

Elective Course

School of Medicine, Chiba University

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GASTROENTEROLOGY		
Number of students: 2	Month accepted: Jan-Sep, Nov, Dec	Length: 2-8 weeks
Prerequisites		
The student must be the senior year with sufficient clinical clerkship experience.		
Purpose		
To provide students an excellent experience of the contemporary gastroenterological practice in Japan, including endoscopic examination and treatment (gastrointestinal tract, biliary and pancreas), treatment of hepatitis, interventional procedure of hepatocellular carcinoma, and related research.		
Competencies		
Students will be expected to gain a better understanding of gastroenterological diseases and patient care.		
Instruction features		
The students will participate in the care of gastroenterology patients both in the hospital and in the clinic setting. They will participate in the interventional procedure and post-procedure care. They will be assigned to selected inpatients and have a presentation on their patients at conferences.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
<a href="https://www.ho.chiba-u.ac.jp/hosp/section/shokaki/index.html">https://www.ho.chiba-u.ac.jp/hosp/section/shokaki/index.html</a> <a href="https://www.m.chiba-u.ac.jp/dept/gastroenterology/about">https://www.m.chiba-u.ac.jp/dept/gastroenterology/about</a> TEL: +81-43-226-2083 FAX: +81-43-226-2088		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 18 Laboratory: 20 Outpatient: 1 Inpatient: 1		Total hours per week: 40
Key word		

# DIABETES, ENDOCRINOLOGY AND METABOLISM

Number of students: 1	Month accepted:	Length: 4 weeks
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## Prerequisites

Students must have completed M3 Medicine Core Clerkship.

## Purpose

This elective provides opportunity for students to learn the common and the rare endocrine and metabolic disorders.

## Competencies

- To learn managements of type 1 and type 2 diabetes, and complications of diabetes
- To learn to treat dyslipidemia and metabolic syndrome
- To learn to narrow the differential diagnosis of adrenal tumors and pituitary tumors
- To learn to diagnose disorders of fluid and electrolyte metabolism
- To learn to manage hyperthyroidism, hypothyroidism, and the thyroid nodules
- To expand knowledge about Werner syndrome (also known as “Adult progeria”), a very rare, autosomal recessive disorder

## Instruction features

The student participates in hospital and outpatient clinic, patient evaluation, ward rounds, conferences, journal clubs, seminars in close association with, and guided by the attendings, residents, graduate students, and faculties in diabetes, endocrinology and metabolism. She/he is given responsibility in evaluating and managing patients, literature review, and presenting material at the conference and journal clubs. Optional programs include adrenal venous sampling, ultrasound examination of the thyroid and the carotid artery. The research areas available include basic science research in the areas of diabetes, lipid metabolisms, bone biology, tumors (especially tumor suppressor gene *p53*), and geriatrics.

## Assessment

The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.

## Administrative information

Program Director: Koutaro Yokote, M.D., Ph.D. (kyokote@faculty.chiba-u.jp)  
 Administrator: Tomoaki Tanaka, M.D., Ph.D. (tomoaki@restaff.chiba-u.jp);  
 Phone: 043-226-2092 (department office)

## Breakdown of hours per week

Lectures/Conferences/Faculty contact:5  
 Laboratory:0-2  
 Independent Study:3-5  
 Outpatient:10  
 Inpatient: 20 Total hours per week: 40

## Key word

Diabetes, Endocrinology, Geriatric Medicine

HEMATOLOGY		
Number of students: 2	Month accepted:	Length: 4 weeks
Prerequisites		
Students must have completed M3 Medicine Core Clerkship.		
Purpose		
This elective provides opportunity for students to learn recent advance in hematological diseases and stem cell transplantation.		
Competencies		
<p>The aim of the course is to perform and understand the following:</p> <ul style="list-style-type: none"> <li>• Good physical examination and presentation</li> <li>• The process of treatment decision of hematological diseases</li> <li>• How to treat acute leukemia (AML, ALL) and lymphoma by chemotherapy</li> <li>• How to apply molecular targeting therapies to leukemia, lymphoma and myeloma</li> <li>• How to manage patients after allogeneic stem cell transplantation</li> <li>• The recent advances of novel agents in multiple myeloma</li> </ul>		
Instruction features		
The students are expected to be an active participant in stem cell transplantation unit, outpatient clinic, ward rounds, conferences, journal clubs, and seminars. All schedules are closely supervised by attending physicians, residents, graduate students, and faculties in the Department of Hematology, and the Department of Transfusion Medicine and Cell Therapy. The students are given responsibilities in evaluating and managing patients, literature review, and presenting materials at the conferences and journal clubs.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Location: 7th floor, east wing (inpatient’s ward), 1st floor (outpatient’s ward) Program Director: C. Nakaseko, M.D., Ph.D. (chiaki-nakaseko@faculty.chiba-u.jp) Administrative Director: C Ohwada, MD. PhD. (chikako_ohwada@faculty.chiba-u.jp)		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact:5 Laboratory:0-2 Independent Study:3-5 Outpatient:10 Inpatient: 20		
		Total hours per week: 40
Key word		
Hematology, Anemia, AML, ALL, Lymphoma, Myeloma, Stem cell transplantation		

