WOAH Reference Laboratory Reports Activities 2023
Activities in 2023
This report has been submitted: 13 juin 2024 20:59

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:
Equine herpesvirus-1 (Equid alphaherpesvirus 1) EHV-1

Address of laboratory:
Gluck Equine Research Center, 1400 Nicholasville Road, Lexington, Kentucky 40503, USA

Tel:
+18592574757

E-mail address:
lsgo226@uky.edu

Website:
https://gluck.ca.uky.edu/

Name (including Title) of Head of Laboratory (Responsible Official):
Lutz S. Goehring, DVM, MS, Ph.D. Professor of Equine Infectious Diseases

Name (including Title and Position) of WOAH Reference Expert:
Lutz S. Goehring, DVM, MS, Ph.D. Professor of Equine Infectious Diseases

Which of the following defines your laboratory? Check all that apply:
Academic institution

TOR1: DIAGNOSTIC METHODS

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)
Yes

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in WOAH Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nationally</td>
<td>Internationally</td>
</tr>
<tr>
<td>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VN assay</td>
<td>Yes</td>
<td>30</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCR</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>FA</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>VI</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>histopathology - abortion cases and myelopathy cases</td>
<td>Yes</td>
<td>80</td>
</tr>
</tbody>
</table>

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?
No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?
No

4. Did your laboratory produce vaccines?
No

5. Did your laboratory supply vaccines to WOAH Members?
No
TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?  
Yes

<table>
<thead>
<tr>
<th>NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED</th>
<th>DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>digital PCR</td>
<td>we currently compare dPCR with qPCR</td>
</tr>
<tr>
<td>EHV-1 surveillance</td>
<td>air space, environmental</td>
</tr>
</tbody>
</table>

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?  
No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?  
Yes

<table>
<thead>
<tr>
<th>NAME OF THE NEW VACCINE DEVELOPED</th>
<th>DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>mRNA vaccine against EHV-1</td>
<td>we are in the middle of evaluating pilot data, and will proceed into a main study with several products</td>
</tr>
</tbody>
</table>

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?  
No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAH Members?  
No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?  
No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?  
No

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH?  
No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?  
No

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?  
No

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

5

I was a member in the consensus statement group updating the EHV-1 consensus statement

b) International conferences:

3

International symposium on Equine Reproduction (ISER Xiii) in Brazil; ACVIM in USA and World Equine Veterinary Association in Chile.

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

**TOR7: SCIENTIFIC AND TECHNICAL TRAINING**

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?
No

**TOR8: QUALITY ASSURANCE**

18. Does your laboratory have a Quality Management System?
No
19. Is your quality management system accredited?
No
20. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?
Yes
It is complicated, as we are a fusion between a research laboratory and a veterinary diagnostic laboratory (University of Kentucky-VDL) which does most of the diagnostic testing and is fully certified by AAVDL.

**TOR9: SCIENTIFIC MEETINGS**

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?
No
22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?
No

**TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES**

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?
Yes
24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
Yes

<table>
<thead>
<tr>
<th>NETWORK/DISEASE</th>
<th>ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)</th>
<th>NO. PARTICIPANTS</th>
<th>PARTICIPATING WOAH REF. LABS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHV-1</td>
<td>participant</td>
<td>2</td>
<td>Irish Equine Centre</td>
</tr>
</tbody>
</table>

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
No
26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
No

**TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING**

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen?
No

**TOR12: EXPERT CONSULTANTS**
28. Did your laboratory place expert consultants at the disposal of WOAH?
   No
29. Additional comments regarding your report:
   No