Weekly Report Rakuno Gakuen University Name Arisa Usui



Thailand	
Sept 10 (Sat)	We left Hokkaido on Saturday morning and arrived in Thailand in the afternoon. It was our first time to come to Thailand for most of us. At the airport we met teacher's from Kasetsart University. They guided us to a shopping mall and taught us how to buy a cellphone. We ate dinner at the shopping mall. Pad Thai was delicious.
Sept 11 (Sun)	In the morning we went to Kasetsart University. Ms.Khai showed us around the hospital and the classrooms we will use from Monday. We also received our uniforms for both campus and filled out our document for the JASSO scholarship. After that we went to buy skirt for our uniform. We ate lunch with Ms.Khai.
Sep12 (Mon)	We studied epidemiology. In the epidemiology class we studied about the descriptive, analytical, experimental, theoretical epidemiology and the characteristics of epidemiology. We also learned how to control rabies transmission in Kasetsart University. In the computer room we used NCSS program to analysis the data we received about stray dogs in Kasetsart University. After class we went to Kamphsengsaen campus and had a welcome party and met many teacher's and students.
Sept 13(Tue)	Today we studied epidemiology. We studied about data management and data analysis for disease protection and control. We studied about qualitative and quantitative data. In the computer room we learned about proper statistical analysis. We used NCSS like yesterday and analyzed our data. We also learned about Chi-squared test. In the Chi-squared test we learned about contingency table and how to find out expected frequency and Chi-squared analysis. From that we learned how to advice the farmers with these analysis. Today I was able to understand clearly about the importance of epidemiology.
Sept 14(Wed)	In the morning we went to a temple to get ideas of what to do for our project. At the temple there were many pigeons. There were also some dogs, chickens and other birds. In the afternoon we came back to school and started to plan what we will analysis at the temple next Wednesday. My partner and I decided to count the pigeons at the temple and see if the food is what attracts the pigeon. It was very hard to think about what kind of information we need to make a statement but I think it was a very good exercise for us to think by ourselves.



Sep15(Thu)	Today in the morning we were in the computer room and studied a program called "ProMesa". Using this program will help us to collect data for our project. In the afternoon we learned about another program named "G Power". This program was very difficult to use and in our project we cannot use this program. In order to use this program for a project we would need to separate the areas in smaller groups but for our project doing that will become meaningless so this time we will not use this program. I learned both programs for the first time today and it was very difficult but I was able to learn more about epidemiology.
Sept 16 (Fri)	Today we went to the Suvarnabhumi Airport. We learned about quarantine at the airport. Two veterinarians at the quarantine station, Dr. Chalaardisai and Dr.Khurvphan taught us about their daily work and the importance to control animal movements from country to country. We learned about the import, export, and transit system of animals and animal carcasses in Thailand. We also saw a video about quarantine dogs. In Thailand, like most countries with quarantine dogs they used a Beagle so tourist at the airport wouldn't fell uncomfortable. Today, I learned for the first time that Japan is the strictest country to import animals in the country.
Sept 17 (Sat)	Today I worked on my report about Quarantine at the airport.
Sept 18 (Sun)	No training
Sept 19 (Mon)	Today we learned epidemiology from Dr. Sirichai following last week. Welearned about research design. We also learned about observational studysuch as cross-sectional study, case-control study, cohort study. I wasfinally able to understand the difference between these three studies.Besides these studies we also learned about relative risk and odds ratio.We practice doing these studies on the computer as well. These aspectsthat we learned today we could use for our field study. In the afternoon wehad a test on what we learned from Dr. Sirichai.

Weekly Report Rakuno Gakuen University Name Arisa Usui



Sept 20(Tue)	In the morning we had a class about correlation. We practiced it with the computer. However because I was not feeling well I could not take afternoon class. Ms. Khai took me to the hospital and I received some medicine and went back to my apartment to rest.
Sept 21 (Wed)	No Training(Absent because of headache and gastroebteritis)
Sept 22 (Thu)	Today we were did our data analysis for our presentation all day at the computer room. I analysis about the relationship between pigeons and other factors. For example visitors with food, visitors without food, trees, trash cans, other animals, benches, and statues. After analyzing all the factors I was only able to find the relationship between pigeons and visitors with food, and pigeons and trees. I thought it was interesting that there was a relationship between pigeons and trees. The more trees there are the less pigeons, and the less trees the more pigeons. I thought it would be the opposite so I think we could do a good discussion on this. We worked during the night to finish our powerpoint presentation.
Sept 23 (Fri)	Today in the morning we prepared for our presentation in the afternoon. We did our final practice with our groups and fixed our data. In the afternoon we first listen to the other groups presentation and then did our presentation. We presented on "The relationship between number of pigeon and others" and also about "The survey of prevalence of pigeon pox". We were able to get many comments and advice so I will like to add these to my report on epidemiology field study.
Sep 24 (Sat)	No training



