

WOAH Collaborative Centre Reports Activities 2025

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CENTRE INFORMATION

*Title of WOA Collaborating Centre	Veterinary Services Capacity Building (Asia, the Far East and Oceania)
*Address of WOA Collaborating Centre	Veterinary Public Health and Food Safety Centre for Asia Pacific
*Tel:	+66-53 94.80.73
*E-mail address:	vphcap@cmu.ac.th
Website:	https://vphcap.vet.cmu.ac.th
*Name Director of Institute (Responsible Official):	Dean, Faculty of Veterinary Medicine, Chiang Mai University, Muang, Chiang Mai 50100 THAILAND Director-General, Department of Livestock Development, Thailand 69/1 Phayathai Road, Ratchathewi, Bangkok 10400 THAILAND
*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Asst.Prof.Dr.Duangporn Pichpol, Director of Veterinary Public Health and Food Safety Centre for Asia Pacific, Chiang Mai, Thailand , Dr. Wanida Chaengprachak, Director of Division of International Livestock Cooperation, Department of Livestock Development, Bangkok
*Name of the writer:	Ms.Rungphet Keawchumnan and Ms.Thanaporn Kunkong

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
Training, capacity building (true)	The workshop "Strategic Brainstorming Initiative for VPHCAP: Enhancing Nation and Global Collaboration"	This workshop enabled participants to collaboratively develop strategic plans aligned with the operational context of the Veterinary Public Health and Food Safety Centre (VPHCAP) and its academic and professional networks. The activity emphasized both short-term and long-term strategic planning, fostering sustainable collaboration networks, and strengthening capacity in public health and animal health service systems at national and international levels.
Food security (true)	Master of Science in Veterinary Public Health (MVPH)	The programme aims to produce graduates from various countries with comprehensive competencies in Veterinary Public Health, while fostering international networks of expertise in areas such as zoonotic disease prevention and control and food hygiene. The programme places strong emphasis on quality control and safety of food of animal origin along the entire food production chain, including environmental hygiene at the regional level. The curriculum adopts a student-centred approach and focuses on universal knowledge applicable to addressing public health challenges in participants' home countries and the region. It also emphasizes research on locally relevant problems, supervised by professors and experts from Thailand and collaborating countries. Through this process, students are trained in systematic and evidence-based approaches using Veterinary Public Health principles, contributing to the development of new knowledge and strengthening regional capacity in food safety and public health.
		Antimicrobial resistance (AMR) poses a significant global threat to both human and animal health. WOA recognizes the critical role of veterinarians in combating AMR through responsible antimicrobial use and infection prevention and control. Under the EU-funded project "Working Together to Fight Against

