Collaboration of Veterinary Education between Japan and Thailand for Sound Evolution of Asia
Hokkaido University

Advanced Seminar in Veterinary Clinics: Small Animals
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<tr>
<td>Course Instructor</td>
<td>Mitsuyoshi TAKIGUCHI, Kensuke NAKAMURA, Noboru HIGASHI, Kiwamu HANAZONO</td>
</tr>
<tr>
<td>Course Overview:</td>
<td>Through communication with owners and clinical activities at the Veterinary Teaching Hospital, students cultivate problem-solving abilities required for caring for companion animals especially with neck and thoracic diseases.</td>
</tr>
</tbody>
</table>
| Course Goals:                                    | 1. To be able to conduct a medical interview with an owner  
                                                   2. To be able to design a diagnostic scheme  
                                                   3. To be able to make a differential diagnosis based on examination findings  
                                                   4. To be able to design a treatment plan and evaluate therapeutic effectiveness |
| Remarks:                                         | For internal diseases of companion animals with especially neck and thoracic lesions, Students learn high knowledge and skills in making diagnostic schemes, treatment plans, and evaluating therapeutic effectiveness through at least one week clinical activities. |
| Maximum of 5 students                            |                                                     |

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Companion Animal Medicine Clinic II</th>
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</thead>
<tbody>
<tr>
<td>Course Instructor</td>
<td>Mitsuyoshi TAKIGUCHI, Hiroshi OHTA, Keitaro MORISHITA</td>
</tr>
<tr>
<td>Course Overview:</td>
<td>Through communication with owners and clinical activities at the Veterinary Teaching Hospital, students cultivate problem-solving abilities required for caring for companion animals especially with abdominal diseases.</td>
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</table>
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                                                   2. To be able to design a diagnostic scheme  
                                                   3. To be able to make a differential diagnosis based on examination findings  
                                                   4. To be able to design a treatment plan and evaluate therapeutic effectiveness |
| Remarks:                                         | For internal diseases of companion animals with especially abdominal lesions, Students learn high knowledge and skills in making diagnostic schemes, treatment plans, and evaluating therapeutic effectiveness through at least one week clinical activities. |
| Maximum of 5 students                            |                                                     |
### Course Title
Companion Animal Surgery I

### Course Instructor
Masahiro OKUMURA, Ryosuke ECHIGO, Takaharu ITAMI, Tomohito ISHIZUKA

### Course Overview:
Through communication with owners and clinical activities at the Veterinary Teaching Hospital, students cultivate problem-solving abilities required for caring for companion animals especially with orthopedic and neurological diseases.

### Course Goals:
1. To be able to conduct a medical interview with an owner
2. To be able to make a differential diagnosis based on examination findings
3. To be able to design a treatment plan and evaluate therapeutic effectiveness
4. To be able to make decision to choose appropriate surgical procedures to respective pathological conditions and to estimate possible prognostic situations
5. To be able to plan entire course of pain management and peri-operative anesthesia for surgical interventions for respective cases

For companion animals with orthopedic and neurological disorders, students learn highly sophisticated knowledge and skills in making diagnostic schemes, treatment plans including surgical or non-surgical interventions and anesthesia, and evaluating therapeutic effectiveness through at least one week clinical activities.

### Remarks:
Maximum of 5 students

### Course Title
Companion Animal Surgery II

### Course Instructor
Kenji HOSOYA, Satoshi TAKAGI, Yuki HOSHINO, Takaharu ITAMI, Tomohito ISHIZUKA

### Course Overview:
Through communication with owners and clinical activities at the Veterinary Teaching Hospital, students cultivate problem-solving abilities required for caring for companion animals especially with surgical disorders in soft tissues.

### Course Goals:
1. To be able to conduct a medical interview with an owner
2. To be able to make a differential diagnosis based on examination findings
3. To be able to design a treatment plan and evaluate therapeutic effectiveness
4. To be able to make decision to choose appropriate surgical procedures to respective pathological conditions and to estimate possible prognostic situations
5. To be able to plan entire course of pain management and peri-operative anesthesia for surgical interventions for respective cases

For companion animals with pathologies in soft tissues, students learn highly sophisticated knowledge and skills in making diagnostic schemes, treatment plans including surgical or non-surgical interventions and anesthesia, and evaluating therapeutic effectiveness through at least one week clinical activities.