ALLERGY AND CLINICAL IMMUNOLOGY		
Number of students: 1	Month accepted: Jan-Mar, May-Jul, Sep-Dec	Length: 2-8 weeks
Prerequisites		
The student must be in the senior year with sufficient clinical clerkship experience.		
Purpose		
<p>This clinical elective program will provide the students with experience in the diagnosis and the managements of a spectrum of both allergic and rheumatic diseases  Upon completion, the students should;</p> <ol style="list-style-type: none"> <li>1. Be able to identify, diagnose, and treat common allergic or rheumatic diseases.</li> <li>2. Be able to understand basic concepts in Immunology and pharmacology as they pertain to clinical care.</li> </ol>		
Competencies		
It is the mission of this elective to provide students a solid foundation in Rheumatology and Allergy. This will train them to be physicians who will approach the patient with musculoskeletal and allergic complaints in an organized, efficient and professional manner; who will continue life-long learning in the subspecialties of rheumatology and allergy which will enhance their knowledge base; and will enhance their communication and interpersonal skills as they relate to the subspecialties.		
Instruction features		
The students will participate in clinical conferences, and observe and assist medical care in an inpatient and outpatient setting. In addition to patient contact, several preceptorial sessions are held during the elective. These seminars cover allergic and rheumatic diseases in depth and emphasize disease mechanisms as well as diagnostic and therapeutic aspects. During the 4-week period, students have ample time for independent reading. Students work closely with faculty and staff of the Division of Rheumatology throughout the 4-week elective.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
<a href="http://www.m.chiba-u.jp/dept/allergy-clin-immunol/index.html">http://www.m.chiba-u.jp/dept/allergy-clin-immunol/index.html</a> Program Director: Hiroshi Nakajima, MD, PhD Professor of the Department		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact:10 Laboratory:10 Outpatient:6 Inpatient: 14		
		Total hours per week: 40
Key word		
autoimmunity, allergy, rheumatology, clinical immunology		

<b>CARDIOLOGY</b>		
Number of students: 1	Month accepted: Jan-Feb, Jul - Oct, Dec	Length: 2 - 4 weeks
<b>Prerequisites</b>		
The student must be in the senior year with sufficient clinical clerkship experience.		
<b>Purpose</b>		
This clinical elective program provides state-of-art clinical experiences in cardiology to attending students.		
<b>Competencies</b>		
At the end of the course, the student is expected to: <ul style="list-style-type: none"> <li>· Perform a good cardiovascular examination;</li> <li>· Understand cardiac anatomy and physiology and how it applies to a clinical setting;</li> <li>· Interpret electrocardiograms, echocardiograms, and other cardiac images;</li> <li>· Manage patients with common cardiovascular conditions.</li> </ul>		
<b>Instruction features</b>		
The student will participate in medical care in an inpatient setting. Physical examination skills will be taught at bedside. The student will also observe and assist cardiovascular imaging tests (echocardiography, cardiac CT/MRI, nuclear imaging, PET, etc.) and invasive procedures (percutaneous coronary intervention, endovascular treatment, structural heart disease intervention, left atrial appendage occlusion, pacemaker, implantable cardioverter defibrillator, catheter ablation, etc.). The student may also participate in care for patients with severe heart failure who require heart transplantation.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program director: Yoshio KOBAYASHI (Professor) Attending physician: Yuichi SAITO (Assistant professor); saitoyuichi1984@gmail.com <a href="https://www.ho.chiba-u.ac.jp/hosp/en/dpt/cardio_med.html">https://www.ho.chiba-u.ac.jp/hosp/en/dpt/cardio_med.html</a>		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 5 Laboratory: 15 Outpatient: 10 (ER) Inpatient: 10		Total hours per week: 40
<b>Key word</b>		
Cardiology		

PULMONARY MEDICINE		
Number of students: 6	Month accepted:	Length: 2 weeks
Prerequisites		
Students must have completed the M3 Core Clerkship in Medicine.		
Purpose		
The students will be expected to realize diagnosis and management of patients who are required hospitalization for respiratory diseases such as acute exacerbation of COPD, pneumonia, pulmonary hypertension, lung cancer, status asthmaticus, interstitial lung disease and acute respiratory failure, et al. The student will have hospital exposure to many pulmonary illnesses along with ventilator care, laboratory diagnostics modalities which include chest X-rays, computed tomography scans, pulmonary function tests, bronchoscopies and thoracentesis. Experience in the outpatient clinic dealing with common pulmonary diseases will also be available.		
Competencies		
<ul style="list-style-type: none"> <li>• Basic interpretation of chest X-rays and computed tomography scans of the lung.</li> <li>• Interpretation of pulmonary function tests</li> <li>• Basic understanding of respiratory failure</li> <li>• Understanding pathophysiology and treatment of respiratory diseases, including lung cancer, asthma, COPD, pulmonary hypertension, interstitial lung disease and pleural effusion, et al.</li> </ul>		
Instruction features		
The student will be involved in direct patient care, seeing new consults, making daily rounds on current patients, seeing bronchoscopies, thoracenteses, and pulmonary function testing. They will round with the pulmonologists, discussing each in-patient and be asked to make short (5 -10 minute) presentations on various pulmonary topics.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: S. Sakao and K. Tatsumi		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 10 Laboratory/Independent Study: 6 Outpatient: 2 Inpatient: 22		
		Total hours per week: 40
Key word		
Pulmonary Disease, Pulmonary Function Testing, Exercise Testing, Bronchoscopy.		



NEUROLOGY		
Number of students: 2	Month accepted: Jan- Oct, Dec	Length: 2 - 4 weeks
Prerequisites		
Students must have completed their M3 Core clerkships in Medicine, Pediatrics, and Surgery.		
Purpose		
The objective of this program is to give the student advanced clinical experience in neurology, neurophysiology, neuroimmunology, and neuroimaging beyond the required specialty rotation.		
Competencies		
Advanced neurologic diagnosis and management with clinical-anatomic-radiologic correlation, and electrodiagnostic-clinical correlation.		
Instruction features		
The student will participate in the care of neurology patients on the neurology inpatient service, as well as consult services at outpatient clinics at Chiba University Hospital. She/he will have the responsibility of performing neurological examination, and participating in the plan for care along with the resident and attending. Optional programs include neuroimaging courses (reading MRI, CT, and SPECT) and clinical neurophysiologic testing (nerve conduction study, EMG, and evoked potentials). Short lectures may be available for representative neuroimmunological diseases (multiple sclerosis, Guillain-Barre syndrome, and myasthenia gravis), focusing on regional differences in the clinical features, pathophysiology, and treatment between the USA and Japan.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: S. Kuwabara, kuwabara-s@faculty.chiba-u.jp Department of Neurology		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 10 Laboratory: 2 Outpatient: 8 Inpatient: 20		
		Total hours per week: 40
Key word		
Advanced neurology, diagnosis and management, clinical-anatomic correlation, neuroimaging, clinical neurophysiology		