<p>Training, capacity building (true)</p>	<p>Development and Contextualisation of WOA e-Learning Modules: Antimicrobial Resistance for Asia and the Pacific</p>	<p>AMR," WOA integrates e-learning approaches into veterinary education. In this context, VPHCAP is supporting the adaptation and contextualisation of WOA's AMR e-learning materials by incorporating local and regional case studies to enhance relevance and engagement for veterinary professionals and students in Asia and the Pacific. Key outputs include: • A situation analysis report based on WOA survey results • A detailed work plan for the development of contextualised sub-modules • Complementary sub-modules to support WOA's three existing AMR e-learning modules</p>
<p>Food security (true)</p>	<p>Doctor of Philosophy Program in Veterinary Science (International Program)</p>	<p>The programme aims to develop high-level researchers and academic leaders with advanced expertise in veterinary science, with emphasis on veterinary public health, food safety, zoonotic diseases, and One Health approaches. The programme focuses on generating new knowledge through original and independent research addressing complex animal and public health challenges at national, regional, and global levels. The curriculum emphasizes interdisciplinary and international collaboration, with supervision provided by experts from Thailand and partner institutions abroad. Graduates are expected to contribute to evidence-based policy development, international standards, and capacity building, as well as to strengthen global networks in veterinary science in line with the mandate of WOA.</p>
<p>Training, capacity building (true)</p>	<p>WOAH Side Event on Innovative Learning for Responsible Antimicrobial Use, Yogyakarta</p>	<p>WOAH side event "Alternative Educational Tools to Enhance Learning on Responsible Antimicrobial Use in the Asia-Pacific Region" in Yogyakarta, Indonesia. The workshop was hosted at the University Club (UC) Hotel, Universitas Gadjah Mada. Key takeaways included: The value of modular, reusable learning objects that programs can adapt to local contexts. - The importance of simple analytics (e.g., completion and quiz data) to refine content iteratively. - Opportunities to align training with regional AMR priorities through shared resources and co-development. - VPHCAP appreciates WOA and partners for convening this collaborative platform and looks forward to continued contributions to effective AMU education in the region.</p>
<p>Training, capacity building (true)</p>	<p>The Workshop of the WOA Platform for the Training of Veterinary Services</p>	<p>The Workshop of the WOA Platform for the Training of Veterinary Services, held at WOA Headquarters in Paris, France, brought together WOA Collaborating Centres from different regions to exchange experiences and contribute to the development of the WOA competency-based training system. The workshop focused on veterinary competencies, innovative learning technologies, digital platforms, and future directions for global capacity building.</p>
<p>Training, capacity building (true)</p>	<p>The workshop "Awareness raising on antimicrobial usage at the farm level"</p>	<p>The workshop "Awareness Raising on Antimicrobial Usage at the Farm Level" aimed to raise awareness among veterinary students, as future veterinary professionals, on the importance of antimicrobial resistance (AMR) and responsible antimicrobial use (AMU). Participants were exposed to real-life practices related to antimicrobial usage in farm settings, including understanding decision-making processes for antimicrobial prescription at the farm level, observing biosecurity measures in livestock production systems, and engaging with veterinary professionals to discuss challenges in antimicrobial stewardship. The workshop also reinforced responsible AMU practices aligned with national and international guidelines, including WOA standards.</p>
<p>Training, capacity building (true)</p>	<p>the 34th WOA Regional Conference for Asia and the Pacific</p>	<p>Panel Discussion Overview Strengthening Scientific Excellence of the Asia-Pacific Region through the WOA Reference Centres Network: Overview and Examples of Reference Laboratory (RL) and Collaborating Centre (CC) Activities</p>
<p>Training, capacity building (true)</p>	<p>WOAH Side Event on Innovative Learning for Responsible Antimicrobial Use, Yogyakarta</p>	<p>The side event "Alternative Educational Tools to Enhance Learning on Responsible Antimicrobial Use in the Asia-Pacific Region" presented key findings from a recent regional needs survey on AMR/AMU education. The session highlighted how these findings informed updates to VPHCAP's AMR/AMU e-learning submodules, incorporating region-specific content and interactive approaches to strengthen responsible antimicrobial use across the Asia-Pacific region.</p>

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Training, capacity building (true)	The Regional Private Sector Engagement Workshop	Speaker in the session titled "Interactive Session on E-learning Platforms," sharing insights on the role of digital learning in strengthening veterinary services, enhancing workforce development, and fostering sustainable capacity building across the region.
Training, capacity building (true)	The workshop "Study visit in Thailand for Health Professional from Lao PDR "Empowering a Collaborative AMR Response through Communities of Practice"	This workshop aimed to support the development of public health professionals by strengthening their capacity to address antimicrobial resistance (AMR) in both Thailand and the Lao People's Democratic Republic. The activity focused on experience sharing, knowledge exchange, and the establishment of collaborative networks to enable effective responses to AMR challenges and emerging infectious threats that pose risks to animal and human health. In addition, the initiative contributed to strengthening surveillance and response capacities at regional and global levels.
Training, capacity building (true)	The Training Workshop - How to conduct Simulation Exercise (Sim-Ex)	The Training Workshop on "How to Conduct Simulation Exercise (Sim-Ex)", organised by WOAHP and held in Manila, Philippines, from 10–12 December 2025, aimed to strengthen the capacity of Veterinary Services in emergency preparedness and response to transboundary animal diseases. The workshop focused on building participants' competencies in recognising the need for, designing, and conducting simulation exercises, including cross-border scenarios, in line with WOAHP guidelines and international standards. This activity formed Phase I of the Emergency Management and Disaster Response Training Programme, with follow-up regional cross-border simulation exercises planned to enhance coordination, communication, and information sharing among Members and stakeholders in the Asia-Pacific region

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

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
Ecole interne de VetAgro Sup, Ecole nationale des Services vétérinaires	Marcy-L'Etoile, FRANCE (ENSV-FVI)	Europa	Development of E-learning Modules on Leadership in Veterinary Services
Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale"	Teramo, ITALY	Europa	Development of E-learning Modules on Leadership in Veterinary Services
Centre National de Veille Zoosanitaire (CNVZ)	Tunis, TUNISIE	África	Development of E-learning Modules on Leadership in Veterinary Services
			Review Team for the Terms of

