

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-19 21:00:44

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Vesicular stomatitis
Address of laboratory:	Av. Governador Leonel de Moura Brizola, 7778 25045-002 São Bento - Duque de Caxias Rio de Janeiro BRAZIL
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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: International Organization/ PANAFTOSA-PAHO/WHO

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)

No

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	Quantity enough to test 4725 samples (27 kits)	7	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Reference standard	Molecular biology	produced	non applicable	54 vials	6	<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
ECUADOR	Technical support	Technical advice at distance
VENEZUELA	Technical support	Technical advice at distance
COLOMBIA	Technical support	Technical advice at distance
BOLIVIA	Technical support	Technical advice at distance
MEXICO	Technical support	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	To understand the distribution of the different VS genetic groups in Venezuela	INSAI/Venezuela; LFDA- MG/Brazil	BRAZIL VENEZUELA
Epidemiological studies on vesicular stomatitis	4 years	To characterize the risk of clinical VS in Colombia	ICA/Colombia	COLOMBIA

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:

Every year Panaftosa receives data from different countries and helps them to analyze it epidemiologically aiming to guide the next actions against VSV in the context of the Plan of Action of each country. Panaftosa has an electronic system for epizootiological data collection: PANAFTOSA/PAHO completed the development of the Interface for Official Veterinary Surveillance (IVVO), an online information system to support official veterinary (passive and active) of animal diseases surveillance at a national and regional level, which was launched in 2021 and is working to engage the countries in its utilization. Support to countries in the design and implementation of epidemiological studies for VSV: PANAFTOSA/PAHO assisted Colombia and Venezuela in the design of VSV studies.

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 data are disseminated at the annual meeting with all the countries members of Cosalfa. In the annual meeting report (COSALFA), the data of surveillance of vesicular disease (senecavirus and VSV) are included. In the meeting was analyzed the current VSV situation in South America. All data collected regarding vesicular diseases were presented on COSALFA 48: <https://www.paho.org/es/panaftosa/cosalfa/cosalfa-48>.

**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: 4

1. Edviges Maristela Pituco - PANAFTOSA - OPS/OMS - COSALFA 48. Activities developed by the OIE / FAO Reference Laboratory for foot-and-mouth disease and vesicular stomatitis - Online meeting via Zoom, host country Paraguay; 19 - 20 August 2020. <https://youtu.be/3V-7BcjMjp8> - Report of the ex officio secretariat <https://iris.paho.org/handle/10665.2/54787>

2. Anna Paula Alvim - PANAFTOSA - OPS/OMS - COSALFA 48. Development, production and distribution of reference material for FMD and VSV diagnosis (kits and reagents) - Online meeting via Zoom, host country Paraguay; 19 - 20 August 2020. https://www.paho.org/sites/default/files/cosalfa48-presentacion-informelaboratorioprod_0.pdf - Report of the ex officio secretariat <https://iris.paho.org/handle/10665.2/54787>

3. Manuel Sánchez Vasquez - PANAFTOSA - OPS/OMS - COSALFA 48. SITUATION REPORT FOOT-AND-MOUTH DISEASE in SOUTH AMERICA and PANAMA in 2020- Online meeting via Zoom, host country Paraguay; 19 - 20 August 2020. https://www.paho.org/sites/default/files/cosalfa48-presentacion-informesituacionfa_0.pdf - Report of the ex officio secretariat <https://iris.paho.org/handle/10665.2/54787>

4. Edviges Maristela Pituco - PANAFTOSA - OPS/OMS - SEMINARIO INTERNACIONAL PRE-COSALFA 48. Proficiency tests in the diagnosis of foot-and-mouth disease and vesicular stomatitis - Online meeting via Zoom, host country Paraguay; 17-18 August 2020. INFORME DEL SEMINARIO INTERNACIONAL PRE-COSALFA 48 https://www.paho.org/sites/default/files/cosalfa48-panaftosa-informe-seminario_0.pdf

c) National conferences: 3

1. Edviges Maristela Pituco - PANAFTOSA - OPS/OMS - PAPEL DO PANAFTOSA COMO CENTRO DE REFERÊNCIA DA OIE PARA OS PROGRAMAS SANITÁRIOS /MAPA – Profissionais do MAPA/Brasil

2. Edviges Maristela Pituco - PANAFTOSA - OPS/OMS - Talking about Foot-and-Mouth Disease: From Diagnosis to Notification”, promoted by the Animal Health Defense of the State of Pará (ADEPARÁ) (YouTube)/Veterinarians

and Producers <https://www.youtube.com/watch?v=rtf3sSua1IY&t=84s>

3. Edviges Maristela Pituco - PANAFTOSA - OPS/OMS - VESICULAR DISEASES IN THE AMAZON: SITUATION OF SENECAVIRUS A (SVA) AND DISEASE HISTORY (YouTube)/Veterinarians and producers: <https://www.youtube.com/watch?v=nilOhWvw7cY>

d) Other:

(Provide website address or link to appropriate information) 1

Panaftosa disseminates information by many methods, like events, podcasts, videos sites, etc.

Panaftosa distributes electronic guides, resolutions, documents, and other materials regarding the foot-and-mouth disease on its website: <https://www.paho.org/en>

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: 0

b) Seminars: 1669

c) Hands-on training courses: 4016

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	2190
c	Brazil	715
c	Brazil	1111
b	South America	910
b	South America	729
b	Ecuador	30

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	Certificado_CRL 1309 PANAFTOSA 28-06-21.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?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
FMDV and VSV virus structural proteins	organiser	12	APHIS/USA
FMDV and VSV molecular biology tests	organiser	16	APHIS/USA
FMDV and VSV antigen detection tests	organiser	15	APHIS/USA

¹ 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?

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
FMD and VSV virus structural proteins (organiser)	12	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
FMD and VSV molecular biology tests(organiser)	16	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
FMDV and VSV antigen detection tests(organiser)	15	<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)
Edviges Maristela Pituco	Virtual	Review of OIE Standards

25. Additional comments regarding your report:

ToR 7 - Details of hands-on training courses - e-TRAINING IN ATTENDING TO SUSPECTED VESICULAR DISEASE - Foot and Mouth Disease: Surveillance and Investigation Procedures of Vesicular Disease. This courses are offered in Portuguese and Spanish.