

Networking – For the Ultimate One Health of the public

VOHUN

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ONE HEALTH COURSE DEVELOPMENT WORKSHOP, BANGKOK, THAILAND



The workshop was organized by the South East Asia One Health University Network (SEAOHUN). The workshop is the next step following a series of workshops on capacity building in One Health. Participants constructed and developed course curricula on One Health for use by the Universities. The targets of the completed One Health course include undergraduate students, graduate students and in-service training programs. The process of One Health curriculum development involves a series of three workshops. The first workshop, 19 - 20 March 2013, was to identify the purpose, audience, modules, and learning objectives for a OH course. The participants at

the workshop identified 15 modules for inclusion in the course including: Public Health, One Health Economics, Epidemiology and Risk Analysis, Policy and Advocacy on One Health, Concepts of One Health, Ecological Health, Basic Infection, Disease Management. Specific content for each topic will be constructed and completed in the next 2 workshops.



TRAINING COURSE ON ONE HEALTH FACULTY DEVELOPMENT

From 3-7 May 2013 in Nha Trang, a VOHUN short training course on the faculty development of One Health professionals at the member universities was held. The course is one of a series of activities to support the development of VOHUN under USAID/RESPOND program through SEAOHUN, supported by subject matter experts from Tufts University and University of Minnesota. Sixteen of the 17 VOHUN member Universities sent their representatives to attend the course. At the course, experts presented the results of capacity-building activities of SEAOHUN on One Health, which is one of the important initiatives as orientation for the development of a curriculum of One Health at VOHUN member universities/faculties.

FOOD AND AGRICULTURE ORGANIZATION (FAO) ORGANIZED A SHORT COURSE ON WILDLIFE INVESTIGATION IN LIVESTOCK DISEASE AND PUBLIC HEALTH – INTRODUCTORY TRAINING COURSE ON ONE HEALTH

Food and Agriculture Organization (FAO) organized a short course on Wildlife investigation in livestock disease and Public Health – Introductory Training course on One Health in Vietnam from 3rd - 10th of May, 2013. The objectives were to build One Health professional capacity for veterinarians, medical officers, wildlife and environmental scientists; to clarify the relationship between human - animal - wildlife – environment; and to initiate and promote a healthy network and collaboration between sectors at different levels. The theoretical component of the course was conducted in Hanoi, while the practical component was held in Ninh Binh and Nam Dinh provinces. With the support of FAO and the USAID/RESPOND program, 5 representatives from VOHUN member universities participated in this course. VOHUN delegates attending the course were lecturers with experience in the veterinary sector. The course shows an initial collaboration between VOHUN and other organizations/stakeholders on the application of One Health approach in Vietnam.

Highlights

Vietnam Emerging Pandemic Threats (EPT) Program Year 5 Work-Planning

Hanoi, Vietnam - On 14/6/2013, the U.S. Agency for International Development (USAID) held a Workshop on Development of an implementation plan for year 5 of the Emerging Pandemic Threats (EPT) program, from October 2013 to September 2014. Attending the workshop were representatives from the Ministry of Agriculture and Rural Development (MARD), Ministry of Health, and agencies, institutes, universities, national and international organizations working in the "One Health" area in Vietnam. Giving speeches at the workshop were Dr. Vu Van Tam - Deputy Minister of MARD, Mr. Joakim Parker - Mission Director of USAID Vietnam, and Dr. Dennis Carroll - Director of the USAID Avian Influenza and Other Emerging Threats Unit. The speeches stressed the importance and contribution to the global health program of the EPT program. At the workshop, stakeholders shared an understanding of the expectations and plans for the final year of the EPT program, offered suggestions and proposals for an action plan with partners in the EPT program, and shared information on goals achieved, challenges, and lessons learned from the implementation of the EPT program.

VOHUN's important role and its activities were described and VOHUN was accepted as an important partner in this workshop. In particular, VOHUN will be a critical partner in the building of the required workforce for present and future "One Health" experts. VOHUN has developed a training program on One Health and is gradually integrating it into the official curriculum of universities specializing in medicine, public health and veterinary medicine. In addition, VOHUN will coordinate with other programs such as FETP/AVET to organize short-term training programs on "One Health" and in-service training for professionals working on prevention of infectious diseases and zoonoses. Moreover, VOHUN will provide the scientific evidence to support the value of the "One Health" approach through the implementation of case studies on specific diseases in collaboration with research institutes, universities, and other organizations in the EPT program in Vietnam. VOHUN's communication and linkage activities with government agencies and other organizations were also discussed in this workshop and obtained a high profile from all attending partners.