Sep 25(Sun)	No training
Sep26 (Mon)	Today was my first day at small animal surgery. I was in the Anesthesia group for emergency room. For emergency cases there was a thoracic wall rupture, and esophagustomy. Today there was not many emergency cases so I was also able to see orthopedic cases which was a hip luxation and tibia fracture.
Sept 27 (Tue)	Today I was in the soft tissue group. There were three cases, urethra opening, rectal pull through, and mass at right side perianal. For the first case, urethra opening, a new urethral catheter was put in. Rectal pull through was done by cutting off the mass on the rectal and then rectal anastomosis was done. Lastly, for the perianal mass I was able to do assistant for it and mass was removed. It was a very good experience.
Sept 28 (Wed)	Today was in the rehabilitation group. It was my first time to see a rehabilitation facility for animals. Lots of post-surgery dogs came to heal the wound. Also many dogs with paralysis came and trained in the underwater treadmill. To reduce pain they used an ultrasound and to prevent atrophy they used a electric muscle stimulation. Today I learned that not only surgery but post-surgery rehabilitation is very important to maintain the QOL for animals.
Sept 29 (Thu)	Today I was in the orthopedic. There were two surgeries. One was a right femur head and neck excision and the other was both humerus fixation. For the humerus fixation, I was able to be an assistant. The surgery took around 3 hours because the bone fracture was done 20 days ago. Both humerus had a comminuted fracture and pins and plates were placed.
Sept 30 (Fri)	Today I was in the anesthesia for the second time. Since it was my second time I was able to take the anesthesia record by myself. I took the record for the mass at the ventral thorax. The patient was 15 years old and the CO_2 had a very high number so we had to pay attention to control it in the normal range. Today was my last day at surgery but it was very fun to study with students at Kasetsart University.



Oct 1 (Sat)	NO TRAINING
Oct 2 (Sun)	NO TRAINING
Oct 3 (Mon)	Today in the morning we had internal medicine. I was in the OPD group. I was not able to talk to the owner because they only spoke Thai but students translated for me so I was able to understand the patient's (dog/cat) condition. In the afternoon, our schedule changed and we had pathology. We learned about cytology. I learned today that in Thailand Mast cell tumor is the most common tumor in dogs.
Oct 4 (Tue)	Today we had pathology class. We did an autopsy on a cat that died of renal calculi and hydronephrosis. We found that because of renal calculi as a secondary infection the cat had pneumonia as well. In the afternoon we looked at blood smear, and histophathology. We learned about five types of round cell tumors histicytoma, lymphoma, plasmacytoma, mast cell tumor, and transmission ventral tumor. Today was a very good opportunity for me to learn many technical terms in English.
Oct 5 (Wed)	Today I had pathology class. In the morning we had a lecture class about cytology of solid tissue. I learned that cytology of solid tissue is dived in three categories, inflammation, non-neoplastic, and neoplastic. In the afternoon we had a discussion with Dr. Phudit about the laboratory data about a 2 years old dog with pale mucous membranes and icterus. I felt I need to study types of anemia once more.
Oct 6 (Thu)	Today in the morning we went to the hospital hematology room and saw the equipment there. After that we went back to our lecture room and saw blood smear with the microscope. We saw cells such as lymphocyte, eosinophil, neutrophil, basophil, and NRBC. In the afternoon I saw all types of round cell tumor and also infectious agents.



Oct 7 (Fri)	Today I learned how to diagnose tumor. We discussed about a mass on the abdominal of a marmoset. The mass was taken out by surgery and only by gross we needed to determine whether it is a tumor or non-tumor. Also if it is a tumor whether it is an epithelial tumor, mesenchymal cell tumor, or round cell tumor. As a result it was an epithelial tumor (serous ademnomas). It was interesting to learn the exotic animal diagnosis.
Oct 8 (Sat)	NO TRAINING
Oct 9 (Sun)	NO TRAINING
Oct 10 (Mon)	 Today I had microbiology class with students at Kasetsart University. Today we did a session of problem based learning. We were separated in two groups and were assigned a scenario and had a discussion about it. Our scenario was at a swine farm that has a production loss of 20~30%. We discussed what are the possibility of this loss. Tomorrow I would like to keep up with the other students.
Oct 11 (Tue)	Today we had a discussion following yesterday's case. We did a PCR on PCV (positive), negative, and our sample. We found from the PCR that the pigs were PCV positive. From this fact we discussed what we should do as a veterinarian. We concluded that there is a need to look over the vaccination program at this farm.
Oct 12 (Wed)	Today we had a discussion about a cat that has a symptom of depress, loss of appetite, and abdominal distension. Looking at the physical examination, histopathology findings, immunohistochemistry, and necropsy we came to a conclusion that this cat had FIV (Feline infectious peritonitis). We will continue discussion after studying more about the Learning Objective we set up today.



