

# WOAH Collaborative Centre Reports Activities 2025

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## CENTRE INFORMATION

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| <b>*Title of WOA Collaborating Centre</b>   | Camel Diseases   |
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| <b>*Name Director of Institute (Responsible Official):</b>  | H.E Dr.Tareq Al Ameri, Director General, ADAFSA  |
| <b>*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):</b> | Ms. Asma Abdi Mohamed Shah (Director of Biosecurity Affairs Division, ADAFSA and Head of Collaborating Centre )  |
| <b>*Name of the writer:</b>   | 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. Laboratory Capacity in Genome sequencing of viruses, bacteria and parasites<br>2. Primer Bank<br>3. Biobank<br>4. Isolation and identification of viruses, bacteria, fungi and parasites | 1. WOA collaborating centre for Camel Diseases at ADAFSA (ADAFSA-CC-CD) focused on the Development and activation of specialized diagnostic facilities that enable veterinary authority to set plans for early diagnosis, prevention, and control of camel diseases. Genome sequencing was carried out for characterization of pathogens namely Wesselsbron virus, Foot and Mouth diseases virus (FMDV), Bovine viral diarrhoea (BVD), Bovine Leukaemia Virus (BLV), Coxiella burnetii, Middle East Corona Respiratory Virus (MERS CoV). 2. Updated the primer bank by adding primers for 6 new diseases to the list. 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 Parapoxvirus generic assay (PAPV J6R). In addition to specialized lineage specific Foot |

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|  |  | <p>and mouth disease primers. 3. Five isolates of <i>Pasteurella multocida</i> and three isolates of <i>Mannheimia hemolytica</i> the etiology of Hemorrhagic septicemia (HS) in camels were purified, quantified and kept ready to be used for validation of diagnostic tests and antigen production. 4. Several pathogens were isolated/identified from camels and characterized at the ADAFSA-CC including <i>Trichophyton</i> spp (<i>T. verrucosum</i>, <i>T. rubrum</i>, <i>T. mentagrophytes</i> and <i>T. gypsum</i>) the causative of camel ringworm.</p>  |
| <p>Epidemiology, surveillance, risk assessment, (true)</p> | <p>1. Study on Mange mites of Camels in Emirate of Abu Dhabi, UAE 2. Study on camel Dermatophytosis in Emirate of Abu Dhabi - UAE 3. Molecular surveillance of Parainfluenza type -3 (PIV3) in camel in the Abu Dhabi Emirate, UAE 4. Molecular surveillance of Wesselsbron virus (WSLV) in camels in the Abu Dhabi Emirate, UAE 5. Molecular surveillance of Alkhurma hemorrhagic fever virus 6. Biosecurity Risk Assessment for MERS-Cov</p> | <p>1. Prevalence study was conducted and identified common mange mite affecting camels in the study area. Appropriate strategic control measures were advised to improve the standards of animal husbandry. 2. Assessed the prevalence and distribution of dermatophytosis among camel population in Emirate of Abu Dhabi. Identified the predominant Dermatophyte species responsible for camel ringworm in Emirate of Abu Dhabi. Strategic control measures aimed at minimizing the spread of dermatophytosis and reducing its economic burden on camel owners and improve camel welfare. 3. To assess the molecular prevalence of PIV3 in the camels in the Abu Dhabi Emirate. To provide recommendation on the control of the disease in the region. 4. To assess the molecular prevalence of WSLV in the camels in the Abu Dhabi Emirate. To provide recommendation on the control of the disease in the region. 5. To assess the molecular prevalence of Alkhurma hemorrhagic fever virus in the camels in the Abu Dhabi Emirate. To provide recommendation on the control of the disease in the region. 6. ADAFSA conducted joint risk assessment (JRA) for MERS-Cov to enhance biosecurity and mitigation for risk based decision making.</p>                         |
|  | <p>1. ADAFSA's ongoing initiative to strengthen the technical capacity of private veterinary laboratories in the United Arab Emirates. 2. A practical training in animal diseases diagnosis using molecular biology techniques (Real time PCR &amp; End point</p>  | <p>1. The training set at national level targeted professionals from private diagnostic laboratories aiming at capacity building for improved diagnostic skills in various techniques including microscopy, serology and molecular tests. The training also gave 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. To strengthen the capacity of the private laboratories in the molecular diagnosis of infectious diseases based with consideration of the ISO/IEC 17025 attended by eight participants. 3. Training on different Serological tests for Detection of Diseases in Livestock by was specifically designed for private lab staff attended by 14 participants from different emirates of UAE 4. Two days hands on training provided to eight participants from five veterinary private labs in performing antimicrobial Susceptibility Testing (AST) using different methods (disk diffusion, broth/agar dilution and automated). The training also focused on troubleshooting and quality control measures on implementation of ISO 17025 5. One day Hands on Training was organized to five private laboratory staff</p> |

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| <p>Training, capacity building (true)</p>             | <p>PCR) with a focus on quality control and quality assurance on 09-10 July 2025 3. Training on different Serological tests for Detection of Diseases in Livestock by fulfilling requirements of ISO/IEC 17025 on 29 October, 2025 4. Two Days-Hands-on Training on "Antimicrobial Susceptibility Testing (AST) and the quality control Methods" 18-19/06/2025 5. Hands On Training on "Microscopy for Blood Parasite Detection: Practical Training with focus on Quality Assurance Programs"" on 29-07-2025 6. Scientific Lecture on a topic -"Sarcocystosis in Meat Producing Animals" on 24-07-2025 7. In capacity building: Teaching and Training University/College Students 8. Awareness to Farm Labourers-and Slaughterhouse workers Continuing Program 9. Scientific lecture entitled: "Challenges in diagnosis of Bacterial diseases and required competencies" on 29/09/2025 10. Scientific talk about Using advanced molecular techniques to pinpoint Wesselsbron virus as an emerging pathogen during the investigation of unknown cause of camel mortality in Ethiopia in the Abu Dhabi Global Food Week 21-23 October 2025 11. Virtual lecture on the Role of Coccidian Parasites in morbidity and Mortality of Farm animals and public health Concern 12. Specialized hands-on training for two Sharjah Municipality staff on "Different techniques for extraction of DNA from different types of samples. Genome Sequencing and PCR techniques for disease diagnosis in farm animals" from 10-14 November 2025".</p> | <p>at national level in Emirates of Abu Dhabi in routine laboratory techniques in diagnosis of haemoparasitic diseases in animals. Trainees were also introduced to ISO 17025 standards and quality assurance programs in blood microscopy which helps maintain the quality of laboratory services as well as the technical quality of data provided by the laboratories. 6. Educating the meat inspection officers about the importance of scientific inspection procedures and danger of zoonotic diseases, importance of control programs and maintaining strict standards for slaughter facilities. 7. ADAFSA's WOA Collaborating Centre for Camel Diseases provided training to 25 undergraduate students from different educational institutions in UAE namely Higher Colleges of Technology(HCT), United Arab Emirates University(UAEU), Sharjah University and one international student from University of Budapest in different areas of camel diseases during 2025. 8. ADAFSA's WOA Collaborating Centre for Camel Diseases conducted awareness programs on "Tick Talks to Prevent Tick-Borne infections" targeting farm labourers in Al Dhafra and Abu Dhabi on 28 January 2025 and at AlWathba slaughterhouse on 4th December 2025. Program provided onsite training to 8 farm labourers and 29 slaughterhouse workers on adopting scientific practices to prevent tick bites and precautionary/preventive steps to avoid tick-borne diseases. Multilingual leaflets on Safety Measures to Prevent Tick Borne infections in four different languages English/Hindi/Arabic/Urdu were distributed among the farm workers. 9. Lecture provided information on main challenges associated with the isolation and identification of bacterial pathogens including mix culture, using different protocols and identification systems. It is also outlined the required competencies for successful isolation and identification and troubleshooting. Targeted audience were laboratory personnel working in both private and governmental laboratories 10. Enhance knowledge and increase diagnostic skills of emerging and transboundary diseases particular in camels for Risk analysis, preparedness and risk control to ensure biosecurity system. 11. Enhance knowledge, diagnostic skills of diseases in animals for sustaining animal production, food security and biosecurity. 12. To enhance their technical capacity in the molecular biology techniques including real-time PCR, gel-based PCR, sequencing and bioinformatics analysis.</p> |
| <p>Diagnosis, biotechnology and laboratory (true)</p> | <p>1. Research- Use of a Local Isolate of Trypanosoma evansi in verifying and validating of a direct agglutination test for the Diagnosis and Prevention of Trypanosomiasis (Surra) in the United Arab Emirates 2. Increase scope of diagnostic tests by validation of two (2) new tests for detection of different pathogens of camel as well other farm animals. 3. PT Scheme for PPR in camels 4. PT Schemes for Brucellosis in camels(ELISA and RBT) 5. In-house activation of molecular diagnostics</p>   | <p>1. To produce and evaluate an antigen processed from the local endemic strain in a direct agglutination test for the early detection of Surra. 2. To increase diagnostic capacity of lab for diagnosis of keratoconjunctivitis , mycoplasma infections and mastitis 3. DAFSA's WOA Collaborating Centre for Camel Diseases organized PPR-ab PT scheme in camels in 2025 and twelve laboratories from France, UK, Oman, Bahrain, Qatar, Ghana, Senegal, India, and UAE including WOA reference laboratories participated. 4. ADAFSA's WOA Collaborating</p>  |

