



Weekly Report Hokkaido University Name Yumie Asano

Note: This report must submit to the teaching staff at your university via e-mail and CC CVE office. Not necessary to report on holiday and weekends (Sat & Sun) unless the training was being held.

Sept 10 (Sat)	No Training
Sept 11 (Sun)	No Training
Sept 12 (Mon)	Today we took the first class in KU. In this week, I would take swine class. In the morning, we studied history taking in pigs, and an overview of swine diseases. In the afternoon, after a brief study about diarrhea in suckling pigs, we did necropsy of four sick pigs. On Sept 16, we would discuss the diagnosis.
Sept 13 (Tue)	The second day of the swine unit, we learned diseases of pigs. About many diseases, our teachers asked the symptoms, characteristics of the pathogens, vaccines, and treatments to us.
Sept 14 (Wed)	Today we discussed the cases that we did necropsy on Monday and Tuesday. We talked what caused those symptoms, what we could do to protect pigs, and what we should advise to the farmers. Then we made slides for the presentation on Friday.
Sept 15 (Thurs)	In the morning, I took a class. We discussed a case and guessed the cause of that disease. I learned classical swine fever a lot and how to discriminate between infectious disease by bacteria and by virus. In the afternoon, we made slides for tomorrow presentation.
Sept 16 (Fri)	Today was a presentation day. In the morning, we listened to the presentation by the other swine group. In the afternoon, our group made a presentation. Some teachers' questions were difficult to answer, but I could learn diseases, treatment and protection in pigs a lot.



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Sept 17 (Sat)	No Training
Sept 18 (Sun)	No Training
Sept 19 (Mon)	Today was the first day of the swine2 class. We are going to visit pig farms in this class. Today, in the morning, I learned swine industry and management in Thailand. And in the afternoon, I studied various indices about sow, nursery and finishing, and how to interpret a data of the farm.
Sept 20 (Tue)	We went to go rojchana pig farm today. The problems in this farm were low quality of semen, abortion and slow growth of piglets and so on. We discussed these problems with workers in this farm. But workers, who were from Myanmar, couldn't understand Thai. I thought that it was the most important problem that we couldn't communicate with workers.
Sept 21 (Wed)	We discussed the problems of the pig farm where we visited yesterday, and made slides for the presentation on Friday. The farm had problems in semen quality and high rate of stillbirth or abortion, and this caused low farrow rate. To improve this condition, it's necessary to instruct appropriate management of pigs.
Sept 22 (Thu)	We went to PANAT farm in chonburi. This farm had also problems in the management. Floor of one house dipped because of the yesterday's heavy rain, so sows felt strong stress. This caused infection and abortion. And also, it was a big problem that training of the workers was not good. There were many things to improve this condition.
Sept 23 (Fri)	Today we made a presentation. In the morning, we explained about problems in the pig farms we visited. I spoke at the presentation for the first time, and I thought that I have to practice English speech more. For this two weeks, I could learn pigs a lot.



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Sept 24 (Sat)	No Training
Sept 25 (Sun)	No Training
Sept 26 (Mon)	This and the next week, I'm going to learn aquatic animals. In this morning, I learned outlines about breeding, and diseases of fish. Environment is the most important for fish. To diagnose the disease, I have to study the characteristic symptom in each disease.
Sept 27 (Tue)	Today, we visited two farms, an ornament fish farm and a tilapia farm. In the former, I learned how to distinguish male and female of crayfishes or guppies, and how to breed. In the latter, the farm had some problems of the tilapias, so we asked them some questions and tried to diagnose. On this Thursday, we will make a presentation.
Sept 28 (Wed)	We didn't have the class today. So we prepared presentation for this Thursday and Friday. To make presentation about the paper, I searched the diseases of fish and drug resistance.
Sept 29 (Thu)	In the morning, I made a presentation about case study and visiting the farm. Our teacher asked us more detail than I expected, and I found that I had to get more information to improve the problem and to advise the farmers. In the afternoon, we did necropsy and learned how to tell female and male. I also learned why it was important.
Sept 30 (Fri)	Today, I made a presentation about the paper. I talked about antimicrobial resistance in aquaculture. Not only amount or frequency, but season or genetic background connect with the resistance. And after presentation, we took an examination.



