



World Organisation
for Animal Health
Founded as OIE



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SEACFMD Laboratory Network Meeting



Current FMD Laboratory Activities in [MYANMAR]

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Director

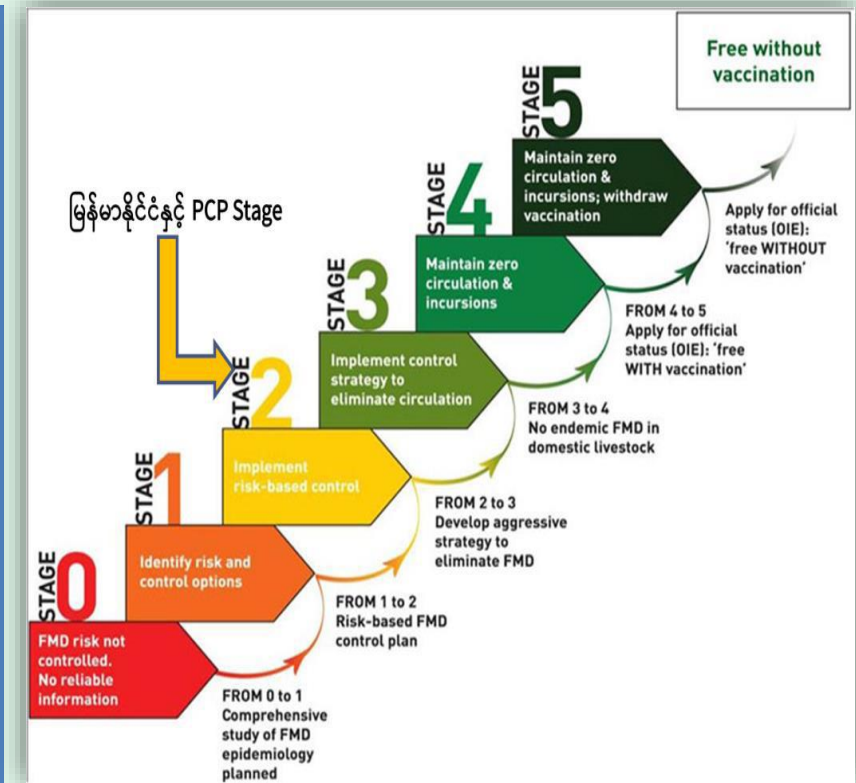
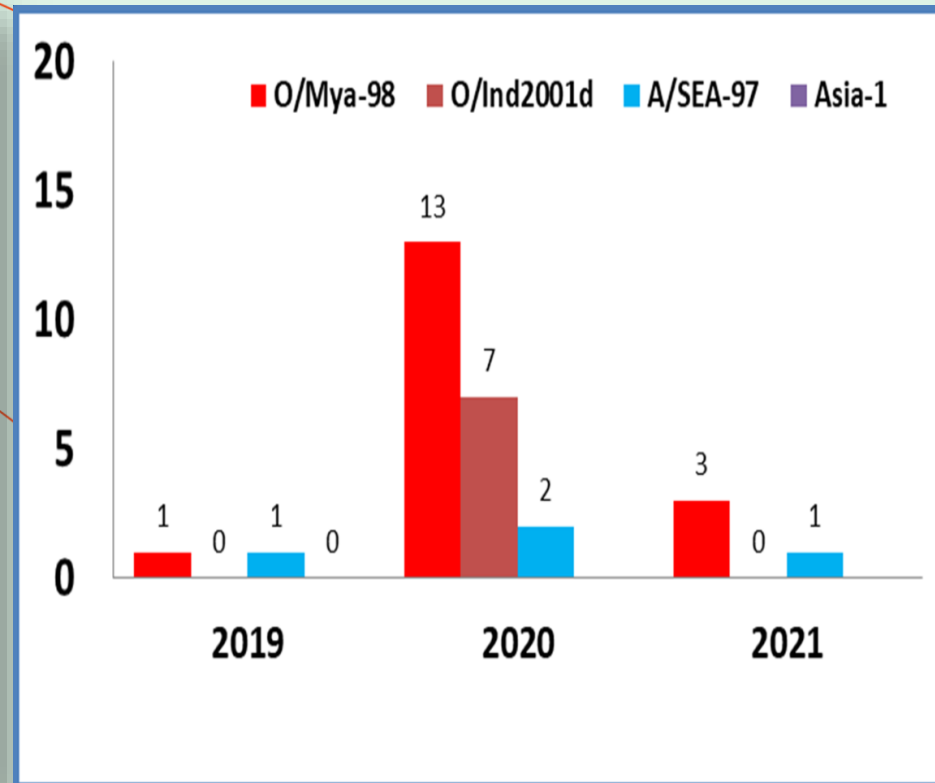
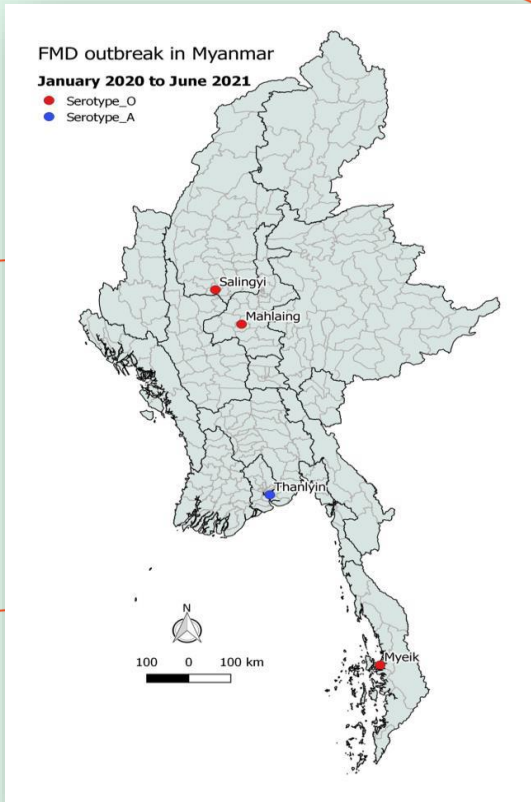
24-25 October 2023
Lanzhou, China