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tests: • Detection of bovine leukaemia virus (BLV) DNA by Real-Time PCR • Real-time PCR for the detection and differentiation of Alkhurma hemorrhagic fever virus (AHFV) and Kyasanur forest disease virus (KFDV) specific RNA • Specific detection of orf virus and pseudocowpoxvirus by qPCR

Centre for Camel Diseases organized two PT schemes first of its kind PT schemes for detection of Brucellosis in camels which covered RBT and ELISA testing for camel sera samples. 27 participants across five different countries i.e. KSA, Oman, Qatar, Bahrain and UAE participated in these two schemes. 5. Expand the scope of molecular diagnosis of animal disease and fulfil the list of WOAHA listed diseases.

## 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                                |
|---|---|--|
| Interlaboratory Comparison (ILC) Program on diagnostic tests for Camel Diseases | Collaboration with national(10) to share laboratory expertise on diagnosis of: Trypanosoma spp. by microscopy Acid Fast Bacilli (AFB) by microscopy. Pasteurella multocida identification and Antimicrobial Susceptibility Test (AST)   | Laboratory Expertise<br>Training and Education |
| Haemo Parasites Educational Kit   | Educational and reference kit for blood parasites that infect camels and cattle prepared (Trypanosoma spp. and Theileria spp.)from field samples, serve as a reference for parasitic diseases of camels, targeting diagnostic laboratories as well as university students, and researchers- transferred to Higher College of Technology, Abu Dhabi 2025 | Laboratory Expertise<br>Training and Education |
| Bacterial Veterinary pathogens kit  | Expanded the scope of the previous produced kit by adding reference faecal slides for Camel paratuberculosis caused by MAP  | Laboratory Expertise<br>Training and Education |
| PPR-Ab PT scheme in camels  | Conducted single round of PPR-ab PT scheme in camels in 2025 with twelve laboratories from France, UK, Oman, Bahrain, Qatar, Ghana, Senegal, India, and UAE including WOAHA reference laboratories participation  | Laboratory Expertise<br>Training and Education |
| Histopathology Kit  | Expanded the scope of the previous kit with new reference slides for tissue lesions in myocarditis, hepatitis and coccidiosis.  | Laboratory Expertise<br>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 specialty, to coordinate scientific and technical studies?

Yes

| Name of WOAHA CC/RL/other organisation(s) | Location | Region of networking Centre | Purpose  |
|---|----------|-----------------------------|--|
|   |          |                             | 1. Continued research into the Unknown cause of Camel Mortality to further understand the link between the Wesselsbron Virus and |

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| Animal Health Institute (AHI), Ethiopia  | Ethiopia                                    | África        | 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 Health Institute (AHI) for Recognition as the center for diseases in camel disease investigation and research |
| Middle East Camel Network -CAMENET<br>(United Arab Emirates, Bahrain, Saudi Arabia, Qatar, Oman, Kuwait, Jordan, Yemen | (United Arab Emirates, Saudi Arabia ,Kuwait | Oriente Medio | 1. CAMENET Steering and technical committee meetings : Online and onsite meetings discussed the action plan for 2025-2026. 2. Onsite Technical committee meeting conducted during the global food week in Abu Dhabi (ADIFE) 21-23 October 2025  |
| The Intergovernmental Authority on Development in Africa (IGAD)  | Kenya                                       | África        | Harmonization of the collaboration between IGAD countries Ethiopia, Kenya, to investigate Unknown camel diseases in the horn of Africa.   |

