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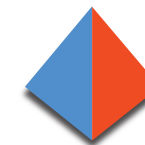


PROGRESS ON THE ACTIVITIES & WORKPLAN FOR WELNET FMD



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GF-TADs

GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



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Laboratory Network for West Eurasia:

WELNET FMD



■ ***Scope***

It was recommended establish a laboratory network under the West Eurasia Roadmap Organization in the 1st Regional Roadmap Workshop held on Shiraz, Iran in 2008.

■ Main ***Objective***

Promote better communication, improvement early detection, diagnostic capacity and performance of laboratories and also implementing a system for proficiency testing

OBJECTIVE of the WENET FMD

These objectives were agreed *in 1st Laboratory and Epidemiology Network Meeting in 2017*

- *Share available **laboratory information** on the regional occurrence and spread of FMDV;*
- *Provide recommendations on **selection of vaccine strains** and engage in **evaluation of vaccines quality**;*
- *Harmonise FMD diagnostic procedures through participation in **proficiency tests**;*
- *Prepare and exchange reference **diagnostic reagents**;*
- *Advocate for submission of samples for diagnosis or confirmation to reference laboratories;*
- *Encourage accreditation of diagnostic procedures by national or international accreditation body;*
- *Promote the implementation of the international lab biosafety and biosecurity standards;*
- *Increase competency of national laboratories and identify constraints and to propose solutions.*

TERMS OF REFERENCE (TOR) of the WENET FMD

1. Produces diagnostic reagents, SOPs and protocols
2. Provides training to national laboratories using train the trainers approach
3. Coordinates proficiency testing for the region (limited to screening tests)
4. Receives and processes samples for diagnostics from countries of the region
5. Ships samples to FAO/OIE reference centers for full characterization
6. Ensures and assist in regional procurement of essential diagnostic reagents for emergency release
7. Participates in regional laboratory network activities (potential leader)
8. Links with the regional epidemiology network

WELNET FMD ACTIVITIES

Developing Protocol on Sample Submission

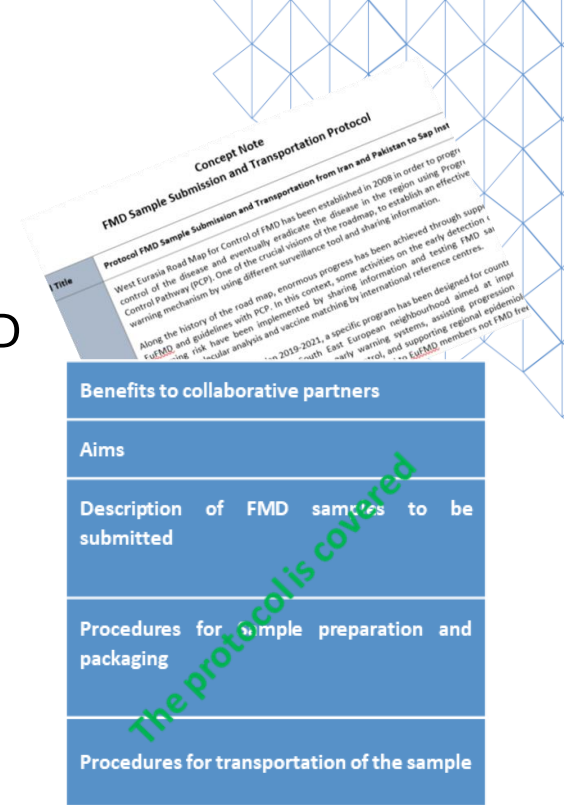
- A protocol on the FMD Sample Submission was developed by ŞAP Institute and EuFMD

- Objective:

- a. Description of FMD samples to be submitted
- b. Procedures for Sample preparation and packaging
- c. Procedures for transportation of the sample
- d. Definition of diagnostic methods to be performed for submitted samples
- e. Manner and timeline of the reporting

- **Benefit and advantage for the member countries in WEA**

1. Practical solutions to overcome the difficulties of IATA rules
2. Built up diagnosis capacities in the collaborated countries,
3. Enhance opportunity of sharing information in favour of detection of the risk,
4. Creating an early warning mechanism by diagnosis the sample in real time concept
5. Obtain valuable information and data for identifying of suitable vaccine to use in the region
6. Launched system will be maintained developing and improving of the national control strategy in favour of eradication of the disease
7. Reduce the risk to Europe from Neighborhood of West Eurasia



WELNET FMD ACTIVITIES

RESULTS OF SAMPLES SUBMITTED BY IRAQ

Country of origin	n (samples)	Results by RT-rT Multiplex/conventional PCR and Ag Detection ELISA for serotyping of Isolates collected from Iraq							
		Serotype O	Serotype A	Serotype Asia-1	Serotype SAT1	Serotype SAT2	Serotype SAT3	PCR (+)	No virus detected
IRAQ	6	2	ND	ND	4	ND	ND	ND	0

