



## Weekly Report Hokkaido University Name MOMOKO NAKAYAMA

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<p>Sept 10 (Sat)</p>	<p>We arrived at Thailand at about 16 p.m. We had a dinner and bought a mobile phone, and went to Kanphaeng Saen campus. When we bought a phone, Dr. Suporn helped us very much. The international dorm was so good.</p>
<p>Sept 11 (Sun)</p>	<p>We had a orientation. After that, we had a free time. In Thai, it is so hot for me in noon, so I slept until evening. With HU students, I went to night market in university.</p>
<p>Sept 12 (Mon)</p>	<p>We had the first class. We had a class about Swine. It was so difficult for me, but Thai teachers and students taught me kindly. Thai teachers and students hold a welcome party, I was happy to make friends with a lot of Thai students.</p>
<p>Sept 13 (Tue)</p>	<p>I went to a pig farm at Supanburi. That farm was a middle size farm. At first, we checked measure sow indices, for example Litter size, Pw/L, FR, ADG and FCR. These indices were important for controlling the number of pigs and management of farm. It was the first time for me to see a pig farm, so it was so interesting.</p>
<p>Sept 14 (Wed)</p>	<p>I had no class in that day, so I prepared for Friday's presentation with Thai friends. They discussed in Thai language, but they explained me what they were discussing, too. I understood how to analysis and how to discuss the datum.</p>
<p>Sept 15 (Thu)</p>	<p>I went to a pig farm at Saraburi. That farm was cleaner and larger than the farm where I had gone on Tuesday. In that farm, Mycotoxic poisoning and PRRS was positive. I thought as solution, changing the feed and culling the sow, but in Thailand they have to sell pork for low cost. So they cannot do these. I realized that the way to manage for Thai farm is different from the way for Japanese farm.</p>



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Sept 16 (Fri)	<p>My group made a presentation. Teachers and other group students directed a lot of question. Every question made me think about pig disease more.</p> <p>I realized that veterinarian's work in Thai was different from that in Japan. In Thai, farm management was demanded for veterinarians.</p>
Sept 17 (Sat)	No training
Sept 18 (Sun)	No training
Sept 19 (Mon)	<p>Swine necropsy had started. In the morning, I had a class of swine necropsy, and in the afternoon, I dissected actually.</p> <p>In Japan, I learned about necropsy in only Japanese, so it was difficult for me to understand in English. But Thai teacher and students taught me easily.</p>
Sept 20 (Tue)	<p>I had a class of swine disease. In that class, Teacher asked us many questions. This remained me the knowledge about swine diseases and microbiology.</p> <p>I learned that in Thailand, many diseases which were no longer seen in Japan was still major.</p>
Sept 21 (Wed)	<p>In the morning, I had a class. In this class, students and I discussed a case of swine disease. I was surprised at the difference between Thai and Japan in the way to control of diseases. I thought that I should consider the way to management farms in the cost aspect.</p> <p>In the afternoon, I dissected two pigs.</p>
Sept 22 (Thu)	<p>In the morning, I had a self-study class. So I prepared for a presentation. On the basis of results from necropsy and information of the farm, I considered what I should suggest to farmer.</p> <p>In the afternoon, I dissected two pigs. In that day, thanks to teaching by Thai students, I could dissect better than Wednesday.</p>



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Sept 23 (Fri)	<p>In that day, I made a presentation. It was the first time to do in English, so I got nervous.</p> <p>Through swine term, I realized that in Thailand, controlling disease was carried out on each farms, not a whole region. I thought that to control diseases, it was needed to see not each farm but a whole region, and see not present but future.</p>
4S (Sat)	No training
Sept 25 (Sun)	No training
Sept 26 (Mon)	<p>Aquatic term started. In that week, I learned about shrimp.</p> <p>I didn't have almost the knowledge of shrimp, so it was too hard to understand. But teacher taught me in detail.</p> <p>In Japan, I had not had a opportunity to learn about shrimp, so I would like to increase the knowledge of shrimp.</p>
Sept 27 (Tue)	<p>In that day, I made and showed a presentation. Researching and explaining by myself allowed me to understand thoroughly.</p> <p>In shrimp culture system, I had to think a lot of environmental factor, for example pH, mineral, turbidity, salinity, bacteria, and so on. That made study of shrimp interesting.</p>
Sept 28 (Wed)	<p>In the morning, I experimented with Real-time PCR. Experimenting in English with other country friend was so interesting for me. I thought that the experience would help me on the research in the future.</p> <p>In the afternoon, I showed a presentation. Last week, before presentation, I was so nervous. But now, I have been used to presentation.</p>
Sept 29 (Thu)	<p>I went to a shrimp farm. It was first time to visit shrimp farm, and It was filled with what I don't know. I didn't know how to check the shrimp health but actually I checked shrimps with teacher. Thereby, I could know how to check shrimp health. In Japan, I had no opportunity to go to shrimp farm, so It was a precious experience for me.</p>



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<p>Sept 30 (Fri)</p>	<p>In that day, our group showed a presentation of the farm where we had gone on Thursday. And we had a examination about shrimp. Thanks to that examination, I could review the lecture in that week.</p> <p>In Japan, people regard it as problem that farmers use a lot of antibiotic to shrimp. But I thought that it was needed not only to criticize but also to understand the shrimp culture system.</p>
<p>da Oct 1</p>	<p>No training</p>
<p>Oct 2 (Sun)</p>	<p>No training</p>
<p>Oct 3 (Mon)</p>	<p>I had a class of fish. In this class, I got a lot of new knowledge.</p> <p>Fish is different from mammals considerably, so I had to change the way to think. But it was so interesting.</p> <p>Especially, manipulation of transsexual was impressing because we cannot think for live stock animals.</p>
<p>Oct 4 (Tue)</p>	<p>I went to fighting-fish farm and guppy farm. It was the first time to visit fish firm, so it was very interesting for me. I could know where and how aquarium fish came from. And, I understood the benefit for these fish was very cheap compared with the cost which we have to pay for these fish in Japan.</p>
<p>Oct 5 (Wed)</p>	<p>I made a presentation and summarized a paper. I learned about fish immunology.</p> <p>I had been in good term with Thai people, so my life in Thai have become comfortable gradually. I thought that friendship is independent of the difference of country, language and culture.</p>
<p>Oct 6 (Thu)</p>	<p>I dissected a fighting fish for training of the sex determination. In Thai, aquarium fish culture is so popular, and the sex determination is essential in this culture. Through this training, I understand the anatomy and the importance of the sex determination.</p>



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<p>Oct 7 (Fri)</p>	<p>I showed a presentation. My presentation topic was fish immunity, so I learned about fish immunity very well. And I had a examination about fish.</p> <p>After class, I joined farewell party for Tokyo univ. students. I enjoyed talking with a lot of friends.</p>
<p>Oct 8 (Sat)</p>	<p>No training</p>
<p>Oct 9 (Sun)</p>	<p>No training</p>
<p>Oct 10 (Mon)</p>	<p>The avian term started. In the morning, I was taught about the general information for avian health management.</p> <p>And in the afternoon, I went to a broiler farm. Teacher said that farmers could not pay a lot of money for controlling disease, because in Thai, the benefit for one broiler is so cheap. It was impressive for me.</p>
<p>Oct 11 (Tue)</p>	<p>In the morning, I was taught how to perform the chicken necropsy.</p> <p>And in the afternoon, I dissected chickens and ducks actually.</p> <p>There were a lot of postmortem changes, so it is difficult to distinguish normal from abnormal.</p> <p>More knowledge for normal was needed.</p>
<p>Oct 12 (Wed)</p>	<p>I went to a farm, which was one of the biggest farm in Thailand.</p> <p>This farm had the better condition for bio security than other farm.</p> <p>I checked the egg quality. It is first time for me to check egg quality, and this is so difficult.</p> <p>In the afternoon, I checked the health of chicks by necropsy.</p>
<p>Oct 13 (Thu)</p>	<p>In the morning, I checked the chick quality. I checked a immune system and gut system mainly. But I could not diagnose correctly, because I don't know the chick normal condition very well. I should learn the normal condition more.</p> <p>In the afternoon, I checked egg quality by egg analyzer.</p>



