

WOAH Collaborative Centre Reports Activities 2025

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CENTRE INFORMATION

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*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Ms. Asma Abdi Mohamed Shah (Director of Biosecurity Affairs Division, ADAFSA and Head of Collaborating Centre)
*Name of the writer:	Dr. Shameem Habeeba

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)	1. Pathogens were isolated/identified from camels and other livestock and characterized. Standard Operating Procedures were prepared for the activated diagnostic tests 2. Proficiency Testing and ring trials cycles were organized by WOA Collaborating centre for Quality Management Systems at ADAFSA (ADAFSA-CC-QMS) 3. Upgraded Primers & Probes bank	1. Several bacteria, fungi and viruses were isolated and characterized including Trichophyton spp (T.verrucosum, T. mentagrophytes and T. gypseum) for the purpose of activation and validation of diagnostic tests, increasing the scope of analysis, research and publication and vaccine development. Lab also activated Real Time PCR tests to detect the nucleic acid for bovine leukaemia virus (BLV) 2. ADAFSA-CC QMS participated in annual proficiency testing (PT) schemes, including the PPR ring trial organized by CIRAD, Campylobacter species Isolation & Identification, Salmonella in poultry and farm animals and various PT schemes from accredited providers such as VETQAS, RCPA, RIQAS, and EQAS Bio-Rad. 3. Updated the primer bank by adding primers for 6 new diseases namely: Bovine Leukaemia Virus (BLV), Epizootic haemorrhagic disease virus (EHDV), Alkhurma hemorrhagic fever virus (AHFV), pseudocowpoxvirus which include : Orf virus specific assay (ORFV J6R), Pseudocowpox virus specific assay (PCPV J6R) and Para poxvirus generic assay (PAPV J6R) in addition to specialized lineage specific Foot and mouth disease primers.
Epidemiology, surveillance, risk assessment, (true)	ADAFSA initiated and established an integrated biosecurity risk management procedure to enhance the risk-based decision and to initiate an integrated biosecurity risk assessment register	• To enhance biosecurity and mitigation for risk based decision making
	1. ADAFSA has an ongoing initiative to strengthen the technical capacity of private veterinary laboratories in the	1. The primary objective is to get in-depth guidance on the ISO/IEC 17025 accreditation process, evaluate the laboratory's current practices, and recommend improvements to align with international quality standards 2. ADAFSA-CC-QMS with FAO/IAEA Centre of Nuclear Techniques in Food and Agriculture, Department of Nuclear Sciences and Applications conducted a onsite workshop at Abu Dhabi with participation of