<b>PEDIATRICS</b>		
Number of students: 2	Month accepted:	Length: 4 weeks
<b>Prerequisites</b>		
Students must have completed their M3 Core clerkships in Medicine and Pediatrics.		
<b>Purpose</b>		
The objective of this program is to give the student advanced clinical experience with disease of neonates, infants, children, and adolescents, as well as with normal infants and children. Normal processes of growth and development are emphasized. The students must understand the diseases of children based on age-related physical, psychological, social background.		
<b>Competencies</b>		
(1) Understand normal growth and development from neonatal period through adolescence. (2) Experience with a wide variety of acute and chronic inpatient pediatric cases. (3) Identify and assess clinical and socioeconomic problems in pediatric patients. (4) Improve case presentations and discussion on ward rounds and at conferences.		
<b>Instruction features</b>		
The student will participate in the care of pediatric patients on the inpatient service including NICU, as well as consult services at outpatient clinics at Chiba University Hospital. She/he will have the responsibility of participating in the plan for care along with the resident, chief and attending. The student will round with the team and attend general pediatric conferences.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program Director: Prof. Yoichi Kohno, MD, PhD., <a href="mailto:kohnoy@faculty.chiba-u.jp">kohnoy@faculty.chiba-u.jp</a>		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 10 Laboratory: 2 Outpatient: 8 Inpatient: 20		
		Total hours per week: 40
<b>Key word</b>		
Pediatric medicine, comprehensive care, neonates, infants, children, adolescents		

<b>GENERAL MEDICINE</b>		
Number of students: 2	Month accepted: Jan - Nov	Length: 1 week
<b>Prerequisites</b>		
The student must be in the senior year with clinical clerkship experience.		
<b>Purpose</b>		
To learn the principles of clinical problem solving and ambulatory medicine.		
<b>Competencies</b>		
At the end of the course, the student is expected to:		
1) understand the proper assessment and management of an underdiagnosed symptom and health problem of a patient using a comprehensive approach to address all biopsychosocial problems without being restricted to an organ system or disease.		
2) understand the importance of medical interview, which can independently facilitate definitive diagnosis of a majority of disease or illness.		
<b>Instruction features</b>		
The student will observe how a senior resident examines a patient with an underdiagnosed symptom, discuss the patient's health problems with the senior resident and attending physician, confirm the patient's diagnosis, and develop management plans.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, "CC snapshot"), portfolio, case reports, and/or oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program Director: M. Ikusaka e-mail: <a href="mailto:chiba_u_soshin@mac.com">chiba_u_soshin@mac.com</a> Department of General Medicine <a href="https://www.ho.chiba-u.ac.jp/hosp/en/dpt/general_med.html">https://www.ho.chiba-u.ac.jp/hosp/en/dpt/general_med.html</a>		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 10		
Outpatient: 27		
Inpatient: 3		Total hours per week: 40
<b>Key word</b>		
Clinical problem solving, ambulatory medicine		

<b>PSYCHIATRY</b>		
Number of students: 2	Month accepted:	Length: 4 weeks
<b>Prerequisites</b>		
Students must have completed their M3 Core clerkship in Medicine, Pediatrics, and Surgery.		
<b>Purpose</b>		
The objective of this program is to give the student advanced clinical experience in clinical psychiatry, psychiatric medicine, neurobiology, clinical psychology, psychotherapy, or related region of mental health science beyond the required specialty rotation.		
<b>Competencies</b>		
Advanced psychiatric diagnosis and treatment with evidence based on bio-psycho-socio multidimensional model.		
<b>Instruction features</b>		
The student will participate in the care of patients with mental disorder on the psychiatry inpatient and/or outpatient service at Chiba University Hospital. She/he will have responsibility of performing clinical interview with patients and family, clinical assessment including some of rating scale, general examination, neuroimaging (brain CT, MRI, SPECT) and so on. Therapeutic approaches with cognitive behavioral therapy and/or other psychotherapy for inpatient are available. Attending to lectures and Clinical & Research Meetings are recommended.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program Director: <a href="mailto:niitsu@chiba-u.jp">T.Niitsu</a> ; <a href="mailto:niitsu@chiba-u.jp">niitsu@chiba-u.jp</a>		
<b>Breakdown of hours per week</b>		
Lectures: 2 Conferences: 6 Laboratory: 2 Outpatient: 8 Inpatient: 20 Outreach Service: 2		
		Total hours per week: 40
<b>Key word</b>		
Psychiatry, neurobiology, evidence based on medicine, cognitive behavioral therapy, clinical research		

EMERGENCY AND CRITICAL CARE MEDICINE		
Number of students: 2	Month accepted: Feb - Dec	Length: 1-8 weeks
Prerequisites		
Students must have completed all M3 core clerkships.		
Purpose		
<p>To help the student understand the mechanism of development of critical illness.</p> <p>To recognize any organ system failures as they present in the critically ill patients.</p> <p>To provide exposure to the various diagnostic, monitoring, and therapeutic methods used in the management of critically ill patients.</p>		
Competencies		
Students will be expected to gain a better understanding of emergency and critical care diseases and patient care as well as cutting-edge of scientific research in critical care fields.		
Instruction features		
<p>The students will participate in morning and evening conferences, intensive care unit (ICU) rounds, journal club, morbidity and mortality conferences, research conferences, and other academic activities. In twice daily ICU conferences in the ICU, each patient will be presented. The critical illness, other underlying diseases, and methods of monitoring will be discussed. Potential complications, their recognition and management will be explained. The students will also observe treatments for the patients at the Emergency Department. The students will be able to experience some laboratory works as well at their request.</p>		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
<p>Program Director: Department of Emergency and Critical Care Medicine, Chiba University Hospital</p>		
Breakdown of hours per week		
<p>Lectures/Conferences/Faculty contact: 20</p> <p>Laboratory: 5</p> <p>Outpatient: 10</p> <p>Inpatient: 10</p> <p style="text-align: right;">Total hours per week: 45</p>		
Key word		
Academic Critical Care, Artificial Organ Support, Clinical Genomics		