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Oct 14 (Fri)	<p>In the morning, I went to the hatchery farm. In the farm, I carried out the egg analysis. I cracked eggs intently and checked the contents inside eggs. There were a lot of eggs which were infected and this surprise me. And I made a presentation about chicken vaccine and egg quality.</p>
Oct 15 (Sat)	<p>No training</p>
Oct 16 (Sun)	<p>No training</p>
Oct 17 (Mon)	<p>Same as the last week, it was avian term. In this morning, I had a class of presentation about poultry vaccine. I made and showed a presentation. Through this class, I understand the difficulty and importance to make a presentation which has the correct information.</p>
Oct 18 (Tue)	<p>In the morning, I went to duck hatchery farm. In the farm, the rate of death embryo was so high, and the farm hygiene was so bad. In the afternoon, I went to duck layer farm. The farm had a good farm condition and high profit. So I thought the farm hygiene related to the farm profit.</p>
Oct 19 (Wed)	<p>I went to the chicken farm. This chicken was Thai native chicken for meat. In the farm, the chickens could eat or drink freely, and the density in cage was not high. The farmer must spare more cost for this chicken product than the broiler product, so they need to sell the chicken more expensively. I was surprised that the vogue was changing to not the mass production but the organic production in Thai.</p>
Oct 20 (Thu)	<p>In the morning, I showed my presentation of a necropsy case. Through that case, I learned that I could not ruled out some disease based on only the bacterial test. I thought that in necropsy, I must assume as many situations as I can. In the afternoon, we went to a duck farm. The farm kept humidity high for ducks.</p>



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<p>Oct 21 (Fri)</p>	<p>I had a class of presentation. In that class, I learned the importance of collecting the evidence and analyzing the data. And I thought I had to collect the appropriate pictures for the evidence.</p> <p>Through the term of production animals, I realized I regarded Japanese management way for granted, but it was not standard.</p>
<p>Oct 22 at) Oct 22 (Sat)</p>	<p>I went to the animal hospital in Hua Hin. It was so good place because the staff was so kind and taught me a lot of things.</p> <p>I could observe an operation of the castration. In that case, the dog had a mass of scrotum.</p> <p>After that, I enjoyed the Hua Hin beach and the night market.</p>
<p>Oct 23 (Sun) Chulalongkorn Memorial Day</p>	<p>In that day, I observed a surgical operation. It was the spay operation with laparoscope. I could play the assistant, and I could suture. I cannot do that in Japan, so it was the precious experience.</p> <p>And I learned the difference way to do operation between Thai and Japan in the anesthesia management.</p>
<p>Oct 24 (Mon) Chulalongkorn Memorial Day ※Additional Public Holiday</p>	<p>No training</p>
<p>Oct 25 (Tue)</p>	<p>The term of bovine started. I accompanied a doctor of bovine and went to some cattle farms. I knew only Japanese cattle farm, so I could understand the condition of the farm in Thai. It was smaller than Japanese one. But there was no disinfectant system, so I was afraid of the spreading infection.</p>
<p>Oct 26 (Wed)</p>	<p>In that day, I went to some cattle farm. I could see the case of pneumonia, lay down, mastitis and artificial insemination. Almost all, these treatment and methods were the same to Japanese methods.</p> <p>In the afternoon, I observed the surgeon operation. This was more dynamic than Japanese one, so I'm so surprised.</p>
<p>Oct 27 (Thu)</p>	<p>I prepared for the case discussion and presentation.</p> <p>In the evening, I discussed the case of calf acute pneumonia with teachers and group mates. Through that discussion, I realized that in Thailand, they detected the agent of the disease for the sake of treatment more than prevention of epidemic.</p>



