

Name	Rommaneeya LEELA-ARPORN
Laboratory	Veterinary Internal Medicine
Year (Grade)	D4
Internship institution	Colorado State University and Tufts University
Internship period	Internship period: 03/23/2019 - 04/28/2019 (Departure Date from Sapporo: 03/22/2019, Arrival Date in Sapporo: 04/30/2019)
Purpose	<ol style="list-style-type: none"> 1. To gain knowledge and experience in veterinary clinical practice of both internal medicine and diagnostic imaging 2. To be aware of how residency program take place as preparation in pursuing career as a specialist in veterinary internal medicine and diagnostic imaging 3. To make a strong connection for collaborative research and prospective career in United States

This report should be submitted within 2 weeks after you return to Japan.

- The reason why you chose this institute

I met Dr. Cynthia R.L. Webster from the Cummings School of Veterinary Medicine at Tufts University at the 2018 ACVIM Forum at Seattle, Washington, United States. She is a world-famous person who expert in veterinary hepatology. At that time, Dr. Webster was interested in my research poster, so we discussed a lot about my current research. Also, we discussed about other aspects of liver disease. So, I think it would be a great opportunity to do an internship at the Cummings School of Veterinary Medicine at Tufts University with the expertise professor. Finally, she accepted my request for visiting at Tufts University. In addition, I fortunately met Dr. Angela J. Marolf from Colorado State University that came to attend the SaSSOH 2018 as an invited speaker. She is a famous radiologist who is focused on research about diagnostic imaging for hepatobiliary system, especially for computed tomography and magnetic resonance imaging. She came to see my poster and discuss about my research since my research project is quite similar to her interest. Luckily, she offered me to visit her department before I visit Tufts University for more research discussion and attend the daily clinical practice and clinical discussion which I should not dismiss this opportunity since it might be the direct way to get a job in the United States. From these two

opportunities that I have gotten from these 2 leading institutions of veterinary medicine, I can be exposed to and often work alongside faculty members who engage in some of the latest research and leading-edge treatments. Therefore, for this reason, these 2 institutions will be an ideal place for having my internship, so I can both deepen my understanding for hepatobiliary diseases, learn new things, gain knowledge and experiences as well as make a strong connection for conducting collaborative research project and prepare myself for my future career as a specialist in veterinary internal medicine and diagnostic imaging.

- Result of the activity (about 800 words, provide photos, tables and figures that clearly show the activities during the period)

My externship abroad was between March 22 and April 29, 2019 which started from visiting Colorado State University from March 22 to March 30 and followed by visiting Tufts University from March 30 to April 29. All of my overseas activities were only observation and participation in their clinical works and activities.

My overseas activities were started when I departed from Japan and arrived at Denver International airport, Denver, Colorado (CO), United States on March 22, 2019. After arriving, my Thai friends came to pick me up at the airport. It took about 1 hour and 30 minutes to go to Fort Collins, CO by car. I stayed with my Thai friends at Colorado State International House Moreno Community Center. On March 23-24, I went to college of veterinary medicine and biomedical science at Colorado State University for campus and hospital introduction. Then, I started my externship at Radiology service of Colorado State University Veterinary



Figure 1. Colorado State University Veterinary Teaching Hospital

Teaching Hospital from March 25 to 29. During that time, my externship started from 8.00 to 9.00 am for clinical rounds of interesting cases in both small and large animal from Monday to Thursday and journal club on Friday. After finishing the rounds or journal club, I

observed residents on their clinical works for interpreting images from various

diagnostic techniques including, radiology, ultrasound, computed tomography (CT), positron emission tomography (PET)-CT, magnetic resonance imaging (MRI) until 5 pm on Monday, Wednesday and Friday. Other than observing their clinical works, I had a chance to attend an advance lecture on diagnostic imaging with the residents on Tuesday and Thursday afternoon which was in the topics about musculoskeletal imaging and interpretation of brain MRI. The day before finishing my externship in Colorado State University, I had a chance to talk and discuss with Dr. Angela J. Marolf and other faculty member about my current research project, the possibility of international applicants for joining a residency program in the United States, and their education system. Also, on that day I had a chance to go sightseeing with my Thai friends at Horsetooth reservoir which is a large reservoir in southern Larimer County of Colorado.



Figure 2. Activities at Radiology service of Colorado State University Veterinary Teaching Hospital

After I finished my externship at Colorado State University, I departed from Denver International airport to Boston Logan International airport, Boston, Massachusetts (MA), United States on March 30 to visit the Cummings School of Veterinary Medicine at Tufts University which is located in North Grafton, MA and far from Boston about 1 hour by car and 1 hour and 30 minutes by commuter rail. For visiting Tufts university, I stayed at Alpha Psi student center at Tufts veterinary school for 2 nights from March 30-31 and moved out to new rental house at Grafton area from April 1, then I stayed there until I finished my externship on April 28. At Tufts university, I went to visit Radiology service for 2 weeks followed by visiting Internal Medicine service for other 2 weeks at Foster hospital for small



