

International Clinical Elective Guidebook

2020

Osaka Medical College

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1 . Founding Ethos and Creed

The Founding Ethos of Osaka Medical College

“The mission of medical training institutions is medical education and medical research, which is accomplished when applied to actual medical practice.”

The predecessor of Osaka Medical College was the former Osaka Higher School of Medicine, which was founded by Wataru Yoshizu. He advocated the idea that “The mission of medical training institutions is medical education and medical research, which is accomplished when applied to actual medical practice,” and he founded the school in the hope that its graduates would attain the level of the “benevolent art of helping others.” The original ideal was not only to address the shortage of doctors in Japan, but also to send doctors as emigrants to Asia and South America, and this is still celebrated in the college song.

The Creed of Osaka Medical College

“Benevolent Art with Sincerity”

“Sincerity” in the creed comes from the saying of Mencius, “Never has anyone who has complete sincerity failed to move others.”

“Benevolent Art with Sincerity” includes the five basic concepts of “honesty,” “medical education,” “medical research,” “practice,” and “internationalization.”

The concept of “helping others” in Yoshizu’s ideal is based on rich humanity, and along with integrity, it represents the very pinnacle of the human character. This integrity begets a noble humanity that corresponds to the sincerity in the saying of Mencius, “Therefore, sincerity is the way of Heaven. To aim for sincerity is the way of man. Never has anyone who has complete sincerity failed to move others. Never has anyone without sincerity been able to move others.”

2. Overview of Clinical Elective

Fostering medical international exchanges leads to the cultivation of medical staff with a global perspective. The initial ideal of Osaka Medical College is medical education and research for applied practices, which involves training and enabling medical students to possess a global mindset. Osaka Medical College has exchange programs for medical students with more than ten affiliated schools all over the world through the Nakayama International Center for Medical Cooperation (the NICMC), which was established in 1998. This exchange program has developed over time, and the Clinical Elective Program was instituted in 2020. The Clinical Elective Program provides a number of opportunities to observe ward rounds, operations, clinical examinations, laboratories, and conferences at each department in Osaka Medical College Hospital. We hope the participating medical students from overseas are exposed to different viewpoints through the Clinical Elective Program and become responsible doctors in the future.

3. General Instructional Objectives and Specific Behavioral Objectives of the Clinical Elective, Educational Objectives of OMC, and the Philosophy of OMC Hospital

General Instructional Objectives

To acquire the ability to practice holistic medical care that is both safe and appropriate, making effective use of expertise and skills relating to disease and treatment based on integrated scientific knowledge, technical ability, a correct attitude, and ethical judgements, while maintaining respect and consideration for patients.

Specific Behavioral Objectives

- 1) To be able to question patients accurately and appropriately about their main medical history, including their psychological and social background, and to record the findings.
- 2) To be able to carry out appropriate physical examinations of adult and child patients, and accurately record the findings.
- 3) To be able to judge major diseases in a systematic fashion while giving differential diagnosis on the basis of clinical inference.
- 4) To be able to select the tests needed for the diagnosis and treatment of major diseases (diseases with high frequency, urgency, and severity) and interpret the main test results appropriately.
- 5) To be able to perform basic clinical techniques (including emergency treatment) safely and appropriately.
- 6) To be able to make appropriate, patient-centered treatment plans that take into account psychological and social factors of the patient.
- 7) To be able to participate in diagnosis, treatment, and whole-body management.
- 8) To be able to participate in explanations of medical conditions, patient education, and formulation of hospital discharge plans, and carry them out under supervision or guidance.
- 9) To be able to appropriately create and manage medical documents such as medical records and summaries, and to communicate or present them.
- 10) To be able to use International and Communication Technology(ICT) and to focus on evidence-based medicine (EBM) in order to give high-quality, appropriate, and effective medical care.
- 11) To be able to understand and manage medical risk, medical safety, infection measures, and protection of personal information, and to comply with and implement appropriate measures.
- 12) To be able to formulate and implement prevention plans for major diseases.
- 13) To understand the importance of consultation with supervisory and senior doctors as required, and to be able to practice this.
- 14) To understand the features and special characteristics of individual medical institutions, and to be able to put forward proposals for optimal medical care as required.

Educational Objectives of OMC

Osaka Medical College will provide education to nurture human resources that are endowed with abundant humanity and strive to address the universally shared issues of maintaining and improving health, preventing and overcoming disease, and relieving suffering; that can adapt to a changing society and continue to acquire the latest knowledge and the best skills throughout their lives; and that will play active roles in fields from community medicine to worldwide research and development through a spirit of inquiry. (Osaka Medical College Rules, Article 5).

Philosophy of OMC Hospital

To provide everyone with safe, high quality medical care that meets the needs of society, and to nurture medical practitioners of sound character and with abundant humanity.

4. Guide to the Clinical Elective

This guide specifies general matters that are to be adhered to when students from OMC carry out training at the OMC hospitals. Students are to follow the instructions and warnings of the teaching staff in the hospital, and must not do anything to obstruct the normal operations of the hospital.

1. Meeting time and place

Meet at the time and place specified for your particular Elective. Check the place in advance, and be on time.

Schedules will be as described separately for each Elective, and any changes will be communicated by the supervising doctor. If you will be unavoidably late or unable to attend, contact the supervising doctor.

2. Clothing and personal appearance

If your clothing or personal appearance is unsuitable, you may not be allowed to take the Elective.