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<p>Oct 28 (Fri)</p>	<p>In the morning, I helped the doctors to the treatment of affected large animals. There were some cases, and every case was interesting for me because I had no opportunity to join the treatment of large animals. In the after noon, I showed the presentation with Thai students.</p>
<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 learned about the management and the treatment of cattle in the farm. The all data in farm should be analyzed with statistics, and I should make the solution based the analysis. I could review the method to think. First, I made hypothesis, verified, and finally made the conclusion and the solution.</p>
<p>Nov 1 (Tue)</p>	<p>In the morning, I reviewed about the test for reproduction, for example rectal palpation and ultrasound method. After that, I actually did the rectal palpation and checking with ultrasound. It was difficult for me, and to diagnose the gestation correctly, more training was needed for me. In that class, I could do palpation with a lot of cow, and train many times.</p>
<p>Nov 2 (Wed)</p>	<p>In the morning, I had a class. In that class, I learned about the anesthesia for cow. The method of anesthesia in Thai was different a little from that in Japan. In the afternoon, I anesthetized a cow actually. The cow was beef cow, so it was very aggressive. Even injection was so difficult. But finally, I could be accustomed to inject.</p>
<p>Nov 3 (Thu)</p>	<p>In that day, I had no class and training. I prepared a presentation with my friends. We had to analyze the milking cow data in demonstration farm. For me, it was not only difficult but also interesting. I thought the appropriate analysis allowed me to understand the cause. To understand the cause is important to solve the problem in farm.</p>





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Nov 4 (Fri)	<p>In the morning, I prepared the presentation.</p> <p>And in the afternoon, I showed the presentation. I learned about the management of bovine. The way to manage in Thai was different from Japan. I thought we had to make the management</p>
Nov 5 (Sat) sut	<p>No training</p>
Nov 6 (Sun)	<p>No training</p>
Nov 7 (Mon)	<p>The equine term had started.</p> <p>In the morning, teacher explained how to examine physical status. I studied about equine little in Japan, so a lot of things are interesting for me. And in the afternoon, I examined the physical status actually. I learned the reason why I use the instrument and do some exam along the method.</p>
Nov 8 (Tue)	<p>I observed the treatment for some cases. Two cases were the checking pregnancy, and the other one was the wound on shoulder. In former cases, we checked by the rectal palpation with the ultrasound. But both horses were not pregnant. In later case, I observed the surgery to close the wound. In the treatment for horse, everyone was more careful than that for cattle.</p>
Nov 9 (Wed)	<p>Through the day, I trained the handling and management. I did the feces collection and physical experiment. And in the afternoon, I helped the surgery operation of castration. I realized that the surgery of large animal had a risk of injuring the surgeon. And in this operation, I could see two castration methods. Observing these, I could understand these method deeply.</p>
Nov 10 (Thu)	<p>I learned the electro-cardiogram (ECG). I did not understand the ECG of large animal, especially horse, very well. So that class lead me to comprehend the ECG deeply. And I could understand how to analyze the ECG.</p>



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Nov 11 (Fri)	<p>I did the physical examination (PE) test. I thought that PE was important to find abnormality. So to find abnormality, I had to know the normal condition.</p> <p>In the afternoon, I treated the horse which had been operated 9 Nov. I understood how to deal with the horse.</p>
Nov 12 (Sat) Sut	No training
Nov 13 (Sun)	No training
Nov 14 (Mon)	<p>In this morning, I treated some horses, and prepared the presentation. In treatment of horse, I observed applying the bandage for a bone fracture horse. This horse had a purulent wound, so doctors changed his bandage everyday. As a result, his wound had become better.</p> <p>In the afternoon, I showed the presentation. Any other students showed other topic presentation, so it was so interesting.</p>
Nov 15 (Tue)	<p>In that day, I had a class of lameness examination. Through this class, I realized that I had to know normal condition and anatomy of horse leg because the important examination was the palpation rather than X-ray examination. In the afternoon, I trained bandaging for horse leg. In bandaging, tightness and cleanliness is needed. Especially tightness, it was difficult for me to keep it.</p>
Nov 16 (Wed)	I was absent because of sickness.
Nov 17 (Thu)	<p>In the morning, I took a rest in my dorm. I went to faculty only in the evening. I washed the horse and do physical examination. I had continued to do like that, and I was accustomed to touch horses.</p> <p>After practical training, I heard friend's presentation. Every group searched very well, and is good at explaining.</p>



