



Weekly Report rakunogakuen University Name INOMATA KENTA

Note: Student must submit this report to the teaching staff at your university each week via e-mail and CC CVE office. Not necessary to report on holidays and weekends unless the training was being held.

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|------------------|-------------|
| Sept 9 (Sat) | Thailand |
| Sept 10 (Sun) | NO TRAINING |
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| Sept 11 (Mon) | Prof.Suporn taught us epidemiology. Today is an introduction. She explained about case study. We made case study about a problem that Prof.Suporn talked to us as, for example, some area in Thailand trouble monkey. Monkeys eat foods of agricultural land, attacked people. So, we thought of solution thorough the case study. This will speech next Monday. |
| Sept 12 (Tue) | We studied statistics for the epidemiology. Especially, we studied about data analysis. Epidemiological data can separate two types. One is continuous data, another is categorical data. We used the software called NCSS. Using these data, we drew the Histogram from continuous data. It is too difficult to understand perfectly, so I will review this night. |
| Sept 13 (Wed) | I learned statistics since yesterday. Today, we used the NCSS like yesterday. Using two categorical data, we drew Chi-squared test. We confirmed normal distribution through hypothesis (H_0), so I decided a t-test. If this graph didn't have a normal distribution, this graph was non parametric one, so this graph had no reliability . in this case we need to change the condition. We studied epidemiologic statistics have a complex system for accurate calculation. |
| Sept 14 (Thu) | We studied sample size determination at a.m. Sample size depends on expected prevalence, relative error. And deciding sample size is very important to epidemiology. Through three days, I realized that statistics in epidemiology were important. But if I used this freely, I thought that it became easy to get results. |
| Sept 15 (Fri) | I visited Thai international airport, Suvarnabhumi airport. And studied about quarantine. Previously I have visited quarantine of japan airport (Shintiose airport), so I could compare the difference between Thai and Japan. Especially, I was surprised at difference of measure to rabies quarantine because In Thailand rabies occurs every year. This time, it was a good experience for me. |
| Sept 16 (Sat) | NO TRAINING |



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| Sept 17 (Sun) | NO TRAINING |
| Sept 18 (Mon) | I have had a fever (more than 39.0°C) and diarrhea since Saturday night. So, I went to hospital with Mrs. Khai. In hospital, it was said that you were food poison by doctor and you must be absent from a class until tomorrow. Because Tuesday and Wednesday class is outside activity in staying, I will be absent from a class until Wednesday. |
| Sept 19 (Tue) | NO TRAINING |
| Sept 20 (Wed) | NO TRAINING |
| Sept 21 (Thu) | I recovered from food poison. I prepared for tomorrow speech of epidemiology. Our team investigated water pollution of an area have visited sep19-20(I was absent). We considered the situation in which water was used and through using the polluted water (by <i>E.coli</i> and Salmonella),How many people infected. Through 2 weeks I want to use what I learned. Because I was absent outdoor activity, teammate helped a lot. |
| Sept 22 (Fri) | Using PowerPoint, I spoke about what our team have investigated. We prepared PowerPoint since yesterday, but prof, Spoorn pointed out a lot of things. Other team's speech was so excellent. We must modify points prof, Spoorn pointed out and form this by word (about 20 pages). It's due on 06, 10, 17. I am going to class clinical rotation for 1week since next week, But I must write a text about epidemiology. |



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| Sept 23 (Sat) | NO TRAINING |
| Sept 24 (Sun) | NO TRAINING |
| Sept 25 (Mon) | This week I started clinical rotation of surgery. Today, I was assigned to the Emergencies. Usually, 3 to 6 patients come in emergencies per day, but today 12 patients came. So, it was too busy. A lot of patient came to be injured by other dogs or cats biting. it was the first time for me to see the surgery, so I didn't anything. I was so frustrated because I was just looking. I remained in the hospital after clinical rotation ended at 16:30 because I studied more. |
| Sept 26 (Tue) | I was assigned to the soft tissue. In this section, patient has a problem to soft tissue sees a veterinarian. The number of patients were three. All of three patients was genital diseases. In Thailand, usually domestic animal does not castrate or spray, so genital disease rate is higher than in Japan. Each patient had cryptorchidism, pyometra and cervical hernia. I felt the difference between Thai and Japan culture through the disease. |
| Sept 27 (Wed) | I was assigned to the soft tissue too. I followed Dr. Nuttawan. She was very kind, though she was operating, taught me knowledge of surgery. Some today's patients had a tumor. Tumor was removed from patient, sent to the pathological diagnosis. I had thought that surgery of tumor takes a lot of times (5-6 hours), but actually it was wrong (varied from case to case). The surgery I saw took only 30min-1hour. All of the patients were old, I thought surgery need not be done. |
| Sept 28 (Thu) | I was assigned to the soft tissue too. Today, I followed Dr. Terapat. He is Anesthesiologist and surgeon, so today, I did not surgery assistant only but also checking the anesthesia log of surgery. The patient Dr. Terapat operated was only one case. And this case just castrated. I wanted to check the anesthesia log of surgery because it was chance of studying anesthesia. |



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| Sept 29 (Fri) | <p>It was last day of clinical rotation of surgery. Today's patient was only one case because this animal hospital was close at 12:00 on Friday. This patient had both mammary gland tumor. Generally, mammary gland tumor metastasizes to same side mammary, so it was need to remove all of same side mammary gland. Patient was needed to all mammary gland, because this case was both side tumor. But this case was removed only right side because of owner's request.</p> <p>This week, I studied a lot of things. Usually I am in Virology laboratory, so all of this week was so new to me and good experience.</p> |
| Sept 30 (Sat) | NO TRAINING |
| Oct 1 (Sun) | NO TRAINING |
| Oct 2 (Mon) | <p>We study about pathology in this week. Today, we studied clinical pathology from Dr. Golf. Clinical pathology vet diagnoses the decease from result of hematometry, biopsy from a tumor, necropsy. I was week in detecting abnormal things from this test result because I didn't memorize normal range of value, pathological finding and I was poor at assuming related some things. But, thanks to Dr. Golf the latter became good a little.</p> |
| Oct 3 (Tue) | <p>I necropsied dead dog that had the symptoms of diarrhea, abdominal pain, distension and organomegaly. We removed all organs from body and detected abnormal pathological findings. This dog's Lung became red hepatization, foamy exudate, so we diagnosed this dog have a pneumonia. Next, we detected heart enlargement and blood clot in left ventricle, so we diagnosed this dog have cardiomyopathy and cardiomegaly. Finally, we diagnosed that cause of death was cardiopulmonary arrest caused by pneumonia and cardiomyopathy.</p> |



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| Oct 4 (Wed) | Today's class was neuropathy for dog and cat. I understood more easily this class than other class because we already studied about neuropathy in japan. But it is a lot of medical term I had not learned until now. Neuropathy shows up a lot of medical term, so I thought I must have learned more. |
| Oct 5 (Thu) | I studied about exotic animal (AM) and swine (PM). Exotic animal class were especially about rabbit. In Thailand, the most kept exotic animal is rabbit. So, it is necessity to study rabbit medicine. I was interested in this class because I had kept rabbit for 12 years. But almost all class were spent on POMR. POMR stands for Problem oriented medical record and is important to diagnose disease about all species. For clinical rotation in Kanpensen campus, I must memorize POMR. |
| Oct 6 (Fri) | It was last day of pathology classes. Today, I studied about equine decease. Case that teacher showed us was infected by <i>Pythim insidiosum</i> . I didn't know this pathogen because this pathogen didn't exist in Japan and only exist in tropical area. this pathogen was fungi, infect horse, cow and so on thorough contaminated water of rice field etc. I wanted to study about infectious decease that doesn't exist in Japan in Thailand so I was fun to know this pathogen. |
| Oct 7 (Sat) | NO TRAINING |
| Oct 8 (Sun) | NO TRAINING |
| Oct 9 (Mon) | This week class was case study about infectious disease. We were separated to 2 groups; one group consists of 6 Thai students and 6 Japanese students. Group thought a case and discussed it. Moderator and 2 nd moderator were appointed each section. I was appointed to moderator, but didn't act well as moderator though Thai student helped me a lot. |



