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#### CIVAS-CSU STUDIES



n 2008. Center for Indonesian Veterinary Analytical Studies (CIVAS) sponsored by Colorado State University had conducted three studies on Avian Influenza. The studies were carried out from October to December 2008 in three

different locations.

The first study was Detection of Avian Influenza Virus in Fighting Cock Farms in Labuan Subdistrict. This study was conducted because fighting cocks are believed to play an important role in Avian Influenza disease spread. Cock fighting events often bring together chickens from many different areas and therefore pose a risk of spreading disease among the chickens. The study was conducted in Labuan subdistrict because this area is a breeding center for fighting cocks.

The second study was Detection of Avian Influenza Virus and Assessment of Biosecurity and Hygiene Sanitation Practices in Poultry Collecting Facilities in Depok City. A



Poultry collecting facilities (PCFs) is a place where poultry from many different areas are collected before being slaughtered or sold live. This study was conducted because PCFs are known to be a critical point for Avian Influenza disease spread. Depok city was selected for the site of this study because it is adjacent to Jakarta which has the second most AI cases in human in Indonesia.

The third study was Study on Avian Influenza Related Knowledge, Attitude, and Practice in High Risk Communities in Cibinong. The study was conducted because little information was available on AI-related knowledge, attitude and practice level despite many efforts done by the government to educate and increase public awareness. High risk communities studied in this study was backyard poultry farmers, poultry collecting facility owners and workers, and consumers of poultry products. The study was conducted in Cibinong because it is a poultry business center which is also AI endemic. (rie)

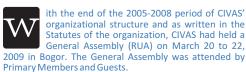
# **CELEBRATION OF WORLD VETERINARY DAY 2009**

n Sunday, May 3, 2009, Center for Indonesian Veterinary Analytical Studies (CIVAS) together with the Indonesian Veterinary Student Association (IMAKAHI), the Student Executive Body of the Faculty of Veterinary Medicine in Bogor Agricultural University (BEM FKH-IPB), and the Jakarta branch of Indonesian Veterinary Medical Association (PDHI Jakarta) held a sympathy act to celebrate World Veterinary Day 2009. The World Veterinary Day (WVD) is a day instigated by the World Veterinary Association (WVA) to celebrate the veterinary profession. The World Veterinary day is annually celebrated on the last Saturday of April, but this year WVD in Indonesia is celebrated with a sympathy act held on May 3, 2009.



The world theme for World Veterinary Day 2009 is , Winning "Veterinarians and Livestock Farmers: A Partnership" while the Indonesian WVD theme is "Create a Healthy Indonesia with Veterinarians". The sympathy act was started with a long march from Monas to Bundaran HI. At Bundaran HI, participants distributed stickers and bookmarks to passers-by, played a theatrical act, and read press releases. Bookmarks distributed contained brief information on several important zoonoses (anthrax, avian influenza, toxoplasmosis, and rabies) such as disease definition, how it is transmitted, and how to prevent it. Besides disease, some bookmarks also contained information on the important role of veterinarians in safeguarding public health. In this event, CIVAS also gave out a press release regarding influenza A (H1N1). The sympathy act started from 09:30 in the morning until 12:00 noon. In total, there were more than 90 participants involved in the event. (Rie)

# CIVAS GENERAL ASSEMBLY (RUA)



As part of the agenda, on March 20, 2009, assembly participants had an informal discussion about Animal Health in Indonesia : The Past, The Present, and The Future with speaker Tri Satya Putri N.H., DVM, MPhil., PhD. On that same day, participants reviewed CIVAS' journey from 2005 until 2008 through a slide show of photos taken from events when CIVAS was first built until the last event in 2008

On March 21, 2009, the General Assembly was officially opened by Chairman of the General Assembly Preparation Committee (PPRUA), Pebi Purwo Suseno, DVM, who then chaired the assembly until the General Assembly Chairman was selected. The elected Chairman of the General Assembly for the entire session was Pebi Purwo Suseno, DVM, with Vice Chairman M. D. Winda Widyastuti, DVM.