Other activities

- VOHUN members attended a consultation meeting on "Strengthening Wildlife Farm Biosecurity and Supporting the Development of Good Production Practices" held by the Vietnam Administration of Forestry (VNFOREST) and USAID/PREVENT on January 25th, 2013, Ho Chi Minh City. The objectives of the meeting were: (i) To present and review PREVENT's planned wildlife farm assessment as one of the first steps in developing policies and regulations to improve wildlife farm biosecurity in the Mekong region (ii) To gather feedback from key stakeholders to improve the PREVENT wildlife farm biosecurity assessment tool, and (iii) To introduce MARD's new policy direction on wildlife management. This meeting also provided an opportunity to build partnerships between Government of Vietnam departments, international and local NGOs, agricultural and human health universities and institutions, to raise awareness of zoonotic diseases, and to discuss the current conditions of wildlife farming in Vietnam.

- Dr. Bender is a Professor at the University of Minnesota, College of Veterinary Medicine and has an Adjunct Professor appointment in the School of Public Health. He previously worked for the Minnesota Department of Health (MDH), as an infectious disease epidemiologist. Currently, he is Co-Director for human-animal interfaced studies at the NIH funded Minnesota Center of Excellence for Influenza Research and Surveillance (MCEIRS). During the faculty development workshop in May 2013, he visited the VOHUN National Coordinating Office at HSPH and gave a talk on "*Influenza and One Health*", in particular he updated the H7N9 outbreak in China, the continued H5N1 outbreak in South East Asia, and the problem of a novel H3N2v in the United States.

- During a visit to Hanoi to assist VOHUN member universities and faculties to develop a OH curriculum training program the VOHUN NCO invited Dr. Brett Hendel-Paterson of the University of Minnesota to present a talk on "*Clinical teaching methods in global health and tropical medicine at the University of Minnesota*". He presented the problems with passive learning, defined "outline" and "learning objectives", illustrated some good and bad lectures, and introduced some strategies for more active learning.

Upcoming Events

- **VOHUN strategic planning meeting** to be held in July 16-17th 2013 in Nha Trang. The participants are leaders of the University/Faculty of member of VOHUN. The meeting is supported by USAID/RESPOND.

- **Short course on grant writing and research methodologies** is expected to be held in August 2013 in Da Nang City. The course is supported by USAID/RESPOND and is one of the overall activities of SEAHOHUN.

- **2nd and 3rd workshops to build a One Health course to be held** in September 2013 in Thailand and in October 2013 in Malaysia.



THE NATIONAL
CONFERENCE ON
APPLYING A ONE
HEALTH APPROACH TO
INFECTIOUS DISEASE
RISKS AT THE
HUMAN-ANIMAL-ECOS
YSTEM INTERFACE



The National Conference on applying a One Health approach to infectious disease risks at the human-animal-ecosystem interface in Viet Nam was held in Hanoi on April 2nd – 3rd 2013 by the Ministry of Agriculture and Rural Development (MARD) and Ministry of Health (MOH) and US Embassy in Vietnam. The Conference objectives were to promote the application of a One Health approach to address zoonotic diseases and non-zoonotic diseases impacting food security, food safety and livelihoods with national leaders, senior officials and experts; to consider how the ongoing national One Health programs and activities in Viet Nam fit into the larger context of the

global movement towards a One Health approach; and to identify a key set of next steps and a timeline to support the Government of Viet Nam in establishing a One Health road map and action plan including discussion of resourcing requirements. At the Conference Dr. Pham Duc Phuc - Coordinator of National Coordinating Office (NCO) of VOHUN was presented an introduction of VOHUN, including vision, mission, objectives and activities. The VOHUN was established with the participation of 17 Universities/Faculties implementing teaching and research on Medicine and Veterinary in Vietnam. The NCO of VOHUN located at the HSPH.

RESEARCH AND APPLICATION OF SSIA
METHODS ON DETECTION OF RABIES DOGS

The Faculty of Animal Production and Veterinary Sciences, Hue University of Agriculture and Forestry has had initial success in applying the standardized indirect agglutination (SSIA) test to detect rabies virus in animals, and confirmed that dogs saliva is an appropriate specimen for detection. The experiments showed that the saliva of dogs did not affect the performance of SSIA since while mixed separately in both saliva and physiological saline solutions all negative saliva samples were homogeneously negative meanwhile all of a large number of Rabigen-Rmono rabies vaccine samples showed homogeneously positive. In addition, 118 samples of dog saliva from Hue City were tested and 5 of them (4.23%) were positive for rabies virus antigen. To help us continue to assess this method, we invite VOHUN members interested in detection of rabies dogs, to send us frozen dog saliva samples (0.1-0.2 ml).

For further information, including fees, please contact Assoc. Prof. Dr. Pham Hong Son, Tel: 0914193443.

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PREVALENCE OF TRICHOSTRONGYLUS IN BUFFALOS
AND COWS AND CATTLE IN THAI NGUYEN PROVINCE,
AND ASSESSMENT OF THE EFFECTIVENESS OF
PREVENTION AND TREATMENT PROTOCOL.