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Center of Animal Health and Food Safety (CAHFS)	Minnesota, USA	América	Reference (ToRs) of WOAHP Competency Package n°10 on Partnership.
WOAH Collaborating Centre / WOAHP Japan	Japan	Asia y el Pacífico	Joint development and collaboration on e-learning modules related to veterinary public health and leadership, supporting capacity building and harmonisation of training approaches within the Asia and Pacific region.
WOAH Sub-Regional Representation for South-East Asia	Bangkok, Thailand	Asia y el Pacífico	Coordination of workshops, training activities for veterinary students, and internship programmes aimed at strengthening practical skills, leadership capacity, and regional collaboration in veterinary services.
National Institute of Animal Health (NIAH)	Bangkok, Thailand	Asia y el Pacífico	Workshop on Leadership in Veterinary Service and proposal develop in Veterinary service
National Animal Health Laboratory (NAHL)	Laos PDR	Asia y el Pacífico	Workshop on Leadership in Veterinary Service
Division of Animal Feed and Veterinary Product Control (AFVC) for AMU	Bangkok, Thailand	Asia y el Pacífico	Workshop on Leadership in Veterinary Service
Faculty of Veterinary Medicine, Kasetsart university	Bangkok, Thailand		One health Workshop and Postgraduate program and research

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?

Yes

Name of WOAHP CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
FAO Reference Centre for Antimicrobial Resistance (laboratory)	Thailand	Asia and Pacific	Workshop
National Center for Laboratory and Epidemiology (NCLE)	Laos PRD	Asia and Pacific	Workshop
International Livestock Research Institute (ILRI)	Vietnam	Asia and Pacific	International Conference, Participation speaker and Chairman of Poster session

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Faculty of Medicine, Chiang Mai University	Thailand	Asia and Pacific	Workshop
Faculty of Pharmacy, Chiang Mai University	Thailand	Asia and Pacific	Workshop
National Institute of Health (NIH)	Thailand	Asia and Pacific	Workshop on Leadership in Veterinary Service and proposal develop in Veterinary service
Southeast Asia One Health University Network (SEAOHUN)	Thailand	Asia and Pacific	University network for proposal development on One Health activities
Department of Communicable Diseases Control (DCDC)	Laos PDR	Asia and Pacific	Workshop
Participatory Onehealth Disease Detection Centre (PODD Centre)	Thailand	Asia and Pacific	Veterinary Service activities in local authorities

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
Assoc.Prof.Dr.Veerarak Punyapornwithaya	Expert (invited speaker)	Technical Item II: Building a joint TADs prevention and control system in the Asia-Pacific to strengthen regional preparedness and resilience (Lumpy Skin Disease)

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

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

No

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 : 0

c) Hands-on training courses: 1

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
C	Workshop on "Study visit in Thailand for Health Professional from Lao PDR "Empowering a Collaborative AMR Response through Communities of Practice"	Lao PDR, Thailand	6

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?

Yes

National/International	Title of event	Co-organiser	Date	Location	No. Participants
Internationally	APEC Foresight Workshop: Resilient Futures for Emerging Infectious Diseases	APEC Center for Technology Foresight: APEC	2025-09-10	Grand Centre Point Lumpini Hotel, Bangkok, Thailand	100
Internationally	The Global Youth Summit: Empowering One Health Innovation	Nanjing Agricultural University	2025-11-30	Nanjing Agricultural University, People's Republic of China	250
Internationally	International Conference on Chemical and Microbiological Risk Assessment for Food Safety	National Institute for Food Control (NIFC) and International Livestock Research Institute (ILRI)	2025-12-18	National Institute for Food Control, Hanoi, Vietnam	200

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:

