

# OIE Reference Laboratory Reports Activities

## *Activities in 2019*

**This report has been submitted : 2020-01-24 12:08:00**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Q fever
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Krzysztof Niemczuk, DVM, PhD, ScD
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Krzysztof Niemczuk
<b>Which of the following defines your laboratory? Check all that apply:</b>	Governmental Research

**ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards**

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

Diagnostic Test	Indicated in OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
ELISA	YES	380	0
Direct diagnostic tests		Nationally	Internationally
real-time PCR	YES	92	0

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards. To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by the OIE?

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

**ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases**

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

**ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries**

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
TURKEY	Question about procedure Q fever control	The rules worked out in Poland in range of Q fever control were sent.
INDIA	Question about disinfectants for <i>Coxiella burnetii</i> and availability of antigens.	The information about milk pasteurisation and commercially available disinfectants were sent.

**ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations**

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

**ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases**

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:
21 cattle herds out of 142 tested were seropositive for <i>C. burnetii</i> .

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:
The information about positive results for <i>C. burnetii</i> were sent to Veterinary Inspection.

**13. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category)**

a) Articles published in peer-reviewed journals: 3

1. Szymańska-Czerwińska M., Jodełko A., Zaręba-Marchewka, Niemczuk K.: Shedding and genetic diversity of *Coxiella burnetii* in Polish dairy cattle. Plos One 2019, PLoS ONE 14(1): e0210244.

2. Szymańska-Czerwińska M., Jodełko A., Niemczuk K.: Occurrence of *Coxiella burnetii* in Polish dairy cattle herds. Comparative Immunology, Microbiology and Infectious 67, 2019, 101377.

3. Jodełko A., Szymańska-Czerwińska M., Kycko A., Niemczuk K.: Evaluation of the possibility of *C. burnetii* transmission by the alimentary route in a guinea pig model. J Vet Res 63, 311-315, 2019

b) International conferences: 3

1. Lecture Monika Szymańska-Czerwińska, Niemczuk Krzysztof, Agnieszka Jodełko „Q fever" on International Buiatric Congress in Pulawy, Poland (12-13 April).

2. Poster presentation Agnieszka Jodełko, Monika Szymańska-Czerwińska, Krzysztof Niemczuk „Sheeding of *Coxiella burnetii* in dairy cattle and possibility of transmission via alimentary route" on XIX Middle-European Buiatric Congress May 22-25, 2019, Lviv, Ukraine.

3. Poster presentation Monika Szymańska-Czerwińska, Jodełko Agnieszka, Zaręba-Marchewka Kinga, Niemczuk Krzysztof „Sheeding of *Coxiella burnetii* in dairy cattle and possibility of transmission via alimentary route" on The 16th International Symposium of the World Association of Veterinary Laboratory Diagnosticians 2019&OIE Seminar, 19-22 June 2019, Chiang Mai, Thailand

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 0

**ToR 7: To provide scientific and technical training for personnel from OIE Member Countries****To recommend the prescribed and alternative tests or vaccines as OIE Standards**

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

**ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned**

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
certificate of Quality management system	zakres.pdf
range of accreditation	certyfiakat akredytacji Nr AB 1090.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELIS test	Polish Center of Accreditation
real-time PCR	Polish Center of Accreditation

17. 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*)

**ToR 9: To organise and participate in scientific meetings on behalf of the OIE**

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
OIE Seminar	19-22 June 2019	Chiang Mai, Thailand	presenting poster	Shedding of <i>Coxiella burnetii</i> in dairy cattle and possibility of transmission via alimentary route

**ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results**

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

No

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Yes

Purpose of the proficiency tests: <sup>1</sup>	Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
Q fever serology with serum by ELISA confirmation of laboratory competence	participant	77	ANSES, France

<sup>1</sup> validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

**ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results**

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

No

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at:  
<http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

**ToR 12: To place expert consultants at the disposal of the OIE**

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report: