

(~~Abroad~~ • Domestic) Internship report form (Student)

2018/2/27 (Year/Month/Day)

Name	Fang Jing
Laboratory	Veterinary Surgery
Year (Grade)	D4
Internship institution	Veterinary Medical Center, Obihiro University of Agriculture and Veterinary Medicine
Internship period	Internship period: 02/19/2018 - 02/23/2018 (Departure Date from Sapporo: 02/18/2018, Arrival Date in Sapporo: 02/24/2018)
Purpose	To practice and learn advanced clinical techniques

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

- The reason why you chose this institute

Considering my career as a veterinarian in the future and the application of veterinary surgical research, Veterinary Medical Center in Obihiro University of Agriculture and Veterinary Medicine is very suitable internship training for me. It provides advanced veterinary teaching in both research and clinical practice in several fields. Especially, I could able to participate in both internal medicine and surgery at the same time. Further, this school is also famous for the large animal practice. I supposed to learn more of large animal. Therefore, this would be great opportunity for me to expand my work direction in the future.

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

My five-day internship started from the morning of February 19th, I was honored to come to Obihiro University of Agriculture and Veterinary Medicine. The hospital is divided into internal medicine, surgery and ophthalmology department. Unlike Hokkaido University Animal Hospital, the boundaries between internal medicine and surgery are less clear. Such as internal medicine doctors will do surgery and admit to orthopedic cases. Therefore, I have also been able to learn the whole admissions process from a more comprehensive perspective.

The hospital's operation started from 8 am for administration hospitalized animals, including cage cleaning, feeding, clinical examination and more. The main work was done by students and nurses. In principle, at 9 o'clock hospital officially begins admission the clinical cases. During this week, total of 52 cases of

animals were seen in the hospital, including 8 cats and 44 dogs. This includes 20 cases of cancer, 6 cases of cardiovascular disease, 5 cases of endocrine disease, 3 cases of orthopedics and so on. I have seen many interesting cases in it. It rare to



see endocrine diseases for me before I came this hospital, such as diabetes, Cushing's syndrome. This is a new learning process for me who had little experience on internal medicine cases to know about new knowledge such as long-term clinical management of endocrine diseases including use of some new instruments, such as timely

measurement of blood glucose equipment. Learning the use of these instruments allows me to keep track of clinical data and monitor the health of animals in future work. At the same time, following the clinical examination, I also observed the clinical application of X-ray, ultrasound, CT and MRI. It is worth to mentioning that CT equipment also could do both large animals and small animal inspection. Although it is a pity that the horse CT examination was temporarily canceled, I was very pleased to see the CT machine for large animal, and I asked the doctor some information about it.



As Hokkaido University Animal Hospital does not have specialized ophthalmologist, the ophthalmic case is also a very unique experience. This ophthalmic case was a 9-year-old working dog. Glaucoma was diagnosed 3 months ago. At the beginning, right eye started tears, corneal opacity and angiogenesis. There was some granulation tissue in the corneal central. It presumed to be keratitis. This review was the third time to go to this hospital. And now the symptoms have eased and gave a prescription of difluprednate and hyaluronic acid eye drops. Through this case, I also saw the application of hyaluronic acid in

ophthalmology, which will help me understand the mechanism of hyaluronic acid and understand its clinical application.

During the internship, I participate in two operations. One was taking biopsy of the liver and sterilization, and the other is the removal of a mass in the pelvic cavity. The second case of surgery was more difficult, but the problem was quickly resolved by the doctor approaching from the ventral side. By observing the surgical procedure, I learned that the operation mode including the instruments, the preoperative and postoperative management and the specific surgical techniques.



The hospital operation and management are methodical. During the internship, I visited the hospital-related facilities. And I also liked the overall design of the hospital, such as the reception room is very reasonable. In recent years, this hospital had also been renewed. The management of environmental sanitation is also well, including disinfection, routine inspection and so on. The hospital adopts the method of electronic medical records to facilitate the management and inspection of records. There are a total of 10 doctors in this hospital. Among them, one is resident doctor, two doctors in charge of imaging and one is doctor in charge of anesthesia. During the internship, I learned a lot about their specific responsibility, and actively discussed clinical treatment and cases with them

which was beneficial for me.

Fortunately, on the afternoon of the fourth day of the internship, I followed the professor of theriogenology to observe and assist in the clinical diagnosis and treatment of large animal. The main job is to go to a dairy farm, to do the per rectal examination for dairy cows. We used ultrasound to exam the ovary and the uterus of cows to determine estrus status and pregnancy status. Finally, some dairy cows had muscle injection of prostaglandin and gonadotropin-releasing hormone to induce estrus. In the meantime, by visiting this dairy farm, I was able to learn basic management of animal, including feed, plot, modern mechanized smart milking, and monitoring of cow health. Professors' detailed and patient explanation let me have a preliminary understanding of the clinical diagnosis and treatment of large animals. This might undoubtedly benefit for me who have not known about the large animal clinic.



Finally, I would like to thank professors and staff members of Obihiro University of Agriculture and Veterinary Medicine for their support and warm welcome during the internship. Also I would like to thank Hokkaido University, Leading Program and laboratory of veterinary surgery for their support and encouragement. Although this internship was only a short week, I learned about the basic modes of clinical diagnosis and treatment of small animals and large animals and conducted an in-depth understanding of the operating mode of Small Animal Hospital. I have learned new clinical knowledge and techniques and applied the clinical knowledge I have learned. This might be very important training for my future career development.

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

I studied veterinary surgery at Hokkaido University under the Leading Program.

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