	400
B	Biosecurity in Livestock and Poultry Production: Advanced Course	Australia (1); Bangladesh (1); Belgium (2); Brazil (2); Canada (6); Colombia (59); Cote d'Ivoire (1); Dominican Republic (1); Egypt (1); Ethiopia (1); Ghana (1); Hong Kong (1); India (3); Italy (1); Madagascar (1); Mexico (1); Morocco (1); Nepal (1); Nicaragua (1); Nigeria (2); Pakistan (8); Philippines (3); Puerto Rico (1) Romania (2); Saudi Arabia (2); Slovakia (1); South Africa (1); Spain (1); United Kingdom (1); U.S. (111); Uruguay (1); Vietnam(1); Zimbabwe (1)	222
B	Farmed Cervid Chronic Wasting Disease Courses for Producers and Veterinarians	Bangladesh (1); Belgium (1); Brazil (1); Canada (1); Colombia (5); France (2); Ghana (1); Greece (1); India (1); Mexico (1); Pakistan (3); Saudia Arabia (1); US (56)	75
		Algeria (1); Bangladesh (1); Brazil (3); Canada (4); Colombia (54); Dominican Republic (1); France (3); Honduras (1); India (3); Kenya (1);	

B	Organic and alternative animal health for animal health professionals	Mexico (1); New Zealand (1); Nigeria (4); Pakistan (3); Philippines (3); Saudi Arabia (1); Senegal (1); South Sudan (1); Spain (1); Sudan (1); Ukraine (3); United Arab Emirates (1); U.S. (71); Zimbabwe (1)	165
B	Transboundary & Emerging Diseases of Animals Course for Continuing Education	Belgium (1); Brazil (1); Canada (2); Chile (1); Colombia (1); Dominican Republic (1); Greece (1); Hong Kong (1); Japan (1); Mexico (2); Minor Outlying Islands (1); Peru (1); Philippines (1); Puerto Rico (1); Senegal (1); Thailand (1); U.S. (260)	278
B	Iowa FA Defence (IFAD) Biosecurity and Epidemiology Training	Brazil (2); Canada (1); Colombia (2); Ethiopia (1); Maldives (1); Mexico (1); Palestine (1); Philippines (2); South Sudan (1); Turkey (1); Zimbabwe (1); Ukraine (1); United Arab Emirates (1); United States (31)	47

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?

No

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 WOA?H

a) Articles published in peer-reviewed journals:

2

Roth, J.A., Galyon, J. Food security: The ultimate one-health challenge. One Health, special issue from the International Symposium on One Health Research: Improving Food Security and Resilience. Volume 19, December 2024, 100864.

<https://doi.org/10.1016/j.onehlt.2024.100864>

Hidano, A., Sewell A., McIntyre L., Hartnett M., Lee, M., Chea, B., and Parkinson T. Enhancing Veterinary Education in Cambodia: Evaluation of Web-Based Resources in Teaching Herd Health and Epidemiology. Journal of Veterinary Medical Education. 2024-Web
<https://doi.org/10.3138/jvme-2024-0048>

b) International conferences:

0

c) National conferences:

10

Hennenfent, A., Hoffman, S., Lee, J., Lee, M., Rumsey, K. and Weber, T. Careers for Veterinarians in Public Health Panel (academic presenter). Iowa Veterinary Medical Association Winter Conference. Altoona, IA; February 15, 2024.

Bjork, J. A Toolkit for Implementing an AMS Program in Iowa's Small Animal Practices. Iowa Antimicrobial Stewardship Summit; March 28, 2024; Ames, IA.

Roth, J.A. International Symposium on One Health Research: Improving Food Security and Resilience. Keynote Address: "Food Security: the Ultimate One Health Challenge". Galveston, TX. April 21, 2024.

Hennenfent, A., Hoffman, S., Lee, J., Lee, M., Rumsey, K. and Weber, T. Careers for Veterinarians in Public Health Panel (academic presenter). Iowa Veterinary Medical Association Winter Conference. Altoona, IA; February 15, 2024.

Bjork, J. Antimicrobial Stewardship Education for Companion Animal Practices in Iowa. American Association of Extension Veterinarians – Annual Applied Animal and Public Health Research and Extension Symposium; October 13, 2024; Nashville, TN.

Webinars:

Dvorak, G.D. USDA National Training and Exercise Program. Disinfection 101: Remembering the Basics and Resources to Help. March 18, 2024

Roth, J.A. California Department of Food and Agriculture, Cattle Health Advisory Task Force. FMD Movement Plan for Continuity of Business. March 21, 2024

Roth, J.A. APHIS National Training and Exercise Program. Framework on Interstate Movement Decisions During a Foot and Mouth Disease Outbreak in the United States. March 25, 2024.

Roth, J.A. STAR-IDAZ IRC Workshop: Shaping the Future of Livestock Tick Vaccines. World Organization for Animal Health Minimum Requirements for Vaccines. Sao Paulo, Brazil. June 17, 2024.

Bjork, J. Iowa Department of Health and Human Services and Iowa Department of Agriculture and Land Stewardship joint webinar. To Prescribe or Not to Prescribe: Implementing Antimicrobial Stewardship (AMS) in your Veterinary Practice. June 19, 2024.

Quaresma, D. Biosecurity Guidance for Dairy Operations July 25, 2024. 1-29 Moo University. <https://i-29moou.com/>

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

17

Lee, M. PFAS and Animal Health. Iowa Veterinary Medical Association Update; February 2024.

Dvorak, G. Iowa Veterinary Medical Association Monthly Newsletter. Spring is Here! Be Weather Aware! Be All-Hazards Prepared! May 1, 2024

Bjork, J. How to Prescribe with One Health in Mind. IVMA Update. June 1, 2024.

Bjork, J. Some Vectorborne Disease Buzzzz. IVMA Update. September 1, 2024.

Dvorak, G.D. Acreage Living Newsletter. Iowa State University Extension and Outreach, Farm, Food and Enterprise Development. Farm Biosecurity: Keeping your animals healthy and your business productive. September 13, 2024.

Quaresma, D. Raw Milk: Understanding the Risks and Navigating Communication. IVMA Update. November 1, 2024.

Quaresma, D. American Association of Small Ruminant Practitioners. Raw Milk Guidance Document. 2024.
<https://aasrp.org/common/Uploaded%20files/Guidelines/AASRP%20Raw%20Milk%20Guidance.pdf>

www.cfsph.iastate.edu
www.cfsph.iastate.edu/diseaseinfo/
<https://day1.cfsph.iastate.edu>
www.cfsph.iastate.edu/courses/
www.cfsph.iastate.edu/product/biosecurity-livestock-poultry/
www.cfsph.iastate.edu/product/cleaning-disinfection-animal-settings-course/
www.cfsph.iastate.edu/product/organic-alternative-animal-health/
www.cfsph.iastate.edu/veda-course/
<https://farmbiosecurity.cfsph.iastate.edu>
www.cfsph.iastate.edu/blue-not-flu

11. What have you done in the past year to advance your area of focus, e.g. updated technology?
CFSPH continued efforts to move software that was running on old on-site web server technology to current technologies in the Azure cloud computing platform. In addition, CFSPH revised online content to meet new accessibility guidelines.

12. Additional comments regarding your report: