SUCCESS STORY FROM CAMBODIA:
Surveillance of Emerging Infectious Diseases in the Wildlife Trade for Zoonosis Prevention
Surveillance of Emerging Infectious Diseases in the Wildlife Trade to Increase Awareness for Zoonosis Prevention and Wildlife Conservation

Chheang Dany and the Wild Life Trade (WLT) Cambodia Team

**AIM**

Describe the zoonosis situation in the wildlife trade in the region and raise the awareness and increase the understanding of the means of preventing the spread of wildlife diseases transmitted through wildlife.

**PERIOD**

September 2014 to January 2017

**RESEARCH TEAM**

- Department of Wildlife and Biodiversity, Forestry Administration
- Ministry of Agriculture, Forestry and Fisheries
- National Veterinary Research Institute, Department of Animal Health and Production
- Ministry of Agriculture, Forestry and Fisheries
- Wildlife Rescue Center, Ministry of Phnom Tamao Agriculture Forestry and Fisheries
- Forest and Wildlife Research and Development Institute
- Forestry Administration, Ministry of Agriculture, Forestry and Fisheries.

**METHOD**

- Collection and analyses of biomaterials sampled from wild animals in combination with disease investigations and laboratory diagnoses of the presence of selected zoonotic viruses and virus-related antibodies
- Structured interviews in the administration of a Knowledge, Attitudes, and Practices (KAP) survey;
- Awareness raising activities for disease prevention and wildlife conservation promotion
- Scientific evidence to support the efforts of policy makers and decision makers to develop effective strategies, policies, and legislation to promote the responsible use of wildlife and reduce the transmission of zoonotic diseases from wildlife to humans.
Surveillance of Emerging Infectious Diseases in the Wildlife Trade to Increase Awareness for Zoonosis Prevention and Wildlife Conservation (Cont..)

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RESEARCH ACTIVITIES

- 175 wild macaques were collected in Battambang, Kampong Thom, Pursat, and Siem Reap provinces for to test the occurrence of B, STLV, and SRV virus-related antibodies and Hepatitis B.
- 1,555 questionnaires administered by interviewers in 98 communes in 73 of 170 districts located in 21 of the country’s 24 provinces, as well as in Phnom Penh, to collect the Knowledge, Attitudes, and Practices (KAP) survey to assess risk situations and pathways associated with the potential transmission of zoonoses from wildlife to humans.
- The development of the National Wildlife Disease Surveillance technical report was adopted from materials prepared by the World Organisation for Animal Health (OIE).

Improved understanding of the regional and national dimensions of the zoonotic pathogens situation in the wildlife trade for which there were 1029 oral swabs, rectal samples, and samples of serum and blood obtained from 756 sample animals, including 175 primates, 100 birds, 70 rats, and 411 bats that were captured in various provinces between 2014 and 2016. Testing of the samples occurred in the laboratory of the Faculty of Veterinary Science of Mahidol University in Bangkok, Thailand during the period from 16-26 January 2017.

Improved understanding of knowledge, attitudes and practices associated with disease prevention of specific stakeholders, local authorities and local communities from pathogens in the wildlife trade.

Improved understanding of current zoonotic prevention and outbreak response measures and increased contributions to national zoonotic disease prevention legislation development and dialogue, as well as long-term wildlife conservation efforts and the safe and wise use of wildlife.

RESEARCH OUTCOMES
Thank you for the Contribution of the Cambodian Wild Life Project Component Team:

Dr. Chheang Dany;
Dr. Ren Theary;
Dr. Nhím Thy;
Dr. Dennis J. Cengel;
Mr. Nhan Bunthan;
Ms. Lim Sopheap;
Mr. Say Sinly;
Mr. Pang Phanit;
Mr. Kim Chormashalen;
Mr. Lim Sophea;
Mr. Yi Narom;
Ms. Kong Borey;
Ms. Heng Sorya;
Mr. Song Kimseng;
Ms. Preoun Sreymom;
Ms. Hort Salen;
Mr. Hean Samnang;
Mr. As Brosden.
APEIR Steering Committee Meeting

APEIR Secretariat held the Steering Committee Meeting on 28 – 29 July 2017 at the Century Park Hotel in Jakarta, Indonesia. The meeting title is Strengthening APEIR’s Role in the ASEAN and China Emerging Infectious Disease Research.

