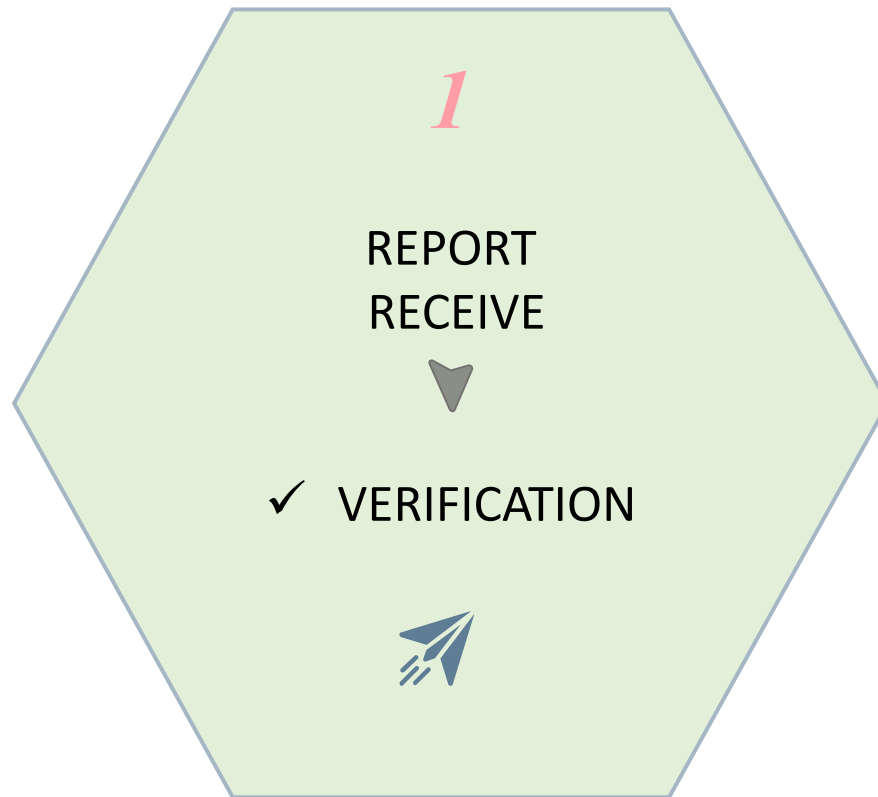




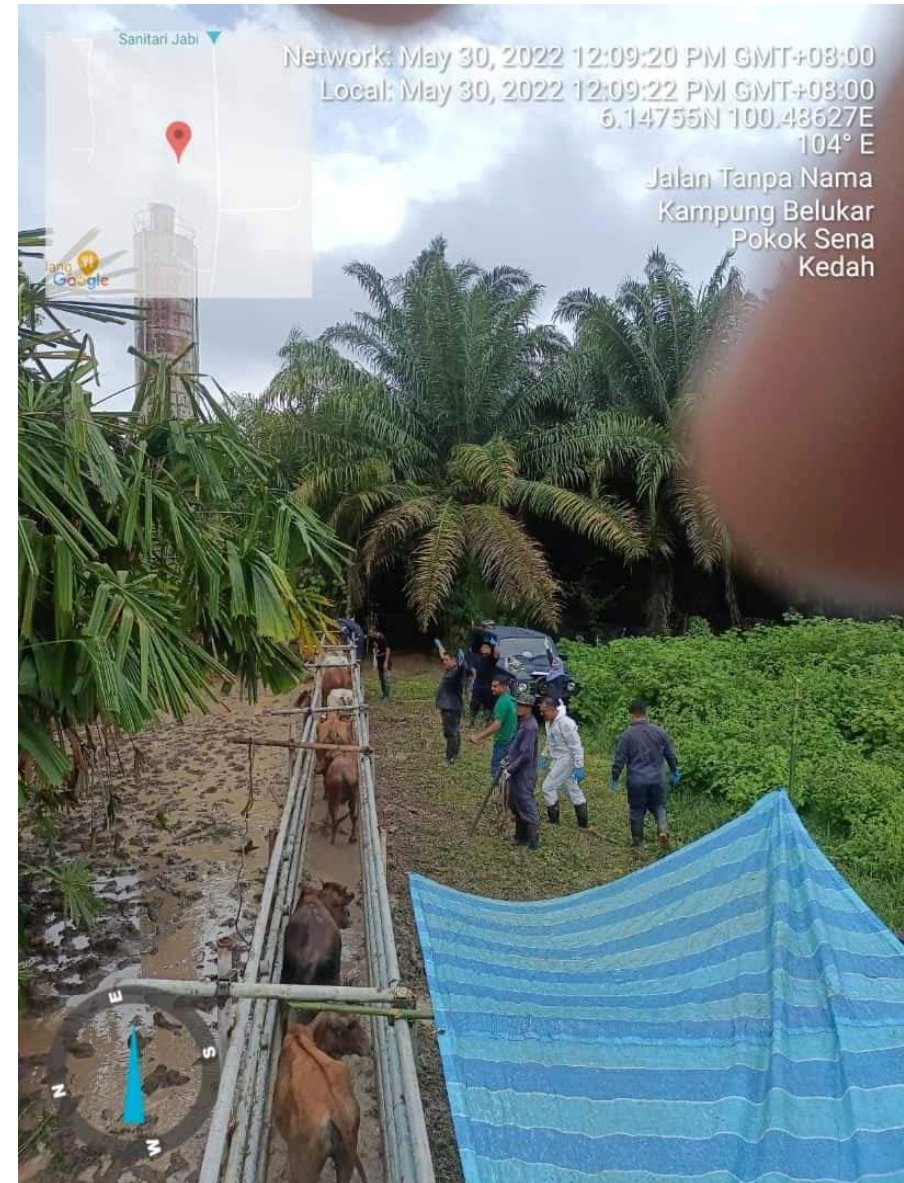
**FMD OUTBREAK INVESTIGATION AND RESPONSE IN AN ENDEMIC SETTING**  
**SEACFMD MEETING 09 June 2022**  
*Dr Jamaliah binti Senawi*

# FMD OUTBREAK INVESTIGATION AND RESPONSE



## *Reference*

Animal Act 1953 (2013)  
Compulsory reporting



# FMD OUTBREAK INVESTIGATION AND RESPONSE



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## INVESTIGATION



- ✓ FIELD INVESTIGATION
  - ✓ SAMPLING
- ✓ FORWARD & BACKWARD TRACING
  - ✓ DATA COLLECTION
- ✓ FMD INDEX CASE (INDEX PREMISE IDENTIFIED )
  - ✓ SUPPORTIVE TREATMENT

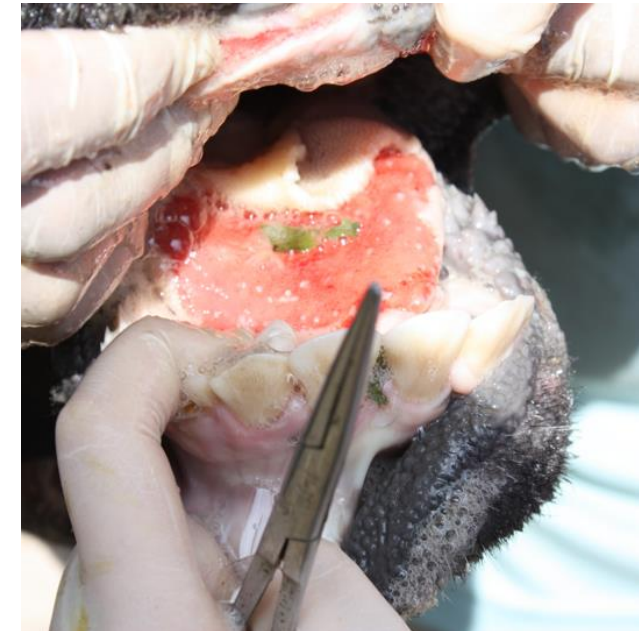


## *Reference*

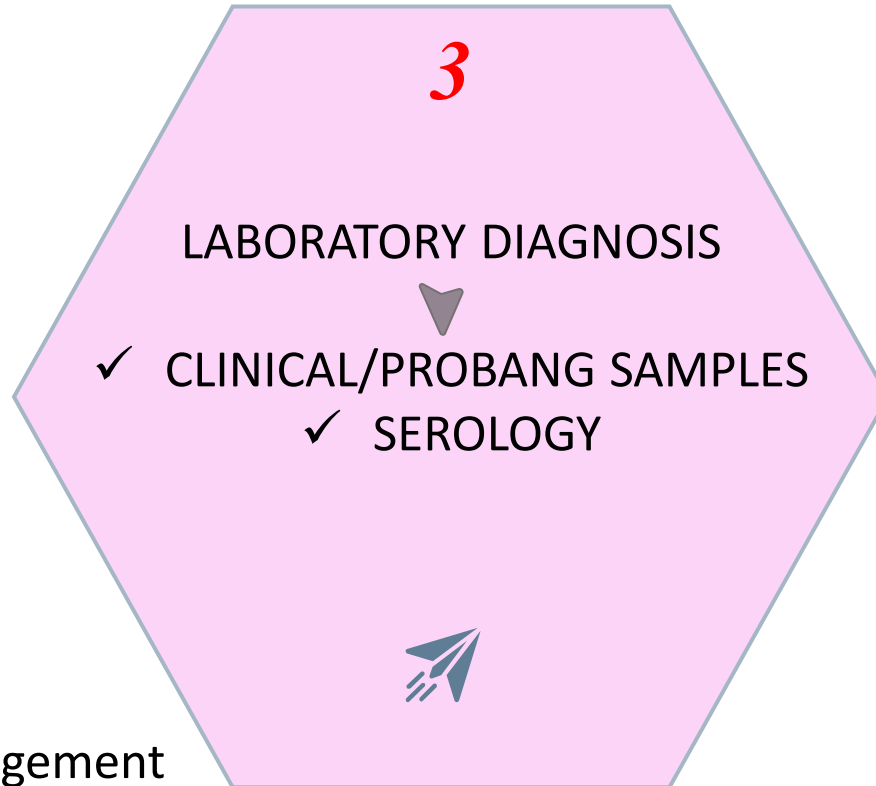
### Malaysia Veterinary Protocol: FMD

#### SOPs:

- Disease Investigation
- Index management
- Sampling guideline for FMD
- Animal Act 1953 (2013); Section 18
- Temporary movement restriction



# FMD OUTBREAK INVESTIGATION AND RESPONSE



## *Reference*

SOPs

FMD Sample management

Diagnostic tests:

- PCR
- Sequencing
- Virus isolation
- NSP ELISA





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RESPONSE: CONTROL



- ✓ DISEASE RISK COMMUNICATION
- ✓ FMD INDEX & 1KM RADIUS SURROUNDING (FMD INDEX AREA)
- ✓ 5 KM RADIUS SURROUNDING FMD INDEX: (BUFFER)
  - FMD VACCINATION
  - CLINICAL SURVEILLANCE



## *Reference*

Malaysia Veterinary Protocol: FMD  
Animal Act 1953 (2013); Section 19  
Movement restriction

SOPs:

- Isolation & Farm Quarantine
- Animal Disease Crisis Management
- Vaccination
- Case file management
- Public Awareness

# FMD OUTBREAK INVESTIGATION AND RESPONSE



## *Reference*

SOPs:  
Disinfection

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DISINFECTION



- ✓ INDEX PREMIS
- ✓ PERSONNEL
- ✓ FOMITE





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## DATA ANALYSIS



- ✓ OUTBREAK DATA:
  - SPATIAL DATA
  - TEMPORAL DATA
- ✓ VACCINATION DATA
- ✓ SUSCEPTIBLE ANIMAL DATA
  - ✓ MOVEMENT DATA
- ✓ VALUE CHAIN ANALYSIS DATA

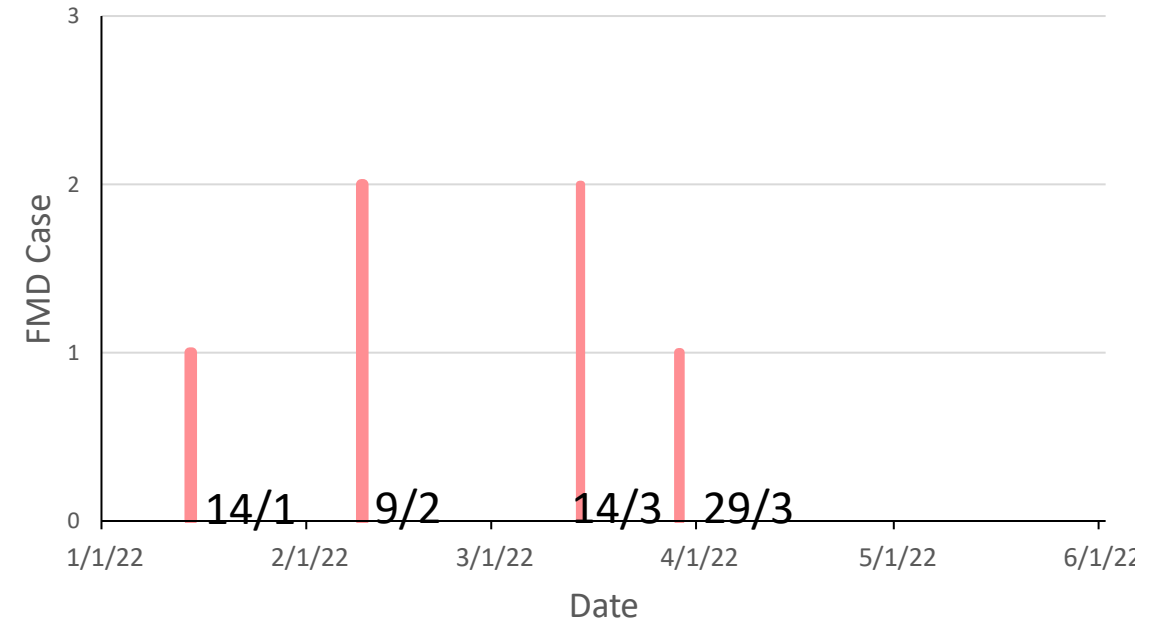
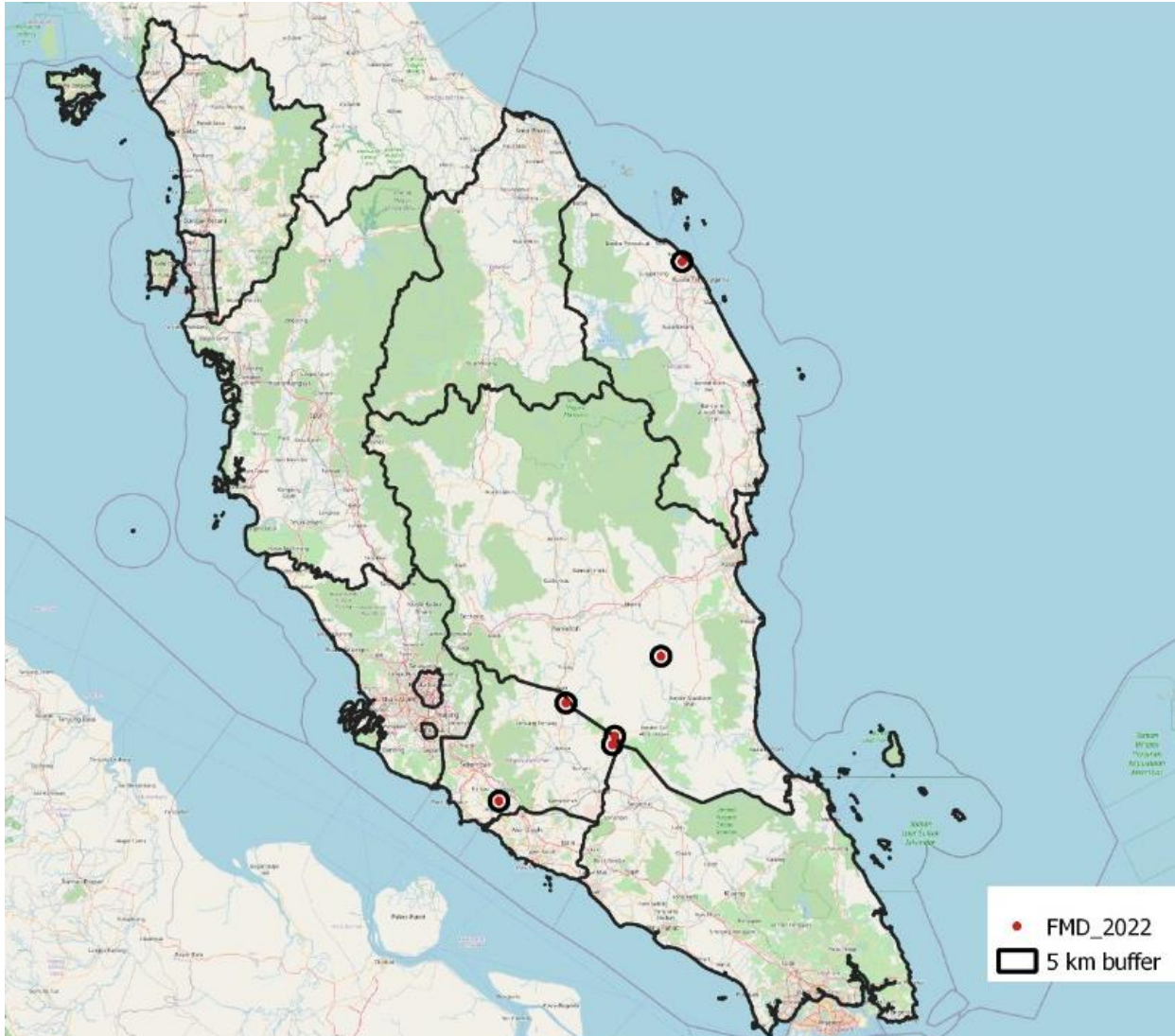


## *Reference*

Malaysia Veterinary Protocol: FMD  
SOPs:

- Epidemiological study
- Risk analysis

# FMD OUTBREAK 2022: SPATIAL & TEMPORAL DISTRIBUTION



6/6 cases :Beef cattle, late vaccination  
3/6 cases: rear under palm oil plantation  
6/6 cases: FMDV serotype O  
4/6 cases: O/Ind2001e



*Terima Kasih*



*Thank you !!*