### Remarks:
Maximum of 5 students
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Companion Animal Oncology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Instructor</td>
<td>Kenji HOSOYA, Satoshi TAKAGI, Yuki HOSHINO, Takaharu ITAMI, Tomohito ISHIZUKA</td>
</tr>
</tbody>
</table>

**Course Overview:**
Through communication with owners and clinical activities at the Veterinary Teaching Hospital, students cultivate problem-solving abilities required for caring for companion animals especially with tumorous diseases.

**Course Goals:**
1. To be able to conduct a medical interview with an owner
2. To be able to make a differential diagnosis based on examination findings
3. To be able to design a treatment plan and evaluate therapeutic effectiveness
4. To be able to make decision to choose appropriate surgical procedures to respective pathological conditions and to estimate possible prognostic situations
5. To be able to plan entire course of pain management and peri-operative anesthesia for surgical interventions for respective cases

For companion animals with pathologies in oncology, students learn highly sophisticated knowledge and skills in making diagnostic schemes, treatment plans including chemotherapy, radiotherapy and surgical resection, including pain management and anesthesia, and evaluating therapeutic effectiveness through at least one week clinical activities.

**Remarks:**
- Maximum of 5 students
Course Overview:

Students experience laboratory practices, research seminars, lectures, and other activities, to learn basic/advanced skills/methodology in the research on microbiology and infectious diseases, and also in the different fields of veterinary science, through the rotation of research laboratories. Through the rotation of research laboratories, students also acquire basic and professional knowledge on research activities in the field of veterinary medicine.

Course Goals:

1. To learn basic skills/techniques/methodology in the research on microbiology and infectious diseases
2. To learn basic skills/techniques/methodology in each of the research laboratories
3. To understand the details of research projects/themes in each of the research laboratories

Course Schedule:

1. Students will spend 10 days (2 weeks) for research laboratory rotation (Parts I and II).
2. **Part I**: student will choose one of the 5 laboratories (Laboratories of Microbiology, Parasitology, Infectious Diseases, Public Health, and Veterinary Hygiene; 2 students for each of the laboratories), and do modern laboratory practices, including lectures, experiments, and research seminars/discussion, etc in the research on microbiology and infectious diseases.
3. **Part II**: student will choose one of the 3 courses (Courses A, B, C); maximum of 4 students for each of the courses), and do modern laboratory practices, including lectures, experiments, and research seminars/discussion, etc (see Table below).
4. This course also includes a seminar in advanced immunology (all students).
5. Students can not transfer to other courses during the rotation.
6. Spoken language of the courses is English.
7. Courses are open twice (5-6th and 11-12th weeks) each academic year, and students take either one of the two.

Courses for Part II

<table>
<thead>
<tr>
<th>Course A (Maximum of 4 students)</th>
<th>Course B (Maximum of 4 students)</th>
<th>Course C (Maximum of 4 students)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 1: Anatomy</td>
<td>Lab 2: Biochemistry</td>
<td>Lab 3: Toxicology</td>
</tr>
<tr>
<td></td>
<td>Lab 2: Comparative Pathology</td>
<td>Lab 3: Radiation Biology</td>
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<tr>
<td></td>
<td>Lab 2: Laboratory Animal Science and Medicine</td>
<td>Lab 3: Wildlife Biology and Medicine</td>
</tr>
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</table>

Remarks:

Part I: 2 students for each of the laboratories
Part II: Maximum of 4 students for each of the courses
The University of Tokyo

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The University of Tokyo

Course Title | Practice of Pathology (Diagnostic Pathology)

<table>
<thead>
<tr>
<th>Type</th>
<th>Exercise</th>
<th>Number of credits</th>
<th>Hours</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2 (3.2)</td>
<td></td>
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</tbody>
</table>

Course Instructor: Hiroyuki NAKAYAMA, Kazuyuki UCHIDA, James K. CHAMBERS, Masaya TSUBOI

Course Overview:

The practice course deals with diagnostic pathology in small animals, especially with neoplastic diseases. Skills for conducting necropsy, histopathology and cytology examinations as well as clinicopathological and morphological natures of tumors of neoplastic diseases are provided.

Course Goals:

1. To understand morphological characteristics of tumors in small animals
2. To understand principal protocols of necropsy, histopathology and cytology examinations

Course Schedule:

1. Principal techniques for necropsy, histopathology and cytology - Day 1
2. Description methods for necropsy, histopathology and cytology findings - Day 1
3. Learning through clinical cases - I - Day 2
4. Learning through clinical cases II - Day 3
5. Preparations and discussion for case report - Day 4
6. Special stainings and immunohistochemistry - Day 4
7. Case report presentation and discussion - Day 5

Remarks:

May have a maximum number of students
### Course Title
Practice of Virology and Immunology

<table>
<thead>
<tr>
<th>Type</th>
<th>Exercise</th>
<th>Number of credits</th>
<th>1 (1.6)</th>
<th>Hours</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Instructor</td>
<td>Taisuke HORIMOTO, Shin MURAKAMI</td>
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</table>

**Course Overview:**

In this practice, students can learn basic procedures for virus isolation from infected animals, and for serological, antigenic, and genetic diagnosis for viral infections.

**Course Goals:**

1. To understand the basic knowledge of viral infectious diseases
2. To understand the clinical diagnosis for viral infectious diseases

**Course Schedule:**

1. Virus isolation from infected animals
2. Serological method -1 (Virus-neutralization test)
3. Serological method -2 (Hemagglutination-inhibition test)
4. Serological method -3 (ELISA )
5. Antigenic diagnostic method (Immuno-chromatography test)
6. Genetic diagnostic method -1 (PCR)
7. Genetic diagnostic method -2 (LAMP)

**Remarks:**
Course Title | Practice of Veterinary Public Health
---|---
Type | Exercise | Number of credits | 0.5 (0.8) | Hours | 
Course Instructor | Katsuaki SUGIURA, Kazuhiro HIRAYAMA

Course Overview:

In this course, students learn basic and applied epidemiological techniques for analysis of surveillance data and risk assessment for animal health and food safety. Students exercise with actual or mock data.

Course Goals:

1. To understand basic epidemiological procedures to analyze data
2. To learn how to use software for statistics
3. To run epidemiological exercise with actual or mock data

Course Schedule:

1. Lecture and exercise for statistic software
2. Analysis of actual or mock data with statistic software
3. Presentation and discussion of analyzed data

Remarks:
Course Title: Practice of Food Hygiene

Course Instructor: Akio YAMADA, Kazuhiro HIRAYAMA

Course Overview:

In this course, students learn basic knowledge and procedures to assure food safety, mainly in Japan. Students visit important site(s) for food safety assurance such as meat hygiene inspection office at slaughterhouse. Students also learn and practice methods to presume the cause and situation in food poisoning cases and to deal and proceed veterinary public health problems through exercise and simulation.

Course Goals:

1. To understand principle and measures to assure food safety
2. To understand Japanese and Thai systems for food hygiene and veterinary public health
3. To understand and practice basic procedures to solve problems in veterinary public health and food hygiene
4. To learn how to discuss, conclude and communicate the results of analysis on the problems in veterinary public health and food poisoning cases

Course Schedule:

1. Visit important site(s) to assure food hygiene and safety such as meat hygiene inspection office at slaughterhouse
2. Discuss the differences in food hygiene and food safety measures between Thailand and Japan
3. Lecture for methods to solve basic food safety and veterinary public health problems
4. Simulation on the procedure for countermeasures against health hazard cases
5. Practice for communication with related sections about health hazard cases
6. Exercise on a case of food-borne health hazard to presume cause and situation
7. Practice for the skill to discuss, conclude and present the results

Remarks:
### Course Overview:

Small animal surgical rotations utilize the case method approach. Under supervision the student records case histories, performs physical or orthopedic examinations as well as diagnostic and basic surgical and anesthetic procedures, and learns basic case and client management.

### Course Goals:

1. To obtain basic skill of out patient clinic
2. To obtain basic techniques of surgery and anesthesia/analgesia

### Course Schedule:

1. Preliminary practice (out patient service, surgery, anesthesia) for three days
2. Soft tissue surgery, out patient clinic for two days
3. Orthopedics & Neurosurgery, out patient clinic for two days
4. Soft tissue surgery, surgery and anesthesia/analgesia for two days
5. Orthopedics & Neurosurgery, surgery and anesthesia/analgesia for two days
6. Case presentation for one day

### Remarks:

The student who doesn’t belong to School of Veterinary Medicine in Japan is not allowed to do any medical activity even under his/her supervisor’s surveillance by law.
Course Title: Rotated Practice of Small Animal Internal Medicine

<table>
<thead>
<tr>
<th>Type</th>
<th>Exercise</th>
<th>Number of credits</th>
<th>4 (6.4)</th>
<th>Hours</th>
<th>-</th>
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<tbody>
<tr>
<td>Course Instructor</td>
<td>Hajime TSUJIMOTO, Naoaki MATSUKI, Koichi OHNO, Tomohiro YONEZAWA</td>
<td></td>
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</table>

Course Overview:

The student records case histories, performs physical examinations of patients under the supervision of doctors. The student also learns diagnostic, basic medical procedures, basic treatments, and case and client management through discussion with members.

Course Goals:

1. To design a diagnostic scheme.
2. To make a differential diagnosis based on examination findings.
3. To design a treatment plan and evaluate therapeutic effectiveness.

Course Schedule:

- Guidance for clinical rotations in the Veterinary Medical Center
- Clinical rotations (around 8 weeks)
- Writing a report and give a presentation of one specific case

The student should have knowledge of the following:

1. Signs and symptoms of the condition
2. Differential diagnosis - what conditions may present in a similar fashion
3. Basic pathophysiology
4. Primary work up and treatment
5. Presentation techniques

Remarks:

The student who doesn't belong to School of Veterinary Medicine in Japan is not allowed to do any medical activity even under his/her supervisor’s surveillance by law.
Rakuno Gakuen University

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Course Title: Clinical Rotation (Livestock Animals)

<table>
<thead>
<tr>
<th>Type</th>
<th>Practice</th>
<th>Number of credits</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>270</td>
<td></td>
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</tr>
</tbody>
</table>

Course Instructor: Motoshi Tajima, Masateru Koiwa, Satoshi Kawamoto, Kiyoshi Taguchi, Kazuyuki Suzuki, Masaharu Moriyoshi, Hiromichi Ohtsuka

Course Overview:
Through a combination of clinical seminars, training for basic clinical skills and practice at the Veterinary Teaching Hospital, students gain clinical skills and problem-solving abilities required for practitioners of production animals.

Course Goals:
- To be able to gather information from an owner via medical interview
- To be able to design a diagnostic scheme and explain it to the owner
- To be able to make a differential diagnosis based on examination findings
- To be able to design a treatment plan and explain it to the owner
- To be able to explain an overview of feeding management and reproduction management to the owner, with the objective of preventing major diseases.

1. Clinical seminars
Students participate in clinical seminars and workshops sponsored by the division or other sponsored organizations, and learn case studies, the latest theories, and practical skills. In the case of participation in seminars outside the Veterinary Teaching Hospital, the submission of a report will be requested.

2. Practice at teaching hospital
Students are allocated to either 2 of following 4 stations (1 week each)

1) Production animal internal medicine I
Along with livestock handling methods, techniques for vital observation and clinical pathology examinations that form the basics of diagnosis, and methods for analyzing these, students grasp basic techniques such as medication administration from the treatment side.

2) Production animal internal medicine II
Through house-call examinations and treatments, students learn the techniques of medical interview, examination, diagnosis, and treatment required for primary medical care of production animals. Further, students learn examination methods and therapeutic techniques for differential diagnosis through the examination and treatment of hospitalized livestock (secondary medical care).

