



Programa Internado Electivo en el extranjero

UDD - USP Medical School

Oportunidades de internados y rotaciones clínicas



Universidad del Desarrollo
Dirección de Relaciones Internacionales



Opciones disponibles

La universidad de Sao Paulo ofrece una variedad de especialidades para que los alumnos UDD puedan realizar su Internado electivo. Se ofrecen dos modalidades:

ROTACIONES

Los alumnos podrán optar a rotaciones médicas donde podrán trabajar bajo la tutela de un doctor de la especialidad, tomar parte en procedimientos y cirugías, atender pacientes y clases y acceder a la biblioteca de FMUSP.

Los alumnos deben tener un nivel de inglés adecuado

Duración mínima de la rotación: 30 días.

Duración máxima de la rotación: 180 días.

INTERNADOS

Los alumnos de 5to y 6to año también pueden realizar un internado, que deben complementar con clases y exámenes finales.

Los alumnos deben tener un nivel de portugués avanzado (obligatorio).

Duración mínima del internado: 90 días

Duración máxima del internado: 180 días.

Para alumnos que tengan nivel de Inglés fluido:

- Patología de Autopsia
- Fallas cardíacas
- Medicina Interna
- Medicina física y rehabilitación
- Cirugía de urgencia
- Cronología
- Urgencias de neurocirugía
- Enfermedades infecciosas

Para alumnos que tengan un nivel básico o intermedio de Portugués:

- Anestesiología
- Cardiología interdisciplinaria
- Cardiología
- Cardiopatías
- Medicina Geriátrica
- Oftalmología
- Otorrinolaringología
- Transplante pediátrico de corazón
- Cirugía pediátrica
- Cirugía plástica
- Hipertensión pulmonar
- Medicina física y rehabilitación

Para alumnos que tengan un nivel de Portugués avanzado:

- Pediatría I
- Ginecología y Obstetricia
- Cirugía General y Abdominal
- Medicina Interna I (Cuidado primario, Oftalmología y Otorrinolaringología, Enfermedades infecciosas, Dermatología, Psiquiatría)
- Pediatría II
- Medicina Interna II
- Cirugía II



Cómo postular

Para que el programa sea convalidado en la UDD, los alumnos primero deben cumplir con el proceso de postulación interno de la UDD y, en el caso de ser seleccionados, serán postulados a la universidad extranjera. Las instrucciones para postular son las siguientes:

- Debes completar el Documento con el visto bueno Internados en el extranjero. Este documento tiene que tener las 3 firmas solicitadas (de la Coordinadora Académica de Medicina, de un sponsor financiero, y la firma del alumno). Debes escanear este documento
- Luego debes completar el Formulario de Postulación Internados Medicina y adjuntar el documento de visto bueno.

Plazos

Los alumnos interesados podrán postular hasta el **5 de Octubre 2018**.

Contacto

Para mayor información favor contactar a Paulina Zamora pzamora@udd.cl o visitar el siguiente link a nuestro sitio Web.

Para mayor información visita la web de la Facultad de Medicina de la USP

AUTOPSY PATHOLOGY

LUIZ FERNANDO BURNS (DEPARTMENT OF PATHOLOGY)

Introduction

The autopsy services of the Clinical Hospital, the Heart Institute, the Sao Paulo Autopsy Service (SVOC), are located in the health quad where the FMUSP/Clinical Hospital is found, which is the largest health complex in Latin America. The SVOC alone performs more than 14,000 autopsies/year, making it the largest autopsy service for patients who have died of natural causes in the world.

As part of the different disciplines for undergraduate students, the autopsies are used as important tools to discuss not just the pathophysiological processes and macroscopical findings, but also, the relationship among pathological alterations, radiological exams and clinical issues. For this purposes, we have a multi-specialty discussion, starting with clinical and radiological issues and them moving to pathological findings and pathophysiological pathways during the “live” autopsy, directly broadcasted to lecture room.

The Imaging Platform of the Autopsy Service has a CT scanner, a pump for AngioCT, an Ultrasound and a 7T MRI dedicated to autopsy procedures and has been a great opportunity for that integrated activities among different medical specialties both at the undergraduate and the graduate levels

1. Number of Students

Up to 5

2. Time-Period

1 month

3. Location

Department of Pathology – University of Sao Paulo – School of Medicine Sao Paulo
Brazil. / São Paulo Autopsy Service – University of São Paulo - Brazil

4. Objectives

To obtain knowledge and skills on pathologic basis and processes of diseases in several organs and its interaction with other organs and systems, as well as the interactions with clinical and radiological issues.

5. Endpoints

At the end of the Program, students are expected to:

- Correlate pathological and radiological findings
- Develop anatomic skills in the dissection processes
- Integrate the pathological findings and mechanisms with clinical conditions
- Know how to make medical considerations using autopsies reports
- Know the different autopsies procedures and techniques involved in pathological examination – macroscopic and microscopic.
- Prepare an autopsy report.
- Recognize the relevance of autopsies on medical activities and medical quality control.

6. Evaluation of Communication Skills, Competency and Professionalism

Students will be taught and evaluated in their ability to:

- Demonstrate professionalism in their approach to legal, ethical, social and cultural concerns related to the patient that are examined using autopsy.
- Demonstrate ability to communicate with other students and professionals related to the procedures.