Oct 13 (Thu)	Today we discussed about FIV. We set up to get ready to do RT-PCR to determine whether this cat is really FIV positive or not. We discussed about the vaccination of FIV and I learned today that in Thailand there is nobody studying about FIV so there could be possibility that the vaccination strain and the actual strain in Thailand could be different.
Oct 14 (Fri)	Today in the morning we did an agarose gel electrophoresis. After that while waiting for the result we prepared for our presentation in the afternoon. Our results showed that the cat we have been discussing about was FIP positive. From this result we finished up our presentation. In the afternoon we did our presentation and I presented about the first case which was about swine porcine circo virus.
Oct 15 (Sat)	NO TRAINING
Oct 16 (Sun)	NO TRAINING
Oct 17 (Mon)	From this week I have internal medicine practice. Today in the morning I had Neurology. In Neurology many patients came because they cannot walk. Since I had a chance to learn in rehabilitation I thought it was interesting to see the connection between rehabilitation and neurology. In the afternoon I was in the exotic department. Animals such as snakes and civet came. It was something I cannot easily see in Japan so it was a good experience for me.
Oct 18 (Tue)	Today I had OPD all day. Many patients came to claim KCS (kerato conjunctivitis sicca). The patients that came if KCS were mostly Shi Tzu. I learned today that KCS is a very common symptom in Shi Tzu. I had a chance to do the Schirmer test. I had only done this once but today I had the chance to do it many times.



Oct 19 (Wed)	Today I was in the Ultra sound department all day. Many patients came continuously and I was able to observe couple of biopsy as well. In the Ultra sound department the doctor said around 30 cases come daily. After observing many cases I was able to tell which organ was shown. However it is very difficult to tell how it is abnormal or not.
Oct 20 (Thu)	Today in the morning I was in the Feline department. One cat with FIP came to the clinic. Since we had the chance to study about FIP in micro-biology class it was a good opportunity to be able to see the actual case. In the afternoon I was in OPD. One emergency case came in so we went to the emergency room as well. We also had a quiz at the end of class.
Oct 21 (Fri)	Today I had OPD. Many neurological cases came in. I was able to see the follow up of one case I saw on Monday, Shi Tzu with tetraparesis. On Monday he was not able to move at all but today he was still not able to stand up but was getting better. It was very interesting to be able to see the progress. I enjoyed my last day at this campus.
Oct 22 (Sat)	Today we left our dorm at 8am and headed to Kamphaeng Saen Campus. We stopped by the floating market and had lunch and then went to the supermarket to by daily goods. We arrived at the Campus and Dr. Suporn showed us around. After that we had a meeting with Dr. Makita. Kamphaeng Sean is a very nice campus.
Oct 23 (Sun) Chulalongkorn Memorial Day	NO TRAINING
Oct 24 (Mon) Chulalongkorn Memorial Day **Additional Public Holiday	NO TRAINING



Oct 25 (Tue)	Today was my first day at Kamphaeng Sean Campus. We had an orientation and from today for 2 weeks I will be in the equine medicine. I had a chance to do hoof care, nasogastric intubation, and also oral administration. Nasogastric intubation was my first time to do to any animal so it was very difficult.
Oct 26 (Wed)	In the morning we had a lecture with Dr. Aree about the anatomy of horses. In the afternoon there was a surgery. The surgery was castrating a 6 years old horse. My group did the anesthesia monitoring and I was in charge of monitoring respiratory rate. The horse was very excited so it took time to start the surgery.
Oct 27 (Thu)	In the morning we had self study time and also a case came in where the foal had a fracture on the front leg. X-ray was taken and the cast was put on right away. In the afternoon we had a lecture about neurology. We saw some videos to learn how to determine whether the horse has a neurological problem or not.
Oct 28 (Fri)	In the morning we did physical examination for our horse. After that we had cardiology lecture class. We measured the ECG for a horse and I learned the difference between taking ECG for small animals and horses. In the afternoon we took care of our horse and I did an intramuscular injection to prevent inflammation from the surgery. At night we went back to the horse clinic to take care of an emergency case which was horse with colic.
Oct 29 (Sat)	NO TRAINING
Oct 30 (Sun)	NO TRAINING



