WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted: 25 avril 2023 15:22

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:

Chronic wasting disease

Address of laboratory:

3851 Fallowfield Road P.O. Box 11300 Station H, Nepean, Ontario K2H 8P9 CANADA

Tel.:

+1-343 212 02 72

E-mail address:

gordon.mitchell@inspection.gc.ca

Website:

www.inspection.gc.ca

Name (including Title of Head of Laboratory (Responsible Official)):

Dr. Abed Harchaoui, Executive Director, Ontario Laboratories Network, Canadian Food Inspection Agency

Name (including Title and Position) of WOAH Reference Expert:

Dr. Gordon Mitchell, Head, National and OIE Reference Laboratory for Scrapie and CWD

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

Governmental

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>Nationally Internationally</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td>Nationally Internationally</td>
</tr>
<tr>
<td>PrP ELISA</td>
<td>No</td>
<td>4181</td>
</tr>
<tr>
<td>PrP Immunohistochemistry</td>
<td></td>
<td>0</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?
Yes

<table>
<thead>
<tr>
<th>TYPE OF REAGENT AVAILABLE</th>
<th>RELATED DIAGNOSTIC TEST</th>
<th>PRODUCED/ PROVIDE</th>
<th>AMOUNT SUPPLIED NATIONALLY (ML, MG)</th>
<th>AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)</th>
<th>NO. OF RECIPIENT WOAH MEMBER COUNTRIES</th>
<th>COUNTRY OF RECIPIENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue Homogenates</td>
<td>PrP ELISA/Western Blot</td>
<td>Provide</td>
<td>Multiple</td>
<td>Multiple</td>
<td>2</td>
<td>America</td>
</tr>
</tbody>
</table>

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?
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

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?
Yes

<table>
<thead>
<tr>
<th>NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY</th>
<th>PURPOSE</th>
<th>HOW THE ADVICE WAS PROVIDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNITED STATES OF AMERICA</td>
<td>Genetics and surveillance testing</td>
<td>Email</td>
</tr>
</tbody>
</table>
**TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?

Yes

<table>
<thead>
<tr>
<th>Title of the study</th>
<th>Duration</th>
<th>PURPOSE OF THE STUDY</th>
<th>PARTNERS (INSTITUTIONS)</th>
<th>WOAH MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigating cross-species transmission of CWD</td>
<td>Ongoing</td>
<td>Characterizing transmission of Korean and Canadian CWD Isolates</td>
<td>Animal and Plant Quarantine Agency</td>
<td>KOREA (REP. OF)</td>
</tr>
<tr>
<td>Characterization of CWD Isolates</td>
<td>Ongoing</td>
<td>Investigating variability between CWD isolates in Europe and North America</td>
<td>Norwegian Veterinary Institute, Colorado State University</td>
<td>FRANCE GERMANY ITALY NORWAY SPAIN UNITED KINGDOM UNITED STATES OF AMERICA</td>
</tr>
<tr>
<td>Genetic approaches and tools to prevent, control, and eradicate TSEs</td>
<td>Ongoing</td>
<td>Developing genetic and diagnostic tools to manage CWD</td>
<td>Washington State University, USDA</td>
<td>UNITED STATES OF AMERICA</td>
</tr>
</tbody>
</table>

**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:**

Data resulting from all surveillance and disease investigation-associated diagnostic testing is collected.

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:**

Case data from all disease positive herds or regions is collated and communicated to regulatory agencies.

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:

1

b) International conferences:

1


c) National conferences:

0

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

1

Information on CWD in Canada: https://inspection.canada.ca/animal-health/terrestrial-animals/diseases/reportable/cwd/eng/1330143462380/1330143991594

**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>ISO 17025</td>
<td>Accreditation Certificate.pdf</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>PrP Immunohistochemistry</td>
<td>Standards Council of Canada (SCC)</td>
</tr>
<tr>
<td>PrP ELISA</td>
<td>SCC</td>
</tr>
<tr>
<td>PrP Western blot</td>
<td>SCC</td>
</tr>
<tr>
<td>PRNP Genotyping</td>
<td>SCC</td>
</tr>
</tbody>
</table>

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?
Yes
**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>Investigating cross-species transmission of CWD</td>
<td>Characterizing transmission of Korean and Canadian CWD Isolates</td>
<td>Animal and Plant Quarantine Agency, Republic of Korea</td>
</tr>
<tr>
<td>Collaborative framework concerning CWD reference laboratories</td>
<td>Advancing strategies to detect, control and characterize CWD</td>
<td>Norwegian Veterinary Institute</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?

Yes

<table>
<thead>
<tr>
<th>Purpose for inter-laboratory test comparisons</th>
<th>Role of your reference laboratory (organizer/participant)</th>
<th>No. participating laboratories</th>
<th>Region(s) of participating WOAH Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrP Immunohistochemistry proficiency</td>
<td>Organizer</td>
<td>3</td>
<td>America</td>
</tr>
<tr>
<td>PrP ELISA proficiency</td>
<td>Organizer</td>
<td>6</td>
<td>America</td>
</tr>
<tr>
<td>PRNP Genotyping proficiency</td>
<td>Organizer</td>
<td>2</td>
<td>America</td>
</tr>
</tbody>
</table>
28. Did your laboratory place expert consultants at the disposal of WOAH?
No

29. Additional comments regarding your report:
No