

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-15 20:12:16

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Vesicular stomatitis
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Website:	www.paho.org/en/panaftosa
Name (including Title) of Head of Laboratory (Responsible Official):	Ottorino Cosivi, Veterinarian, Director Pan American Center for Foot and Mouth Disease - PANAFTOSA-PAHO/WHO
Name (including Title and Position) of OIE Reference Expert:	Edviges Maristela Pituco, Veterinarian (PhD), Head of Reference Laboratory of Pan American Center for Foot and Mouth Disease - PANAFTOSA-PAHO/WHO
Which of the following defines your laboratory? Check all that apply:	Other: United Nations Agency

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			
-	-	-	-
Direct diagnostic tests			
Ag ELISA	yes	0	2

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?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Ag Typing ELISA	FMDV/VSV Antigen Typing	produced	non applicable	3500	5	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Viral seed	Viral Neutralisation Test	provide	non applicable	20	1	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

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?

Yes

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

No

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
ELISA - LPBE	It is under development.

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
ARGENTINA	Technical procedures on laboratory diagnostic	Technical advice at distance and in situ
ECUADOR	Technical procedures on laboratory diagnostic	Technical advice at distance
PARAGUAY	Technical procedures on laboratory diagnostic	Technical advice at distance
URUGUAY	Technical procedures on laboratory diagnostic	Technical advice at distance

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?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
VSV molecular epidemiology in Venezuela	4 years	Analyze distribution and evolution of VSV strains in Venezuela	INIA/Venezuela; LFDA-MG/Brazil	BRAZIL VENEZUELA

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:
The data were collected from all countries for South America.

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 47th Ordinary Meeting of the South American Commission for the fight of Foot-and-Mouth Disease (COSALFA 47) was held in August 27 and 28 as a virtual event. In the meeting was analysed the current FMD situation in South America according with the Hemispheric Program for the Eradication of FMD (PHEFA) Action plan 2011-2020. All the data collected regarding vesicular diseases were presented on COSALFA 47: http://www.panaftosa.org/cosalfa47/index.php?option=com_content&view=article&id=81&Itemid=78&lang=en

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: 0

b) International conferences: 3

Ex Officio Secretary's Report - Production Laboratory. Anna Paula Alvim - PANAFTOSA - OPS/OMS - COSALFA47 2020 - http://www.panaftosa.org/cosalfa47/dmdocuments/Presentacion-COSALFA47_AAAlvim.pdf

Status Report on the Programs for the Eradication of Foot-and-Mouth Disease, in South America and Panama, 2019 - Manuel Sánchez Vasquez - PANAFTOSA - OPS/OMS - COSALFA47 2020 - http://www.panaftosa.org/cosalfa47/dmdocuments/Presentacion-COSALFA47_ManuelSanchez.pdf

Presentation of the Biennial Technical Cooperation Plan of PANAFTOSA - Alejandro Rivera - PANAFTOSA - OPS/OMS - COSALFA47 2020 - http://www.panaftosa.org/cosalfa47/dmdocuments/Presentacion_COSALFA47-PlanBienal2020-2021.pdf

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 1

Manual de Investigação de Doença Vesicular, 1a Edição, Ministério da Agricultura, Pecuária e Abastecimento, 2020 - elaborated with the partnership of the Ministry of Agriculture, Livestock and Food Supply (MAPA), Panaftosa, and State Veterinary Services (SVE). Link:

<https://www.gov.br/agricultura/pt-br/assuntos/saude-animal-e-vegetal/saude-animal/programas-de-saude-animal/febre-aftosa/manualinvestigacaodoencavesicular.pdf>

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?

Yes

- a) Technical visits: 1
- b) Seminars: 6
- c) Hands-on training courses: 0
- d) Internships (>1 month): 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
c	Brazil (Acre)	45
c	Brazil (Maranhão)	53
c	Brazil (Mato Grosso do Sul)	105
c	Brazil (Rio Grande do Sul)	92
c	Brazil (Rondônia)	60
c	Brazil (Santa Catarina)	350
a	Argentina	15

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)
ABNT NBR ISO/IEC 17025:2017	CRL 1309 PANAFTOSA 170252017.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Virus neutralization test	CGCRE/INMETRO - Brazil

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?

No

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?

Yes

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?

No

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?

Yes

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

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Determining laboratory capability to conduct antibody/antigen detection test	18	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Determining capability of laboratories to conduct FMD antibody detection tests by neutralization tests	03	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

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?

Yes

Kind of consultancy	Location	Subject (facultative)
Collaboration in the revision of chapter 3.1.23 Vesicular Stomatitis of the Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019	Review at distance	Review and atualization of chapter 3.1.23 Vesicular Stomatitis to contribute to the harmonization of diagnostic methods for vesicular stomatitis.

25. Additional comments regarding your report:

The Pan American Foot-and-Mouth Disease Center (PANAFTOSA) is a specialized center of the Pan American Health Organization (PAHO), oriented towards international technical cooperation to all 52 PAHO member countries and territories in the Americas. Since its creation in 1951, it has been working on technical cooperation with countries, generating knowledge and tools to support actions to control and eradicate foot-and-mouth disease; in the development of vaccines and diagnostic methods, has been responsible since 1988 for coordinating the Hemispheric Program for the Eradication of Foot-and-Mouth Disease (PHEFA). In addition, in its

structure, it has the OIE / FAO Reference Laboratory for foot-and-mouth disease and VSV for the Americas regarding diagnosis, provides training, reference agents, and facilitates the exchange of technical information between laboratories.

During the 2020 pandemic, despite the fact that the work remained in person all the time, the offer of courses, training, and in-service training was affected. There was no request for in-service training by national laboratories. Some courses were offered, these being only theoretical in a virtual way, the practical part was postponed until after the pandemic or until it is safe for everyone to take the face-to-face course.