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| Oct 10 (Tue) | Since yesterday, we have discussed about pig patients. We concluded that these patients had PCV. To confirm diagnose we did PCR from DNA lysis. In this result, sample was positive so, this case diagnose was confirmed. I realized it was too difficult and too important to diagnose by myself from first to end. |
| Oct 11 (Wed) | I studied about a new case about cat disease. Same as last time, we discussed the case, in which we constructed and proved a hypothesis. We conducted this disease was infection of virus especially FIP or FeLV. Tomorrow, we will do IHC and RT-PCR from lysis to detect what is the cause of disease. |
| Oct 12 (Thu) | We continued to discuss tomorrow case. We conducted that from new information was handed out to us today this patient had FIP. To confirm this diagnose we did RT-PCR from RNA lysis. RNA was easy to be contaminated and decomposed so, we must have done carefully lysis and RT-PCR. Through this week, I felt student in this university was so smart because they spoke English well and had a lot of knowledge about veterinary medicine. I respect them. |
| Oct 13 (Fri) | The King, R.I.P. |
| Oct 14 (Sat) | NO TRAINING |
| Oct 15 (Sun) | NO TRAINING |



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| Oct 16 (Mon) | I studied clinical practice at animal hospital in Bangken campus. Dr. Nirut taught me how to do neurological examination. Dr. Nirut was doctor of neurology. Neurological disease showed the sign that abnormal behavior. When we diagnose about possible neurologic patient, we must diagnose the disease by neurological examination, X-ray, CT, MRI. In these test, I thought it was important because of focusing on disease. |
| Oct 17 (Tue) | Today's clinical practice was OPD (Out Patient Department). This time, originally 6 patients was going to come to the OPD but in reality, only 3 patients came OPD. I heard doctor not to come the OPD was common in Thailand. So, this practice ended at A.M. |
| Oct 18 (Wed) | I studied about radiology. Animal hospital in KU has three machines for diagnostic imaging and two machines for radiation therapy. Especially I was surprised at radiation therapy machine. KU animal hospital has radiation therapy machine can irradiate multiple way laser. This machine was too expensive but cost of treatment was too cheap. I wondered if this hospital was the red. Because KU was royal university, I thought government helps this hospital at cost. |
| Oct 19 (Thu) | Today, my clinical practice was OPD. This case was otitis externa. Dr. Gunn that was today's teacher said me to search about otitis externa. We look up system, cause, examination and treatment about this disease. After lunch we gave speech to Dr.Gunn. Thanks for this search, I deepened the knowledge. |
| Oct 20 (Fri) | This day was last day at Bangken campus and clinical rotation of small animal. Dr.Gunn taught us OPD same as yesterday. Dr.Gunn explained in detail about patient and symptom. So, I understood more deeply. |
| Oct 21 (Sat) | Moved to Kanpensen. |



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| Oct 22 (Sun) | NO TRAINING |
| Oct 23 (Sun) Chulalongkorn Memorial Day | NO TRAINING |
| Oct 24 (Tue) | NO TRAINING |
| Oct 25 (Wed) | NO TRAINING |
| Oct 26 (Thu) | NO TRAINING |
| Oct 27 (Fri) | NO TRAINING |
| Oct 28 (Sat) | NO TRAINING |



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| Oct 29 (Sun) | NO TRAINING |
| Oct 30 (Mon) | <p>We went to Khanphaeng Saen campus 2 weeks ago. Today is first class at this campus. I study about equine by last week. In Japan, I have nearly studied about horse, so I'm look forward to this activity.</p> <p>Afternoon, we went to another farm in this campus and was lectured about physical examination.</p> <p>I'm assigned to treatment of Chinderella did surgery root abscess in left upper premolar. I must do physical examination every morning.</p> |
| Oct 31 (Tue) | <p>I visited to horse clinic in army hospital. All army horses in Thailand come to This hospital. Thai army keeps horse because of ceremony. I saw many cases: capped elbow, laminitis, dental care, lymphangitis and so on.</p> <p>Though I don't know Japanese cases, I was surprised at many horses having laminitis.</p> |
| Nov 1 (Wed) | <p>I observed surgical removal of a mass around mouse. Doctor said this mass was made from <i>Pythim insidiosum</i> previously studied in Bangken campus.</p> <p>I got precious experience because I studied about this infectious disease in both class and activity.</p> |
| Nov 2 (Thu) | <p>Today I did rectal palpation and ultrasound test of ovary. And Dr, Kanita taught us estrus cycle of equine. I was not good at thrematology because I don't understand perfectly about hormone of estrus. So, I can't understand this lecture.</p> <p>Afternoon, We prepared presentation due on next week Friday about Chinderella.</p> |
| Nov 3 (Fri) | <p>New patient didn't come in this hospital, so I prepared presentation.</p> <p>This night The traditional festival "Loi Kra Thong" was held in this campus. Flowing Kra Thong on river, I apologized to the Earth for using water, eating food, polluting environment to use them from now on. Thank you for giving great limited product in the earth.</p> |