## TOR 4 AND 5: NETWORKING AND COLLABORATION

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

Yes

| Name of WOAHC CC/RL/other organisation(s)                           | Location | Region of networking Centre | Purpose  |
|---|----------|-----------------------------|--|
| State Central Veterinary Laboratory- SCVL, Mongolia                 | Mongolia | Asia and Pacific            | 1. Capacity building in laboratory diagnosis of infectious camel diseases. 2. Quality management in veterinary laboratories. Surveillance of emerging and zoonotic diseases affecting camels |
| Faculty of Medical and Health Sciences, LIWA College, Abu Dhabi UAE | UAE      | Middle East                 | To isolate, evaluate and compare the efficiency of an antigen isolated from T.evansi for the detection of Trypanosomosis   |
| Ministry of Health and Prevention, Ministry of Climate Change       | UAE      | Middle East                 | UAE AMR National Action  |

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| and Environment,<br>MOCCA, UAE   |     |                       | 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<br>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. Project Name: Unveiling the evolutionary mechanisms driving the dissemination and spread of AMR in UAE in a One-Health framework |

## 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 Mohammed Head of WOA?H collaborating center for camel diseases  | Meeting of the Regional Commission For The Middle East  | The Role of the WOA?H Collaborating Center for Camel Disease in Improving Camel Health Regionally and Inter-regionally  |
| Asma Abdi Mohammed Head of WOA?H Collaborating Centre for Camel Diseases, and a member of the Middle East Camel Network (CAMENET) | Participated in the closing session of the International Year of Camelids, held in Rome, Italy, upon the official invitation  | Showcase and highlight the key activities and programs carried out by the WOA?H Collaborating Centre for Camel Diseases and the Middle East Camel Network (CAMENET) during the celebrations of the International Year of Camelids   |
| Dr. Hassan Ishag (Member of the WOA?H ad hoc Group on the Revamping of the Register of Diagnostic Kits)                           | 1. A request from WOA?H WOA?H-PPR-REF-LAB-NETWORK to provide consultancy on the Standard Operating Procedure (SOP) for Testing of Thermotolerant (ThT) PPR Vaccine (a request from WOA?H) 2. Member of the WOA?H ad hoc Group on the Revamping of the Register of Diagnostic Kits. 3. Managing PPR, High-Impact and Zoonotic Diseases at the Wildlife-Livestock interface Meeting Nairobi 212-24th October 2025 4. The 8th PPR GREN meeting, 25 to 27 November 2025 in Qingdao, China | 1. Provided expert opinion on the Standard Operating Procedure (SOP) for Testing of Thermotolerant (ThT) PPR Vaccine. 2. Attended the first meeting of the ad hoc Group on the Revamping of the WOA?H Register of Diagnostic Kits, scheduled for Friday 28th November 2025 12:00 – 1:30pm Paris time. 3. Attended the meeting and participated in the revision of the FAO guidelines on wildlife surveillance. 4. 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. |
| Prof. Abdelmalik Khalafalla (Chair of the PPR-GREN Bureau)  | The 8th PPR GREN meeting, 25 to 27 November 2025 in Qingdao, China  | Participated in the 8th PPR GREN meeting held from November 25 to 27, 2025, in Qingdao, China. During the meeting, he spoke about the objectives at the opening session, chaired several sessions, and delivered a presentation on the achievements, impact, and future directions of PPR-GREN.   |
| Prof. Abdelmalik Khalafalla (Member of the WOA?H ad hoc Group on the evaluation of peste des petits ruminants (PPR) status )      | 1. WOA?H Workshop: Towards a better understanding to implementation of Zoning (Regionalization) and Compartmentalization in the Arabian Gulf countries, 1-3 July 2025 –Abu Dhabi UAE 2. Meeting of the ad hoc Group on the evaluation of peste des petits ruminants (PPR) status, Paris, 3 to 6 November 2025   | 1. Participated and presented on Camel Infectious diseases and assessment of the needs for the establishment of disease-free zones or compartments 2. Participated in the Meeting of the ad hoc Group on PPR status   |

## 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, ADAFSA-CC participated in the preparation of a proactive framework 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>

