SWINE INFLUENZA IN THAILAND

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Mission

1) Diagnose, study, investigate and research on animal diseases.
2) Produce and test the quality-safety of biologics for animals.
3) Develop and assure the quality of laboratory's system.
4) Conserve biological diversity of microorganisms and parasites.
5) Be an information center of laboratory epidemiology.
6) Collaborate and support other organizations.

National and international collaborations of NIAH in 2014

- Domestic Collaboration 2 topics

-The detection of wildlife animal diseases (Influenza virus and Nipah virus) with

Agent : Department of National Parks, Wildlife and Plant Conservation

-One health project in Thailand

Agents : Ministry of public health

Ministry of agriculture and cooperatives

Ministry of Natural

National and international collaborations of NIAH in 2014

- International Collaboration 3 topics

- Zoonosis Disease Control Center (ZDCC) Project
  Agent : Japan

- Emerging Infectious Disease (EID) Project
  Agent: AHHL, Australia

- Influenza A transmission from and to Human associated Animals: AFRIM

Swine Influenza Viruses Summary in 2013

Province	Samples	H1N1	H3N2	% Pos
Chonburi	524	3	5	1.5
Chachoengsao	606	5	0	0.8
Phayao	120	0	0	0
Chiangrai	120	0	0	0
Khonkane	240	0	0	0
Total	1610	8	5	0.8

Swine Influenza Viruses Summary in 2014

Province	Samples	H1N1	H3N2	% Pos
Chonburi	202	0	11	5.44
Chachoengsao	202	0	0	0
Total	404	0	11	2.72

Swine Influenza Viruses Summary in 2015

Province	Samples	H1N1	H3N2	% Pos
Chonburi	202	15	2	8.42
Chachoengsao	202	nd	nd	nd
Total	404	0	0	0

Swine influenza surveillance in Thailand

HI antibody Titer									
	2012			2013			2014		
Animal	No	pdmH1N1	H3N2	No	pdmH1N1	H3N2	No	pdmH1N1	H3N2
Dog	34	0	0	52	0	2	31	0	0
Cat	2	0	0	8	0	1	7	0	0
Rodent	6	0	1	14	0	0	7	0	0
Total	52	0	1	74	0	3	45	0	0

Project HAI in 2014

Host	Viruses	Samples	Process
Swine	H1N1 H3N2	5	Sequencing
Duck	H3N1 H3N2 H3N6 H3N9	4	Sequencing
Chicken	H3N8 H9N2(Myanmar)	10	Sequencing
Human	H1N1 H3N2	0	
Bat	400 Samples	0	

Update reference swine influenza in Thailand

Candidate reference antigen and vaccine in swine influenza

1. H1N1 swTH_Apan2010
2. H1N1 swTH_B2013
3. H3N2 swTH_C2013

Thank you