- 1) Ensure your clothing is clean and will not be unpleasant for patients.
- 2) Wear a clean uniform or white coat.
- 3) Wear clean footwear.
 - Footwear should be comfortable and clean, and suitable for taking the Elective.
 - Slippers, sandals, or “Crocs style” footwear are not acceptable.
- 4) Wear the designated name tag.
- 5) Wear a formal shirt or blouse under the white coat.
- 6) Do up the front buttons of the white coat. Do not walk around with the buttons undone and the coat flapping open.
- 7) Always follow the instruction of the supervising doctor regarding other clothing.
- 8) For the operating room, wear the surgical gowns provided for students.
Wear clean footwear when entering the operating room.
- 9) Avoid showy hair colors or styles, always keep hair and nails clean.

3. Behavior during observational study

- 1) Observational study is to be carried out under the supervising doctor.
- 2) Use polite language not only with patients but also with staff members.
- 3) Do not talk with your hands in your pockets.
- 4) Maintain a sincere and friendly attitude toward patients.
- 5) If a patient asks about their diagnosis, their condition, their test results, the treatment strategy, etc., do not answer immediately and follow the instructions of the supervising doctor.

4. Duty of confidentiality

- 1) Information about individual patients or their diseases must not be leaked.
- 2) Pay attention to the protection of personal information, and follow the rules of the hospital in this regard.

5. Handling medical records, medical implements, etc.

You must not remove any medical records, written instructions, other documents, images, medical instruments or implements, medicines, etc. from their designated places, except for the purpose of conferences. Photographs of these items may not be taken, and uploading to social media, etc. is forbidden.

6. Written pledge

At the start of the clinical Elective, students must fully understand and consent to the content of the written pledge, and must sincerely abide by it.

7. Attendance

- 1) Attendance will be checked and the prescribed health check will be carried out every morning at the Nakayama International Center for Medical Cooperation.

8. Appropriate behavior for health care professionals

The basic attitude and manner required of medical students participating in the clinical Elective are shown below.

- (1) The patient-doctor relationship
 - 1) To be able to grasp the needs of the patient and their family from physical, psychological, and social perspectives.
 - 2) To be able to abide by the duty of confidentiality and give consideration to privacy.
- (2) Team treatment
 - 1) To be able to consult with the supervising doctor at the appropriate time.
 - 2) To be able to appropriately communicate with the supervising doctor and other health care professionals.
- (3) Ability to deal with problems
 - 1) To collect information for resolving clinical points of uncertainty through document searches, etc. in order to present the best options.
 - 2) To acquire capability for self-management (punctuality, health management) and to strive to improve your basic medical capabilities throughout your life.
- (4) Safety management
 - 1) To understand and be able to put into practice the concept of safety checks when carrying out medical treatment.
 - 2) To be able to act in accordance with manuals, etc. in preventing medical error and in coping after an incident.
 - 3) To understand and be able to implement the in-house infection measures (including the Standard Precautions).
- (5) Presentation of cases
 - 1) To be able to present and discuss cases at conferences, etc.
- (6) The sociality of medical treatment

To understand the importance of the social aspects of medicine, and to understand medical ethics and bioethics and be able to act appropriately in order to contribute to society. This includes understanding not only ethical violations related to the basic attitude and manner required of medical professionals, but also items corresponding to the specific disciplinary rules for OMC students.

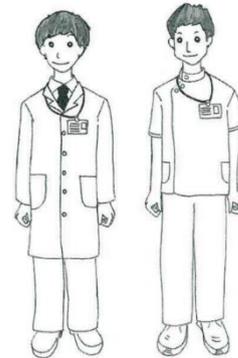
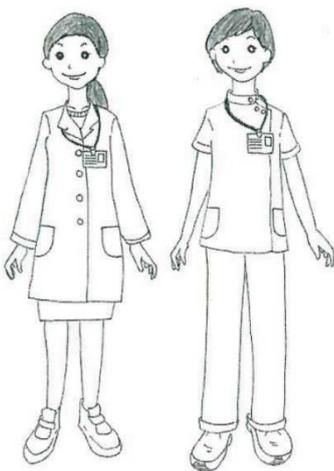
5. Clothing for Medical Students

The clothing to be worn by medical students at OMC hospital is set out below. Please ensure that your clothing gives a sense of cleanliness.

Clothing that gives a sense of cleanliness

(men)

Hairstyle	Keep hair clean Avoid long hair Unscented hair products
Nails	Cut nails short and keep them clean
Accessories	Do not wear accessories Wedding bands may be worn, no earrings/piercings Do not use an eye-catching watch (size, color, shape, thickness)
Name tag	Must always be worn Attach to left chest so that it does not hang down Do not attach unnecessary stickers or accessories Hang name tag strap round the neck
Uniform	Do up front buttons when wearing white coat Avoid shirts with showy colors Keep uniform clean Slacks should not reach the floor No jeans
Pockets	Do not cram a lot of things into pockets
Socks	Avoid showy colors or patterns No bare feet
Shoes	Shoes must not make a noise Clean, active footwear No slippers, "Crocs style" footwear, sandals Do not wear showy footwear Closed-toe shoes with a backstrap are prohibited
Other	Do not wear medical gowns in the canteen Do not wear surgical gowns or examination gowns outside the operating room or examination room No perfume No odor of tobacco



Clothing that gives a sense of cleanliness

(women)