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| Nov 4 (Sat) | NO TRAINING |
| Nov 5 (Sun) | NO TRAINING |
| Nov 6 (Mon) | We did necropsy. This patient diseases were lymphangitis in left high limb and laminitis in light high limb. The horse is animal which limb is too important to, so all we can do to this horse was euthanasia. I wanted to see this patient discharge. I had heard that Technique in Thailand about equine was less than Japan, so if here could have been Japan this horse could helped. |
| Nov 7 (Tue) | Today, We went to Nakhon Nayok Province for home visit. It took me about 4 hours one way. But the home visit finished at about 60min. I think Doctor wanted us to do sightseeing. I was very fun. |
| Nov 8 (Wed) | Today was surgery day. Today's case was cryptorchidy. Yesterday I have watched castration in using local anesthesia at home visit. And today's case was castration in using general anesthesia. In large animal, general anesthesia need an extensive preparation. In Japan, usually horse is not castrated because there is probability to use horse for breeding, but in Thailand horse that act violently is castrated. |
| Nov 9 (Thu) | Today, We prepared power point for presentation. Our group will speech about patient has root abscess on left 3 rd premolar, so I searched and studied about teeth of equine. |



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| Nov 10 (Fri) | Today was presentation about my patient and examination about equine. Thai student in same group were willing to make almost all the power point of presentation. I realized my stupidity. Examination was group discussion. Equine class was last today. |
| Nov 11 (Sat) | No Training |
| Nov 12 (Sun) | No Training |
| Nov 13 (Mon) | From today until two weeks later we study about bovine. This week, our group took an activity in KPS demonstrate farm. This farm is unsanitary, so it has a lot of problem, for example mastitis, low milk yield and so on. We must select one topic and investigate it. Our group selected negative energy balance in early lactation period in this farm. |
| Nov 14 (Tue) | Today, we corrected blood samples for investigating BHBA (beta hydroxybutyrate acid). These results will be gotten yesterday. BHBA in blood is gold standard of ketosis type 2 that often occurs in early lactation period. In these results, we will do statistics and make graph. |
| Nov 15 (Wed) | We measured BCS (body condition score) in early lactation period and dry period by using 5 scores to compare BCS between 2 periods. And this afternoon, yesterday's blood test got result. Positive sample was only one sample. We made Power Point for presentation. |
| Nov 16 (Thu) | Today we prepared for tomorrow presentation all day with talking fun with Thai student. I was assigned to presenter of presentation, so I practiced a lot for tomorrow. I heard Thai student of 6 th grade must speak English in presentation at all activity. I was surprised it and respected them. |



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| Nov 17 (Fri) | We did presentation of negative energy balance in early lactation period. I presented about methods and results of this investigation. |
| Nov 18 (Sat) | No Training |
| Nov 19 (Sun) | No Training |
| Nov 20 (Mon) | This week our group were separated to 3 group. Today, I went to visit a farm. almost all the Thailand farm is different to Japanese in how to keep bovine. I cannot say Thailand farm being clean. Floor was a lot of feces and urine. And milk yield was not much than japan. But in Thailand, these are normal. I was surprised at these things because I took like Japanese hygiene for granted. |
| Nov 21 (Tue) | Today, Thai student in same group was absent because of graduate ceremony. So, today's class was only Japanese student. We didn't go to other farm and stay hospital. Bovine not only but also sheep or goat come to bovine unit. So, we surgeried about toxemia of pregnancy of sheep. Fetus was removed from uterus. |
| Nov 22 (Wed) | The sheep had surgeried yesterday because of toxemia of pregnancy was died. This case might be the miss of doctor because doctor had mistaken the diagnosis. If that had been true, I would be sad. And I did hoof cutting of elephant. Elephant was not artiodactyla but hoof cutting was done by Vet of bovine. |
| Nov 23 (Thu) | Today, we went to Bangkok to visit ICVS 2017. Veterinarians in ASEAN came to this conference to share each knowledge about veterinary. Almost all the speech was spoken by Thai. So, I heard lectures spoken by English. |