3) Production animal surgery
Along with learning the correct diagnosis, treatment and techniques, and hospitalization management methods for surgical diseases of production animals, students learn about the causes of the diseases and methods to prevent them. Students will visit farms as necessary and perform hands-on learning of diagnostic and disease-prevention methods for cattle herds.

4) Theriogenology
Along with learning techniques for making diagnostic schemes and treatment plans and evaluating therapeutic effectiveness for reproductive disorders of production animals, students learn the examination techniques, data collection, and analysis methods necessary for reproduction management.

Remarks:
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Advanced Hygiene and Environmental Science I</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Practice, Elective</td>
</tr>
<tr>
<td><strong>Number of credits</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Course Instructor</strong></td>
<td>Katsuro Hagiwara, Shin Oikawa, Yutaka Tamura, Ken Nakada, Hajime Nagahata, Hidetoshi Higuchi, Yasukazu Muramatsu, Jun Noda, Kohei Makita, Masaru Usui, Mitsuhiko Asakawa, Hidetomo Iwano</td>
</tr>
</tbody>
</table>

**Course Overview:**

Through a combination of laboratory training for basic/advanced diagnostic skills and seminars on ‘one health’ issues, students understand technology and administration related to safety and sustainable food delivery.

**Course Goals:**

- To learn advanced procedures for the diagnosis of diseases and risk of health problems
- To learn advanced procedures for the diagnosis of food and environmental safety
- To be able to explain how the safety of foods from different sources is guaranteed in both aspects on technology and administration

1. Laboratory Rotation

   Students will be allocated to laboratories for 2 weeks.

   1) Laboratory of Food Microbiology and Food Safety
   2) Laboratory of Veterinary Herd Health
   3) Laboratory of Animal Health
   4) Laboratory of Zoonotic Diseases
   5) Laboratory of Environmental Health Science
   6) Laboratory of Veterinary Epidemiology
   7) Laboratory of Veterinary Virology
   8) Laboratory of Veterinary Parasitology
   9) Laboratory of Veterinary Biochemistry

2. Seminar for International Veterinary Teaching Program (2015): Farm to Table- Safe and Sustainable food delivery

   Summary: More than 60% of Japanese food products depend on the foreign countries. Livestock products imported from Asia accounts for approximately 25% of the imports; in particular, many imported livestock products come from Thailand. Food safety is an important concept in food import and export between countries. In this program, Japanese and Thai students learn concepts in the following seven themes, through which they can deepen their understanding and discuss the issues related to safe and sustainable food delivery.

   1) Food safety risk assessment

   Associate Professor Kohei Makita DVM, Ph.D.

   Risk assessment is a part of Codex Alimentarius Commission risk analysis. Risk assessment quantifies the risks of food poisoning or food-borne zoonotic diseases due to food consumption. It can also present the magnitude of effects of the relevant factors at each step of the food chain and food processing. In this talk, risk assessment, which is a great tool in improving food safety, will be discussed using examples from Africa.

   2) Animal Quarantine Service in Japan

   Professor Katsuro Hagiwara, DVM, Ph.D.

   A quarantine system is implemented worldwide to prevent the incursion of animal diseases. Japan conducts both import and export inspections for livestock and other animals, as well as products and goods manufactured or derived from these animals. This program is intended to help students study the quarantine system in Japan. Students from Japan and Thailand can observe the animal quarantine inspection system at work through a visit.

   3) Food safety program in Japan-public health issue and inspection control

   Zoonotic Disease

   Professor Yasukazu Muramatsu DVM, Ph.D.

   Milk is a superior food item containing a well-balanced variety of nutrients. Apart from milk, various dairy products are consumed by people every day. Meanwhile, milk and dairy products are perfect growth sources for pathogenic microorganisms. This class aims to provide knowledge on hygiene control for ensuring safety in food supply through visits to sites of dairy manufacturing. Further, this class will employ previous cases to encourage students...
to think and learn of the kind of measures required for the prevention of food poisoning caused by dairy products.

