


One Health Module / One Health Ally Course
Submodule 4 One Health on-site Training
報告書 Report


報告者 [Reporter]

氏名 [Full Name]	Atefeh FATHI		
学年 [Year]	3	E-mail	
所属 [Affiliation]	Research Unit for Global Infection Control, National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Japan		

担当教員 [Instructor]

氏名 [Full Name]	Yoshifumi NISHIKAWA		
署名 [Signature]			
所属 [Affiliation]	National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine		
E-mail		電話 [Tel]	

活動報告 [Activity Report]

タイトル [Course Title]	The role of one health in zoonotic parasite and wildlife conservation in Thailand		
実施期間 [Periods]	26 th – 29 th June, 2023		
共同実施者 [Other participants]	Nada Arayaskul, Nyein Chan Soe, Alok Kumar Maurya, Ma Zhuowei		
言語 [Language]	English		
実施場所 [Location]	Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand & Faculty of Veterinary Science, Mahidol University, Kanchanaburi campus, Thailand		
この活動に参加した理由 (200字程度) [The reason why you participated in this activity (around 120words)]	<p>I applied for the overseas on-site course in Thailand to enhance my knowledge and skills. Thailand is renowned for its diverse wildlife and rich cultural heritage, providing a unique learning environment. This course offers an exceptional opportunity to engage in hands-on lab work and fieldwork, allowing me to gain practical experience and insights into the veterinary and medical zoonotic disease. By participating in this program, I aim to broaden my understanding of tropical diseases, wildlife conservation, and local healthcare systems. Additionally, immersing myself in the Thai culture and collaborating with experts and fellow participants from different backgrounds will foster cross-cultural learning and networking opportunities. I am excited to expand my horizons and contribute to my future career through this enriching experience in Thailand.</p>		
実施内容 (2ページ程度、写真・図表含む) [Activities details (up to 2 pages providing photos, figures, and tables)]	<p>Day 0: On this particular day, after a long delay with the flight, our journey took us from Japan to Bangkok, Thailand. After arriving in Bangkok, we continued our travels to the Nakhon Pathom province. For our overnight stay, we stayed at the Xen Hotel Nakhon Pathom, conveniently located near Mahidol University's Salaya campus. This location provides us with easy access to the university and its resources, ensuring a productive and immersive experience during our course.</p> 		

Day 1:

At 7:30 in the morning, we embarked on a journey to the Kanchanaburi campus of the Faculty of Veterinary Science, Mahidol University. Upon arrival, we attended an engaging lecture on Zoonotic parasite infections, expertly delivered by Professor Charoonluk Jirapatharasate, a distinguished authority in the field. The lecture, held from 10 to 12 AM, provided us with invaluable insights into the prevalence, identification, and management of parasitic infections that can be transmitted between animals and humans.

Following the lecture, we indulged in a delightful lunch at a local restaurant near the campus, savoring the flavors of the region's authentic cuisine. Energized, we embarked on an enlightening excursion to animal farms, where we meticulously collected fecal samples for analysis. Specifically, we gathered four goat and four cattle samples, successfully identifying parasites such as the eggs of *Moniezia*, *Eimeria*, *Strongyle* in the goat samples, and *Trichuris* eggs in the cattle samples.

Concluding our productive day of fieldwork, we visited a local shop to purchase fresh fruits before settling into the serene ambiance of the Yoko River Kwai Resort, located near the Mahidol University campus. The resort's scenic beauty, coupled with our room's picturesque view of the River Kwai, provided a serene backdrop for relaxation. We relished a delicious dinner at the resort's restaurant, basking in the tranquil atmosphere and reflecting on the day's educational endeavors.



Day 2:

The following morning, we resumed our activities at the Kanchanaburi campus of the Faculty of Veterinary Science, Mahidol University. We attended captivating lectures on "Pathogen Transmission at the Human-Wildlife Interface" and "Elephant Use in the Tourism Industry in Thailand," delivered by Professor Nae Tanpradit. These lectures provided us with a comprehensive understanding of the complex dynamics between humans, wildlife, and disease transmission.

Next, we ventured to the Salakphra Wildlife Sanctuary, where Dr. Seri Nakbun enlightened us about the "Banteng Reintroduction in Salakphra Wildlife Sanctuary: Past, Present, and Future." We witnessed firsthand the efforts dedicated to reintroducing Banteng into their natural habitat and actively participated in monitoring their progress through camera trapping and radio collar triangulation. The experience was both exhilarating and enlightening. Additionally, we had the privilege of visiting the Banteng farm, which offered a unique glimpse into the conservation efforts.



After another fulfilling day of learning, we indulged in a spicy Thai lunch at a local restaurant, opting for a wild boar dish that proved to be the spiciest culinary encounter for me, leading to some tears! Following the meal, we embarked on an extraordinary experience at the elephant camp. As a veterinarian, it was a long-held dream come true to learn the clinical examination of elephants, including assessing their body condition score, heart rate, respiratory rate, calculating body weight, and verifying microchip numbers.



To cap off the day, we enjoyed a visit to a scenic coffee place, savoring the view while relaxing. Finally, we made our way back to Bangkok, where we settled in at the Sukosol hotel, marking the end of another eventful day filled with invaluable experiences and knowledge gained.