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| Nov 24 (Fri) | No Training |
| Nov 25 (Sat) | No Training |
| Nov 26 (Sun) | No Training |
| Nov 27 (Mon) | <p>Last two weeks started. This week is about wild animal and exotic animal unit.</p> <p>We studied about elephant medicine and how to preserve wild animal in national park. Thailand has more interesting about wild animal than Japan. This Friday we will go to national park in Kanchanaburi, but Japanese student can't go because of VISA extend.</p> |
| Nov 28 (Tue) | <p>We went to Bangken campus hospital to study about exotic animal.</p> <p>We interviewed owner and did medical examination by physical examination. Today's patient was rabbit had head tilt and facial abscess. We must create the presentation about this.</p> |
| Nov 29 (Wed) | <p>We went to Bangken campus hospital, same as yesterday. Bird, otter, rabbits came. Otter prohibit keeping in Thailand law, but this owner took it this hospital. She said I had took weak otter outside, so I came to hospital with it. I thought that she said lie because this otter had too beautiful hair.</p> |
| Nov 30 (Thu) | <p>Morning: Presentation about exotic animal unit (head tilt rabbit)</p> <p>Evening: Presentation about bovine unit (trachiitis)</p> <p>Today I did two presentations.</p> |



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| Dec 1 (Fri) | No Training because of VISA extend only Japanese student. Though I don't know reason, this week's weekly report disappeared 3times. I wrote the same script 4 times. Please don't anymore!! |
| Dec 2 (Sat) | No Training |
| Dec 3 (Sun) | No Training |
| Dec 4 (Mon) | This week we moved to Nong Pho campus for bovine unit. Nong Pho has a brand of milk, so there are a lot of cows. How to keep cows was same as KPS farm. But hygiene score is more dirty. Doctor said farmer doesn't listen to veterinarian saying because they had never changed how to keeping cows and don't have knowledge about cow. |
| Dec 5 (Tue) | Today's farm was near jangle. In this farm, some animals lived in same space; Ex, chicken, duck, dog, cat and cow. I thought that this farm was too dangerous because it was possible to transport zoonosis with each other. Almost all the Thailand farm was like this farm. Though it is not relationship to today's class, Today I did not have any good things. |
| Dec 6 (Wed) | We attended to conference about milk quality of bovine in KPS campus. This theme was interesting for me but this conference talked in Thai all so, I could not understand anything. Dormitory of Nong Pho campus was full of insects. |



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| Dec 7 (Thu) | <p>Last activity in Nong Pho and Thailand. I did house visit. I had never detected the ovary by rectal palpation, but today I could touch the ovary for the first time. I was pleased at detected it last day. In addition to it, I saw patients that had retained placenta and actinomycosis caused by <i>Actinomices bovis</i>. It was precious experience for me.</p> <p>Tomorrow is last day of class. Examination, Presentation, Party.</p> <p>I feel like I like I want to return to Japan, but at the same time I don't.</p> <p>Time is gone.</p> |
| Dec 8 (Fri) | <p>Last day. I had an examination of bovine unit today. Examination separate to two parts; writing test and oral test. As the complication of this program I did the best.</p> <p>After examination, we did presentation about this program. Presentation of HU group was excellent. Through this program, I wanted to speak English well, when I saw HU students speaking very well, my English skill cannot be improved. As I think I can't meet Thai friend any more, I already miss everything.</p> <p>Thank you for 3 months. I love you everyone.</p> |
| Dec 9 (Sat) | No Training |
| Dec 10 (Sun) | Good Bye KU |
| Dec 11 (Mon) | Return to JAPAN |