<p>Training, capacity building (true)</p>	<p>Emirate of Abu Dhabi by conducting capacity building programs to the staff of laboratories across UAE 2. Joint Workshop (ADAFSA-FAO/IAEA) for CAMENET member countries entitled "Validation of Diagnostic Methods in Veterinary Laboratories Fulfilling Requirements of ISO/IEC 17025:2017" (covering Trypanosomiasis and Peste Des Petits Ruminants virus) on December 8th-11th, 2025. 3. Hands On Training Program in Molecular Biology for staff of private veterinary diagnostic laboratories in Abu Dhabi Emirate, UAE, entitled: "A practical training in animal diseases diagnosis using molecular biology techniques (Real time PCR & End point PCR) with a focus on quality control and quality assurance" on 09-10 July 2025 4. Specialized hands-on training for Sharjah Municipality staff on "different techniques for extraction of DNA from different types of samples. Whole Genome Sequencing. Commonly used PCR techniques for disease diagnosis in farm animals" from 10-14 November 2025". 5. Hands On Training Program for staff in private veterinary diagnostic laboratories in Abu Dhabi Emirate, UAE "Microscopy for Blood Parasite Detection: Practical Training with focus on Quality Assurance Programs"" on 29-07-2025 6. Joint Hands-on Training Workshop (ADAFSA-FAO) on FMD diagnostic Tests for Laboratory Staff (national laboratories), 23-24 June, 2025 7. Joint Hands-on Training Workshop (ADAFSA-FAO) on PPR diagnostic Tests for Laboratory Staff (national laboratories), 25 June, 2025 8. Training on different Serological tests for Detection of Diseases in Livestock by fulfilling requirements of ISO/IEC 17025 for staff private laboratories in Abu Dhabi Emirate, UAE, 29 October, 2025. 9. Practical Training Workshop for Frontline Veterinary Staff on FMD Recognition, Outbreak Investigation and Reporting (GCP/GLO/074/USA-Option 2- SOW 3.9.2) 23-24 June 2025, Abu Dhabi, United Arab Emirates 10. Provided educational training to 25 undergraduate students from different educational institutions namely United Arab Emirates University, Higher College of Technology and University of Sharjah, one overseas student from University of Veterinary Medicine, Budapest and four employees from Sharjah Municipality 11. Hands on training on Veterinary diagnostic tests, quality management and ISO 17025. (30/12/2024 – 15/12/2025) Capacity Building activity in establishing a new Equine and Camel hospital in the Emirate. 12. Aquatic Disease Kit (reference kits for ten fish pathogens namely Shewanella putrefaciens, Aeromonas hydrophila, Monogenea - Capsalids - Benedenia spp - Sea lice (Caligus spp)- Streptococcus agalactiae- Aeromonas sobria, Plesiomonasshigelloides, Chryseobacterium indologene and Lactococcus garvieae activated.</p>	<p>12 attendees from member countries of CAMENET (Bahrain, Qatar, Kuwait, Oman, Saudi Arabia, UAE). This training targeted laboratory professionals including diagnosticians, analysts and quality assurance personnel from veterinary laboratories and covered validation of testing procedures for diagnosis of Trypanosomiasis and Peste Des Petits Ruminants virus in accordance with requirements of ISO/IEC 17025:2017 3. Building the capacity of staff in private laboratories in molecular biology techniques (PCR & Real Time PCR) and quality assurance and quality control. The two-days training covered practical implementation of PCR & Real Time PCR as well as QA/QC, test method validation, implementation of ISO/IEC 17025:2017. 4. To enhance their technical capacity in the molecular biology techniques including real-time PCR, gel-based PCR, sequencing and bioinformatics analysis. 