Hairstyle	Keep hair clean Hair that reaches the shoulders should be gathered and held in place with hairpins Unscented hair products
Hairclips	Black or light brown with no decoration, not shiny Hair elastics should be black or light brown
Makeup	Avoid glittery or shiny makeup, do not apply makeup too thickly Lipstick should be a natural, healthy-looking color No perfume. Avoid cosmetics with a strong scent.
Nails	Cut nails short and keep them clean No nail art
Accessories	Do not wear accessories Wedding bands may be worn, no earrings/piercings Do not use an eye-catching watch (size, color, shape, thickness)
Name tag	Must always be worn Attach to left chest so that it does not hang down Do not attach unnecessary stickers or accessories Hang name tag strap round the neck
Uniform	Use the prescribed uniform Do up front buttons when wearing white coat Keep uniform clean Slacks should be no longer than the ankle No jeans
Pockets	Do not cram a lot of things into pockets
Socks	Avoid showy colors or patterns No bare feet
Shoes	Shoes must not make a noise Clean, active footwear No slippers, "Crocs style" footwear, sandals No high heels or showy colors Closed-toe shoes with a backstrap are prohibited
Other	Do not wear medical gowns in the canteen Do not wear surgical gowns or examination gowns outside the operating room or examination room

NB: Please remove your rings and watch if you need to disinfect your hands for examination or treatment.

6. Infection Prevention and Measures During the Elective

There is a possibility that you may become infected with an infectious disease during the Elective, and at the same time there is a risk that you may pass an infectious disease to a patient. As infectious diseases may sometimes increase in severity for you or for patients, please be sure to abide by the following precautions during the Elective.

1. Your own health check

If you feel unwell on the morning of the Elective, please contact the Nakayama International Center for Medical Cooperation. Also, if you become unwell or feel sick during the Elective, please inform the supervising doctor and come to the Health Consulting Section. Please take care of your health on a routine basis. Avoid undernourishment, do not overwork, ensure adequate sleep/rest, maintain an everyday rhythm, and try to stay hydrated.

2. Vaccinations

If you have low or no levels of antibodies to the main four infectious diseases (measles, rubella, mumps, varicella) or hepatitis B, please get vaccinated. Please submit vaccination records to the Nakayama International Center for Medical Cooperation at the time of application for the Elective in the format specified by OMC. If your vaccinations cannot be confirmed, you will not be able to participate.

If you contract an infectious disease or show suspicious symptoms:

If you contract a disease stipulated by the School Health and Safety Act or other infectious disease, or if you have suspicious symptoms, remove yourself from the college and immediately telephone the Health Consulting Section to report it and receive instructions. If you want to be examined, do not go directly to the hospital but consult with the Health Consulting Section by telephone. Care will be taken in this case to ensure that your absence (discontinuation of attendance) will not cause you any disadvantage. Please be very careful, because some of these diseases can become very serious if they appear in adults.

Main infectious diseases stipulated by the School Health and Safety Act:

Influenza, pertussis, measles, mumps, rubella, chickenpox, pharyngeal conjunctivitis, tuberculosis, enterohemorrhagic *Escherichia coli* infection, epidemic keratoconjunctivitis, acute hemorrhagic conjunctivitis, infectious gastroenteritis etc.

3. If an accident involving a cut, needlestick injury, or blood contamination occurs

Immediately wash the injured or exposed area, and report it to the supervising doctor. You should report it to the supervising doctor even if there is no infectious disease in the blood or other bodily fluids. (Please refer to “Measures for needlestick injury, cuts, and blood/bodily fluid contamination accidents during the Elective.”)

4. Handwashing, gargling, and use of masks

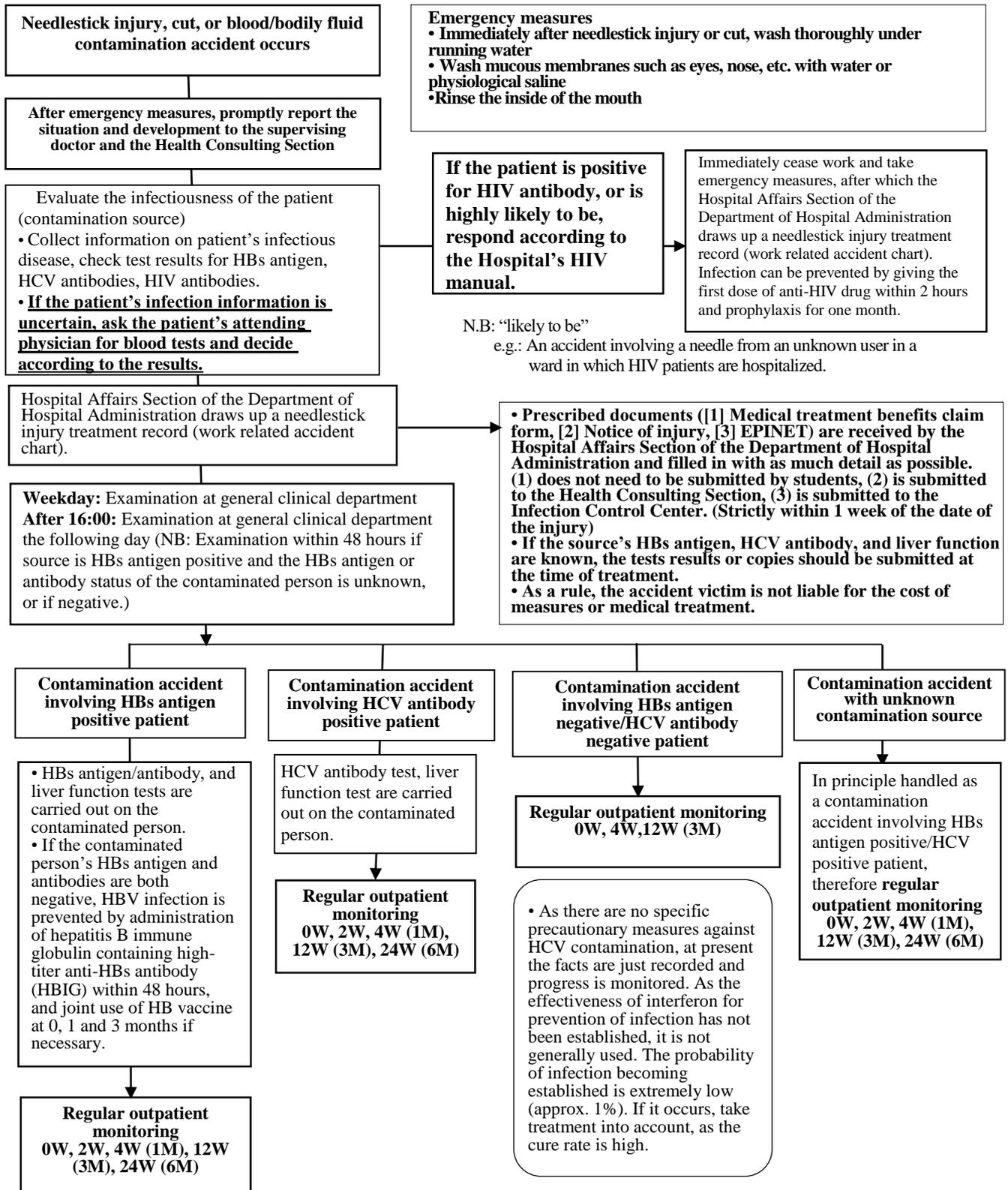
- 1) Wash your hands thoroughly and gargle when entering and leaving wards, before and after meals and working, after being outside, etc.
- 2) Scrub all surfaces of both hands using soap for at least 10 seconds, and rinse under running water. There are many people in the OMC Hospital who are susceptible to infection, and you should wash your hands before and after touching anything in their vicinity. You should dry your hands preferably with paper towels or a hand dryer, and it is better to avoid sharing of towels.
- 3) Masks prevent dryness of the respiratory mucosa, and they are effective to some extent in preventing infection from airborne droplets. Please make it a habit to wear a mask when you are unwell with symptoms of cough, etc

7. Measures for Needlestick Injury, Cuts, and Blood/Bodily Fluid Contamination Accidents During the Elective (OMC Hospital)

A medical setting with many opportunities to come into contact with patients is an environment with the risk of exposure to blood or bodily fluids, regardless of the department. Accidents are not limited to individual carelessness or error.

If an accident occurs during the Elective, take measures immediately according to the protocol shown below. Even if you find out that the blood or bodily fluid does not contain infection, you must still report the accident to the supervising doctor.

Endeavour to take routine measures to prevent infection, such as having antigen/antibody tests to find out your infection status and getting vaccinated.



8. Written Pledge, Overall Consent Form, and Individual Consent Form for the Clinical Elective

Written Pledge

For participation in the clinical Elective

To:

Dean, Faculty of Medicine, Osaka Medical College

To:

Director, Osaka Medical College Hospital

I have been given a full explanation by a supervisor of the following details with regard to participation in the Clinical Elective, which I have understood and to which I have consented. I therefore pledge to abide by the following:

1. I will carry out the Clinical Elective in accordance with the “International Clinical Elective Guidebook” I understand that the content of the Clinical Elective may change to a reasonable extent due to the medical needs and practical limitations of the hospital and clinic.
2. I will not carry out any medical actions at all.
3. The Clinical Elective, including observation of medical actions, will be carried out under a supervising doctor with the consent of the patients.
4. During the Clinical Elective, I will behave in a suitable manner for a medical professional.
5. I will be given a full explanation in advance from a supervising doctor of the risk of infection by pathogens from patients via blood, excretions, or secretions, and the precautionary measures.
6. I will follow the rules of the hospital and clinic and the guidance of the supervising doctor and hospital staff, and I will always take care to ensure medical safety, including infection control.
7. I have understood that accidents during the Elective (needlestick accidents, etc.) will be treated as accidents to hospital staff occurring in the execution of their professional duties.
8. I will always take care in handling patients’ personal information, and I will not divulge information about patients what I have learned through the Elective to others. Also, I will not browse information that has no relation to my own Elective. I will pay attention to the protection of personal information, and I will follow the rules of the hospital/clinic in this regard.
9. When using electronic medical records, I will abide by the “Detailed rules on use of personal or business computers in relation to medical information management” and the “Precautions for use of electronic medical records,” and in principle I will not print out medical information.
10. Infringement of the above will be punished in accordance with the College regulations.

_____ (day) _____ (month) 20____ (year)

University: _____

Name: _____

9. Elective Subjects in the Hospital, Elective Program

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(Total: 26 Subjects)

Clinical Elective Program

Subject: Endocrinology and Diabetology (Dept. of Internal Medicine I)

Program Director: Norio Kanatsuna, MD, PhD

Elective Content:

General instructional objectives

The fundamental goal is to provide students, as members of a medical team, with clinical skills in internal medicine on the whole and practical medical knowledge in general, and the understanding of what is important in actual medical settings, through cases in endocrinology and diabetology.