P	
Oct 31 (Mon)	In the morning we took care of Pat. We walked him and drained his wound. In the afternoon, a Jumping horse with kissing spine problem came to the clinic. The owner said this horse is top 5 in the jumping horse competition. Dr. Aree checked every spine and did x-ray where she suspect the kissing spine is. We were also able to see the Ultra sound. It gave me a good chance to study over about spinal cord.
Nov 1 (Tue)	In the morning took care of Pat as usual and then we studied about flexion examination to determine the lameness score of the horse. I learned how to trot the horse and did the flexion test for all legs. In the afternoon I trotted Pat and checked his lameness score. After we worked on our presentation and discussed with our group.
Nov 2 (Wed)	In the morning we had a lecture class about reproductive system. We learned about the estrous cycle of horse and the seasonal breeding. I learned the difference of seasonal breeding in Japan and Thailand. In the afternoon we studied about the method of castration and the difference between the three methods, open, closed, and semi-closed.
Nov 3 (Thu)	In the morning we took care of our horse Pat. We walked him and did a physical exam on him. After that we had self study time so we went over our cases to be ready for the oral examination. In the afternoon I did an I.V. injection on a horse with canker. After I prepared for our presentation tomorrow. We prepared for it until late at night.
Nov 4 (Fri)	Today in the morning I did a presentation on colic. We first presented about the paper we read "Prospective study of the primary evaluation of 1016 horses with clinical signs of abdominal pain by veterinary practitioners, and the differentiation of critical and non-critical cases" after that we presented about two colic cases that came to the clinic. In the afternoon we had oral examination.
Nov 5 (Sat)	NO TRAINING



Nov 6 (Sun)	NO TRAINING
Nov 7 (Mon)	Today I went to the elephant clinic to study about wildlife animals. In the morning we had a lecture class by Dr. Nikorn. We were taught about what is going on to Thailand wildlife animal. In the afternoon we did a check out on the elephant admitted in the clinic. After we finished class we had a necropsy on the horse that was euthanized last week.
Nov 8 (Tue)	Today we went to the jungle. We were able to see banteng but wasn't able to see any wildlife animals. We learned how to keep the wildlife animal safe and in place. Also learned about how to protect endangered species. In the evening the staff at the wildlife park prepared us Thai dinner. It was very delicious.
Nov 9 (Wed)	Today we went to Bangkok to learn about exotic animals. Many cases came in today. We saw Sugar Glider, Turtle, Rabbit, Gibbon, and Hedgehog. For the Sugar Glider many cases came in from injury on the limb. I was most surprised that a Gibbon came to the clinic. It was suspected to have influenza. In the evening we discussed with the Doctor of these cases that came in today.
Nov 10 (Thu)	Today was our second day at Bang Khen campus. Many cases came in like yesterday but today frog came in as well. Today a Gibbon came in again but today a male Gibbon with same owner as yesterday came. The male Gibbon seem to have a more serious symptom compared with the female that came in yesterday. After coming back to Kamphaeng Saen we prepared for our presentation tomorrow.
Nov 11 (Fri)	Today in the morning we had presentation. I presented about the case of the Sugar Glider with injury on the left hind limb. We finished our presentation in the morning and in the afternoon we fixed our presentation from the advice we received from the Doctor. We researched more about Sugar Glider and added it on our presentation.



Nov 12 (Sat)	NO TRAINING
Nov 13 (Sun)	NO TRAINING
Nov 14 (Mon)	Today was my first day at Nong Pho. We broke up into 4 groups and my group had 3 students. I went to a dairy cow farm that had a problem with metritis. This year this farm had many cows with the same problem and retaining placenta. We suspected that it comes from the feed they give them. In the afternoon the doctor's took us to the market to by dinner.
Nov 15 (Tue)	Today we were able to see a case with uterine torsion and dystocia. For the uterine torsion we used rolling method. It was my first time to contribute to it so it was a very good experience for me. After we fixed the uterine torsion we pulled the calf. I was very surprised and happy that the calf was alive when we pulled him out.
Nov 16 (Wed)	Today we had cases with mastitis. I was able to see a case that had bloody fluid coming out of the teat. However besides that the cow looked ok. We also saw the follow up case from yesterday. The cow that calved looked good but the calf wasn't able to stand up yet. At night we prepared for the presentation tomorrow.
Nov 17 (Thu)	Today in the morning we prepared for our presentation. For lunch the doctor's took us outside. In the afternoon we did our presentation on mastitis. Preparing for our presentation let me have more knowledge about mastitis. Also it gave me a chance to learn about the difference between Japan and Thailand.