Iranian No	Lab. No	Serotype	Topotype
L26	IRQ25/1	SAT1	Topotype I
L29	IRQ25/2	SAT1	Topotype I
L43	IRQ25/3	SAT1	Topotype I
L57	IRQ25/4	O	O/ME-SA/SA-2018
L59	IRQ25/5	O	O/ME-SA/SA-2018
L66	IRQ25/6	SAT1	Topotype I

Order	LOCATION	SAMPLE ID NUMBER	SPECIES	SAMPLES	RECEIV. DATE	SEROTYPE
1	Irak-Bağdat-Ger Al Nadaf	L26	NI	TOUNGE EPITHELIUM	15.05.2025	SAT1
2	Irak-Bağdat-Al Whdah	L29	NI	TOUNGE EPITHELIUM	15.05.2025	SAT1
3	Irak-Babil-Al Effar	L43	NI	TOUNGE EPITHELIUM	15.05.2025	SAT1
4	Irak-Basra-Abu Kaseeb	L57	NI	TOUNGE EPITHELIUM	15.05.2025	O
5	Irak-Basra-Al Mdena	L59	NI	TOUNGE EPITHELIUM	15.05.2025	O
6	Irak-Bağdat -El Fodilya	L66	NI	TOUNGE EPITHELIUM	15.05.2025	SAT1

VNT r ₁ RESULTS					
		Field Isolate			
		IRQ L26	IRQ L66	IRQ L57	IRQ L59
Vaccines	O/MESA/SA2018 /OTUR24			0,15	0,23
	O/Panasiall/OTUR07			0,52	0,58
	O1 Manisa			0,56	0,54
	SAT1/BOT1/77	Pending**	Pending**		

WELNET FMD ACTIVITIES

RESULTS OF SAMPLES SUBMITTED BY SYRIA

Country of origin	n (samples)	Results by RT-rT Multiplex/conventional PCR and Ag Detection ELISA for serotyping of Isolates collected from Syria							
		Serotype O	Serotype A	Serotype Asia-1	Serotype SAT1	Serotype SAT2	Serotype SAT3	PCR (+)	No virus detected
IRAQ	9	6	ND	ND	ND	ND	ND	ND	2

No	Lab. No	Serotype	Topotype
	1	O	O/ME-SA/SA-2018
	2	O	O/ME-SA/SA-2018
	3	O	O/ME-SA/SA-2018
	4	O	O/ME-SA/SA-2018
	5	O	O/ME-SA/SA-2018
	6	O	O/ME-SA/SA-2018

Order	LOCATION	SAMPLE ID NUMBER	SPECIES	SAMPLES	RECEIV. DATE	SEROTYPE
1	Suriye-Dear El Zour-Al buserah-Al Shuhel	NI	Cattle	TOUNGE EPITHELIUM	13.05.2025	O
2	Suriye-Dear El Zour-Al buserah-Al Shuhel	NI	Cattle	TOUNGE EPITHELIUM	13.05.2025	O
3	Suriye-Dear El Zour-Al buserah-Zeban	NI	Cattle	TOUNGE EPITHELIUM	13.05.2025	O
4	Suriye-Dear El Zour-Al buserah-Zeban	NI	Cattle	TOUNGE EPITHELIUM	13.05.2025	O
5	Suriye-Dear El Zour-Al buserah-Al Shuhel	NI	Cattle	TOUNGE EPITHELIUM	13.05.2025	O
6	Suriye-Dear El Zour-Al buserah-Al Shuhel	NI	Cattle	TOUNGE EPITHELIUM	13.05.2025	O
7	Suriye	NI	NI	Blood	13.05.2025	Destroyed
8	Suriye-Hama-Jbrin	NI	NI	Saliva	13.05.2025	VND
9	Suriye-Hama-Jbrin	NI	NI	Saliva	13.05.2025	VND

VNT r ₁ RESULTS					
Vaccines		Field Isolate			
		IRQ L26	IRQ L66	SYRIA1	SYRIA2
		O/MESA/SA2018/OTUR24		0,25	0,20
		O/Panasiall/OTUR07		0,6	0,9
		O1 Manisa		0,62	1,0
	SAT1/BOT1/77	Pending**	Pending**		

