WOAH Reference Laboratory Reports Activities

2022

Activities in 2022

This report has been submitted: 7 juin 2023 14:46

Laboratory Information

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Equine Rhinopneumonitis - Equid alphaherpesvirus 1 and 4 associated disease |
| Address of laboratory: | Maxwell H. Gluck Equine Research Center, 1400 Nicholasville Road, Lexington, KY 40546-0091 |
| Tel.: | +1 859 257 4757 |
| E-mail address: | l.goehring@UKy.edu |
| Website: | https://gluck.ca.uky.edu/ |
| Name (including Title) of Head of Laboratory (Responsible Official): | Prof. Lutz S. Goehring, MS, Ph.D. |
| Name (including Title and Position) of WOAH Reference Expert: | Prof. Lutz S. Goehring, MS, Ph.D. |
| 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>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virus Neutralization</td>
<td>yes</td>
<td>Nationally yes Internationally no</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCR</td>
<td>yes</td>
<td>Nationally Internationally yes</td>
</tr>
</tbody>
</table>

WOAH Reference Laboratory Reports Activities 2022
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

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?
No

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?
No

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

Title of the study  | Duration  | PURPOSE OF THE STUDY | PARTNERS (INSTITUTIONS) | COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
--- | --- | --- | --- | ---
complement fixation assay | 1 week | training | Irish Equine Centre, Naas, IRELAND | IRELAND
TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?
Yes

IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:

We collected data on 13 outbreaks of EHV-1/EHM in Germany, Denmark and Sweden. We also collected data on a large-scale EHV-1 abortion outbreak.

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?
Yes

IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:

We published basic information on outbreak characteristics including risk factors for EHM following EHV-1 infection. (Klouth E. et al. 2021 (Pathogens), and 2022 (Viruses).

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:

Klouth, Zablotski, Goehring: Apparent Breed Predilection for Equid Herpesvirus-1-Associated Myeloencephalopathy (EHM) in a Multiple-Breed Herd (Pathogens 2021, 10, 535); Klouth, Zablotski, Petersen, de Bruijn, Gröndahl, Müller, Goehring Epidemiological Aspects of Equid Herpesvirus-Associated Myeloencephalopathy (EHM) Outbreaks. (Viruses 2022, 14, 2576)

b) International conferences:

Leipziger Tieraerztetag 2019; British Equine Veterinary Association conference 2021;

c) National conferences:

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

Podcast on EHV-1 Vaccination - how do they work? sponsored by Zoetis - Germany.

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?
Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAVDL</td>
<td>UKVDL accreditation.jpg</td>
</tr>
</tbody>
</table>

19. Is your quality management system accredited?
Yes

<table>
<thead>
<tr>
<th>Test for which your laboratory is accredited</th>
<th>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR</td>
<td>American Association of Veterinary Diagnostic Laboratories</td>
</tr>
</tbody>
</table>

20. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?
Yes

containment as directed by IBC protocols

**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. Are you a member of a network of WOAH Reference Laboratories designated for the same pathogen?
No

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?
Yes

<table>
<thead>
<tr>
<th>TITLE OF THE PROJECT OR CONTRACT</th>
<th>SCOPE</th>
<th>NAME(S) OF RELEVANT WOAH REFERENCE LABORATORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>terrestrial manual preliminary results</td>
<td>1-we currently update the terrestrial manual. 2-we looked at preliminary project results on</td>
<td>Dr. Ann Cullinane, Irish Equine Centre, Naas, WOAH Reference Laboratory Reports Activities 2022</td>
</tr>
</tbody>
</table>
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:
Yes
I frequently consult on outbreak management and intervention, and on individual patient rehabilitation plans.