School of Veterinary Medicine

animal at the Cummings School of Veterinary Medicine. Before starting my externship at Tufts university, I went to survey a whole campus of veterinary medicine on March 31. Then, I

started my externship at Radiology service from April 1 to April 12, especially in ultrasound service with Dr. Dominique Penninck, Dr. Amy Sato and Dr. Mauricio Solano. During my time in ultrasound service, my day started from 8.00 to 9.00 am for clinical rounds with a board-certified veterinary radiologist to finalize the ultrasonographic interpretation of each patient that was reviewed by residents from Monday to Thursday and journal club on Friday. Then,



Figure 4. Ultrasound service at Foster hospital for small animal

after finishing the rounds or journal club, I observed residents on their clinical works including routine ultrasound examination, ultrasound-guided fine needle aspiration and ultrasound-guided needle biopsy until they finished their clinical work around 5.00 or 6.00 pm. In this service, I saw some interesting cases that I have never seen before either in Japan or Thailand which were a musculoskeletal ultrasound and exotic animal (hamster, ferret and snake) ultrasound. After finishing my rotation in Radiology service, I continued my externship at Tufts veterinary school at internal medicine service from April 15 to April 28 with Dr. Claire L. Fellman and Dr. Cynthia R.L. Webster. During my time in ultrasound service, my day started from 8.00 to 9.00 am for attending Specialty rounds, Journal club, pathophysiology rounds and clinical lecture from Tuesday to Friday, followed by clinical rounds about patient of the day from 9.00 to 11.00 am every day. After finishing the rounds, I observed students, interns, resident and board-certified veterinary internal medicine specialist on their clinical works including history taking, patient examination and client communication. Then, I attended afternoon rounds for summarizing the problems of the patients and discussing

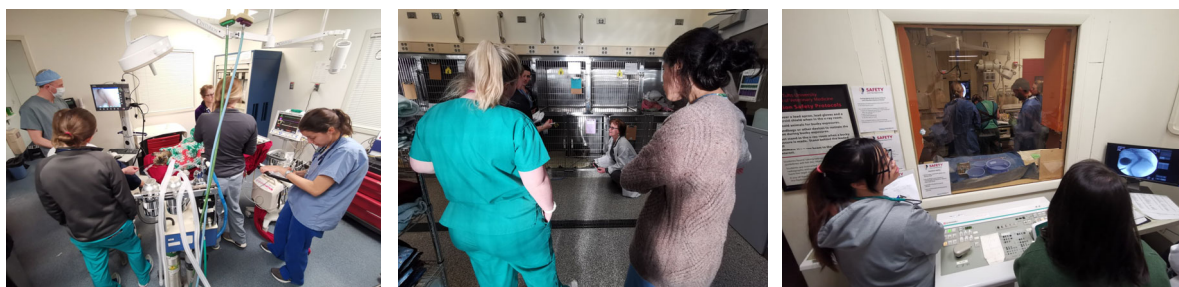


Figure 5. Activities at internal medicine service of foster hospital for small animal

about what we diagnosed and treatment plan for each patient. In addition, I also attended grand rounds every Friday afternoon for summarizing the history of hospitalized patients for interns and residents who were assigned to take care the patients on the weekend. At internal medicine service, other than observing and attending their activities and clinical works, I had a chance to present and share about my research project in the liver specialty rounds together with Dr. Cynthia R.L. Webster in the topic about focal liver lesions in dogs to interns, residents and faculty members of internal medicine and radiology services on April 23. This panel discussion was my big chance to show my capability. Also, their points of view on focal liver lesions was very helpful for me in conducting the next research. Apart from academic activities, during my free time on weekends, I had a chance to go sightseeing in Boston and visit some attractions, including Harvard University and Massachusetts Institute of Technology (MIT). After I finished my externship at Tufts veterinary school on April 28, I departed from Grafton and flew back to Japan on April 29 and arrived at Sapporo on April 30.

- What do you think the positive impact of the activity will have on your further career path?

My future career vision is becoming a small animal practitioner with an expertise on veterinary internal medicine and diagnostic imaging. Soon after graduation, I would like to work as a resident or post-doctoral researcher to gain clinical experience and investigate new insight of diseases and diagnostic methods in the clinical field in the United States that is the goal for blossom of my future career to become a clinical researcher. I believe by observing a variety of clinical cases in different areas, showing a variety of endemic diseases and discussing about interesting cases with veterinary interns, residents and academic staffs of the Cummings School of Veterinary Medicine at Tufts University and Colorado State University during my externship (especially those which rarely found in Japan or my home country) will encourage me to think more comprehensively and be more tactical in making clinical diagnosis via various diagnostic modalities and performing treatment. Also, I expect that I will get new idea for conducting an impact clinical research in the future. Visiting these 2 world-famous institutions will open my new experiences in a new environment and give me a general picture of how residency program taking place and what kind of preparations which are necessary before applying to the program. Other than a chance for visiting and

observing the residency program in order to be qualified as a specialist in veterinary medicine, this externship program will also give me a chance of getting job in the United States.

- Advice for your junior fellows

- 1) Grab the opportunity when you have a chance
- 2) Go out of your comfort zone
- 3) Enjoy life both academic and culture

Approval of supervisor	Institution • Official title • Name
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- ※1 Send the electronic file to the Leading School section, International Affairs Office
- ※2 Attach a copy certificate of the content of internship activity that is prepared by the counterpart at the internship institution (any form with a signature of the counterpart).
- ※3 The Steering Committee of the Leading Program will first confirm the content of this report and report will be forwarded to the Educational Affairs Committee for credits evaluation.

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