5. Enhancing the quality control procedures for diagnosis of haemoparasitic diseases targeting staff of private laboratories in Abu Dhabi This training covered quality control programs in blood microscopy and test method validation, implementation of ISO/IEC 17025:2017 6. This included quality management aspect in testing FMD. Eight delegates from different laboratories in United Arab Emirates participated. 7. ADAFSA's-CC & Food and Agriculture Organization of the United Nations (FAO) conducted one day Hands On training Program for PPR serology testing which included quality management aspect in testing PPR. Eight delegates from different laboratories in UAE participated. 8. Training on different Serological tests for Detection of Diseases in Livestock by fulfilling requirements of ISO/IEC 1702 . This training was specifically designed for private laboratory staff with 14 participants. 9. Hands on training on FMD: Clinical recognition, postmortem findings and differential diagnosis to enhance knowledge, diagnostic skills of epidemic and emerging and transboundary diseases in animals for risk analysis and risk control to ensure biosecurity system attended by 25 participants. 10. Hands-on Training on diagnostic techniques for animal diseases, laboratories safety requirement and quality management system implementation and To share knowledge, technical experience, and consultancy to promote veterinary education. 11. ADAFSA's WOH collaborating centre for Quality Management System conducted an intensive training across various veterinary specialties on diagnostic tests, method validation, quality management and ISO 17025 to the technical staff(4) of Abu Dhabi Equine and Camel Hospital. This training benefitted the employees in expanding their expertise and technical capacities in the field of diagnostics and quality management in equine and camel health thereby serving the mandate of building regional capacity building. 12. As part of knowledge sharing, providing reference materials on the aquatic disease diagnosis and teaching, ADAFSA-CC-QMS prepared reference kits for fish pathogens. The kit enhances diagnostic experience in diagnosis of aquatic diseases to veterinary colleges students and veterinary practitioners</p>
<p>Zoonoses (true)</p>	<p>1. Hands on Training workshop on sample collection for Avian Influenza in susceptible mammals in the framework of National Surveillance for Avian influenza on 11 – 12 February 2025 Abu Dhabi 2.Hands on Training workshop on environmental sample collection for Avian Influenza in the framework of National Surveillance for Avian influenza in 24 April 2025 Abu Dhabi 3. Virtual workshop Global and National Overview of Avian Influenza in the 3rd workshop: National Workshop on Avian Influenza Surveillance in Migratory birds and Water birds (virtual- 28 October 2025)</p>	<p>Enhance knowledge, skills regarding diagnosis of epidemic and emerging diseases in mammals for Risk analysis and biosecurity enhancement</p>
<p>Avian diseases (true)</p>	<p>Activation of poultry pathogens panel test</p>	<p>ADAFSA collaborating Centre for Quality Management developed a panel of diagnostic tests for isolation and identification of poultry bacteria pathogens includes Salmonellosis, Pasteurellosis, ORT, E.coli, A.paragallinarium & Mycoplasmosis</p>
	<p>1. Aquaculture laboratory at ADAFSA obtained UKAS accreditation for diagnosis of bacterial fish disease White Spot Syndrome Virus (WSSV) in Shrimp. 2. ADAFSA Aquaculture laboratory activated a panel of diagnostic tests for</p>	<p>1. Validation and accreditation of diagnostic tests in aquatic diseases- Identification of Bacterial Fish Pathogens at Genus and or Species Levels using Vitek2, and qPCR Assay for Detection of White Spot Syndrome Virus (WSSV) in Shrimp according to the</p>