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Nov 18 (Fri)	<p>In the morning, I observed treatment for horse. That treatment was the water supplying by injection with nasogastoric tube. It could cause nasal hemorrhagic, so I thought it was difficult.</p> <p>In the afternoon, I took an examination. In this exam., I learned the importance of discussing group mates.</p>
Nov 19 (Sat)	No training
Nov 20 (Sun)	No training
Nov 21 (Mon)	<p>In that day, I went to jangle in Nakhon Pathom. I learned about the wild cow protection project. This animal was a endangered species. And this animal protection could indirectly lead to protect the number of tiger because tiger ate this animal. In the afternoon, I went in jungle, and I observed wild elephant. It was very impressive for me.</p>
Nov 22 (Tue)	<p>I had a class about the wild animal management. Teacher showed a incident of gaur. Gaur is wild cow, and recently a large number of gaurs' death happened. That cause was FMD, and it related with complicated things like political policy, benefit, and so on. So I thought I had to overlook every factor to solve the problem of animals.</p>
Nov 23 (Wed)	<p>I went to the hospital in Kasetsart univ. Bang khen campus. I leaned about exotic animal. I saw a lot of species in this hospital, but I thought the basic way of thinking was same in every species. In diagnosis and treatment, I have to collect enough data, make problem list, diagnose and treat correctly. And I realized I had to know the normal condition of many kinds of species.</p>
Nov 24 (Thu)	<p>In the morning, I observed the hospital. I practiced to diagnose, and I did better than the day before.</p> <p>In the afternoon, I discussed the case. In this discussion, teacher taught me the basic way of thinking with using actual case, so I learned this way very well.</p>



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Nov 25 (Fri)	No training
Nov 26 (Sat)	
Nov 27 (Sun)	No training
Nov 28 (Mon)	<p>I would have stayed in the hospital at Nong Pho until Thursday. In this hospital, they treated cattle and sheep.</p> <p>I visited the farm, and I did rectal palpation and physical examination. I met the calves, which were infected by pneumonia. I saw the real patient of pneumonia, so I reviewed about cow pneumonia.</p>
Nov 29 (Tue)	<p>I visited farms, and I did a lot of rectal palpation. It was first time for me to touch fetus via rectal palpation. It was so interesting, because I knew I could confirm whether this fetus was alive or not.</p> <p>And I reviewed the uterus involution. To get the good estrus cycle, I had to know the normal uterus involution stage about uterus size.</p>
Nov 30 (Wed)	<p>In the morning, I observed the assistance for dystocia of sheep. Doctor pushed the fetus head, and take out the fetus. I helped the injection of iodine to uterus. After all, the fetus was dead, but I learned one of the way to help the dystocia.</p>
Dec 1 (Thu)	<p>In that day, I showed a presentation. This presentation was about the analysis of mastitis data. We compared the data of somatic cell count(SCC) and the data of bacterial species. In <i>Streptococcus agalactiae</i> case, caused contagious mastitis, we could see increasing SCC.</p> <p>It was interesting for me.</p>



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Dec 2 (Fri)	<p>I had the oral examination. It was difficult, but teacher's question was so efficient for understanding.</p> <p>In the evening, we showed presentation about this program. In this program, I learned a lot of things about not only study but also humanity, for example, kindness or compassion. I realized that I had been supported by many people.</p>
Dec 3 (Sat)	No training
Dec 4 (Sun)	No training