Many important decisions were made in the General Assembly to facilitate changes in the organizational structure and the vision of the organization to become a reliable and leading organization in the fields of animal health, veterinary public health, and animal welfare.



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The General Assembly had appointed the new Directive Board, determined candidates for the new Director Executive, developed new Program Guidelines (GBPK), and decided on other important matters related to the organization.

The elected Directive Board is:

Chairman : Tri Satya Putri N.H., DVM, MPHil., PhD.

- Elly Sawitri Sudiana, DVM, MSc. Member
  - Didin Sudiana, DVM, MM.
  - Memed Z. Hassan, DVM
  - Noeri Widowati, DVM, MSc.
  - Chaerul Basri, DVM, M.Epid
  - Pebi Purwo Suseno, DVM

Candidates for the new Director Executive were Albertus Teguh Muljono, DVM and La Ode Nur Ilham Ndoaka. The new Director Executive will be elected by the Directive Board.

In the new Program Guidelines, CIVAS is expected to improve the capability and role of the organization in animal health research. In the upcoming period, CIVAS will focus more on zoonoses, food safety, and other emerging diseases.

#### **CIVAS 3RD ANNIVERSARY CELEBRATION - SEMINAR** ONE HEALTH CONCEPT TO OVERCOME ZOONOTIC DISEASES



o control zoonotic diseases in Indonesia, stakeholders involved, including the medical profession, veterinary medical profession, public health field, and even the general public

must raise concern and awareness on the importance of integrated collaboration for this issue. Therefore, to support such practices, Center for Indonesian Veterinary Analytical Studies (CIVAS) has held a Seminar titled "One Health Concept to Overcome Zoonotic Diseases" at Istana Ballroom, Hotel Salak The Heritage Bogor on Saturday, December 20, 2008.

The seminar started at 09.45 WIB and ended at 13.30 WIB. It brought forward four speakers: (1) Tri Satya Putri Naipospos, DVM, MPhil, PhD from Center for Indonesian Veterinary Analytical Studies (CIVAS), whom presented a paper titled "The Strategy to Reduce Disease Risks By Focusing in the Interactions of Human, Animal, and Environment – Contribution to the One World One Health Concept", (2) Prof. Dr. dr. Nasrin Kodim, MPH, from the Faculty of Public Health, Indonesia University, whom presented a paper titled "Current Zoonotic Diseases in the World and Indonesia", (3) Bagoes Poermadjaja, DVM, MSc, from the Directorate of Animal Health,

Ministry of Agriculture, Republic of Indonesia, whom presented a paper titled "Surveillance System and Situation of Zoonotic Diseases in Indonesia", and (4) dr. Wilfred Purba, MKes, from the Zoonoses Sub-Directorate, Directorate of Control of Diseases from Animal, Directorate General of Disease Control and Environmental Health, Ministry of Health, Republic of Indonesia, whom presented a paper titled "Surveillance System and Situation of Zoonotic Diseases". Acting as Moderator was Bambang Pontjo Priosoeryanto, DVM, MS, PhD from the Faculty of Veterinary Medicine, Bogor Agricultural University. Results of the seminar were then



concluded and compiled by the Moderator and a small team which comprised of Pebi Purwo Suseno, DVM from CIVAS and Surya Al Qamar, DVM from FAO Indonesia. At the end of the presentation session, Prof. Djoko Wuryo from the Indonesia Science Academy (AIPI) also gave a short presentation on the academy's activities related to the implementation of the "One World One Health" (OWOH) concept in Indonesia.