GENERAL SURGERY		
Number of students: 2	Month accepted: Jan - May, Jul - Dec	Length: 2 - 8 weeks
Prerequisites		
The student must be in the senior year with sufficient clinical clerkship experience.		
Purpose		
This elective course will provide to the students with an excellent experience of the surgical practice, especially in the fields of hepato-biliary-pancreatic surgery and breast surgery. At the end of this elective course, the students will be able to acquire general surgical technique and clinical skills how to manage patients receiving surgery. In addition, the student will be able to obtain the basic and advanced knowledges of hepato-biliary-pancreatic diseases and breast disease through the clinical case conference, video conference, and mortality and morbidity conference.		
Competencies		
Students will be expected to gain a rewarding learning experience and greater knowledge of surgery. This course will also provide an opportunity to understand current international concepts in the surgical field, especially hepato-biliary-pancreatic surgery and breast surgery.		
Instruction features		
The students will participate in clinical case conference, doctor's round for inpatients, video conference, research conference, and mortality and morbidity conference, for obtaining the knowledges regarding hepato-biliary-pancreatic surgery and breast surgery. The student will also be assigned to selected patients, carry out preoperative evaluation, participate in the surgery as an assist, and follow up with the patient postoperatively. The student has to study surgical procedure and relevant anatomy prior to operation in each elective patient.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, "CC snapshot"), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Department of General Surgery Program Director: Masayuki Ohtsuka, MD, PhD., <a href="mailto:otsuka-m@faculty.chiba-u.jp">otsuka-m@faculty.chiba-u.jp</a> . Web site: <a href="http://www.m.chiba-u.ac.jp/dept/zoukiseigyo/">www.m.chiba-u.ac.jp/dept/zoukiseigyo/</a> Phone: +81-43-226-2103		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 10 Laboratory: 2 Outpatient: 2 Inpatient: 26		Total hours per week: 40
Key word		
Surgery, Hepatobiliary pancreatic surgery, liver transplantation, breast surgery.		

<b>ESOPHAGO-GASTRO-INTENSTINAL SURGERY</b>		
Practical course of surgery and endoscopic treatment for digestive diseases		
Number of students: 2	Month accepted: Jan-Mar, May-Oct	Length: 2 -4 weeks
<b>Prerequisites</b>		
Student must have completed an M3 surgical clerkship.		
<b>Purpose</b>		
The major objective for students participating in the digestive surgery is the total understanding of surgical procedures, which includes preoperative diagnosis and managements, surgery, peri- and postoperative managements.		
<b>Competencies</b>		
The following objectives should be accomplished:		
<ol style="list-style-type: none"> <li>1) Learn how to make appropriate examination for precise diagnosis and managements for surgery,</li> <li>2) Learn treatment for Esophageal cancer, Gastric cancer, Colo-rectal cancer, IBDs.</li> <li>3) Endoscopic treatment procedures (ESD/EMR).</li> </ol>		
<b>Instruction features</b>		
The surgical experience is basically provided 2 or 3 days a week. The educations are given to each student which includes regular rounds and clinical conferences. There are also opportunities to take part in endoscopic and/or X-ray examination at least 2 days a week. We also provide the students with excellent experience of high-quality digestive surgery in Japan (including laparoscopic surgery). Students have opportunities of diagnostic procedures (endoscopy and X-ray), endoscopic surgery (ESD/EMR) and chemotherapy.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program Director: Professor Hisahiro Matsubara, MD, PhD, matsuhm@faculty.chiba-u.jp		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 2	Endoscopic examination 3	
Surgery: 12	X-ray examination 3	
Outpatient: 0		
Inpatient: 15	Total hours per week: 35	
<b>Key word</b>		

GENERAL THORACIC SURGERY		
Lung & Mediastinal Surgery		
Number of students: 1	Month accepted: Jan-Apr, Jul-Sep, Dec	Length: 1-2 weeks
Prerequisites		
Open to students who have completed the M3 Core Clerkship in Surgery.		
Purpose		
The major objective for students participating in the general thoracic sub specialty is the total management of patients with lung cancer or mediastinal tumor admitted to the general thoracic surgical unit. All areas of general thoracic surgery except esophageal disease will be covered, including oncology, intervention, immunology, thoracoscopic surgery (VATS), and bronchoscopy.		
Competencies		
Students will be expected to gain a better understanding of lung cancer, mediastinal tumor and patient care.		
Instruction features		
The students will participate in clinical conferences, and observe and/or assist medical care in an inpatient and outpatient setting. Lectures about specific features of general thoracic surgery and/or endobronchial diagnosis/treatment in Japan will be provided for the students.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: Ichiro Yoshino, MD, PhD      iyoshino@faculty.chiba-u.jp Department of General Thoracic Surgery		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 4-6 Laboratory: 0 Outpatient: 0-2 Inpatient: 34 <span style="float: right;">Total hours per week: 40</span>		
Key word		
Surgery, lung cancer, mediastinal tumor, thoracoscopic surgery (VATS), bronchoscopy, endobronchial ultrasound (EBUS)		