Nov 18 (Fri)	Today I went to a farm that had 2 sick cow. One had a problem with ketosis. I think ketosis is a very common disease but this cow calved 59 days ago so we brainstormed about the cause of ketosis. The other one had a problem with pneumonia. It was a follow up case so the lung sound was becoming normal. However I was able hear the gallop sound of the heart from a cow for the first time. After, we went back to Kamphaeng Saen.
Nov 19 (Sat)	NO TRAINING
Nov 20 (Sun)	NO TRAINING
Nov 21 (Mon)	Today I started my week on bovine unit. Many cases came to the hospital. We had two cases on umbilical hernia. We also had a case with bloody diarrhea. It was my first time to see a bloody diarrhea in cattle. We suspect that it is from enteritis. We collected blood and did a fecal smear. From the fecal smear we found Cocci bacteria. However we still need to think of differential diagnosis.
Nov 22 (Tue)	Today I went to 3 farms. At the first time the doctor did AI. This first farm had milking cow and beef cow together so I thought it was very rare. Next farm had a problem with lameness so the doctor injected anti-biotic. The last farm had a cow that couldn't stand. Since it was 3 days post partum we suspected hypocalcemia. This cow also had mastitis so we decided to do a case study on this cow.
Nov 23 (Wed)	Today I went to 6 farms. I was able to see foot and mouth disease for the first time. At the last farm we went to today, the farm had 2 cows with foot and mouth disease. We injected Butsayl to both cows. I think I was able to have a good experience learning about foot and mouth disease with my own eye. At night we had discussion about our case and prepared for presentation.



Nov 24 (Thu)	Today I stayed at the hospital and waited for cases to come. Only two cases came. Both cases were calf with swollen umbilical. For both calf it was not hernia and was a pus. The doctor opened the umbilical and got the pus out. This case gave me a chance to determine whether it is a pus or hernia with just palpation.
Nov 25 (Fri)	Today we went to ICVS conference. I went to wildlife conference and also a little bit of equine conference because both were in English. I thought equine conference was interesting because they talked about equine therapy for children with disorders. I was curious if Japan has this kind of therapy and whether veterinarian's are involved in this program.
Nov 26 (Sat)	Today Dr. Metha took me to Princess cup in Bangkok. I was able to see the jumping contest. He also showed his work at this event. This chance made me more interested in horses. When I go back to Japan I want to see how veterinarian's treat horses that are in these kind of tournament.
Nov 27 (Sun)	NO TRAINING
Nov 28 (Mon)	From this week we started our week on bovine demonstration farm. In the morning we had a explanation about what kind of presentation we need for Friday by Dr. Adrison. In the afternoon we went to the demonstration farm and looked around the farm to find our theme for our presentation. We also watched the cows getting milked.
Nov 29 (Tue)	In the morning today we had a lecture about the reproductive system. After the lecture we did the rectal palpation with the dairy cows at the demonstration farm. This was my first time to do rectal palpation for a long period of time and I was able to touch the ovary. After that I used the ultrasound to see the ovary.



Nov 30 (Wed)	Today in the morning we had a lecture about anesthesia. In the afternoon we did 9 practices. Epidural anesthesia, collected blood, collected urine, paravetebral nerve block, corneal nerve block, auriculopalpebral nerve block, collected block from jugular vein, install infusion set, and did the stomach tube intubation. This was a very good experience for me and was my favorite practice in Thailand.
Dec 1 (Thu)	Today we worked on our presentation for Friday. I also worked on my presentation about the AIMs program. In the evening we had a case discussion for last weeks cases. My groups theme was on a case of bloody diarrhea. However, our cow died last week and was not able to do a necropsy so we weren't able to know the definitive diagnosis.
Dec 2 (Fri)	Today in the morning we had the oral presentation about the bovine unit. After that in the afternoon I had a presentation about foot and mouth disease at the demonstration farm. After the presentation we had a presentation about the AIMs program with only Japanese students. The doctors also prepared for us a farewell party.
Dec 3 (Sat)	NO TRAINING
Dec 4 (Sun)	Today was our last day in Thailand. We left our dorm at 4:30p.m. and headed to the airport with Dr. Art. However because of traffic we arrived at the airport at 8:30p.m. Friends from Bang Khen and Kampaeng Saen came to the airport to say our last good byes. I am very happy to be able to participate in this program. I would like to thank all teachers, staff, and students for supporting us.