The seminar was attended by 90 participants from various institutions, including from the Directorate of Animal Health – Ministry of Agriculture, Directorate of Veterinary Public Health - Ministry of Agriculture, Directorate of Control of Diseases from Animal – Ministry of Health, Faculty of Veterinary Medicine – Bogor Agricultural University, Indonesian Red Cross – Central and Bogor Branch, Livestock Service Offices (DKI Jakarta, Bogor, Sukabumi, West Java Province), Health Office of Bogor District and Municipality, National Committee on Avian Influenza Control and Influenza Pandemic Preparedness, Native Chicken Farmer Association of Sukabumi (KEPRAKS), Indonesian Veterinary Drugs Association (ASOHI), Cikole Animal Disease and Veterinary Public Health Investigation Center (BPPHK Cikole), Cinagara Training Center, organizations concerned in wild life (Indonesian Rhinoceros Foundation, Vesswic, WCS), representatives from APHIS-USDA Jakarta, students from the Faculty of Veterinary Medicine in Bogor Agricultural University, private veterinarians, and individuals from other fields of study with high concern on zoonotic issues.

#### CIVAS 3RD ANNIVERSARY CELEBRATION - COLORING AND DRAWING COMPETITION

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he Coloring and Drawing Competition for Kindergarten and Elementary School Students was held on December 20, 2008 at Kinanti Room in Hotel Salak The Heritage in celebration of

CIVAS' 3rd Anniversary. It was created to increase public knowledge and love of animals. The theme of the competition was "Living Healthy with My Pet".

There were three categories in the competition, Category I for kindergarten students, Category II for elementary students from class 1 to 3, and Category II for elementary students from class 4 to 6. Participants in Category I competed in coloring the drawing outlines provided, while participants in Category II and III competed in drawing and coloring. In total there were 61 participants.

Winners of the Coloring and Drawing Competition for Kindergarten and Elementary School Students were : CATEGORY 1:

Rank	Participants	Kindergarten
I	Made Dega Partha Anantavijaya	TK Regina Pacis
П	Stephanie Dinda I.	TK Tirtasari
Ш	Maulaya Syahida	TK Tarbiyatunnisa

#### CATEGORY II:

Rank	Participants	Elementary School
I	Sarah Naila Rahmah	SDN Polisi 4
П	Az-Zahra Tsabita Mevlana	SD Pertiwi
III	Rojiyati Rahmatina	SD IT Tarbiyatunnisa

#### CATEGORY III:

Ra	ank	Participants	Elementary School
	I .	Safitri Titani Hardani	SDN Polisi 1
	II	Sekar Arum Larastiti	SD Islam Al Azhar 27
I	П	Anindya Nurul Fajrina	SD Islam Al Azhar 27

#### CIVAS 3RD ANNIVERSARY CELEBRATION SCIENCE QUIZ COMPETITION

he Science Quiz Competition "The Animal World Around Us" has come to its finale. It was a competition designed for Senior High School questioning about issues related to animals and animal diseases. The finale was held on December 20, 2008 at Galuh Room, Hotel Salak the Heritage Bogor. The winners were :

Rank	Team	High School
I	Rizki Amelia Ramiza Dewaranie L Rena Nurul Ummah	SMA 5 Bogor
Ш	Maria Regina Sugiarta Adryana Putri Christianus Angga B	SMA Regina Pacis Bogor
III	Bagus Aditya P Cecilya Budhiman Rizki Fitriana Fajrin	SMA 9 Bogor
IV	Andhini Setyanti Putri Cholila Djavd Nammah Humaira Anggi Nauri	SMA 5 Bogor



DETECTION OF AVIAN INFLUENZA VIRUS IN POULTRY ARRIVING AT POULTRY COLLECTING FACILITIES (PCFs) AND ITS ENVIRONMENT IN DKI JAKARTA PROVINCE

akarta Surveillance III Study (JS III) is a continuation of the Jakarta Surveillance II Study (JS II). This study was designed to address several questions which have arisen in the previous study, such as Al incidences related to season.

Objectives of this study are to detect the presence of Al viruses in the environment and poultry arriving at the PCFs, to reveal the frequency of Al infected poultry coming to PCFs, to determine the serological status of Al infected birds especially spent layer hens and parent stock at PCFs, to identify farms/areas where Al infected birds come from, to map the pattern of Al incidence in one year, and to assess the level of biosecurity implementation in PCFs and poultry transportation.