The main objectives of the meeting were to incorporate APEIR’s research dissemination panel, conduct discussion among the APEIR country members and the ASEAN Secretariat, and APEIR’s internal business meeting.

Participants included APEIR steering committee members, representatives of three APEIR regional research groups, Ministry of Health Republic of Indonesia, Ministry of Agriculture Republic of Indonesia, and development partners which are the FAO (Food and Agricultural Organization of the United Nations) and USAID. The meeting was chaired by Prof. Amin Soebandrio, the chair of steering committee board.

The first day session consists of the APEIR’s research during 2013 – 2016 presentation and breakout discussion session. The presentation was each represented by the AMR Research Group, Wild Life Trade Research Group, and the Biosecurity Research Group. The afternoon session was a breakout session, led by Prof. Wiku Adisasmito, the APEIR Secretariat Chairman to briefly presented overview of Antimicrobial, Food Safety, and Food Security in South East Asia.

On the second day, Prof. Amin Soebandrio led the APEIR’s internal business meeting to reflect on APEIR’s current situation, including to discuss APEIR’s Sustainability and future strategic plans.

Towards the end of the meeting, the steering committee members elected for the chairman and chairmen elect. According to the discussion, it was decided that Prof. Amin Soebandrio will continue to serve as SC Chairman for 2017 – 2019, and will work closely with Prof. Qiyong Liu who will be the next Chairman for 2019 – 2021.
APEIR STEERING COMMITTEE BOARD 2017- 2019

Amin Soebandrio
Indonesia
Chairman 2017- 2019

Qiyong Liu
China
Chair Elect 2019- 2021

Wiku Adisasmito
Indonesia

Prasert Auwerakul
Thailand

Le Minh Sat
Vietnam

Teng Srey
Cambodia

Le Thi Huong
Vietnam

THANK YOU FOR THE SERVICE OF
Prasit Palittapongarnpim
As former Steering Committee Member from Thailand since the beginning of APEIR

Sok Touch
Cambodia

Arlyne Beeche
New Delhi

Wenjun (Frank) Liu
China

Bounlay Phommasack
Lao PDR
Indonesia’s Simulation Preparedness for Avian Influenza

The Government of Indonesia held the Simulation for Influenza Pandemic Epicenter Prevention on September 19-20th 2017 in Banten Province. As Indonesia is an epidemic area for H5N1, the activity was held to anticipate avian influenza infection to poultry and human. The simulation consists of training and coordination meeting for the preparation, surveillance/investigation, logistic mobilization (antiviral, health equipments), medical response (isolation and emergency activation), health screening, public facility security, airport and harbor supervision, risk communication, and others. The activities were presented as a response in the national disaster framework in the village and urban area. The simulation were located in several areas including Setu District Primary health care, the technology research center (puspitek), BSD modern market, hospitals in Tangerang, national nuclear agency (batan), the Soekarno Hatta international airport, and the Merak Banten harbor.

The simulation was held to raise the preparedness of the government, community and related stakeholders to face the influenza pandemic. The same activity was previously held on 2008 in Jembrana, Bali and on 2009 in Makassar, South Sulawesi. The third preparedness simulation was held in Banten in consideration of the poultry’s high distribution from West Java and Banten to the capital city, Jakarta, which is vulnerable to the potential of import pandemic for receiving more than 3 million poultry per month from various sources.

The initiative was a collaborative effort among many stakeholders in the village, district, regency, provincial and central government level. The 643 participants involved the Indonesian National Board for Disaster Management, Coordinating Ministry for Human Development and Cultural Affairs, Indonesia National Military, Ministry of Social Affairs, Indonesian National Police, Coordinating Ministry for Political, Legal, and Security Affairs, Ministry of Agriculture, Ministry of Environment and Forestry, Ministry of Communication and Informatics, Ministry of Home Affairs, Ministry of Foreign Affairs, the local community of Setu Village, Indonesian Red Cross, National Nuclear Energy Agency of Indonesia, Indonesia Radio Amateur Organization (ORARI), and World Health Organization.

News gathered from the Coordinating Ministry for Human Development and Cultural Affairs website. Picture courtesy of ANTARA/Muhammad Iqbal
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