<p>Aquatic animal diseases (true)</p>	<p>Identification of <i>Vibrio</i> Species in Marine Shrimps using vitek2, Isolation and Identification of <i>Flavobacterium psychrophilum</i> for Diagnosis of Bacterial cold water disease of fish, Detection of Tilapia Lake virus RNA using a real-time PCR, and Fish Parasitological Examination. 3. Scientific talk entitled "Importance of Biosecurity for Sustainable Fish Farming" and "A series of advanced laboratory tests for the diagnosis of aquatic diseases" at Aquaculture Activities at Sheikh Zayed Festival for Agricultural Excellence in Al Wathba, in January 2025. 4. Scientific talk entitled "sea lice" at Aquaculture Activities at Sheikh Zayed Festival for Agricultural Excellence in Al Wathba, in January 2025. 5. Scientific talk about "Streptococcal infections in fish" at Aquaculture Activities at Sheikh Zayed Festival for Agricultural Excellence in Al Wathba, in January 2025. 6. Scientific talk entitled "anisakiasis in marine fish" at Aquaculture Activities at Sheikh Zayed Festival for Agricultural Excellence in Al Wathba, in January 2025. 7. Scientific talk entitled "Local Fish Species in the UAE" at Aquaculture Activities at Sheikh Zayed Festival for Agricultural Excellence in Al Wathba, in January 2025. 8. ADAFSA Aquaculture laboratory participated in annual Aquatic Animal proficiency testing (PT) schemes, including PT schemes from accredited providers VETQAS- Bacterial diseases in cold water fish Program, and the aquaculture pathology laboratory's ring trial for shrimp pathogen detection (PCR/RT-PCR).</p>	<p>international standard ISO/IEC 17025:2017 2. Activation and validation of diagnostic methods (culture and molecular methods) for bacteria, viral and parasites of aquaculture. Provide comprehensive knowledge on aquatic diseases diagnosis, method validation and disease surveillance 3. Enhance knowledge and awareness of biosecurity principles essential for importance of Biosecurity for Sustainable Fish Farming to Employees of local authorities in Emirate of Abu Dhabi, aquaculture companies, and the attending audience 4. Understanding of sea lice transmission pathways, diagnostic approaches and their impact on fish health and aquaculture sustainability 5. Enhance awareness of streptococcosis in fish by improving knowledge of disease recognition, pathological manifestations, diagnostic approaches, bacterial isolation and identification, and available treatment and control measures. 6. Improve technical capacity in diagnosing of anisakiasis in marine fish by improving knowledge of parasite recognition, infection pathways, diagnostic procedures, larval isolation and identification, and appropriate prevention and control measures. 7. Enhance knowledge and awareness of the local fish species found in the UAE and to highlight their ecological value to Employees of local authorities in Emirate of Abu Dhabi, aquaculture companies, and the attending audience 8. Participation in PT schemes ensures validating analytical performance, fulfilling ISO 17025 accreditation requirements, and enhancing the quality of testing services.</p>
<p>Diagnosis, biotechnology and laboratory (true)</p>	<p>1. Activation of genome sequencing and genotyping of Wesselsbron virus, Bovine viral Diarrhoea (BVD), Bovine leukaemia virus (BLV), all strains of Foot and Mouth Disease virus. 2. ADAFSA-CC deposited Reference gene/genomic sequences in the NCBI Nucleotide database.</p>	<p>1. Increase the scope of diagnostic tests by advanced genomic tests for the detection and confirmation and characterization of different pathogens in camel and other farm animals. 2. Wesselsbron virus (WSLV), camel source (PQ672109 to PQ672123) Bovine leukemia virus (BLV (PV796100 to PV796106).</p>
<p>Quality management (true)</p>	<p>1. Inter-laboratory comparison programs 2. ISO/IEC 17043:2023 for Proficiency Testing accreditation 3. PPR Ab-ELISA Proficiency Testing in Camels 4. Proficiency Testing Schemes for Brucellosis</p>	<p>1. WOA collaborating centre for Quality Management Systems at ADAFSA (ADAFSA-CC-QMS) organized inter-laboratory proficiency schemes at the national and international level on a variety of diagnostic tests; namely Trypanosoma spp. microscopy, Antimicrobial Susceptibility Testing (AST) and microscopic detection of Acid Fast Bacilli bacteria (AFB) 2. ADAFSA-CC-QMS conducts this program annually to all interested competent laboratories. ADAFSA-CC QMS achieved world's first accreditation of ISO/IEC 17043:2023 in 2025 for proficiency testing in camel diseases and organized three different PT schemes i.e. PPR-Ab by ELISA, Brucellosis Ab detection by ELISA and by RBT in camels which impact positively in PPR eradication strategy and brucellosis control, building competency and capability, strengthening the disease detection. 3. The centre conducted the annual cycle of PPR-Ab-ELISA- PT scheme in camels and issued final report to twelve participant laboratories from France, UK, Oman, Bahrain, Qatar, Ghana, Senegal, India, and UAE including WOA reference laboratories participation. 4. ADAFSA CC-QMS introduced world's first two PT schemes for detection of Brucellosis in camels which covered RBT and ELISA testing of camel sera samples with 27 participants across five different countries i.e. KSA, Oman, Qatar, Bahrain and UAE.</p>

