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Wildlife Health surveillance in Myanmar

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South-East Asia Wildlife Health Network Meeting

Nonthaburi, Thailand 5 September 2022

USAID's PREDICT Project

- Conducted between May 2016 and Aug 2018
- Three sites were targeted as potential high-risk human-animal interfaces
- The Smithsonian Conservation Biology Institute's Global Health Program (GPH) & University of California, Davis One Health Institute

Aim

- to better understand how diseases are transmitted from animal to human
- to identify dangerous zoonotic diseases before they become pandemic threats, facilitating rapid response to currently undetected viruses

Focus

- Five viral families
 - coronaviruses (e.g., SARS/MERS), filoviruses (e.g. Ebola), paramyxoviruses (e.g., Nipah/Hendra), influenza viruses (e.g., H1N1, H5N1, H7N9) and flaviviruses (e.g., Zika)





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USAID's PREDICT Project

- Collaborated among three Myanmar's Government Ministries;
 - 1. Ministry of Agriculture, Livestock and Irrigation (MOALI)
 - 2. Ministry of Health and Sports (MOHS), and
 - 3. Ministry of Natural Resources and Environmental Conservation (MONREC)
- Funded by the U.S. Agency for International Development (USAID)
- Samples testing was performed at Yangon Veterinary Diagnostic Laboratory (YVDL) and University of California, Davis's One Health Institute Laboratory)
 - 759 samples were collected and tested (464 oral swabs, 140 rectal swabs, 155 guano samples)
 - RNA extraction, viral detection and sequencing
- Detected two Coronavirus in this study
- One virus has never been detected before
- The other virus has been previously detected in bats in Thailand
- Not closely related to SARS, MERS or COVID-19











What is the legal basis for wildlife surveillance – law, ministerial order, etc.

Ministry of Natural Resources and Environmental Conservation

• The Conservation of Biodiversity and Protected Areas Law (2018)







Top 3 constraints/problems

- 1. Budget limitations
- 2. Weakness in collaboration (both government & agencies)
- 3. Networking at country level







Linking with global reporting system

- Brief situation on submission to WAHIS and constraints
 - Wildlife surveillance data has never been submitted to WAHIS
 - More disease surveillance activities are still needed







Capacity Building

- Please identify top 3 priority topics for training you need in the next 12 months
 - Wildlife disease surveillance
 - Reporting to WAHIS
 - *Risk assessment at wildlife-domestic animals interface*

Future activities



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• List 3 priority activities relating to wildlife health in your country over 2022-2023.



Thank you for your kind attention!