BRIEF FMD SITUATION :

describe briefly FMD situation in 2021-2023

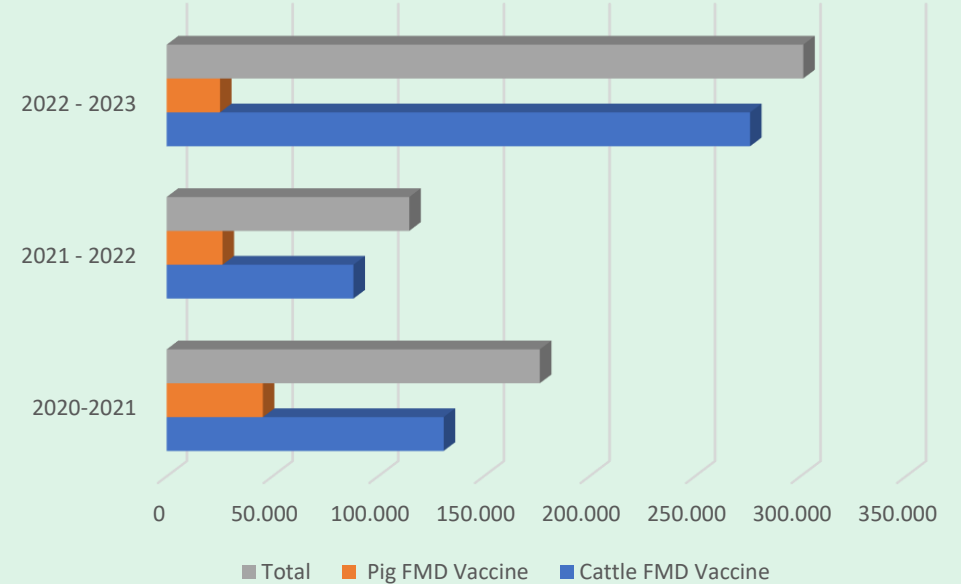
- There were 4 outbreaks from January 2021 to Dec 2021, of which there are 3 O-type and 1 A-type
- No reported FMD in 2022 and 2023 until September.
- Currently Myanmar is PCP Stage- 2. Target in December 2025 is PCP stage -3.





BRIEF FMD SITUATION : Local FMD Vaccine Production (Monovalent Type O)

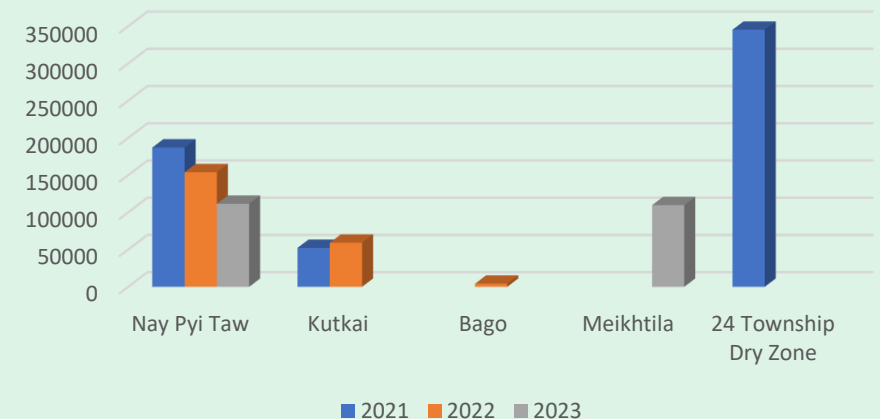
Year	Cattle FMD Vaccine	Pig FMD Vaccine	Total
2020-2021	131,040	45,480	176,520
2021 - 2022	88,350	26,400	114,750
2022 - 2023	276,150	25,200	301,350



BRIEF FMD SITUATION : Local FMD Monovalent Type O and Vaccination Campaign_ FMD Disease Control Zone)

	Nay Pyi Taw	Kutkai	Bago	Meikhtila	24 Township Dry Zone
2021	187161	52343			345361
2022	153954	59232	4179		
2023	111514			109751	

FMD Vaccination Campaign Using Monovalent Type O and OIE trivalent (2021)





Description of FMD active surveillance activities over the past 3 years:

Year	Number of samples received at National Laboratory	Number of samples tested	No. of serotype O viruses	No. of serotype A viruses	No. of serotype Asia 1
2021	5011	4054	329	-	-
2022	8701	8620	565	-	-
2023	1401	1374	886	-	-
Total	15113	14048	1780	-	-

No	Years	Shwemyo FMD Diagnostic Lab				Remark
		NSP-ELISA	LP-ELISA	RT-PCR	Ag-ELISA	
1	2020-2021	2210	637	7	4	
2	2021-2022	2991	190	3	9	
3	2022-2023	8055	565	43	-	
	Total	13256	1392	53	13	



FMD Virus characterization (serotyping and genotyping) result:

Year	Number of samples received at National Laboratory	Number of samples tested	No. of serotype O viruses	No. of serotype A viruses	No. of serotype Asia 1
2021	13	13	3	1	-
2022	9	9	4	-	-
2023	5	5	-	-	-
Total	27	27	7		



FMD Virus characterization (serotyping and genotyping) result:

	Number of samples send to RRL and WRLFMD	O/ Mya-98	O/ PanAsia	O/ Cathay	O/ Ind2001e	A/ SEA-97	Asia 1
2021	4 (RRL)	3				1	
2022	0 (WRLFMD)	-	-	-	-	-	-
2023	16 (NIAH, Japan)	-	-	-	-	-	-
Total	20						

* Please specify the laboratory name like RRL/WRLFMD or name of Lab in bracket



Proficiency testing during the past 5 years

Type of test	Type of programme	Organiser	Participating date/year
NSP ELISA (PrioCHECK)	INTERLAB	Pak Chong (Thailand)	Dr.Su Hlaing Phyo (2019)
Antigen ELISA	INTERLAB	Pak Chong (Thailand)	Dr.Wint Yi Maung (2019)
RT-PCR	INTERLAB	Pak Chong (Thailand)	Dr.Wint Yi Maung (2019)



Qualification ISO/17045 or other

Framework	Assured Organisation	Participating date/year
Not Yet		

No:	Year	Post Vaccination Monitoring Activities
1	2021	Tatkon, Nay Pyi Taw Free Zone (Pilot Project for FMD Control Zone)
		Central Dry Zone (24 Townships 8 Round)
		Kutkai FMD free Zone
		Kutkai FMD Protection Zone
		Kutkai Control Zone
2	2022	Kutkai FMD free Zone
		Kutkai FMD Protection Zone
		Kutkai Control Zone
		Nay Pyi Taw FMD Control Zone Project
		Bago, FMD Control Zone Project



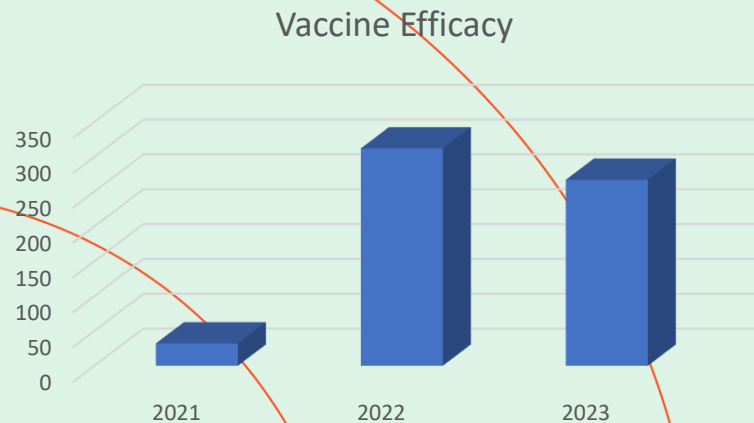
Post Vaccination Monitoring activities last 3 years:

No:	Year	Post Vaccination Monitoring Activities
3	2023	Tatkon, Nay Pyi Taw FMD Free Zone Project
		Kutkai FMD free Zone
		Kutkai FMD Protection Zone
		Kutkai Control Zone
		Nay Pyi Taw, FMD Control Zone Project
		Meikhtila, FMD Control Zone Project, Mandalay
		Bago, FMD Control Zone Project



FMD Research activities conducted in last 3 years:

Sr. No.	Year	Activities
	2019-2023	Cooperation with JICA under the Project for Institutional for Foot and Mouth Disease Control in Myanmar <ul style="list-style-type: none">- Vaccine trial in LBVD Cattle Research Farm- Conducted on High Vaccine quality control- Conducted on ELISA test validation
	2021-2023	FMD Vaccine Efficacy (Imported vaccine and local vaccine)
	2021-2023	LBVD Research farms (Pyinmabin, Thaphan, Nyaung Oo, Labutta, Mindat)





- Vaccination activities in the midst of COVID pandemic
- FMD prevailing strains
- Sustainable funding
- Shortage in human resources
- Routine vaccination
- Termination of OIE- FMD New Zealand Project
- Availability of vaccine to achieve targeted coverage
- Reporting and active surveillance is poor due to covid-19
- Reluctance of Farmer to use animal Identification



Progressive Zoning and Safer Trade

- Establishing Disease Free Zooning, Control Zone with vaccination practice in trade-based areas.
- Mutual recognition of DFZ, AQS with GACC (PR China)

Communication

- Using IT application (e.g Viber application, facebook),
- Rapid Response Team was set up including central, state/region, district, township, reporting

Vaccine

- 1 million doses vaccine plant will be encouraged to be completed.
- Vaccine procurement, FMD virus typing, molecular technology support from OIE

Surveillance

- Active and passive surveillance, Post Vaccination Monitoring, outbreak investigation

Traceability

- movement control upgrading microchip ear tagging for safer trade

Laboratory

- Capacity building, technical support from OIE or any donor collaboration



Thank You