CARDIOVASCULAR SURGERY		
Number of students: 2	Month accepted:	Length: 4 weeks
Prerequisites		
No requirement		
Purpose		
To obtain basic knowledge of cardiovascular anatomy, pathophysiology of heart disease, theory for planning surgical procedure, and perioperative management including hemodynamic monitoring.		
Competencies		
Students will be able to		
<ol style="list-style-type: none"> <li>(1) Understand surgical anatomy and surgical pathology of congenital and acquired cardiovascular disease.</li> <li>(2) Take a history, physical exam, and elucidate a surgical patient's problem.</li> <li>(3) Understand clinical significance of diagnosis and develop efficient plan of diagnostic tests.</li> <li>(4) Understand theory of surgical decision making based on scientific and clinical evaluation.</li> <li>(5) Obtain basic knowledge of cardiopulmonary bypass system and of physiology and practice of myocardial protection.</li> <li>(6) Plan postoperative management including fluid infusion, transfusion, antibiotics, nutrition, and anticoagulant therapy, based on each patient's disease and surgical procedure.</li> <li>(7) Improve case presentation skills summarizing history, physical exam, diagnostic findings and clinical course.</li> </ol>		
Instruction features		
The objectives will be obtained by the following instructional methods: Attendance of morning case conference, daily teaching rounds, weekly grand rounds, weekly case conference, and weekly journal club with cardiothoracic faculty and residents. Observation in the operating room.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, "CC snapshot"), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: Goro Matsumiya, MD, PhD., matsumg@faculty.chiba-u.jp Department of Cardiovascular Surgery		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 8 Laboratory: 0 Outpatient: 0 Inpatient: 32		
		Total hours per week: 40
Key word		

## OBSTETRICS & GYNECOLOGY

Number of students: 2	Month accepted: Jan-Mar, Jun-Dec	Length: 2-8 weeks
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### Prerequisites

The student must be in the senior year with sufficient clinical clerkship experience.

### Purpose

This elective combines obstetrical and gynecologic care. Two weeks are spent providing gynecologic care, which includes evaluation and management of common acute and chronic gynecologic conditions. Patients will be seen in the hospital, in the clinic, emergency room and operating room. The remaining two weeks are spent in the Obstetrical Special Care Unit developing skills in management of delivery of the high risk patient and management of obstetrical emergencies in the otherwise low risk patient. If desired, a student can spend the entire rotation on either OB or GYN depending on the availability.

### Competencies

Emphasis is placed on history and physical examination skills in the evaluation and management of pregnancy, vaginal delivery, and both office gynecology and gynecologic surgical procedures through exposure to patients in the outpatient clinics, Labor and Delivery, and the operating room.

### Instruction features

TYPE/FORMAT: Outpatient/ambulatory care experience (one-to-one instruction), Inpatient ward experience (small group instruction), Library time/independent study, Lectures, conferences, seminars, grand rounds, etc.

RESPONSIBILITIES: Work up and follow patients, On-call schedule; one night per 2 weeks, Interpreting clinical data (X-rays, lab results, etc.), Attendance of conferences, grand rounds, research seminars, lectures, Reading of literature and research, Patient presentations, Required topic presentations; minimum on one, Observe procedural techniques

### Assessment

The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.

### Administrative information

Program Director: **Kaori Koga, MD, PhD** [kaorikoga@chiba-u.jp](mailto:kaorikoga@chiba-u.jp)  
<https://www.m.chiba-u.ac.jp/dept/gynecol/>

### Breakdown of hours per week

Lectures/Conferences/Faculty contact: 6	
Laboratory: 2	
Outpatient 8	
Inpatient: 24	Total hours/week 40

### Key word

ORTHOPEDIC SURGERY		
Number of students: 2	Month accepted: Jan-Jul, Sep-Nov	Length: 2 weeks to 1 year
Prerequisites		
No requirement		
Purpose		
To provide students an excellent experience of the contemporary orthopedic practice in Japan, including spine surgery, hip surgery, knee surgery, hand surgery, and related research.		
Competencies		
Students are expected to obtain a rewarding learning experience and greater knowledge of orthopedics. We anticipate that they will gain a better understanding of diagnosis and surgical treatments of patients with orthopedic diseases. This course will also provide an opportunity to understand current international concepts in the orthopedic field.		
Instruction features		
The students will participate in surgical case observation, clinical conferences, morning case presentations, ward rounds, journal club, resident seminars, and other academic activities. They will be encouraged to spend time in the operation room on Monday, Wednesday, and Friday. It is expected that they will read about the diseases, perform operative procedure, and study relevant anatomy prior to coming to the operation room for all elective cases. In each case, attending staff will be happy to suggest appropriate reading materials and explain the details about the case. We have five units in our department; 1) cervical spine and spinal cord, 2) lumbar spine, 3) hand, 4) hip, and 5) knee and sports medicine. In addition, case observation of pediatric orthopedics and/or bone tumor would be possible at the designated hospitals.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: Seiji Ootori, MD, PhD Department of Orthopedic Surgery		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact:10 Laboratory: 4 Outpatient: 6 Inpatient: 10-20		Total hours per week: 30-40
Key word		

<b>OTORHINOLARYNGOLOGY</b>		
<b>Head and Neck Surgery</b>		
Number of students: 1	Month accepted: Jan-Apr, Sep-Dec	Length: 2- 4 weeks
<b>Prerequisites</b>		
The student must be in the senior year with sufficient clinical clerkship experience.		
<b>Purpose</b>		
This elective is targeted toward those students interested in developing knowledge of otorhinolaryngology beyond that required of the primary care physician. Students on this elective will play a great role in the inpatient care and in operating room procedures. Students will be taught to identify head and neck pathology, to complete an appropriate work-up of the disease process and to manage head and neck disease processes.		
<b>Competencies</b>		
Students will be expected to gain a better understanding in general otorhinolaryngology - head and neck surgery and includes the diagnosis and treatment of head and neck neoplasms.		
<b>Instruction features</b>		
The student will be assigned to selected patients and will carry out preoperative evaluation, will assist in surgical procedures on that patient, and will follow up with the patient postoperatively, both in the hospital and in the clinic setting. The student will present his/her own patients at conferences.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, "CC snapshot"), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
(URL) <a href="https://www.m.chiba-u.ac.jp/dept/jibika/">https://www.m.chiba-u.ac.jp/dept/jibika/</a> Program Director: Toyoyuki Hanazawa, MD, PhD Department of Otorhinolaryngology - Head and Neck Surgery		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 4 Laboratory: 2 Outpatient: 4 Inpatient: 30		Total hours per week: 40
<b>Key word</b>		