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
<p>Interlaboratory comparison Program on diagnostic tests for Camel Diseases</p>	<p>Quality Assurance Program with national (10 labs) laboratories on the diagnosis of: • Trypanosoma spp. by microscopy • Acid Fast Bacilli (AFB) by microscopy. • Antimicrobial susceptibility testing (AST)</p>	<p>Laboratory Expertise</p>
<p>Interlaboratory comparison Program on diagnostic tests for farm animals</p>	<p>Quality Assurance Program with national laboratories on the antimicrobial susceptibility test (AST) and diagnosis of Pasteurella spp.</p>	<p>Laboratory Expertise</p>

Biosecurity Risk assessment	ADAFSA initiated and established an integrated biosecurity risk management procedure to enhance the risk-based decision and to initiate an integrated biosecurity risk assessment register which serves in Surveillance and control of animal diseases , Risk Management and Assessment as well in Emergency response	Health Management
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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
WOAHP Reference Laboratory for Surra, WHO CC for Research and Training on Human African Trypanosomiasis Diagnostics, Institute of Tropical Medicine, Belgium Applied Technology and Production, Institute of Tropical Medicine, Belgium	AbuDhabi, UAE	Europa	Experts from Institute of Tropical Medicine, Belgium delivered two online talks on "Global Situation of Animal Trypanosomiasis (Focus on Middle East)" and on "Laboratory operations, accredited activities, and audits at the WOAHP reference laboratory for surra diagnosis" to the trainees of Joint IAEA-ADAFSA Workshop on Validation of Diagnostic Methods in Veterinary Laboratories Fulfilling Requirements of ISO/IEC 17025:2017 conducted at AbuDhabi.
CIRAD, Montpellier, France	AbuDhabi, UAE	Europa	Expert from CIRAD delivered an online lecture on "Importance of Proficiency Tests in method validation and maintaining performance of veterinary laboratories" (Virtual Presentation) in the Joint IAEA-ADAFSA Workshop on December 8th-11th, 2025.

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
National Animal Health Institute in Addis Ababa, Ethiopia	Ethiopia	Africa	1. Continued research into the Unknown cause of Camel Mortality to further understand the link between the Wesselsbron Virus and Outbreaks in collaboration with the Ethiopian Ministry of Agriculture. 2. Improve the scientific and technical capacities of the Ethiopian Animal Health Laboratories including the Animal Health Institute (AHI) and Quality Control Laboratory. 3. Support the Ethiopian Animal

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			Health Institute (AHI) for Recognition as the center for camel disease investigation and research.
State Central Veterinary Laboratory- SCVL, Mongolia	Mongolia	Asia and Pacific	<ol style="list-style-type: none"> 1. Capacity building in laboratory diagnosis of infectious camel diseases. 2. Quality management in veterinary laboratories. 3. Surveillance of emerging and zoonotic diseases affecting camels
Liwa College, Faculty of Health and Medical Science, Abu Dhabi, UAE	UAE	Middle East	To evaluate and compare the efficiency of a local isolated antigen from <i>T. evansi</i> for the detection of Trypanosomosis
Higher College of Technology, Abu Dhabi, UAE	UAE	Middle East	Collaborative Research on Experimental co-evolution of Bacteriophages Isolated from a UAE Cattle Farm Wastewater against <i>Escherichia coli</i> aiming to find an alternative treatment to conventional antibiotics for controlling <i>Escherichia coli</i> infections.
United Arab Emirates University (UAEA)	UAE	Middle East	Collaboration of molecular surveillance of <i>Coxiella burnetii</i> , CCHF and Bovine leukaemia virus (BLV) from one health perspectives
Ministry of Health and Prevention, Ministry of Climate Change and Environment	UAE	Middle East	UAE AMR National Action Plan
UAE-UK One Health AMR consortium which includes academic, research institutions and government agencies from both UK and UAE at the Federal and Emirate level.	UAE	Europe Middle East	Establish a National One Health AMR Biosecurity Consortium aiming to implement a national One Health genomic epidemiological research and surveillance infrastructure focusing on AMR.

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
Asma Abdi Shah (member of Regional Advisory Group (RAG) of the Middle East FMD and PPR Roadmap	A request from the WOA?H GF-TADs FMD Working Group to join a meeting to discuss the Progressive Control Pathway (PCP-FMD) stages of the Middle East Region Roadmap-	Provided expert opinion on the country status progress report
Asma Abdi Shah (Head of WOA?H collaborating center for Quality Management Systems)	A request from Gulf Cooperation Council States to discuss Control of animal and zoonotic diseases and	Provided expert opinion on PPR activities in the region
Dr. Hassan Ishag (Member of the WOA?H ad hoc Group on the Revamping of the Register of Diagnostic Kits)	A request from WOA?H-PPR-REF-LABNETWORK to provide consultancy on the Standard Operating Procedure (SOP) for Testing of Thermotolerant (ThT) PPR Vaccine.	Provided expert opinion on the Standard Operating Procedure (SOP) for Testing of Thermotolerant (ThT) PPR Vaccine.