4) Antimicrobial resistance in bacteria as a risk factor in food
Professor Yutaka Tamura, DVM, Ph.D
Lecturer Masaru Usui, DVM, Ph.D.
A global concern in the food industry is that drug-resistant bacteria are selected by the use of antimicrobial agents for treating or promoting the growth of edible animals. These bacteria influence human health through the food chain. In this lecture, the definition of drug-resistant bacteria, mechanisms through which drug-resistant bacteria become prevalent, and measures for drug-resistant bacteria will be discussed. Testing of drug resistance and detection of resistance genes will be practiced.

5) Basic skills for dairy herd health management
Veterinary Herd Health
Professor Shin Oikawa DVM, Ph.D
Professor Ken Nakata DVM, Ph.D
This program aims to provide the fundamental concept of herd health and the basic skills required to enhance the clinical practice of dairy cattle herd health.

6) Bovine mastitis and milk quality control on dairy production
Professor Hajime Nagahata DVM, Ph.D.
Professor Hidetoshi Higuchi DVM, Ph.D.
Controlling mastitis and producing high-quality and safe raw milk are important issues in the dairy industry. This lecture aims to provide students with relevant knowledge and training in techniques required for the production of high-quality and safe raw milk through the control of mastitis. The HACCP will be explored as well.

7) Sustainable Farm management with Environmental conscious approach
Associate Professor Jun Noda Ph.D.
In livestock farming, care for the control of livestock waste and drug use, geared toward reducing environmental burden, has become an increasingly important issue. This lecture will cover previous cases and related information to help students understand the importance of farming management that prioritizes the environment for the promotion of sustainable livestock businesses.

8) Team Based Learning (group discussion)
Coordinator: Professor Katsuro Hagiwara, DVM, Ph.D.
Team-based learning (TBL) is a structured form of small-group learning that emphasizes student preparation outside the class and application of knowledge in class. Students are organized strategically into diverse teams of five to seven students working together throughout the class. Before each course unit or module, students prepare by reading on the topics beforehand.

Remarks:
Course Title: Veterinary Hospital Training Course

Type: Exercise, Elective
Number of credits: 1
Hours: 45

Course Instructor: Seiya Maehara, Tetsuya Nakade, Kazuto Yamashita, Tsuyoshi Kadosawa, Tsuyoshi Uchide, Hiroshi Ueno, Yoshifumi Endo, Kenjiro Miyoshi, Takashi Tamamoto, Tadashi Sano

Course Overview:
Students gain the problem-solving abilities required for small animal practice through participation in the clinical activities at the Veterinary Teaching Hospital that include communications with owners.

Course Goals:
- To be able to conduct a medical interview with an owner
- To be able to design a diagnostic scheme
- To be able to make a differential diagnosis based on examination findings
- To be able to design a treatment plan

Students may choose either 1 of following 6 clinical departments at Small Animal Teaching Hospital (2weeks)

1) Ophthalmology (Maehara): practice basic clinical skills that include interview with owners, diagnosis, treatment and evaluation of treatment outcomes with patients having eye problems

2) Small Animal Internal Medicine (Uchide, Tamamoto): practice basic clinical skills that include interview with owners, diagnosis, treatment and evaluation of treatment outcomes using clinical cases of internal medicine

3) Small Animal Surgery (Ueno): practice basic clinical skills that include interview with owners, diagnosis, treatment and evaluation of treatment outcomes using clinical cases of orthopaedic surgery

4) Oncology (Kadosawa, Endo): practice basic clinical skills that include interview with owners, diagnosis, treatment and evaluation of treatment outcomes using clinical cases of tumors.

5) Diagnostic Imaging (Nakade, Miyoshi): practice designing diagnosis, interpretation of images and preparation of reports to practitioners using clinical cases taken X-ray, ultrasonography, endoscopy, CT and MRI.

6) Anesthesia and Analgesia (Yamashita, Sano): practice basic clinical skills in anesthetic management, perioperative pain management and perioperative nutrition administration using clinical anesthesia cases.

Remarks:
Students are allocated to 1 of abovementioned 6 clinics for 2 weeks.