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<p>Oct 1 (Sat)</p>	<p>No training</p>
<p>Oct 2 (Sun)</p>	<p>No training</p>
<p>Oct 3 (Mon)</p>	<p>This week, we are going to learn shrimp. Today we studied management of shrimp (about production, breeding system, water quality and so on). I have never learn shrimp in Japan, so I got a lot of knowledge. And I had to review my class again and again.</p>
<p>Oct 4 (Tue)</p>	<p>Today, we made presentation about water quality. And I talked about the water temperature. The other students talked about pH, alkalinity, DO, turbidity, nitrogen waste, salinity, mineral and bacteria. I learned the normal range of each parameter for shrimp and clinical signs caused by them.</p>
<p>Oct 5 (Wed)</p>	<p>In the morning, a teacher taught PCR to us. At first, he talked about the principle of PCR and then, we tried to do real-time PCR to diagnose EMS. And in the afternoon, we made presentation about the diseases of shrimp. There were many diseases that I didn't know, so I got a lot of new knowledge today.</p>
<p>Oct 6 (Thu)</p>	<p>We visited two shrimp farms. The first shrimp farm was a nursery farm. I learned how to breed shrimp in the each stage, how to manage water quality, and so on. The next farm was a growout farm. There I saw the system of aeration, autofeeding and probiotics. It was very interesting.</p>
<p>Oct 7 (Fri)</p>	<p>Today was a presentation day. First, we talked about visiting farms. And we thought what we advised to improve the condition of those farm. Then, we learned the connection between various diseases of shrimp, and duration and mortality. I could understand that that information was so important for diagnosis.</p>



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Oct 8 (Sat)	No training
Oct 9 (Sun)	No training
Oct 10 (Mon)	Until Oct 21, I was in poultry unit. In the morning, I learned chicks quality, coccidiosis, and evaluation of immunosuppression and chicken gut health. In the afternoon, I visited a layer farms. It's too hot for chickens, and I saw some of them were panting. I think in Thailand, management of temperature is the most important thing for livestock.
Oct 11 (Tue)	I learned Principle Procedures of Poultry disease Diagnosis in the morning today. At first, I understood the anatomy of a chicken, and then avian diagnosis procedures and how to do necropsy. In the afternoon, I did necropsy of chickens and ducks. I must diagnose these case.
Oct 12 (Wed)	In the morning, I went to Bangkok hospital because of fungal infection on my arm. So I was late for the class. In the morning, I did necropsy of the chicks, and evaluated the chick quality. I learned the method and the reason why this is important.
Oct 13 (Thu)	Today, we did necropsy of a broiler and made the evaluation of immunosuppression, gut health, and coccidiosis. Scoring was difficult, but I could learn how and what to watch. In the afternoon, we learned egg quality. It is important to understand the process that eggs are formed when I discover a lesion.
Oct 14 (Fri)	We went to the hatchery in Kanchanaburi, and there we examined chicks quality. I watched various problems of chicks and embryos, malposition, upside down, contamination, fungus infection and so on. After that, I observed the building.



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Oct 15 (Sat)	No training
Oct 16 (Sun)	No training
Oct 17 (Mon)	Today, we did presentation about vaccines for poultry. I learned not only vaccines, but lesions a lot. The teacher was so strict, but he told me how to see lesions and how to introduce my presentation. I'll have to do presentation on Friday again because of insufficiency of information about biotechnology.
Oct 18 (Tue)	In the morning, we visited the hatchery of ducks. The management of this facility was in under standard, and most of the embryos were dead. In the afternoon, we visited the layer farm for duck. There, the owners thought about the animal welfare, and the environment was so good. Then, we did necropsy of the ducks that was infected by duck viral enteritis.
Oct 19 (Wed)	We visited the farm of Thai native chicken with only Japanese students today. There, we saw 14 days, 45 days, 3 month, and over 4 month old native chickens. Differently from a broiler, they are raised until 4 month (longer than broiler), and grow up slowly. This visit was precious experience for me.
Oct 20 (Thu)	We discussed the paper of the avian influenza in the morning today. I got the idea that in Thailand, transportation of the domestic fowl is more important than the migratory birds. And in the afternoon, we visited the duck farm. There were no pools for ducks to swim, which was different from the farm we visited on Tuesday.
Oct 21 (Fri)	Today, we did presentation all day. We discussed vaccines to various diseases of poultry, evaluation of chicken gut health, chick quality, and egg quality. I learned how to analyze the data, how to see the lesions, and that I have to think by myself without depending on the information on internet.