Dr. Hassan Ishag (Member of the WOAHO ad hoc Group on the Revamping of the Register of Diagnostic Kits)	Managing PPR, High-Impact and Zoonotic Diseases at the Wildlife-Livestock interface Meeting Nairobi 212-24th October 2025-	Attended the meeting and participated in the revision of the FAO guidelines on wildlife surveillance.
Dr. Hassan Ishag -Molecular Biology Expert	Participated in the 8th PPR GREN meeting, 25 to 27 November 2025 in Qingdao, China and shared the expertise on the atypical host and wildlife "systematic review and meta-analysis) covering knowledge, gaps and recommendations.	Shared the expertise on the atypical host and wildlife "systematic review and meta-analysis) covering knowledge, gaps and recommendations.
Ms. Asma Abdi Shah-Head of Collaborating Centre Dr. Mohammed Albreiki- Section Manager Dr. Shameem Habeeba- Microbiology Specialist-Parasitologist Dr. El Tigani Ahmed-Pathology Expert	Participated in the Joint FAO/IAEA Sub Regional Coordination Meeting on Animal and Zoonotic Diseases in the Gulf Cooperation ., 16-19th June 2025, State of Kuwait	Shared expertise on Diagnosis, control of Animal and Zoonotic Diseases

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- In collaboration with WHO COVINET, CC-QMS participated in the preparation of a proactive framework and has been established to systematically evaluate the risks associated with circulating and emerging MERS-CoV variants, focusing on genetic evolution and potential changes in virulence or sustained human-to-human transmission. This framework utilizes genetic data and expert knowledge from affected regions to optimize targeted surveillance and biosafety measures at the animal-human interface.

2- Zulaikha Alhammadi, Technical Consultation on the FAO Integrated Biosecurity Index (IBI)

3- ADAFSA experts in response to UCD project, supported the Animal Health Institute, Addis Ababa by transferring knowledge, provided primers and controls and activated Real Time PCR for detection of Wesselsbron virus and Q Fever in their laboratories.

4- Published UAE-AMR Five Year Action plan(2025-2031) as a collaboration under One Health initiative with diverse participation from national health authorities, academia, agriculture, animal health sectors and environment agencies. <https://mohap.gov.ae/en/w/uae-national-action-plan-on-antimicrobial-resistance-2025-2031>

5- Zulaikha Alhammadi, Dr. Abdelnasir Terab & Naema Al Suwaidi- service request from HCT to provide a histological tissue for student learning

6- Zulaikha Alhammadi, Dr. Ghada Ahmed – request from Private lab for bacterial reference material to validate and develop new microbiological test.

7- Dr. Shameem Habeeba- service request from Higher College of Technology, Abu Dhabi to provide Blood parasite Reference slides for student learning

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

Yes

a) Technical visit : 0

b) Seminars : 12

c) Hands-on training courses: 59

d) Internships (>1 month) : 3

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	Joint IAEA-ADAFSA Workshop on December 8th-11th, 2025. "Validation of Diagnostic Methods in Veterinary Laboratories Fulfilling Requirements of ISO/IEC 17025:2017" (covering Trypanosomiasis and Peste Des Petits Ruminants virus)	CAMENET Member Countries(Bahrain, Qatar, Kuwait, Oman, Saudi Arabia, UAE).	12
C	Training on different Serological tests for Detection of Diseases in Livestock by fulfilling requirements of ISO/IEC 17025 October 29, 2025	UAE	14
C	Joint FAO-ADAFSA Hands-on Training Workshop on FMD diagnostic Tests for Laboratory Staff June 23-24, 2025	UAE	25
C	Joint FAO-ADAFSA Hands-on Training Workshop on PPR diagnostic Tests for Laboratory Staff June 25, 2025.	UAE	25
C	Hands-on training on - "Microscopy for Blood Parasite Detection: Practical Training with focus on Quality Assurance Programs" on 29-07-2025	UAE	5
C	Two Days-Hands-on Training on "Antimicrobial Susceptibility Testing (AST) and the quality control Methods" 18-19/06/2025	UAE	8