Day3:

On the third day of our course, we delved into the fascinating topic of intestinal parasites. We attended two enlightening lectures: "Global Trends and Medical Importance of Intestinal Parasitic Infections" and "Life Cycle, Morphology, and Techniques for Important Intestinal Parasite Identifications." These lectures proved to be highly informative, particularly for me, as I had studied parasitology years ago and needed a refresher. The lectures provided valuable insights into the current trends and medical significance of intestinal parasites, as well as the life cycles, morphology, and identification techniques.

Following the lectures, we headed to the Mahidol University cafeteria to enjoy our lunch. I was pleasantly surprised by the wide variety of food options available, reflecting the diverse culinary offerings at the university.

In the afternoon, we had the opportunity for a laboratory demonstration focusing on important intestinal parasites. We began by examining prepared slides under the microscope, familiarizing ourselves with the morphology and diagnostic keys for different parasites. This hands-on practice was highly beneficial.

To conclude the day, we had the unique experience of working with real human samples in the laboratory. We prepared slides ourselves and conducted the diagnosis of intestinal parasites, including *Ascaris*, *Trichuris*, and *Taenia*. This practical session provided us with invaluable experience and enhanced our skills in parasite identification. Overall, it was a truly enriching and memorable experience in the field of parasitology.



Day4:

On the final day of the course malaria parasites, took center stage. We began with a comprehensive lecture on "Malaria Epidemiology, Life Cycle, Morphology, and Diagnosis." This lecture provided a deep understanding of the prevalence, life cycle, and diagnostic methods for malaria.

Next, we had a laboratory demonstration focusing on malaria and other important blood parasites. Similar to the previous day, we examined prepared slides under the microscope, carefully studying the morphology and using diagnostic keys to differentiate between different *Plasmodium* species. This practical session enhanced our skills in identifying and distinguishing various species of malaria parasites.

In the afternoon, we had the opportunity to put our knowledge into practice. We started by learning how to use antigen kits to detect *Plasmodium falciparum* and other species. Subsequently, we prepared slides using human infected red blood cells and tried to diagnose the species present. We primarily identified *P. vivax* and *P. falciparum*, along with some cases of *P. malariae*.



After the day's activities at the university, we returned to our hotel to gather our luggage and make our way to the airport for our return flight. The course had been an exceptional learning experience, particularly in my area of interest, and I left with newfound knowledge and skills in malaria parasite identification and diagnosis.



今回の活動経験が、今後のOne Healthに関連した活動、国際共同研究、国際協力、国際連携等に与える

影響 (500字程度) [Impact of the experience on future One Health activities, international collaborative research, international cooperation, international collaboration, etc. (around 300 words)]

Participating in this course has provided us with a unique opportunity to expand our knowledge and skills in the field of veterinary and medical sciences in a global context.

One of the key impacts of this course is the enhancement of our understanding of the One Health approach. By engaging in lectures, fieldwork, and laboratory practices focusing on zoonotic diseases, wildlife conservation, and parasitic infections, we have gained a comprehensive understanding of the interconnectedness of human, animal, and environmental health. This knowledge will significantly influence our future One Health activities by instilling a holistic approach to problem-solving and decision-making.

Moreover, the course has fostered international collaborative research opportunities. Through interactions with experts, lectures by esteemed professors, and field visits to wildlife sanctuaries, animal farms, and laboratories, we have established valuable connections and networks. These connections provide a foundation for future collaborations on research projects, knowledge exchange, and joint publications. The course has promoted interdisciplinary collaboration among professionals from different countries and backgrounds, thereby paving the way for impactful research initiatives with a global perspective.

This shared learning experience has encouraged the exchange of ideas, approaches, and best practices in veterinary and medical sciences. The course has created a platform for dialogue and collaboration among professionals from various countries, promoting the sharing of expertise, resources, and experiences. This international cooperation is crucial for addressing global health challenges, improving disease surveillance, and implementing effective prevention and control strategies.

Overall, the impact of this course on future One Health activities, international collaborative research, and international cooperation is profound. The knowledge, skills, and connections gained during the course will empower us to make a significant contribution to the field of veterinary and medical sciences. We are now better equipped to tackle complex health issues from a One Health perspective, collaborate on research endeavours, and work together to promote global health and well-being.

備考 [Remarks]

The academic itinerary of the course was meticulously planned, allowing us to acquire a wealth of knowledge and expertise. However, it would have been advantageous to allocate a designated period, such as half a day, for immersing ourselves in Thai culture. This would have provided a well-rounded experience, fostering a deeper understanding of the local customs, traditions, and cultural heritage. Incorporating such an opportunity for cultural exploration would have further enriched our overall learning journey and offered a more comprehensive perspective on the interconnectedness between academic pursuits and the cultural milieu.

- ※ 報告書を作成後、担当教員に確認をお願いし署名をもらってください。PDFファイルとしてVetLog上の提出書類「Student Free Design Activities報告書」としてアップロードして下さい。
- ※ Please ask your instructor to check this report and get his/her signature before you submit to WISE Office. The scanned report is to be submitted strictly through VetLog.