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<p>Oct 22 (Sat)</p>	<p>This weekend, I visited VTH Hua Hin. In the morning, after seeing around the facility, I helped with taking care of the animals in ICU. In the afternoon, I followed the veterinarians, and saw interviews and inspections. Differently from HU animal hospital, I heard that the number of cases about parasitosis were the most of all.</p>
<p>Oct 23 (Sun) Chulalongkorn Memorial Day</p>	<p>In the morning, we saw the sterilization with laparoscopy. There were some difference in the surgical process between Thailand and Japan. For example, in Thailand, doctors don't record anesthesia, and wash the animals before entering the surgical room.</p>
<p>Oct 24 (Mon) Chulalongkorn Memorial Day ※Additional Public Holiday</p>	
<p>Oct 25 (Tue)</p>	<p>This week, we will learn clinical practice for bovine in Vet KU Demonstration Farm. In the morning, a teacher explained us the assignment and in the afternoon, we visited the farm and detected the problems. Mastitis is one of the most serious problem there.</p>
<p>Oct 26 (Wed)</p>	<p>In the morning, I visited the demonstration farm and did rectal examination. I touched the ovary, and examined whether there were follicles or CLs. And then, I confirmed that by ultrasound. In the afternoon, I took the lecture of the diseases of bovine.</p>
<p>Oct 27 (Thu)</p>	<p>I took the lecture about the anesthesia in the morning, and in the afternoon, practiced that with cattle. I tried four ways of the anesthesia, and I have never tried those before. Cattle were so aggressive, but it was a good experience for me.</p>
<p>Oct 28 (Fri)</p>	<p>Today, we made presentation about the problem in the demonstration farm. My group talked about BLV, and the other did mastitis. About BLV, the farm need to separate the positive cows from the negative ones, and do the test again to confirm the condition. It's difficult to cull the all of the positive ones, so we have to think about how to control BLV.</p>



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<p>Oct 29 (Sat)</p>	<p>No training</p>
<p>Oct 30 (Sun)</p>	<p>No training</p>
<p>Oct 31 (Mon)</p>	<p>I visited some farms with teachers today. In some farms, I watched the teacher do AI, and in others, I took the physical examination of sick cows. At a farm, I saw the cow that was dystocia, and it rolled to fixed torsion of the uterus, but it couldn't work. So after visiting farms, I saw the surgery about the case.</p>
<p>Nov 1 (Tue)</p>	<p>In the morning, I took the lecture about clinical practice to cattle. After that, I stayed at the bovine hospital and helped the veterinarians. To the cow that had a respiratory disease, we injected some medicines, and to another that couldn't stand up, we elevated her to prevent a bed sore. In the afternoon, I watched the operation of abomasal displacement.</p>
<p>Nov 2 (Wed)</p>	<p>From 8 am, I took the lecture about clinical practice to cattle, and then took care of the cattle that had been in the VTH since a day before. After that, I visited some farms. I saw the assistance for the parturition. It was my first time of seeing that, so I got a good experience. From 5 pm, we discussed the case that we saw in visiting farms.</p>
<p>Nov 3 (Thu)</p>	<p>Today, I stayed at the VTH in KU and saw the cases. About the case of respiratory disease of the calf that stayed there for 3 days, she had been getting better, and today she went back to her farm. I also saw the case of vaginal prolapse. After that, we prepared the presentation for the next day.</p>
<p>Nov 4 (Fri)</p>	<p>I took care of the calf that had stayed in VTH. She got the operation for her cecum dilatation two days ago, and got paralysis of her legs. She didn't have appetite because of the pain, so we did massage of her legs. In the afternoon, we did presentation of our cases. It was good practice of thinking about the causes, treatments and prevention.</p>



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<p>Nov 5 (Sat)</p>	<p>No training</p>
<p>Nov 6 (Sun)</p>	<p>No training</p>
<p>Nov 7 (Mon)</p>	<p>This two weeks, I will learn equine. In the morning, teacher introduced horses that stayed at the hospital. Each of them had various problems. The number of lameness, castration and evaluation of the estrus was a lot as reasons of the stay. And after that, we took the lecture about physical examination, and practically did that at the demonstration farm.</p>
<p>Nov 8 (Tue)</p>	<p>In the morning, we asked our supervisor about our case. Our case had a chronic lameness, and we had to search the new treatment. In the afternoon, I visited Polo club, an equestrian club in Bangkok. There I saw the diagnosis of the lameness. It was so difficult for me to distinguish which leg had a problem.</p>
<p>Nov 9 (Wed)</p>	<p>Today, we took care of the horses. Our horse had a lameness and laminitis, and the causes had not been known. So the doctors took X-ray or ultrasonography to diagnose. In the afternoon, we saw the operation of castration to the horse. I learned how to see the depth of the anesthesia and the methods of castration.</p>
<p>Nov 10 (Thu)</p>	<p>We took care of the horses in the morning. We scrubbed and disinfected the hoof as the care for our horses. And also, we brushed another. In the afternoon, we took the lecture about cardiology of the horse. After that, we saw the teacher use the ECG monitor practically.</p>
<p>Nov 11 (Fri)</p>	<p>At 8:30, we took care of our case, and after that, we took the lecture about neurology of equine. I learned how to diagnose the nerve diseases. It's important to understand where the nerve distributes. In the afternoon, we made a horse take a shower and changed his bandage. And then, we prepared the presentation for the next Monday.</p>