C	Hands on training on veterinary diagnostic tests, quality management and ISO 17025(30/12/2024 – 15/12/2025)	UAE	4
D	Laboratory Internship for three Graduate students Saeed Eissa, Thasneem Burhan and Noor Al Shehhei	UAE	3

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	7th Annual Meeting of the Global Research and Expertise Network for Peste des Petits Ruminants (PPR-GREN) from 20 to 22 January	ADAFSA	2025-01-20	AbuDhabi, UAE	80
Internationally	Workshop on Validation of Diagnostic Methods in Veterinary Laboratories Fulfilling Requirements of ISO/IEC 17025:2017	Joint FAO/IAEA Centre of Nuclear Techniques in Food and Agriculture, Department of Nuclear Sciences and Applications	2025-12-08	AbuDhabi, UAE	12

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:

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1. Ishag HZA, Terab AMA, Osman EMA, El Tigani-Asil ETA, Albreiki MS, Bensalah OK, Shah AAM and Khalafalla AI (2025) Clinical, pathological, and genotypic analysis of infectious bronchitis virus in broiler chickens in the Abu Dhabi Emirate, United Arab Emirates. *Front. Vet. Sci.* 11:1474181. <https://doi.org/10.3389/fvets.2024.1474181>

2. Habeeba, S.; Mahmmod, Y.; Mohammed, H.; Amer, H.; Moustafa, M.; Sobhi, A.; El-Sokary, M.; Hussein, M.; Tolba, A.; Al Hammadi, Z.; et al. In Vitro Detection of Acaricide Resistance in Hyalomma Species Ticks with Emphasis on Farm Management Practices Associated with Acaricide Resistance in Abu Dhabi, United Arab Emirates. *Vet. Sci.* 2025, 12, 712. <https://doi.org/10.3390/vetsci12080712>

3. Ashenafi Milkesa, Tesfaye Rufael, Abde Aliy, Chala Guyasa, Teshale Sori, Radiet Belaineh, Tigist Ashagrie, Mekonnen Belete, Hassan Zackaria Ali Ishag and Hunduma Dinka. Detection of Coxiella burnetii DNA Targeting the Cytochrome c oxidase subunit 1 (COX1) Gene by RT-qPCR from Addis Ababa, Adama, Modjo Abattoirs, and Pastoral Areas of Oromia, Ethiopia. *Austin J Public Health Epidemiol.* 2025; 12(3): 1182.

4. Hassan, N. A., Ishag, H. Z., Anthony, A., Zewude, A., Wamono, A. W., Abdalla-Alfaki, I. M., Mohammed, A., Tesfay, P., Shikoray, L., Almohsen, H. A. M., Alramahi, Y. M., AlKalbani, M. S., Bensalah, O. K., Alnaqbi, S. A., AlBreiki, M. S., Mohammed A Shah, A., Ameni, G., & Barigye, R. Molecular characterization of bovine leukemia virus detected in dairy cattle herds from the Emirate of Abu Dhabi, United Arab Emirates. *Scientific reports*, 2025 15(1), 44915. <https://doi.org/10.1038/s41598-025-28570-w>

5. Eltahir, Y.M.; Al Nuaimat M.M.; Bensalah, O.K.; Osman, E.; Al-Ramamneh, D.S.; Khan, R.A.; Alsuwaidi, N.A.; Mohamed, M.S.; Kayaf, K.; Ismaeil, S.; et al. Post-Vaccination Assessment of Peste Des Petits Ruminants in Sheep and Goats in the United Arab Emirates. *Vet. Sci.* 2025, 12, 991. <https://doi.org/10.3390/vetsci12100991>

b) International conferences:

7

Oral Presentation:

1. Dr. Rashid Khan- "Organizing the World's First Proficiency Test Scheme for the Detection of Peste Des Petits Ruminants (PPR) Virus Antibodies in Camel by ELISA" presented in SEVENTH MEETING of PPR GLOBAL RESEARCH AND EXPERTISE NETWORK (PPR-GREN). 20-22 JANUARY 2025.

2. Dr Mohamed Al Breiki - ADAFSA's contribution toward effective response to zoonoses and emerging infections "One Health Approach"-3rd Global Summit on Public Health- Webinar 20-03-2025.