This study will be conducted for 10 months, starting from April 2009 until February 2010, at 40 poultry collecting facilities (PCFs) in DKI Jakarta province.

Collected samples will be tracheal swabs, environmental swabs, and blood serum (serum will only be collected from spent layer hens and parent stock). Samples will be tested at the Animal and Fish Health Center laboratory (BKHI), DKI Jakarta.

Tracheal and environmental swab samples will be tested for the presence of influenza type A viruses with Real Time-PCR. Samples resulting positive will be further tested for H5 AI antigens and samples that are positive for H5 AI antigens will be continued with virus isolation. Meanwhile, serum samples will be tested for the presence of H5 AI antibodies with Hemagglutination Inhibition (HI) test.

Data regarding PCFs and transportation vehicles will be collected using questionnaires, while assessment of biosecurity implementation in PCFs and poultry transportation will be c on d u ct e d u sing assessment checklists. Data on laboratory test results and from questionnaires and biosecurity assessment checklists will be analyzed descriptively. (Snd)

#### STUDY ON AVIAN INFLUENZA IN FREE-RANGE DUCK FARMS

enter for Indonesian Veterinary Analytical Studies (CIVAS) had conducted a preliminary study on the presence of Avian Influenza (H5) viruses in free-range duck farms in Tangerang,

Subang, and Indramayu districts in Indonesia. The study was a collaboration between the Colorado State University, the Faculty of Veterinary Medicine of Bogor Agricultural University (FKH-IPB), and the Indonesian Ministry of Agriculture with CIVAS as its field team together with the local service office authorized in regulating animal health in each district.

Objectives of the study were to detect the presence of Al (H5) viruses in free-range duck farms and to measure the knowledge level of free-range duck farmers on avian influenza. The study was conducted from October until November 2008.

Temporary results of the study were based on PCR results on influenza matrix which indicates the presence of type A Avian Influenza viruses in tested farms. From 90 freerange duck farms tested in the study, 26 farms (28.9%) resulted positive for t y p e A Avian Influenza viruses. Geographically, the highest percentage of matrix positive farms was in Tangerang and Indramayu district with 9 positive farms



with 9 positive farms each (30%), while Subang has the lowest percentage with 8 positive farms (26.7%).

Based on the type of free-range duck farms, most of matrix positive farms were type 1 farms (fully free-range) with 15 positive farms (57.7%), followed by type 3 farms (free-ranged in a confined area) with 6 farms (23.1%), and last was type 2 (home-based free-range) with 5 farms (19.2%). If laboratory test results were crossed with the district and farm type, the distribution became quite variable. In Tangerang and Indramayu districts, the highest percentage of matrix positive farms was found in type 1 with 60% and 70%, respectively, while the highest percentage of matrix positive farms in Subang district was found in type 3 farms with 40%.

The preliminary study will be continued with a longitudinal study in the same area. Objectives of the longitudinal study is to: (1) estimate the persistence and duration of virus shedding in free-range ducks, (2) to estimate the efficiency of transmission (transmission rate, R0) of (H5) Al viruses in free-range ducks, (3) to detect the presence of other Al virus infections besides H5 in free-range ducks, and (4) to understand more specifically about duck farming practices, its movement dynamics and risks of transmitting disease. The longitudinal study will select two free-range duck farms from each type in each of the three districts and place them with sentinels. Each month, samples will be collected and all sentinels and non-sentinel birds will be monitored.\*\*\* (wnd)

# Editorial Board

Tri Satya Putri Naipospos Albertus Teguh Muljono MD. Winda Widyastuti Erianto Nugroho Ridvana Dwibawa Riana Aryani Arief Sunandar

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Office :

JI. Ismaya II No. 2 Perumahan Indraprasta I Bogor - West Java Phone : +62 251 8374510, 7177630 Fax. : +62 251 8374510 e-mail : civas@civas.net civasland@yahoo.com website : http://www.civas.net