The research conducted by staff and lecturers from the Faculty of Animal Husbandry and Veterinary Science, Thai Nguyen University of Agriculture and Forestry. The research results showed that the Trichostrongylus prevalence in buffalos and cows is 51.83%, of cattle is 55.73%. The rate and extent of infection are highest in cattle under 1 year old, and fall in line with the aging of the animals. Seasonal rate of infection is higher in summer - autumn than in winter - spring. Signs of infected animals are weight loss or no weight gain, rough skin, hair loss, pale mucous membranes and chest and abdominal fluid retention. The number of red blood cells and haemoglobin concentration decreased, leukocytes increased, neutrophils decreased and eosinophils increased. Effective prevention and treatment for cattle and livestock is deworming with Ivermectin 0.25% (0.25 mg/kg of body weight); Benvet 600, (7.5 mg / kg of body weight) or Levamisole 7.5% (1ml/10 kg of body weight) with the rates from 90,63% to 100%.

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INTRODUCTORY TRAINING ON PARTICIPATORY EPIDEMIOLOGY, KHON KAEN, THAILAND

The Asia-Pacific Participatory Epidemiology Network (APPEN), based at Chiang Mai University, conducted a training course to introduce Participatory Epidemiology for researchers and managers from health sectors in the Asia – Pacific region from 8-12 June 2013 in Khon Kaen, Thailand. Twenty two students participated in the basic course at Khon Kaen University, from the fields of public health and veterinary medicine from Thailand, Vietnam, Cambodia, Laos, Indonesia and China. VOHUN nominated 05 representatives from member universities to attend the course, with support from USAID/RESPOND. The objectives of the training were to introduce the Participatory Epidemiology (PE) approach and its applications to public health and the One Health approach, and to apply the basic techniques of Participatory Epidemiology to gather information about health problems in the community. The participants of the course attended lectures on the PE method as well as group discussions, practical exercises, presentations and general discussions. In addition, the course had two practical sessions for all participants, who were placed in groups to apply the techniques of PE in the field. The course was an important and essential preparation for a further advanced PE course for the 22 participants to be held at the University of Chiang Mai, Thailand, from July 8 - 12, 2013.

ONE HEALTH TRAINING SHORT COURSE

From February 7 to March 15, 2013, a short training course on One Health was held in Chiang Mai, Thailand with components of Epidemiology, Ecology and Economics. The teacher of the course was Prof. Dr. Karl-Hans Zessin from the Freie University of Berlin, Berlin, Germany. The course aims at shifting habitual thinking of single-discipline professionals towards capacity development of mindsets to effectively connect diverse 'One Health' areas. The trainees were principally graduates in the fields of human and veterinary medicine, graduate students of multiple other disciplines interested in and professionals (animal production and food systems specialist, animal scientists, environmental scientists, evolutionary biologists, ecologists, zoologists, medical entomologist, wildlife biologists) involved in , health-related sectors' from Ministries of Health, Livestock/Agriculture, local governments, NGOs, UN and International Agencies, academic institutions and the private sector. The course consisted of four modules: Introduction: Basis of global One Health; Disease investigation methods; Epidemiology; Health Economics; the ecological basis of disease; population interaction and dynamics. Four students from VOHUN participated in the course. Upon completion of the course, students obtained the basic concepts of ecology, and an understanding of the application of ecological concepts in the One Health approach to explain health issues such as the emergence of infectious diseases, the origin and mechanisms of infection and strategies for disease control.

ONE HEALTH RISK ANALYSIS SHORT COURSE

The One Health Risk Analysis Short Course was held in Hanoi from 3rd to 7th June 2013 by the Hanoi School of Public Health (HSPH) and the VOHUN, funded by USAID/RESPOND. The course was attended by 28 participants who are currently lecturers from Public Health, Veterinary, Nursery and Tropical medicine fields from Thailand, Indonesia, Malaysia, and Vietnam. The facilitators of the course were Dr. Christine L. Rioux - Department of Public Health and Community Medicine at University of Tufts; Dr. Fernando Sampedro - the Center for Animal Health and Food Safety from the University of Minnesota; and Dr. Nguyen Viet Hung - Center for Public Health and Ecosystem Research (CENPHER), the HSPH. Such topics as: concepts of Risk Analysis, Risk Assessment Framework of the World Organization of Animal Health (OIE), the CODEX Alimentarius, and in the Quantitative Microbial Risk Assessment (QMRA), Risk Assessment in food safety and water quality management were covered during one week of the course. During the course, the Scenario-Based Learning (SBL) and Problem-Based Learning (PBL) approaches were also discussed. The 'from farm to folk' approach in food safety was illustrated in the field trip to Bac Ninh province. More information related to the course can be found at this link: http://cepher.hsph.edu.vn/english/publication_training_material_One_Health_RA.



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