


Student Free Design Activities (One Health on-site Training) 報告書 Report

報告者 [Reporter]

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活動報告 [Activity Report]

※活動内容が判る様な写真や図表を加えて下さい。 / Provide photos, tables and figures that clearly show the activities during the period.

タイトル [Course Title]	Ally course, Module 4, Student Free Design Activities
実施期間 [Periods]	June 13 – June 27, 2024
共同実施者 [Other participants]	LEE Seungyeon DARAWIROJ Kanittha
言語 [Language]	English
実施場所 [Location]	Texas A&M University (College Station, Texas), AVMA Convention Center (Austin, Texas)

申請時計画の実施報告 [Report how you carried out your plan in the application form]

Did you follow the schedule you initially planned? Did you get the outcome(s) you expected? Please describe what you did during the activity period in detail.

I followed the schedule I initially planned and achieved the outcomes I expected. Here's a detailed description of my activities:

Texas A&M university (13th to 20th June)

Gastrointestinal laboratory (GI) tour – Texas A&M university houses a GI lab which is a global center for diagnostics and research. It is the only diagnostic laboratory in the world that focuses solely on GI diseases in companion animals and thus services veterinary clinics all over the world. My colleagues and I toured the lab facilities and were able to see not only the diagnostic equipment (figure 1) and services offered by the lab but also observe how the many individual departments work together.

I also had the opportunity to present my research at the GI weekly journal club.

Orthopedic surgery department rotation – I was assigned to the orthopedics department during my visit at Texas A&M. The orthopedics team department is comprised of Professors, clinicians, residents, interns, veterinary nurses, veterinary technicians, 4th year clinic rotation students and admin staff. During the time I spent here, I was able to observe/participate in a number of activities.

I started each morning with rounds at 8:30am. These rounds were led by either a resident or clinician and included students. I was invited to sit in on these rounds, which provided an excellent opportunity to learn and observe

discussions on various orthopedic cases.

After rounds, I observed first-time appointments and rechecks of orthopedic cases. Rechecks typically involved performing physical examinations, post-operative radiographs, and bandage changes if necessary. For first-time appointments, I observed the process of taking the patient’s history, conducting physical examinations, and discussing potential diagnostics and surgical management plans.

I also had the opportunity to scrub in and observe several surgeries, including: 1) Stifle arthroscopy to diagnose a suspected Cranial Cruciate Ligament rupture, 2) Bilateral elbow arthroscopy for the management of fragmented coronoid processes (figure 2), 3) Repair of a right ulnar fracture, and 4) Management of medial patellar luxation using a block recession trocheoplasty combined with tibial tuberosity transposition.

AVMA convention (21st to 25th June)

I attended the AVMA convention (figure 3) which was held over a period of five days. During the event, I had the opportunity to participate in numerous sessions covering a wide range of topics, including the diagnosis and management of canine lymphoma, the emergence of feline sporotrichosis, and the management of feline diabetes using SGLT2 inhibitors. Additionally, I attended sessions on the use of anti-Nerve Growth Factor monoclonal antibodies in dogs and cats for osteoarthritic pain and the management of obesity in dogs with OA through specialized food formulations, which are closely related to my research. The convention also featured a variety of exhibition booths offering informative learning activities that significantly broadened my knowledge on numerous veterinary topics.

Overall, I was able to closely follow my planned schedule and engage in a variety of activities that enhanced my learning experience.



Figure 1.



Figure 2.



Figure 3.

目的達成状況報告 [Report how you achieved your goal/objectives listed in the application form]

Did you achieve all the goals you initially planned? If not, please describe why you failed to fulfill your objectives.

I achieved most of the goals outlined in my initial application. However, I was unable to visit the Canine Comparative Orthopedics & Cellular Therapeutics Laboratory (CCOCTL) at Texas A&M because the professor in charge was unavailable during my stay. Consequently, I missed the opportunity to learn about their current in-vitro research. Despite this, my visit to the orthopedics department provided valuable insights into clinical research. The hands-on experience of observing complex surgical procedures was especially beneficial to me.

One Health Approach実践報告 [Report how your activity could link to One Health Approach]

Did you have a chance to experience One Health approach (collaboration with people from other academic areas)? Please describe some of the examples of One Health approach you implemented in your activity. Otherwise, explain the possibility(ies) how you could link this activity to One Health approach for your future.

I did not have the chance to collaborate directly with people from other academic areas at Texas A&M university. However, I attended a number of sessions at the AVMA convention related to one health including:

- ❖ Tick borne pathogens and diseases associated with ticks that pose a threat to dogs and humans with particular focus on the lone star tick (*Amblyomma americanum*)

- ❖ Transmission pattern of rabies (a fatal zoonosis), its clinical presentation in animals and humans and the management of potentially exposed animals.
- ❖ Comparison of Lyme disease trends between people and owned dogs.
- ❖ Epidemiology of transboundary diseases such as African swine fever and Foot and Mouth Disease, and the occupational health hazards encountered in transboundary disease outbreaks.

Participating in these sessions significantly deepened my understanding of zoonotic diseases and the vital role veterinarians play in One Health initiatives.

備考 [Remarks]

※ 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から提出してください。

提出先：「Student Free Design Activities報告書」

※ **Please ask your instructor to check this report and get his/her signature. The scanned report is to be submitted through Vetlog 「Student Free Design Activities Report」.**