<b>NEUROSURGERY</b>		
Number of students: 2	Month accepted:	Length: 4 weeks
<b>Prerequisites</b>		
Student must have completed an M3 clerkship.		
<b>Purpose</b>		
The objective of this program is to give students advanced clinical experience in neurosurgery		
<b>Competencies</b>		
This course will provide a better understanding of diagnosis and surgical treatments of patients with neurosurgical diseases.		
<b>Instruction features</b>		
The students will participate in the care of neurosurgical patients on the neurosurgical inpatient service, as well as consult services at outpatient clinics at Chiba University Hospital. They will also participate in surgical case observation, clinical conferences, morning case presentations, ward rounds, journal club, resident seminars, and other academic activities. They will have the responsibility of performing neurological examination, and participating in the plan for care along with the resident and attending. Our department is divided into six groups; 1) pituitary and skull-base tumor (including endoscopic treatment), 2) malignant tumor, 3) vascular lesion (including endovascular treatment), 4) functional surgery, 5) spinal surgery, and 6) hydrocephalus (including endoscopic treatment).		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program Director: Yasuo Iwadachi, MD, PhD Department of Neurosurgery		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 4 Laboratory: 2 Outpatient: 2-4 Inpatient: 30-40 Total hours per week: 40-50		
<b>Key word</b>		

<b>UROLOGY</b>		
Number of students: 1	Month accepted: Jan-Jul, Sep-Dec	Length: 1- 4 weeks
<b>Prerequisites</b>		
The student must be in the senior year with sufficient clinical clerkship experience.		
<b>Purpose</b>		
The elective in urology is designed to provide students with an introduction to basic urologic practice. At the end of the elective, students will be able to demonstrate clinical management of urologic patients, and discuss diagnosis and treatment at clinical case conferences based on a practical knowledge of the clinical field of urology as well as a basic understanding of the more commonly encountered urological problems. All areas of urology will be covered, including urologic oncology, stone disease, infertility, microsurgery, laparoscopic surgery, robotic surgery and urodynamics.		
<b>Competencies</b>		
Students will be expected to gain a better understanding of urologic diseases and patient care.		
<b>Instruction features</b>		
The student will be assigned to selected patients and will carry out preoperative evaluation, will assist in surgical procedures on that patient, and will follow up with the patient postoperatively, both in the hospital and in the clinic setting. The student will present his/her own patients at conferences. The course allows the student to function as a junior house officer.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
Program Director: Tomohiko Ichikawa, MD, PhD., tomohiko_ichikawa@faculty.chiba-u.jp Department of Urology		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 4 Laboratory: 2 Outpatient: 4 Inpatient: 30		Total hours per week: 40
<b>Key word</b>		

OPHTHALMOLOGY		
Number of students: 2	Month accepted:	Length: 1 week
Prerequisites		
The student must be in the senior year with sufficient clinical clerkship experience.		
Purpose		
To provide students an excellent experience of the contemporary ophthalmic practice in Japan, including microincision cataract, glaucoma, vitrectomy surgery and related research.		
Competencies		
Students are expected to obtain the practical experience and greater knowledge of clinical ophthalmology. We anticipate that they will gain a better understanding of diagnosis, surgical and medical treatment skills for ophthalmic diseases. This course will also share the information on the current international consensus in the field of ophthalmology.		
Instruction features		
The students will participate in the patient care at the outpatient clinic, clinical conferences, ward rounds, small-group seminars for residents, and other academic activities. They will have chance to spend time in the surgical theaters through Monday to Friday. It is highly recommended that they read about the diseases, surgical techniques and relevant anatomy prior to coming to the operation room for all elective cases. In each case, attending staff is happy to suggest appropriate reading materials and explain details of the complicated cases. In the outpatient clinic, the students will learn about the wide variety of ophthalmic cases, e.g. retinitis pigmentosa, age-related macular degeneration, diabetic retinopathy, uveitis, glaucoma and other rare hereditary eye disorders.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
[ <a href="http://www.m.chiba-u.ac.jp/dept/gannka/">http://www.m.chiba-u.ac.jp/dept/gannka/</a> ] Program Director: Hirotaka Yokouchi, MD, PhD E-mail : yokouchi123ninth@yahoo.co.jp Department of Ophthalmology and Vision Science		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact:5 Laboratory:5 Outpatient:10 Theater: 10 Inpatient:10		
		Total hours per week: 40
Key word		

DERMATOLOGY		
Number of students: 2	Month accepted: 1-3, 6, 7, 9-12	Length: 2-4 weeks
Prerequisites		
Student must have completed an M3 clerkship. Ability of conversation in Japanese is required to take a clinical history from the outpatient.		
Purpose		
We provide students with an introduction to basic and advanced dermatologic practice. At the end of the elective, students will be able to discuss clinical and pathologic diagnosis and demonstrate clinical management of dermatologic patients, at our conferences based on a practical knowledge of the clinical field of dermatology. All areas of dermatology will be covered, including atopic dermatitis, psoriasis, bullous disease, skin benign or malignant tumors and so on.		
Competencies		
Students will be able to obtain a better understanding of dermatologic diseases and patient management.		
Instruction features		
Day time: Student will accompany the process of clinical diagnosis, treatment, biopsy and operation, and postoperative management of skin disease patients at clinic and hospital. Evening: The students will be able to participate in clinical and pathological conferences, and observe the process diagnosis and treatment with out or inpatients.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: Takashi Inozume, MD, PhD., <a href="mailto:tinozume@chiba-u.jp">tinozume@chiba-u.jp</a> Department of Dermatology		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 4 Laboratory: 2 Outpatient: 12 Inpatient: 22		
		Total hours per week: 40
Key word		
Atopic dermatitis, psoriasis, bullous disease, skin benign tumors and malignant tumors (malignant melanoma, basal cell carcinoma, squamous cell carcinoma and so on.)		