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- Sohrab Khan, Darawan Addoddon, Jutamas Prapapanpong, Minta Suwannaboon, Orapun Arjkumpa, Kannika Na-Lampang, Warangkhan Chaisowwong, Supitchaya Srisawang & Veerasak Punyapornwithaya, Path analysis of farmer knowledge, attitudes, and practices toward lumpy skin disease in beef cattle. *Animal Diseases* 5, 3 (2025). <https://doi.org/10.1186/s44149-025-00155-0>.
- Pakorn Lonlab, Suparinthon Anupong, Chalita Jainonthee & Sudarat Chadsuthi, Seasonal and Meteorological Drivers of Hand, Foot, and Mouth Disease Outbreaks Using Data-Driven Machine Learning Models, *Poultry Science, Med. Infect. Dis.* 2025, 10(2), 48; <https://doi.org/10.3390/tropicalmed10020048>.
- Kusnul Yuli Maulana, Kannika Na-Lampang, Orapun Arjkumpa, Noppawan Buamithup, Kannikar Intawong & Veerasak Punyapornwithaya, Geographical Distribution, Spatial Directional Trends, and Spatio-Temporal Clusters of the First Rapid and Widespread Lumpy Skin Disease Outbreaks in Thailand, *Transboundary and Emerging Diseases*, Volume 2025, Issue 1 4900775, <https://doi.org/10.1155/tbed/4900775>.
- Chalita Jainonthee, Panneepa Sivapirunthep, Pranee Pirompud, Veerasak Punyapornwithaya, Supitchaya Srisawang & Chanporn Chaosap, Modeling and Forecasting Dead-on-Arrival in Broilers Using Time Series Methods: A Case Study from Thailand, *Animals* 2025, 15(8), 1179; <https://doi.org/10.3390/ani15081179>.
- Peerawit Chongrattanameteekul, Natpasit Rattanaworapanit, Kanruethai Wongsawan, Phongsakorn Chuammitri, Thosaporn Anuntakulnatee, Suriwan Veerathong & Raktham Mektrirat, Antimicrobial resistance and etiological dynamics affected by tropical climate variability on year-round diagnosis of upper respiratory infections in companion rabbits with snuffles. *Sci Rep* 15, 13994 (2025). <https://doi.org/10.1038/s41598-025-97690-0>.
- Peiyang Zhu, Guojun Wang, Veerasak Punyapornwithaya, Chalita Jainonthee, Jijing Tian, Yan Liu, Fanan Suksawat, Sunpetch Angkitittrakul, Yuchen Nan, Zaili Li, Xinhui Duan & Wengui Li. Pathological Characteristics of Pregnant Tree Shrews Infected by Zoonotic Hepatitis E Virus Genotype and the Effect of Estrogen on Virus Replication. *Vet. Sci.* 2025, 12(5), 483; <https://doi.org/10.3390/vetsci12050483>.
- Panneepa Sivapirunthep, Pranee Pirompud, Veerasak Punyapornwithaya, Supitchaya Srisawang, Chalita Jainonthee & Chanporn Chaosap, Impact of transitioning from antibiotic use to antibiotic-free practices on broiler dead-on-arrival rates: A bayesian structural time series approach. *Poultry Science*, Volume 104, Issue 8, August 2025, 105312, <https://doi.org/10.1016/j.psj.2025.105312>.
- Chalutwan Sansamur, Kanpapat Boonchuay, Ruttayaporn Ngasaman, Kenny Oriel Aranas Olana & Veerasak Punyapornwithaya, Epidemiology and factors associated with the infection of *Babesia bigemina*, *Babesia bovis*, and *Theileria orientalis* in Thale Noi Wetland buffaloes (*Bubalus bubalis*), Southern Thailand. *BMC Vet Res* 21, 397 (2025). <https://doi.org/10.1186/s12917-025-04846-1>
- Chalita Jainonthee, Phutsadee Sanwisate, Panneepa Sivapirunthep, Chanporn Chaosap, Duangporn Pichpol, Raktham Mektrirat, Sudarat Chadsuthi & Veerasak Punyapornwithaya Predicting and explaining high dead-on-arrival outcomes in meat-type ducks using deep learning: A path to improved welfare management. *Poultry Science*, Volume 104, Issue 9, September 2025, 105439. <https://doi.org/10.1016/j.psj.2025.105439>.
- Ganesh K.C., Kedar Raj Pande, Veerasak Punyapornwithaya & Duangporn Pichpol, Antimicrobial resistance and risk factors of non-typhoidal *Salmonella* isolated from chicken farms of Kaski district, Gandaki province, *NepalVet Parasitol.* 2024 Apr;327:110150. doi: 10.1016/j.vetpar.2024.110150. Epub 2024 Feb 22. PMID: 38422711.
- Chalita Jainonthee, Phutsadee Sanwisate, Panneepa Sivapirunthep, Chanporn Chaosap, Raktham Mektrirat, Sudarat Chadsuthi, Veerasak Punyapornwithaya, Data-driven insights into pre-slaughter mortality: Machine learning for predicting high dead on arrival in meat-type ducks, *Poultry Science*, Volume , Issue 1, 2025, 104648, ISSN 0032-5791, <https://doi.org/10.1016/j.psj.2024.104648>.

b) International conferences:

c) National conferences:

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

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<https://vphcap.vet.cmu.ac.th/index.php>

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

12. Additional comments regarding your report: