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Wildlife Health surveillance in Thailand

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South-East Asia Wildlife Health Network Meeting

Nonthaburi, Thailand

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Status of wildlife disease surveillance

- *Briefly outline surveillance of diseases (type/focus), status of surveillance*
 - **Active surveillance**
 - Avian Influenza ; 2004 – now
 - Research Project ; Nipah virus (2010 – 2019), Study of viral pathogen in non-human primates (2012 – 2013) etc.
 - **Passive Surveillance**
 - HN3 report
 - Official report from National Parks → PARO 1-16/National park office → DNP
 - Event base report of people → DNP Hot line 1362
 - Annual report from private vet clinic → DLD → DNP

Wildlife Report (HN3) : Dead and Sick

| Local office | Protected Area Regional Office (PARO) 1-16 | DNP |
|--------------|--|-----|
| | | |





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Status of wildlife disease surveillance

- *What is the legal basis for wildlife surveillance – law, ministerial order, etc.*
 - Wildlife Conservation and Protection Act, B.E. 2562 (2019)
 - Ministry of Natural Resources and Environment
 - Department of National Parks, Wildlife and Plant Conservation (DNP)
 - Animal Epidemics Act, B.E. 2558 (2015)
 - Ministry of Agriculture and Cooperatives
 - Department of Livestock Development
 - One Health MOU
 - Ministry of Natural Resources and Environment, Ministry of Agriculture and Cooperatives, Ministry of Public Health, Ministry of Interior, Ministry of Social Development and Human Security, Ministry of Labour, Ministry of Education and The Thai Red Cross Society



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Status of wildlife disease surveillance

• *What is the source of funds for conduct of wildlife disease surveillance*

- Annual government statement of expenditure
- Thailand Science Research and Innovation (TSRI)
- Other partner



USAID | **PREDICT**
FROM THE AMERICAN PEOPLE



TRC
EIDCC



EcoHealth Alliance





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Status of wildlife disease surveillance

- *List out agencies/stakeholders involved and briefly state their roles*
 - Department of Livestock Development : National Institute of Animal Health (NIAH)
 - Laboratory Diagnosis
 - Department of Disease Control
 - Work force development, One Health Coordinating unit
 - Department of Medical Sciences
 - Laboratory Diagnosis support
 - University
 - Technical support and Laboratory



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Status of wildlife disease surveillance

- *Which laboratories you send samples for testing?*
 - National Institute of Animal Health (NIAH)
 - University
- *Summary of sample collection and the lab analysis that were conducted*
 - 500-1,000 samples per year
- *How do you store and analyse wildlife disease data?*
 - Excel files
 - National Institute of Animal Health (NIAH) ; LIMS system

DLD LIMS
ระบบบริหารข้อมูลห้องปฏิบัติการ

เข้าสู่ระบบ

ชื่อผู้ใช้งาน

รหัสผ่าน

เข้าสู่ระบบ

ลืมรหัสผ่าน ?



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Status of wildlife disease surveillance

- *How were the results of data analysis applied/used ?*
 - The result of wildlife disease surveillance will be use to prevention and control / disease out break
 - AI
 - Nipah
 - Coronavirus
 - AMR
- *What the top 3 constraints/problems of implementing Wildlife disease surveillance in your country*
 - DNP lack of specific unit for wildlife disease surveillance
 - Information Sharing
 - Budgets; most of the budget will be focusing on the conservation and protection forest area



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Linking with global reporting system

- *Brief situation on submission to WAHIS and constraints*
 - Reform the National Focal Points for Wildlife
 - Lack of continuously report
 - Training for submission to WAHIS
- *Briefly describe link to national or exchange of info between various data streams, if any*



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Networks at country level

- *List of various platforms of wildlife health/disease networks in the country and brief description*
 - Formal report ; HN3, Smart patrol, DNP Hot line
 - Informal report ; News, Social Media etc.
 - DLD, National Institute of Animal Health (NIAH) ; LIMS system
 - One Health Coordinating network



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Capacity Building

- *What specific trainings have your agencies conducted or attended to enhance wildlife disease surveillance?*
 - One Health Zoonotic Disease Prioritization
 - Department of Disease Control : Human
 - Department of Medical Sciences : Human
 - Department of Livestock Development : Animal
 - Department of National Parks, Wildlife and Plant Conservation
 - Zoonotic AI, Coronavirus, Rabies, Nipah and Ebola
- *Please identify top 3 priority topics for training you need in the next 12 months*
 - Laboratory diagnosis Training
 - Wildlife disease surveillance development (Data Collection/Data Analysis) Training
 - Outbreak response training



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Future activities

- *List 3 priority activities relating to wildlife health in your country over 2022-2023.*
 - Wildlife Laboratory in DNP
 - Resolve wildlife-human conflict : Monkey, Elephant, Guar
 - Development of wildlife disease surveillance



Thank you