WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted: 6 février 2023 06:03

Laboratory Information

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Swine streptococcosis |
| Address of laboratory: | No. 1 Weigang, Nanjing 210014 |
| Tel.: | 0086-18651836283 |
| E-mail address: | lucp@njau.edu.cn; yaohch@njau.edu.cn; wuzongfu@njau.edu.cn |
| Website: |  |
| Name (including Title) of Head of Laboratory (Responsible Official): | Prof. Chengping Lu |
| Name (including Title and Position) of WOAH Reference Expert: | Prof. Chengping Lu |
| Which of the following defines your laboratory? Check all that apply: | Research agency 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>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCR detection for Streptococcus suis</td>
<td>Yes</td>
<td>1651</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?  
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

**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>We collected epizootiological data of Streptococcus suis isolated from healthy or diseased pigs.</td>
</tr>
</tbody>
</table>

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?  
Yes
Streptococcus pasteurianus, an underreported opportunistic pathogen, is considered an increasingly recognized cause of meningitis and bacteremia in many animals and humans worldwide. We first isolated an S. pasteurianus strain from a newly weaned piglet's brain with meningitis, and confirmed that it is a new pathogen of swine streptococcosis.

As one of the main pathogenic serotypes causing clinical disease in pigs, we found the pathogenic potential of Streptococcus suis serotype 8 cannot be ignored and provided valuable information for SS8 surveillance.

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:

3

1. Zhaoying Liu, Qiuhua Xu, Pujuan Liang, Zeren Peng, Huochun Yao, Han Zheng*, Zongfu Wu*. The characteristics of population structure and antimicrobial resistance of Streptococcus suis serotype 8, a non-negligible pathotype. Transboundary and Emerging Diseases, 2022, 69:e2495–e2505

b) International conferences:

0

c) National conferences:

0

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

0

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?
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>
</table>

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

See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)

**TOR9: SCIENTIFIC MEETINGS**

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

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

**TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES**

Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?

Are you a member of a network of WOAH Reference Laboratories designated for the same pathogen?

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

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?

**TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING**

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**

Did your laboratory place expert consultants at the disposal of WOAH?
Yes

<table>
<thead>
<tr>
<th>KIND OF CONSULTANCY</th>
<th>Location</th>
<th>SUBJECT (FACULTATIVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>attendance at WOAH Commission</td>
<td></td>
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</tr>
<tr>
<td>meetings, ad hoc Group meetings,</td>
<td></td>
<td>review of</td>
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<tr>
<td>review of</td>
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</tbody>
</table>

WOAH Reference Laboratory Reports Activities 2022
WOAH Standards, responding to specific technical queries from WOAH, technical papers on diagnostic test procedures or vaccine production

29. Additional comments regarding your report:
No