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Nov 12 (Sat)	No training
Nov 13 (Sun)	No training
Nov 14 (Mon)	In the morning, we took care of our horse. I thought that the horse that had canker got worse, because he didn't want to load his weight on his injured leg. Our doctor said that washing and disinfection were important. In the afternoon, we made our presentation. After that, I did nasal intubation for the first time.
Nov 15 (Tue)	At first, we took care of our horse, and then we took a lecture about lameness of horse. After the brief lecture, we went to demonstration farm and practiced the muscle-skeleton examination. It was difficult to distinguish the normal legs from the abnormal one. In the afternoon, we practiced bandage for horses.
Nov 16 (Wed)	As the everyday task, we took care of our horse in the morning. And today, we had the case of the castration. In this time, the operation was performed by the local anesthesia. In the afternoon, we took the lecture about the reproduction system of horse.
Nov 17 (Thu)	As the everyday task, we took care of our horse in the morning. After that, we made the horses taken a shower, checked the condition of pregnancy, and diagnosed the lameness. I learned how to confirm where is the problem in the leg.
Nov 18 (Fri)	In the morning, after taking care of our horse, I watched the lameness examination. At first we watched the horse walk and trot, and then after nerve block, did again. In the afternoon, we had the oral examination. We were asked about the lameness and we thought how to diagnose and treatment.



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Nov 19 (Sat)	No training
Nov 20 (Sun)	No training
Nov 21 (Mon)	Today, we moved to Nong Pho in the morning. At first we took the explanation about this unit, and then, we separated into 3 groups and visited farms. I saw lame cows and a doctor trimming the hoof. And also I saw the abortion of the 2 months old embryo.
Nov 22 (Tue)	I visited 6 farms today. This day was the day when a doctor did routine works for check of the reproduction cycle. So I could practice the rectal palpation many times. I got used to it, and could judge the stage. And also, I learned retained placenta.
Nov 23 (Wed)	In the morning, we visited some farms. At the first and second farms, I saw the artificial insemination. And I reviewed about AI to cow. Next, we visited a pig farm. There I saw the edema disease. And one of the pigs convulsed and died. It was very shocking to me.
Nov 24 (Thu)	Today, we prepared our presentation in the morning. And in the afternoon, we made the presentation about data analysis of mastitis in 4 provinces in Thailand. Each province introduces different policy, do the result was also different. I could review the difference between environmental and contagious mastitis.
Nov 25 (Fri)	We visited some farms today. At the first farm, I saw AI. And at the next farm, there was a cow that a doctor suspected was hemorrhagic septicemia. Then, I saw a calf that had pneumoniae. Today I could see some cases that I had never seen, so it was so interesting. After farm visit, I reviewed those disease, so I could understand them well.



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Nov 26 (Sat)	No training
Nov 27 (Sun)	No training
Nov 28 (Mon)	At 8:30, we started for elephant world in Kanchanaburi. There were 27 elephants that were sick or old, or owners couldn't take care of. I collected blood from an elephant, and watched workers cutting the nail. Some doctors researched transmission of diseases between domestic cattle and elephants.
Nov 29 (Tue)	In the morning, we took the lecture about the relationship between wild elephants and domestic buffaloes in the national park. Then, we drove around the boundary between the village and national park, and researched if the elephants' place of residence overlapped with the buffalos'.
Nov 30 (Wed)	We left for Bangken campus in the morning. At the VTH, we saw medical examination and treatment of various exotic animals, for example, hamsters, rabbits, hedgehogs, and so on. It was very interesting because I never seen almost all of those.
Dec 1 (Thu)	In the same as the day before, we saw the medical examination at the VTH. A prairie dog that had difficulty in breathing because of too long roots of a tooth, a rabbit that had diarrhea, and so on. Also, a doctor assigned some question about exotic animals, so we searched those and could get new knowledge.
Dec 2 (Fri)	Today, we, Japanese students, had a oral examination about bovine. Teachers asked us mastitis and the cases that we saw. In the afternoon, I didn't have the class. From 5 pm, we did presentation about our 3 months' stay in Thailand. Thank every teacher and my Thai friend so much.



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Dec 3 (Sat)	No training
Dec 4 (Sun)	No training