Specific behavioral objectives

1. To be able to establish a good relationship of trust with patients in charge and collect clinical information through medical interview techniques.
2. To be able to accurately record their physical findings and interview information for objective assessment.
3. To be able to capture clinical problems to make problem lists.
4. To be able to assess their problems and discuss measures for solving with their attending physicians. (medical care practice in multidisciplinary teams)

Clinical Elective Program

Subject: Respiratory Medicine and Thoracic Oncology (Dept. of Internal Medicine I)

Program Director: Soichiro Ikeda, MD, PhD

Elective Content:

General instructional objectives

The fundamental goal is to provide students, as members of a medical team, with clinical skills in internal medicine on the whole and practical medical knowledge in general, and the understanding of what is important in actual medical settings, through cases in respiratory medicine.

Specific behavioral objectives

1. To be able to establish a good relationship of trust with patients in charge and collect clinical information through medical interview techniques.
2. To be able to accurately record their physical findings and interview information for objective assessment.
3. To be able to capture clinical problems to make problem lists.
4. To be able to assess their problems and discuss measures for solving with their attending physicians. (medical care practice in multidisciplinary teams)

Clinical Elective Program

Subject: Hematology (Dept. of Internal Medicine I)

Program Director: Toshikazu Akioka, MD, PhD

Elective Content:

General instructional objectives

The fundamental goal is to provide students, as members of a medical team, with clinical skills in internal medicine on the whole and practical medical knowledge in general, and the understanding of what is important in actual medical settings, through cases in hematology

Specific behavioral objectives

1. To be able to establish a good relationship of trust with patients in charge and collect clinical information through medical interview techniques.
2. To be able to accurately record their physical findings and interview information for objective assessment.
3. To be able to capture clinical problems to make problem lists.
4. To be able to assess their problems and discuss measures for solving with their attending physicians. (medical care practice in multidisciplinary teams)

Clinical Elective Program

Subject: Gastroenterology (Dept. of Internal Medicine II)

Program Director: Kazuki Kakimoto, MD, PhD

Elective Content: Ward training, outpatient training, endoscope/abdominal ultrasound simulator

General instructional objectives

To participate in medical care as a member of the gastroenterology medical team, and to acquire comprehensive knowledge and skills in internal medicine overall based around gastroenterology from an actual medical setting.

Specific behavioral objectives

1. To be able to build a good personal relationship as a member of the medical team and participate actively in the team medical care.
2. To be able to build a good doctor-patient relationship and obtain correct medical information through medical interviews.
3. To be able to carry out accurate physical examination through gastroenterological medical care.
4. To be able to correctly interpret various tests relating to gastrointestinal diseases.
5. To be able to accurately record examination results and test results in medical records.
6. To be able to extract problems from examination results and test results, and make clinical inferences.
7. To be able to make presentations of patients in your charge at hospital rounds and conferences.
8. To be able to create summaries of patients in your charge and to present them at hospitalization/discharge briefings and case review meetings.
9. To be able to participate at frontline clinical settings and gain the awareness and forward-looking interest of a clinician.

Clinical Elective Program

Subject: Cardiology (Dept. of Internal Medicine III)

Program Director: Masaaki Hoshiga, MD, PhD; Takahide Ito, MD, PhD; Yumiko Kanzaki, MD, PhD;
Hideaki Morita, MD, PhD; Jun Tanigawa, MD, PhD

Elective content:

General instructional objectives

To experience and understand medical work as a member of a team in order to acquire the basic treatment capabilities in cardiovascular disease.

Specific behavioral objectives

1. To build a good personal relationship not just with the patients but also with the supervising doctor, the attending physician, the doctor in charge, and the other medical staff.
2. To acquire the medical interview techniques and examination techniques needed for assessing patients in cardiology.
3. To understand the objectives and methods of the tests needed for cardiovascular disease treatment, and to be able to interpret the results.
4. To understand the outline of cardiovascular disease treatment methods.
5. To create a problem list on the basis of the information that is obtained.
6. To participate in case problem-solving as a member of the treatment team.

Clinical Elective Program

Subject: Nephrology (Dept. of Internal Medicine III)

Program Director: Akira Mima, MD, PhD; Tatsuhiko Mori, MD, PhD

Elective Content:

General instructional objectives

To experience and understand medical work as a member of the nephrology treatment team in order to acquire the basic treatment capabilities needed for primary care of internal kidney disease patients.

Specific behavioral objectives

1. To be able to build a good personal relationship with patients in your charge and obtain the necessary medical information.
2. To be able to create a problem list based on the information obtained.
3. To acquire the internal examination methods needed for objective assessment of kidney disease.
4. To understand the objectives and methods of the tests needed for kidney disease treatment, and to be able to interpret the results.
5. To understand and be able to explain the outline of the treatment methods for kidney disease.
6. To understand and be able to explain the outline of hemodialysis and peritoneal dialysis.
7. To be able to carry out discussions as a member of the treatment team aimed at case problem-solving.

Clinical Elective Program

Subject: General Medicine (Dept. of General Medicine)

Program Director: Tomio Suzuki, MD, PhD

Elective Content:

General instructional objectives

To cultivate the character to become a doctor and to acquire basic clinical capacity, including infection measures. To develop primary care abilities that can respond appropriately to the diseases and conditions commonly seen in everyday medical treatment.

Specific behavioral objectives

1. To be able to build a good personal relationship with patients in the outpatient and ward trainings and obtain accurate medical information through interviews.
2. To be able to create a problem list based on medical information.
3. To acquire basic examination methods.
4. To understand the objectives, methods, and results of tests, and to be able to interpret the results.
5. To understand and be able to explain the diagnostic methods and treatments for various different diseases.
6. To learn the basics of safety measures and infection measures as a member of a medical team.
7. To be able to participate in identifying and resolving problems.
8. Training in clinical inferences at first examination is the primary objective.
9. To make case reports of patients assigned to you.

Clinical Elective Program

Subject: Neurology (Dept. of Internal Medicine IV)

Program Director: Shigeki Arawaka, MD, PhD; Shimon Ishida, MD, PhD; Takafumi Hosokawa, MD, PhD

Elective Content:

General instructional objectives

The objective is for students to participate in medical examination settings as members of a medical team in order to increase their knowledge of neurology overall and their clinical capability, and to acquire a deep understanding of what happens in actual clinical settings.

Specific behavioral objectives

1. To be able to build a good personal relationship with patients in your charge and to obtain sufficient detailed medical information through interview techniques.
2. To be able to obtain neurological symptoms and signs.
3. To be able to elicit problems from patients in your charge (create a problem list).
4. To be able to assess problems and discuss measures for resolving them with the attending physician (Multidisciplinary team medical care practice).

Clinical Elective Program

Subject: Rheumatology (Dept. of Internal Medicine IV)

Program Director: Tohru Takeuchi, MD, PhD; Takuya Kotani, MD, PhD

Elective Content:

General instructional objectives

To understand the disease concept, clinical symptoms, and laboratory findings for connective tissue diseases and their related complications, and to be able to make their diagnoses.

Specific behavioral objectives

To understand the clinical symptoms, and laboratory findings for connective tissue diseases through the elective course, and to be able to diagnose diseases such as systemic lupus erythematosus, systemic scleriosis, myositis, and vasculitis syndrome.

Clinical Elective Program

Subject: Neuropsychiatry (Dept. of Neuropsychiatry)

Program Director: Tetsufumi Kanazawa, MD, PhD

Elective Content:

General instructional objectives

To learn to diagnose and treat psychiatric disorders.

Specific behavioral objectives

1. To learn ways of perceiving psychiatric symptoms, and to be able to enumerate problems.
2. To be able to give initial-stage diagnosis and treatment of psychiatric disorder.
3. To be able to enumerate the legal and ethical requirements for carrying out treatment of patients with psychiatric symptoms.

Clinical Elective Program

Subject: General, Digestive, and Pediatric Surgery Dept., Breast Surgery Dept. (Dept. of General and Gastroenterological Surgery)

Program Director: Hideki Tomiyama, MD, PhD

Elective Content:

General instructional objectives

To understand the surgical indication for general, digestive, pediatric or breast disease, and to understand the importance of surgical diagnosis and following therapy in both aspects of the curative effect and functional preservation.

Specific behavioral objectives

To carry out the clinical training with level 1 medical practices in the surgical diagnosis and therapy, and pre/ post-operative management, and to submit the report on the outcome.

Clinical Elective Program

Subject: Thoracic and Cardiovascular Surgery (Dept. of Cardiovascular Surgery and Pediatric Cardiovascular Surgery, Dept. of Respiratory Surgery)

Program Director: Takahiro Katsumata, MD, PhD

Elective Content:

General instructional objectives

The program is specifically dedicated to the medical students who wish to deepen understanding of the pathophysiology of cardiovascular and respiratory diseases, to learn both the diagnostic and the treatment methods in clinical settings, and to acquire basic clinical capacity.

Specific behavioral objectives

The students participate in the clinical service of thoracic surgery as a part of a medical team in order to learn preoperative medical examination and tests, how to select treatment methods based on the results, selection of surgical techniques, and postoperative treatment.

They are given the opportunity to learn and practice basic surgical techniques under the supervision of qualified surgical instructors.

The experience of postoperative patient care weighs heavily with the students. They are required to communicate with not only patients and surgeons in charge but also other health professionals.

Clinical Elective Program

Subject: Neurosurgery and Endovascular Neurosurgery (Dept. of Neurosurgery)

Program Director: Masahiko Wanibuchi, MD, PhD

Elective Content:

General instructional objectives

To fully understand the pathophysiology of neurosurgical diseases, and then to acquire methods of bedside neurological examination and diagnosis, and to practice basic surgical techniques and general systemic management under the guidance of a supervising doctor.

Specific behavioral objectives

To deepen basic understanding of various neurosurgical diseases including cerebrovascular diseases, brain tumors, and brain trauma, and to acquire the ability as a future clinician to carry out rapid and accurate examination and diagnosis, especially in CT, MRI, and angiography, and treatment of patients with neurological impairment or disturbance of consciousness through participation in neurosurgical treatment as one of the attending physicians. In particular, learning rapid response, diagnosis, and treatment of patients with disturbance of consciousness, impending intracranial hypertension and cerebral herniation, is important for the practice of emergency medicine.

Clinical Elective Program

Subject: Orthopedic Surgery (Dept. of Orthopedic Surgery)

Program Director: Takashi Fujishiro, MD, PhD

Elective Content:

General instructional objectives

To acquire how to obtain the medical history of locomotive system disease and trauma and how to evaluate physical findings, and to actually experience and understand the logical development of diagnoses as well as conservative and surgical treatment methods through clinical cases.

Specific practical objectives

1. To master ways of medical interview and physical examination through outpatient and ward trainings.
2. To understand the flow of examination of locomotive system disease, and to acquire methods of basic measurement such as joint range of motion, limb length, and limb circumference, and neurological examination methods (tendon reflex, manual muscle test) as basic techniques.
3. To acquire how to interpret diagnostic imaging of typical cases of locomotive system disease and trauma through conferences and lectures.
4. To understand how to implement conservative treatment methods (cast immobilization, orthotic treatment, pharmacotherapy, etc.) and to enumerate alternatives.
5. To acquire basic surgical techniques (skin incision, ligation, suture, etc.).
6. To understand the techniques of special orthopedic tests (ultrasound examination, myelography, arthrography, electromyogram, arthroscope, etc.), and to be able to explain the findings.
7. To be able to enumerate postoperative treatments.

Clinical Elective Program

Subject: Pediatrics and Neonatal Care (Dept. of Pediatrics)

Program Director: Kanta Kishi, MD, PhD; Seiji Yoshida, MD, PhD; Shigeo Yamaoka, MD, PhD

Elective Content:

General instructional objectives

To know the physical and mental characteristics of children, and to understand disease during childhood. Also, to understand child health and other social welfare systems.

Specific behavioral objectives

1. To understand the pathophysiology of inpatients, and to become able to put together the process leading to diagnosis.
2. To understand the basic principles of the testing methods needed for diagnosis, and to acquire simple testing techniques.
3. To acquire the basic procedures essential for treatment.

Clinical Elective Program

Subject: Gynecology and Oncology, Perinatal and Reproductive Medicine (Dept. of Obstetrics and Gynecology)

Program Director: Hiroshi Sasaki, MD, PhD

Elective Content:

General instructional objectives

To develop extensive knowledge and clinical capability and attitudes for women's medical care through clinical experience in maternal medical care, endocrine and aging medical care, women's oncological diseases, and infectious diseases.

Specific behavioral objectives

To carry out clinical Elective as a member of the medical team. This department does not carry out the traditional bedside observational teaching. However, the nature of this department is that all the patients are women, and it goes without saying that full consideration is needed when students come into contact with patients to carry out examinations. Therefore, although you are students, you will be given educational guidance on such things as imprudent speech and conduct and attitudes that are improper for health personnel. Students will join the medical team and will have full discussions of the medical care of outpatients and patients in wards based on the findings of gynecological examinations, while referring to supplementary diagnostic items. Students will also study changes in clinical symptoms over time during the progress of childbirth together with the attending physician. Furthermore, in order to stimulate students' interest in practical skills, obstetrics and gynecology will be studied in depth at meetings mainly about symptomatology and through exchanges of ideas in which doctors specializing in the various different fields will share the latest expertise in rapidly advancing medical science. Students will work to acquire basic medical skills and establish communication with obstetrics and gynecology patients.

Clinical Elective Program

Subject: Ophthalmology (Dept. of Ophthalmology)

Program Director: Tsunehiko Ikeda, MD, PhD

Elective Content:

General instructional objectives

To understand ophthalmological diseases and to be able to explain major ophthalmic surgery.

Specific behavioral objectives

1. To be able to perform visual acuity test and intraocular pressure measurement.
1. To be able to perform slit lamp microscopy examination (Fig. 1) and fundus examination (Fig. 2).
2. To be able to explain the clinical findings of cataract, glaucoma, and retinal detachment.
3. To understand preoperative examination for ophthalmic diseases.
4. To be able to explain major ophthalmic surgery.



Fig. 1 Slit lamp microscopy examination



Fig. 2 Fundus examination

Elective Clinical Elective Program

Subject: Otorhinolaryngology - Head and Neck Surgery (Dept. of Otorhinolaryngology)

Program Director: Masaaki Higashino, MD, PhD

Elective Content:

General instructional objectives

To become a member of the attending physician/physician-in-charge group, and to participate as a member of the team in the treatment of patients hospitalized for surgery during the period of the Elective mainly through training in the ward and the operating room, and to learn the progress of medical condition.

Specific behavioral objectives

Training in the ward and the operating room: Students will be assigned patients (about two) and will examine them together with the attending physician/physician-in-charge during the whole process from hospitalization to discharge.

1. To grasp the treatment process during hospitalization.
2. To be present at the informed consent of hospitalized patients, and to understand the content.
3. To participate in medical examinations and procedures in the ward and to be able to assist in wound treatment.
4. To participate in surgery and to be able to assist in surgery.
5. To prepare and present the materials needed for case review meetings.
To be sure to meet the patients every morning, and to listen to what they have to say.

Clinical Elective Program

Subject: Dermatology (Dept. of Dermatology)

Program Director: Kazuma Kaneda, MD, PhD

Elective Content:

General instructional objectives

To acquire diagnosis and treatment of major skin diseases.

Specific behavioral objectives

1. To be able to explain the normal structure, function, and pathophysiology of the skin.
2. To be able to explain the causes and clinical findings of major skin diseases.
3. To carry out the basic methods and examination needed for the diagnosis of major skin diseases, and to be able to interpret their results.

Clinical Elective Program

Subject: Renal and Urological Surgery (Dept. of Urology)

Program Director: Kazumasa Komura, MD, PhD

Elective Content:

General instructional objectives

To acquire fundamental knowledge and basic skills relating to the urinary organs overall and hemodiafiltration.

Specific behavioral objectives

Thorough interviews:

1. To be able to accurately grasp symptoms by talking to the patient and interpret them.
Also, to be able to enumerate assumed diseases and the names of differential diagnoses.