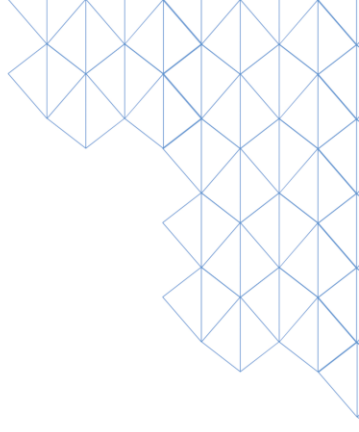
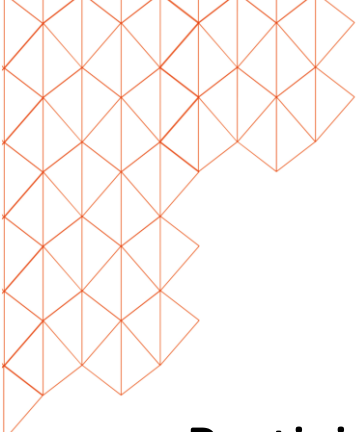
WELNET FMD (LAB NETWORK) ACTIVITIES

PROFICIENCY TESTING SCHEME

- Country candidate for membership to EC were participated ANSES PTS program
- Remained are participated to The Pirbright Institute
- Cost covered by EC and EuFMD

TRAINING ACTIVITIES

- The Pirbright Institute and ANSES have conducted training on the diagnosis for FAST that they are available for labs in the WE
- Online training/workshop/webinar have been done by EuFMD
- e-learning platform is available on diagnosis of FMD conducted by EuFMD
- Lab training opportunity is available at Şap Institute for lab in the region



WELNET FMD (LAB NETWORK) ACTIVITIES

-the other relevant activities-

- Participate to Group of Vaccine&Vaccination Advisory (GVA)
- Provide contribution by supplying data and information to a regional and collaborative initiative, Statement of Intention (Sol)
- Participation and provide advise to the Group for Vaccination Advice, Guidance and Consultation for SEEN countries
- Provide laboratory support for Small scale immunogenicity studies (SSIS) to assess FMD vaccines
 - Contribution of design of study and sampling strategy
 - Interpretation/analysis of the results
- Regional cooperation for the prevention and control of Foot-and-mouth And Similar Transboundary (FAST) animal diseases, between Turkey, Islamic Republic of Iran, Pakistan, Iraq and the EuFMD
- Work together with Epi-Network for risk assessment and enhance of control capacity for MS
- Participation to WOA/FAO Reference Laboratory Network Annual meeting

FUTURE WORKPLAN



Based on TERMS of REFERENCE for WELNET FMD

1. Diagnostic reagents, SOPs and protocols and Provides training to national laboratories using train the trainers approach

- The ŞAP Institute is ready to provide all kind of laboratory diagnosis training as charge of free
- Help on providing some antisera and antigen for diagnosis methods

2. *Receives and processes samples for diagnostics from countries of the region_***CREATING EARLY WARNING SYSTEM**

- Through the protocol, The Şap Institute proposes sample submission from MS in favour of early detection
- At least two times a year a set of FMD samples from suspected
- Samples can be delivered from BIP from cross border countries
- Provide serotyping and genotyping results in a week and couple weeks respectively
- Some of samples also tested for vaccine matching
- Provide a final report

FUTURE WORKPLAN FOR 2024 and 2025 (2)

3. Ensures and assist in regional procurement of essential diagnostic reagents for emergency release

In case of emergency situation, delivering of diagnostic kits or reagents will be organized like last year for SAT2

- EuFMD or FAO diagnostic bank will be used depend on the condition
- Based on availability, The Şap Institute will also provide some ELISA reagents

4. Participates in regional laboratory network activities

5. Continued following up participation of MS to PTS every year

5. Continued participation to WOA/FAO Reference Laboratory Network Annual meeting

As representative of WELNET FMD, it will be participated the network meeting and preparing required report including submitting questionnaire

6. To contribute early detection trough the vision of WELNETFMD, it will be continued participation of relevant meetings and workshops under the EuFMD workplan

- GVA meeting two times a year
- Quarterpartite collaboration meeting and Sol meeting
- Providing FAST report
- Conduct Online Field Investigation Training Course (FITc) as Turkish language through EuFMD elearning platform
 - 8th Edition FITc will be conducted next year
 - Not identified date yet

KEY MESSAGES

- Incursion of three different serotypes of FMDV (O/ME-SA /SA2018, SAT1 and SAT2) into the region shows that importance of establishment of early detection in the region is still crucial
- Laboratory capacity building is still a big gap in the region in order to detection of circulated virus and identifying of diversity of virus
- Lack of capacity for vaccine matching timely is vital for selection of vaccine
- Sample submission protocol should be considered as a toll for this early detection
- Member nations countries should be supported for sample submission
 - in favour of early detection
 - and prompt action to emergency response



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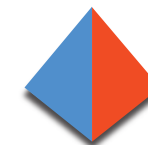


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Thank you very much for your attention!

- **Acknowledges**
 - **The Şap Institute**
 - **General Directorate for Livestock(GDL)**
 - **EuFMD**



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