3. Dr Mohammed Albreiki - "The Strategic Role of ADAFSA in Enhancing Small Ruminant Health and Sustainable Livestock Management" - 5th World Conference on Sheep (WCS2025), held at China Agricultural University in Beijing, China, 10-12 October 2025

4. Dr Hassan Ishag participated in the meeting "Managing PPR, High-Impact and Zoonotic Diseases at the Wildlife-Livestock interface 22-24 October 2025, Nairobi, Kenya" and delivered oral talk entitled "Wildlife Peste des Petits Ruminants (PPR) in the Gulf Region: Review and Knowledge Gaps"

5. Dr. Hassan Ishag participated in the 8th PPR GREN meeting, 25 to 27 November 2025 in Qingdao, China and shared the expertise on the atypical host and wildlife (systematic review and meta-analysis) covering knowledge, gaps and recommendations.

6. Asma Abdi Mohammed participated in international conference "ONE HEALTH STRATEGIES FOR EMERGING INFECTIOUS DISEASES" Jan 2025, Sharjah, UAE and delivered oral talk entitled "The role of Abu Dhabi Agriculture and Food Safety Authority in implementing one-health strategies in Abu Dhabi"

Poster Presentation:

1. Dr. Shameem Habeeba- WOA?H Collaborating Centre for Camel Diseases presented a poster titled "Factors Contributing to Tick Control Failure among Livestock Animal Farms in the Emirate of Abu Dhabi, United Arab Emirates" as part of Universities Challenge Program under Global Food Week 2025, AgroTech Forum, ADNEC, Abu Dhabi

c) National conferences:

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1. Dr. Ghada Ahmed –Scientific talk at the public health symposium in addressing emerging threats and gaps in communicable and non-Communicable Diseases form one Health prospective entitled "Advancing One Health in the UAE" October 2nd 2025.
2. Dr. Ghada Ahmed –Scientific talk entitled "Animal Production at a Crossroads: Tackling Antibiotic Use and Antimicrobial Resistance" November 24, 2025 at the Global Food Week, which serves as a hub where leading food companies gather under one roof to showcase new technologies in the food industry and promote sustainability.
3. Dr. Eltigani Ahmed - scientific talk entitled " Hands on Training workshop on sample collection for Avian Influenza in susceptible mammals" in the framework of National Surveillance for Avian influenza in 11 – 12 February 2025 – Abu Dhabi
4. Dr. Eltigani Ahmed - Scientific talk entitled " Hands on Training workshop on environmental sample collection for Avian Influenza" in the framework of National Surveillance for Avian influenza in 24April 2025 – Abu Dhabi
5. Dr. Eltigani Ahmed - Scientific talk entitled " Virtual workshop - Global and National Overview of Avian Influenza" in the 3rd National Workshop on Avian Influenza Surveillance in Migratory birds and Water birds (virtual- 28 October 2025).

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

1

CC-QMS celebrated World Antimicrobial Awareness week (WAAW) 2025 by organizing an awareness session targeting animal owners. The session aimed to address and shed light on antimicrobial resistance (AMR), raise awareness, understanding of AMR, and highlight the role of the community in tackling and fighting this phenomenon. In addition, awareness and educational messages were designed and launched through the media, targeting the wider community as part of the center's activities to combat antimicrobial resistance.

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

1. Following the 2024 local debut by ADFASA /CC-QMS, the world's first Integrated Biosecurity Index (IBI) was launched globally in April 2025 with international participation, establishing a new gold standard for regional and global biological safety. This 2025 milestone builds on a robust ecosystem featuring over 65 certified assessors and an expanded framework that now incorporates environment, biodefense, forestry, and aquatic health.
2. CC-QMS launched an integrated program to strengthen early detection and diagnostic capabilities for plant diseases in Abu Dhabi. This initiative implements advanced laboratory analysis and a comprehensive surveillance program to monitor fungal, bacterial, viral, and phytoplasma diseases across commercial farms and nurseries.

12. Additional comments regarding your report: