WOAH Reference Laboratory Reports Activities 2023
Activities in 2023
This report has been submitted: 28 juin 2024 18:21

Laboratory Information

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

Address of laboratory: Reference Laboratory for Leptospirosis, Amsterdam University Medical Center, Department of Medical Microbiology and Infection Prevention, Meibergdreef 39. 1105 AZ Amsterdam, The Netherlands

Tel.: +31205665431

E-mail address: p.ristow@amsterdamumc.nl

Website: https://leptospira.amsterdamumc.org/

Name (including Title) of Head of Laboratory (Responsible Official): Dr. Paula Carvalhal Lage von Buettner Ristow

Name (including Title and Position) of WOAH Reference Expert: Dr. Paula Carvalhal Lage von Buettner Ristow

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>Microscopic Agglutination Test (MAT)</td>
<td>NATIONALLY 8</td>
<td>INTERNATIONALLY 0</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bacteriological culture</td>
<td>NATIONALLY 19</td>
<td>INTERNATIONALLY 0</td>
</tr>
<tr>
<td>Real-time PCR</td>
<td>NATIONALLY 19</td>
<td>INTERNATIONALLY 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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ARGENTINA, AUSTRALIA, BELGIUM,</td>
</tr>
<tr>
<td>Rabbit antisera anti-Leptospira</td>
<td>Microscopic Agglutination Test</td>
<td>PRODUCED/ PROVIDE</td>
<td>1 mL</td>
<td>166 mL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
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<td></td>
</tr>
<tr>
<td>Monoclonal antibodies anti-Leptospira</td>
<td>Microscopic Agglutination Test</td>
<td>PRODUCED/ PROVIDE</td>
<td>0,5 mL</td>
<td>14,5 mL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Strains</td>
<td>Microscopic Agglutination Test</td>
<td>PRODUCED/ PROVIDE</td>
<td>3 mL</td>
<td>175 mL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Culture media</td>
<td>Cultivating strains</td>
<td>PRODUCED/ PROVIDE</td>
<td>0,5 L</td>
<td>26,5 L</td>
<td>1</td>
<td></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?  
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
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?
Yes

<table>
<thead>
<tr>
<th>IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ongoing research collaboration on outbreaks of leptospirosis in Zoo animals</td>
</tr>
</tbody>
</table>

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:


b) International conferences:

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?
Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M178 Certificate English 20210208.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>Microscopic Agglutination Test</td>
<td>Dutch Accreditation Council</td>
</tr>
<tr>
<td>ELISA</td>
<td>Dutch Accreditation Council</td>
</tr>
<tr>
<td>PCR</td>
<td>Dutch Accreditation Council</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Culture</td>
<td>Dutch Accreditation Council</td>
</tr>
<tr>
<td>Typing</td>
<td>Dutch Accreditation Council</td>
</tr>
</tbody>
</table>

20. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?
Yes
Institutional biorisk procedures following national and international standards; also referenced in Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4

**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 pathogen?
No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
Yes

<table>
<thead>
<tr>
<th>PURPOSE OF THE PROFICIENCY TESTS</th>
<th>ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)</th>
<th>NO. PARTICIPANTS</th>
<th>PARTICIPATING WOAH REF. LABS/ ORGANISING WOAH REF. LAB.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT proficiency testing</td>
<td>Organiser and participant</td>
<td>2</td>
<td>Leptospira Research Lab ICAR-NIVEDI, India, Leptospirosis Reference Laboratory, Universisy Medical Center, Amsterdam, the Netherlands</td>
</tr>
</tbody>
</table>

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?
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>Name of the Test</th>
<th>WOAH Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessing laboratory performance and verifying the accuracy and reliability of test results</td>
<td>Organizer</td>
<td>91</td>
<td>MAT Proficiency Test</td>
<td>AUSTRALIA, AUSTRIA, BARBADOS, BELGIUM, BRAZIL, CANADA, CHINA (PEOPLE'S REP. OF), COLOMBIA, COSTA RICA, CROATIA, CZECH REPUBLIC, DENMARK, FRANCE, GERMANY, INDIA, INDONESIA, IRAN, ISRAEL, ITALY, MALAYSIA, MEXICO, NEW CALEDONIA, NEW ZEALAND, PHILIPPINES, POLAND, PORTUGAL, SERBIA, SLOVENIA, SPAIN, SRI LANKA, SWEDEN, SWITZERLAND, THAILAND, THE NETHERLANDS, TURKEY, UGANDA, UKRAINE, UNITED KINGDOM, UNITED STATES OF AMERICA, URUGUAY, VIETNAM,</td>
</tr>
</tbody>
</table>

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