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 : 12

c) Hands-on training courses: 38

d) Internships (>1 month) : 7

| 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  | Workshop on Method validation for Trypanosomosis(Microscopy and Molecular) and PPR detection (ELISA and Molecular)  | CAMENET Member Countries(Bahrain, Qatar, Kuwait, Oman, Saudi Arabia, UAE). | 12  |
| D  | Laboratory Internship for three Graduate students Saeed Eissa, Thasneem Burhan and Noor Al Shehhei  | UAE  | 3   |
| D  | Hands on training across various veterinary specialities (Parasitology, Bacteriology, Serology, Molecular biology, Chemistry and Haematology) was provided to the technical staff of the newly established veterinary hospital "Abu Dhabi Equine & Camel Hospital". | UAE  | 4   |
| 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  | Joint FAO-ADAFSA Hands-on Training Workshop on FMD and PPR diagnostic Tests for Laboratory Staff June 23-25, 2025   | UAE  | 25  |

## 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        | Organized Meetings of the steering and technical Committee of the Middle East Camel Network (CAMENET)                          | ADAFSA   | 2025-10-23 | AbuDhabi, UAE | 20               |
| Internationally        | PPR Global Research and Expertise Network (PPR-GREN) Annual Meeting  | ADAFSA   | 2025-01-20 | AbuDhabi, UAE | 80               |
| Internationally        | Joint FAO/IAEA Sub Regional Coordination Meeting on Animal and Zoonotic Diseases in the Gulf Cooperation Council States        | Kuwait institute for Science and Research (KISR)                                   | 2025-06-16 | Kuwait        | 4                |
| Nationally             | FAO-ADAFSA Practical Training Workshop for FrontLine Veterinary Staff on FMD Recognition, Outbreak Investigation and Reporting | FAO  | 2025-06-23 | UAE           | 25               |
| Internationally        | Organized a workshop titled "Cross-border Movement of Competitive 'Event' Camels in the Gulf Region,"                          | Subregional Office of the World Organization for Animal Health for the middle east | 2025-10-20 | AbuDhabi, UAE | 30               |

## 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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- Ishag H, Tigani El Tigani-Asil E, Zawde W, Khalafalla AI, Albreiki M, Al Zarooni N, et al. Molecular Detection of Wesselsbron Virus in Dromedary Camels, Borana Zone, Ethiopia, 2024. *Emerg Infect Dis.* 2025;31(6):1263-1265. <https://doi.org/10.3201/eid3106.250130>
- 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>
- Sheek-Hussein M, Zewude A, Abdullahi AS, Neyadi JA, Osman B, Hassen AA, Ishag HZ, Commey AN, Breiki MS, Shah AA, Nuaimat MM. Crimean–Congo Hemorrhagic Fever Virus Infections in Slaughtered Camels and Abattoir Workers in the United Arab Emirates. *Transboundary and Emerging Diseases.* 2025;2025(1):3409106.
- Sheek-Hussein M, Zewude A, Abdullahi AS, Abdelgaleel NH, Ishag HZ, Yusof MF, AlBreiki MS, Shah AM, AlNeyadi J, Osman B, Hassen AA. One health approach based descriptive study on Coxiella burnetii infections in camels and abattoir workers in the United Arab Emirates. *Scientific reports.* 2025 Apr 10;15(1):12308.
- 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.

References gene/genomic sequences: 2025 submissions

- Wesselsbron virus (WSLV), camel source: PQ672109 to PQ672123(15) submitted GenBank
- Bovine leukemia virus (BVL): PV796100 to PV796106 (7)

b) International conferences:

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- Asma Abdi Mohammed , WOA?H Collaborating Centre for Camel Diseases participated in the panel discussion

"Strengthening Livestock Health and Food Security through International Collaboration among Collaborating and Reference Centres." on October 21, 2025, at Abu Dhabi International Food Exhibition (ADIFE) .

2. Dr. Rashid Khan- WOA Collaborating Centre for Camel Diseases "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 PPRGLOBAL RESEARCH AND EXPERTISE NETWORK (PPR-GREN). 20-22 January 2025.

3. Dr. Hassan Ishag WOA Collaborating Centre for Camel Diseases participated in the "26th WOA Conference of the Regional Commission for Africa 4-7 February 2025, Addis Ababa, Ethiopia" and delivered a talk on the outcomes of the ADAFSA-AHI investigation of unknown camel death in Ethiopia

4. Dr. Hassan Ishag participated in Regional Forum to Dialogue over Camel Unknown Disease April 14-18, 2025 Bishoftu, Ethiopia, and delivered a talk on the on the "Outcomes of the ADAFSA-AHI investigation of unknown camel death in Ethiopia.