Clinical Elective Program

Subject: Diagnostic Radiology and Therapeutic Radiology (Dept. of Diagnostic Radiology and Dept. of Radiation Oncology)

Program Director:

Diagnostic Radiology: Keigo Osuga, MD, PhD; Tsuyoshi Komori, MD, PhD

Radiation Oncology: Keiji Nihei, MD, PhD; Taiju Shimbo, MD, PhD; Hiroto Yoshioka, MD, PhD;
Mio Nakata, MD, PhD

Elective Content:

General instructional objectives

To understand the role and importance of diagnostic imaging, interventional radiology (IVR), nuclear medicine, and radiation therapy.

Specific behavioral objectives

1. To acquire knowledge and elementary skills in different types of diagnostic imaging, nuclear medicine tests, and IVR.
2. To acquire skills to discuss and determine the optimal treatment strategy, and to experience both conventional and high-precision radiation therapy for malignant tumors.

Clinical Elective Program

Subject: Anesthesiology and Pain Clinic (Dept. of Anesthesiology)

Program Director: Junko Nakahira, MD, PhD; Shoko Nakano, MD, PhD; Yusuke Kusaka, MD, PhD

Elective Content:

General instructional objectives

1. General care during the perioperative period
2. Understanding the pain clinic
3. Intensive care for seriously ill patients

Specific behavioral objectives

1. Hands-on learning of anesthesia and general care before, during, and after surgery.
2. To experience outpatient care at the pain clinic.
3. To experience general care in the intensive care unit.
4. To learn techniques related to anesthesia using a simulator; airway management and central venous catheterization.

Clinical Elective Program

Subject: Plastic and Reconstructive Surgery (Dept. of Plastic and Reconstructive Surgery)

Program Director: Koichi Ueda, MD, PhD; Takashi Nuri, MD, PhD; Yuki Otsuki, MD, PhD

Elective Content:

General instructional objectives

To learn how to treat wounds and tissues from the perspective of plastic surgery.,

Specific behavioral objectives

1. To be able to explain the technique of reconstructive surgery.
2. To be able to plastic surgical skin suture technique by using artificial skin.
3. To be able to microsurgical vascular anastomosis by using chicken blood vessels.
4. To understand plastic surgical diagnostic methods, surgical procedures, postoperative management, and treatment methods.
5. To understand surgical treatment of congenital anomalies i.e. cleft lip and palate, microtia, polydactyly and craniosynostosis.

Clinical Elective Program

Subject: Rehabilitation Medicine (Dept. of Rehabilitation Medicine)

Program Director: Ryuichi Saura, MD, PhD; Haruki Nakano, MD, PhD

Elective Content:

General instructional objectives

The objective is to experience rehabilitation medicine by seeing patients with impairments caused by various disorders including neuromuscular or musculoskeletal disease. Students are expected to understand the role of a rehabilitation physician (physiatrist) through examinations, therapeutic techniques, and management of the rehabilitation team with medical staff.

Specific behavioral objectives

1. To explain the role of a physiatrist.
2. To observe examination and treatment techniques such as electromyography or botulinum toxin injection.
3. To assess impairment in activity of daily life of a patient.
4. To explain the methods of physical therapy, occupational therapy, and speech therapy.
5. To explain the utility of orthosis or prosthesis.
6. To explain the role of the social welfare system.

Clinical Elective Program

Subject: Emergency Medicine (Dept. of Emergency Medicine [ER])

Program Director: Akira Takasu, MD, PhD; Yasuo Ohishi, MD, MPH; Masahiko Nitta, MD, PhD;
Kazuma Yamakawa, MD, PhD; Koshi Ota, MD, PhD; Kensuke Fuji, MD, PhD

Elective Content:

General instructional objectives

- To acquire diagnosis, testing, and treatment at the emergency room in order to aim to be a doctor capable of practicing emergency primary care.

Specific behavioral objectives

1. To be able to distinguish main symptoms.
2. To participate in initial treatment of emergency patients at an emergency outpatient clinic in order to be able to plan tests and grasp the process from diagnosis to treatment.
3. To be able to determine the urgency and severity of emergency patients.
4. Join the resuscitation team for out-of-hospital cardiac arrest patients and hospitalized patients with sudden changes in order to learn about resuscitation.
5. To learn initial treatment and response in cases of serious trauma or poisoning.
6. To be able to consult with different hospital departments as needed.
7. To understand the importance of team medical care in emergencies.

Clinical Elective Program

Subject: Dentistry and Oral Surgery (Dept. of Dentistry and Oral Surgery)

Program Director: Hiroyuki Nakano, DDS, PhD*; Yoichiro Nakajima, DDS, PhD; Kazuya Inoue, DDS, PhD; Michi Omori, DDS; Kayoko Yamamoto, DDS, PhD; Nahoko Kogoe, DDS, PhD; Haruhiko Terai, DDS, PhD; Takaaki Ueno, DDS, PhD (*: Chief in charge)

Elective Content: To understand the relationship between oral disease and systemic disease correctly. To acquire the ability as a doctor to examine the oral cavity appropriately.

General instructional objectives

To understand the effects of oral disease in the whole body, and to acquire the minimum required oral diagnostic abilities as a doctor. Also, to understand the clinical symptoms of periodontal disease, which is considered to be one of the causes of aspiration pneumonia in the perioperative period of cancer treatment and at home-visit medical settings.

Specific behavioral objectives

1. To understand that the oral cavity is a part of the digestive organ and the respiratory tract, to learn the effects of oral lesions such as chronic periodontitis in the whole body, and to understand the importance of oral hygiene management.
2. To understand perioperative oral complications for cancer treatment (oral mucositis and aspiration pneumonia), and to learn how to prevent them.