## PLASTIC AND RECONSTRUCTIVE SURGERY

Number of students: 2

Month accepted: Jan-Mar, May-Dec

Length: 2 -8 weeks

### Prerequisites

Student must have completed an M3 surgical clerkship.

### Purpose

Students will be able to demonstrate an understanding of body surface injury (including facial bone fracture and scar contracture), skin tumors (benign and malignant), congenital malformation of body surface, plastic surgery, and reconstructive surgery by experience of patient care. Student will accompany the process of diagnosis, treatment, operation, and postoperative management of patients at clinic and hospital. Student will be expected to have skills of skin suture, including designing and performing skin incision, undermining, subcuticular suture, and skin suture. Student will learn the issues of scarring in Asian patients, and the different selection of skin suture methods. Student will also experience keloid, double eyelid operation, and operation of osmidrosis, which are rarely seen in Europe and the USA, and have the opportunity to learn the theory and practical technique of plastic surgery such as Z-plasty, W-plasty, local flap, and tips for removal of small skin tumors.

### Competencies

### Instruction features

The students will participate in clinical conferences, and observe and assist medical care in an inpatient and outpatient setting. Lectures about specific features of plastic and reconstructive surgery in Japan will be provided for the students.

### Assessment

The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.

### Administrative information

Program Director: Nobuyuki Mitsukawa, MD, PhD., nmitsu@air.linkclub.or.jp

### Breakdown of hours per week

Lectures/Conferences/Faculty contact:

Laboratory: 0

Outpatient:

Inpatient:

Total hours per week: 55

### Key word

PEDIATRIC SURGERY		
Number of students: 2	Month accepted: Jan-Apr, Jun-Jul, Sep-Dec	Length: 4 - 8 weeks
Prerequisites		
The student must be in the senior year with sufficient clinical clerkship experience.		
Purpose		
The purpose of the course is to provide thorough exposure to clinical pediatric surgery practice and pediatric surgical research		
Competencies		
Students will be expected to understand and explain the basic etiology and pathogenesis of common pediatric surgical diseases, and to demonstrate proper treatment strategies for the patients.		
Instruction features		
During the rotation, the students will join the pediatric surgery team and take part in the diagnostic process, decision making, and practice of pediatric surgery, including scrubbing in the OR. They will be primarily responsible for the management of patients assigned. The weekly schedule consists of two days in the operation room, one day in the outpatient clinic, and the rest of the week in the inpatient ward. Students are also required to see patients that require immediate surgical attention. They will be given opportunities to join clinical rounds and conferences, and also will give presentations at the weekly pediatric surgery board, the biweekly pediatric tumor board, and the monthly prenatal conference.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Contacts to: Professor Tomoro Hishiki, M.D., Ph.D., <a href="mailto:hishiki@chiba-u.jp">hishiki@chiba-u.jp</a> Department of Pediatric Surgery, Chiba University Hospital		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 5 Laboratory:3 Outpatient:3 Inpatient:10 Operation room: 12 Total hours per week: 33		
Key word		
Pediatric Surgery, Neonatal Surgery, Pediatric Surgical Oncology		

<b>RADIOLOGY</b>		
Number of students: 1	Month accepted: Jan-Mar, Jun-Jul, Sep-Nov	Length: 4 – 6 weeks
Prerequisites		
No requirement		
Purpose		
To provide students an excellent experience of the modern radiological practice in Japan, including diagnostic radiology (CT, MRI, PET), interventional radiology, and radiation oncology.		
Competencies		
In diagnostic radiology, emphasis is placed on the appropriate application and usefulness of imaging procedures in specific clinical settings, their limitations and risks, and their relative value in particular clinical disorders. In radiation oncology, the student will learn the modern high-precision radiation therapy and fundamentals of radiation oncology such as radiobiology and physics.		
Instruction features		
<p>In diagnostic radiology, the student will be introduced to all aspects of diagnostic imaging. The major portion of the clerk ship will be devoted to image interpretation. The student will be asked to make a short, formal presentation on some relevant subject at our weekly radiology rounds.</p> <p>In radiation oncology, the student will gain knowledge at individual discussion with attending physicians and participate in treatment planning sessions. They can experience new image-guided radiation therapy using the latest treatment equipment such as MR linear accelerator.</p>		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: Takashi Uno, MD, PhD., unotakas@faculty.chiba-u.jp Department of Radiology		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 10-20 Laboratory: 0 Outpatient: 0-8 Inpatient: 0-30		
		Total hours per week: 30-40
Key word		

## ANESTHESIOLOGY AND PALLIATIVE CARE MEDICINE

Number of students: 2	Month accepted:	Length: 3 weeks
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### Prerequisites

Students must have completed their M3 Core Clerkships in Medicine and Surgery. NOTE: This course is offered after September.

### Purpose

The objective of this program is to give the student advanced clinical experience in anesthesiology, respiratory physiology, and palliative care beyond the required specialty rotation.

### Competencies

In the process of the completing this course, the student should be able to evaluate the risk of airway management with airway check sheet. He/she should know to manage airway with NPA, OPA, face mask, etc. Understand the difference of general, regional, also the basics of high risk anesthesia should be understood which includes monitors, special anesthetic techniques, transfusions and inotropic infusions. The student should have an excellent knowledge base of respiratory physiology and mechanism and therapy for sleep apnea.