5. 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.

6. Dr Mohammed Albreiki – ADAFSA's One Health Initiatives: Advancing Integrated Health & Biosecurity in Abu Dhabi" – Global AgroVet Research Conference "GARCX2025" held from 10–11 November 2025 – Dubai

7. Dr Mohammed Albreiki - "ADAFSA's Strategic Roles in Safeguarding Food Security and Sustainability in Agriculture." - 4th International Conference on Modern Agricultural Technologies, Kirkuk University, Iraq, 1-2 October 2025

8. Dr. Eltigani Ahmed - WOA Collaborating Centre for Camel Diseases presented scientific talk entitled "Scientific talk about Using advanced molecular techniques to pinpoint Wesselsbron virus as an emerging pathogen during the investigation of unknown cause of camel mortality in Ethiopia" in the Abu Dhabi Global Food Week 21-23 October 2025

9. Dr. Ghada Abdelwahab presented a talk in the International Dairy Federation (IDF) Symposium: Opportunities and Insights in the Camelid Dairy Sector entitled "Overview of Camel Mastitis Pathogens and Antibiotic Susceptibility profile in Emirate of Abu Dhabi – United Arab Emirates", 25 November 2025 and was awarded the Best Oral Presentation .

#### Poster Presentation:

1. Poster Title: "Camel Middle East Network (CAMENET): Achievements, Activities, and Strategic Priorities for 2025."

at the 92nd General Session of the World Assembly of Delegates for the World Organisation for Animal Health (WOAH), 25–29 May 2025, Paris, France.

2. Dr. Shameem Habeeba- WOA 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 21-23 October 2025

3. Dr. Hassan Ishag 7TH PPR GREN meeting 20-22 January 2025, Abu Dhabi, United Arab Emirates - Abstract on the "Status of the PPR research in the atypical hosts".

#### c) National conferences:

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1. Dr. Eltigani Ahmed - WOA Collaborating Centre for Camel Diseases presented scientific talk entitled " Hands on training on FMD: Clinical recognition, postmortem findings and differential diagnosis" in the 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

2. Dr. Ghada Ahmed – WOA Collaborating Centre for Camel Diseases presented a scientific talk at the public health symposium in addressing emerging threats and gaps in communicable and non-Communicable Diseases from one Health prospective entitled "Advancing One Health in the UAE" October 2nd 2025.

3. Dr. Ghada Ahmed – WOA Collaborating Centre for Camel Diseases presented 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.

4. Asma Abdi, Dr. Mohammed ALBreiki, Dr. El Tigani Ahmed and Dr. Shameem Habeeba participated in Sub-Regional Coordination Meeting on Animal and Zoonotic Diseases in Kuwait City, Kuwait on 16-19 June 2025.

5. Dr. Mohammed Al Breiki gave a talk on "CAMENET Initiatives" in Sub-Regional Coordination Meeting on Animal and Zoonotic Diseases in Kuwait City, Kuwait on 16-19 June 2025.

6. Prof. Abdelmalik Khalafalla, participated in the 19th Dubai International Food Safety Conference (DIFSC) held in Dubai, UAE, from 17-19 November 2025, and delivered an invited speech on zoonosis and food safety hazards associated with camel products.

7. Prof. Abdelmalik Khalafalla, participated in the CEPI Workshop on MERS Vaccines use case development organized by WHO in Riyadh, KSA (virtual meeting), November 18-19 and delivered a presentation on MERS-CoV Vaccination of Camels. Social and Cultural Acceptance

8. Prof. Abdelmalik Khalafalla participated in the "Camel Production for a Resilient Future: Innovations, Sustainability, and Livelihoods" workshop, which was jointly organized by the FAO and the Ministry of Agriculture, Water, and Environment of Saudi Arabia in Riyadh on December 15-16, 2025, and delivered a presentation on recent advancements in camel production and veterinary health.

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

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ADAFSA 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.

*Published a video of a training program entitled "Raising Awareness about Ticks and Preventing Tick-Borne Diseases" in ADAFSA Instagram page and FAO page at  
<https://x.com/faoinuae/status/1957742612166672426?s=46>  
<https://x.com/faoinuae/status/1957741650530242994?s=46>*

11. What have you done in the past year to advance your area of focus, e.g. updated technology?  
*Updated genomic sequencing facilities to respond to emerging infectious diseases*

12. Additional comments regarding your report: