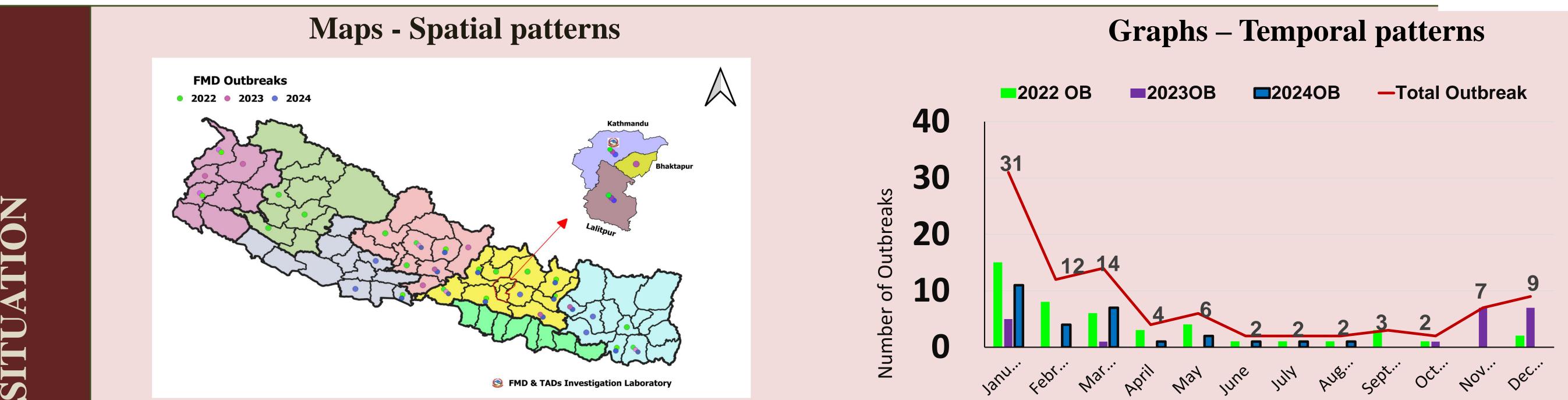


FMD Status, Control measures and Constraints in Nepal Dr. Krishna Raj Pandey FMD & TADs Investigation Laboratory, Nepal



Existing FMD-PCP stage: 1-2 > FMD is endemic in Nepal with frequent outbreak mostly in 2017 & 2022 but decreasing in 2023 & 2024. Recent outbreaks are more localized with low morbidity & mortality. FMD Risk Populations: 24.2 Million (Cattle-4.7 M, Buffalo-3.1 M, Pig-1.4 M, Goat-14.5 M, Sheep-0.5 M). Animal affected: Cattle, Buffalo, Goat, Pig Servery O is Prominent; In 2022: Servery O (98.5%) & A (1.5%), 2023 & 2024 only Serotype-O. Lineage: Serotype O- Ind 2001e, SA-2018 & Serotype A- GVII >High animal movement, low vaccination coverage, common pasture are the main risk factors.

- ► Legal Framework: Animal health and livestock services act 1999 & Regulation 2000 listed FMD as one of the Notifiable diseases.
- Risk Based Control Measures, National FMD Control program, \bullet
- FMD Control Strategy 2015-2025. •
- Preparation for the development of FMD free compartments & zones in the country. •
- Zoning & Compartmentalization Directives, FMD Surveillance Technical Directives. ightarrow
- Regular risk base surveillance in commercial farms, live animal market, buffer zone area of national parks, wild life reserve & conservation areas.
- Establishment of new BSL 2 plus laboratory for the diagnosis of FMD in the country. •

- RRT mobilized during the outbreak time for investigation & control measures.
- > Vaccination: Risk base & Ring vaccination. Use of Trivalent inactivated vaccine mostly in Cattle & Buffaloes; 38% coverage at the moment.
- Farm Biosecurity, Sanitation & Hygiene, Public Awareness about FMD.
- Strict Quarantine measures & movement control of infected animals.
- High Animal movement.
- **CONSTRAINTS & SOLUTIONS**
- Federal system with poor chain of commands & poor reporting of diseases. Expansion & Strengthening of National Veterinary Services at field levels. ➢Inadequate trained Human Resource for early detection & response. Low vaccination coverage & Geographical difficulty for service delivery.
- Framing of legal provisions as per federal systems for proper chain of commands & effective reporting of diseases eg Infectious Animal Disease Control Bill.
- >Increasing human resource in province & Local Levels to increase vet services.
- >Organizing FMD Real Time Training for field veterinarians & molecular diagnosis, sequencing & Vaccine Matching test for laboratory veterinarian in coordination with WOAH & FAO.