### Instruction features

The first meeting is an orientation and introduction to Anesthesia at clinical laboratory at 1 pm on first Monday. She/he will have the responsibility of performing general anesthesia, pre-round, and post-round along with supervisor. Short lectures may be available for respiratory physiological study, focusing on correlation between pain and dyspnea. Students are expected to attend all didactic lectures that the site has to offer (different sites have different times).

### Assessment

The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.

### Administrative information

Program Director: S. Isono, shirohisono@yahoo.co.jp  
 Department of Anesthesiology and Palliative Care Medicine

### Breakdown of hours per week

Lectures/Conferences/Faculty contact: 2.5	
Laboratory: 3	
Outpatient: 2.5	
Inpatient: 32	Total hours per week: 40

### Key word

General anesthesia, respiratory physiology, sleep apnea, airway management

DENTISTRY AND ORAL-MAXILLOFACIAL SURGERY		
Number of students: 1	Month accepted: Feb, May-Jul, Sep-Nov	Length: 2 weeks
Prerequisites		
The students must be in the senior year with sufficient clinical clerkship experiences.		
Purpose		
The purpose of this program is to provide the students advanced clinical experiences in Dentistry and Oral-Maxillofacial Surgery.		
Competencies		
The students are expected to obtain a rewarding learning experiences and greater knowledge of dentistry and oral-maxillofacial surgery. We anticipate that the students will gain a better understanding of diagnosis and surgical treatments of patients with diseases in the oral-maxillofacial regions. This course will also provide an opportunity to understand current international concepts in the field of dentistry and oral-maxillofacial surgery.		
Instruction features		
The students will be assigned to selected patients, will carry out preoperative evaluation, will assist in surgical procedures on the patient, and will follow up with the patient postoperatively, both in the hospital and in the clinic setting. The students will present his/her own patients at conferences. The students will participate in our routine works, including clinical conferences, ground rounds, resident seminar, and other academic activities for the oral-maxillofacial surgeons. In the operation room, the students can learn advanced and innovative clinical approaches as well as general techniques for odontogenic tumors, odontogenic cysts, and oral cancers.		
Assessment		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
Administrative information		
Program Director: Prof. Katsuhiko UZAWA, DDS, PhD (uzawak@faculty.chiba-u.jp) Department of Dentistry and Oral-Maxillofacial Surgery, Chiba University Hospital [URL: <a href="https://www.ho.chiba-u.ac.jp/hosp/section/shika/index.html">https://www.ho.chiba-u.ac.jp/hosp/section/shika/index.html</a> ]		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 10 Laboratory: 10 Outpatient: 10 Inpatient: 10		Total hours per week: 40
Key word		
Oral surgery, Oral cancer, Dentistry		

<b>PATHOLOGY</b>		
Number of students: 1	Month accepted: Jan-Mar, May-Jul, Sep-Oct, Dec	Length: 1-4 weeks
<b>Prerequisites</b>		
The student must be in the senior year with sufficient clinical clerkship experience.		
<b>Purpose</b>		
Students should be able to understand the process and usage of pathological diagnosis of biopsy and operational samples. Students who take the 4-week course will be able to demonstrate basic skills of pathological diagnosis using clinical samples of malignant tumors (lung cancer, esophageal cancer, stomach cancer, colon cancer, and brain tumor).		
<b>Competencies</b>		
Student will be able to (1) Explain the clinical significance of pathological diagnosis and process of diagnosis based on clinical information and pathological findings. (2) Demonstrate proper treatment of biopsy and operation samples. (3) Explain the report of pathological finding and diagnosis. (4) Explain the role of intraoperative rapid diagnosis.		
<b>Instruction features</b>		
(1) AM: Attend review meeting (conference) of biopsy samples. (2) Practice macroscopic examination of operational samples (lung, digestive tract) and preparation for specimen. (3) Using above specimen, practice microscopic diagnosis and writing pathological diagnosis in English under supervision of faculty members. (4) Discuss cases at clinical-pathological conferences with specialists.		
<b>Assessment</b>		
The students will be evaluated using mini-clinical evaluation exercises (mini-CEX, “CC snapshot”), portfolio, case reports, and oral examination. Each will be measured by five Likert scale.		
<b>Administrative information</b>		
<a href="https://www.ho.chiba-u.ac.jp/hosp/section/byorishindan/index.html">https://www.ho.chiba-u.ac.jp/hosp/section/byorishindan/index.html</a>		
<b>Breakdown of hours per week</b>		
Lectures/Conferences/Faculty contact: 25 Laboratory: 10 Outpatient: 0 Inpatient: 0 Total hours per week: 35		
<b>Key word</b>		

<b>OCCUPATIONAL AND ENVIRONMENTAL MEDICINE</b>		
Basic practical course of occupational health system and environmental health problems in relation to culture, economic activity, and history in Japan		
Number of students: 2	Month accepted: Jan-Apr, Jul-Aug, Dec	Length: 2 weeks
Prerequisites		
No requirement		
Purpose		
To understand the occupational health system, environmental problems, and mechanisms, treatment, and prevention of induced diseases and disorders in relation to culture, economic activity, and history in Japan. More precise educational objectives and contents will be discussed with students at the beginning of the course.		
Competencies		
Instruction features		
The students will learn by lecture and fieldwork. A. Occupational health system: fieldwork at industries in Chiba. B. Environmental health problems: fieldwork for ITAIITAI disease, Japanese pollution disease, JINTSU valley in Toyama (6 days)		
Assessment		
The student will be evaluated by a report.		
Administrative information		
Program Director: Yasushi Suwazono suwa@faculty.chiba-u.jp Department of Occupational and Environmental Medicine		
Breakdown of hours per week		
Lectures/Conferences/Faculty contact: 5	Fieldwork	
Laboratory:		
Outpatient:		
Inpatient:		Total hours per week: 30
Key word		