7. Activities

- Activities in autopsy room – Dissection, tissue sampling, macroscopic examination
– Variable time depending on cases – Daily;
- Case discussion with pathologists – following the autopsy, discussion about the death certificate, main pathological process related to the evaluated case – Daily;
- Microscopic analysis, discussion and preparation of final autopsy report – daily;
- Weekly meetings for interesting pathological cases – Star Case – Monday 11:00AM – 12:00 AM;
- Participation in clinic-pathologic meetings
- Seminars on basic pathology and scientific pathology meetings – Weekly.

8. Lectures and Seminars

- Autopsy – Strategies and relevance;
- Radiological / Pathological correlation in autopsy;
- Autopsy as a research tool.
- Cardiovascular diseases – autopsy pathology;
- Infectious diseases – autopsy pathology;
- Lung diseases – autopsy pathology;
- The pathological report.

HEART FAILURE

EDIMAR ALCIDES BOCCHI & VICTOR SARLI ISSA (DEPARTMENT OF CARDIOPNEUMOLOGY)

Introduction

The prevalence of heart failure is approximately 1–2% of the adult population in developed countries including USA, rising to more than 10% among people over 70 years of age. The heart failure is a very important public health problem around the world.

In Brazil, cardiovascular diseases are the third most common cause of hospitalization and heart failure is associated with up to 40% these cases. That makes heart failure a prevalent condition with high epidemiological burden. Importantly, in Latin America not only systemic hypertension and ischemic heart disease are responsible for heart failure cases, but also neglected diseases with high local prevalence such as Chagas disease and rheumatic disease. Heart failure may have different clinical presentations, ranging from hyperacute to chronic cases and offer a unique opportunity for Medical Students develop and strengthen clinical abilities in cardiovascular diseases.

The Heart Failure Unit is part of the Heart Institute (InCor), which is 535 bed hospital dedicated to cardiology located at the FMUSP Complex. In the heart failure unit, around 40 outpatients are seen each day, and the heart failure team also takes care of patients during episodes of acute decompensation in the emergency department, wards and intensive care units. The heart failure unit can offer clinical treatment as well as surgical interventions, including heart transplant and ventricular assist devices.

1. Number of students: up to 2

2. Duration: 1-2 months

3. Location: Heart Failure Unit, Heart Institute (InCor) of FMUSP Complex.

4. Objectives

The objective of the clerkship program is to provide conditions for the student to acquire develop and strengthen clinical skills and knowledge regarding heart failure and associated with traditional cardiovascular conditions such as hypertension, diabetes mellitus and ischemic heart disease, but also conditions epidemiologically important in Latin America, namely Chagas disease and Rheumatic disease.

5. Endpoints

At the end of the Program students are expected to

- Recognize clinical symptoms and signs of heart failure
- Diagnose heart failure syndrome
- Categorize heart failure presentation
- Recognize clinical markers associated with prognosis
- Know main treatment options for heart patients
- Outline treatment for a given patient
- Recognize Chagas disease and its clinical importance
- Recognize Rheumatic disease and its clinical importance

6. Evaluation of Communication Skills, Competency and Professionalism

Students will be oriented, stimulated and evaluated by the faculty during daily clinical activities regarding abilities to:

- Establish a professional rapport with patients taking into consideration cultural, social, ethical and legal aspects.
- Establish a professional rapport with the medical team taking into consideration cultural, social, ethical and legal aspects.

7. Activities

- Participation in ambulatory patient care – daily – under supervision of a cardiologist from staff
- Participation in in-patient care under supervision of a cardiologist from staff
- Participation in medical rounds in ER, ICU and wards – daily
- Journal Club – weekly
- Difficult Cases Discussion Session – weekly
- Seminars in Heart failure– weekly

INTERNAL MEDICINE IN A COMMUNITY HOSPITAL

PAULO ANDRADE LOTUFO (DEPARTMENT OF INTERNAL MEDICINE)

Introduction

The community hospital is the scenario where many medical doctors will act. Health personnel working at this settings are expected to address the various disorders usually found in the community. Patients seeking these hospitals range from individuals with disorders of middle complexity requiring follow up or diagnosis, to patients with acute decompensated disorders requiring hospital admission in ward or ICU. The clerkship will provide students a broad experience of the daily life in a community hospital and the challenges faced by providers in addressing the most frequent health related issues. Students will experience the care of patients with pneumonia, cirrhosis, septic shock, stroke, urinary tract infection, respiratory and circulatory failure, seizure, among others. The course is offered in two modes: a short mid-year (June) course, with a 2-week duration and rotations in ICU and Internal Medicine Ward; and an end-year version (November to December), with a 6-week duration and rotations in ICU, general ward and emergency room.

1. Number of Students

6 in June; 9 in November-December

2. Time-Period

Mid-year: May 29th-Jun 9th; End-year: Oct 30th-Dec 8th; Monday to Friday (8:00 AM to 5:00 PM)

3. Location

Hospital Universitário (HU) - USP - Campus Cidade Universitária

4. Objectives

Students are expected to experience the care of most common health issues in internal medicine in a community hospital in three settings: emergency room, general ward and general ICU. In each of the settings, students will participate in the care of patients with focus on:

- . common health problems in Brazil
- . challenges in providing care in real-life scenarios
- . balancing families' expectations
- . physiology as tool for health care delivery in the ICU
- . supportive care for patients with acute critical illnesses
- . end-of-life preferences and withdrawal of support in critical care setting

5. Endpoints

By the end of the program, students are expected to:

- . recognize a critical care patient and acknowledge system dysfunctions;
- . perform initial evaluation on an unstable patient and recognize signs of imminent risk;
- . discuss the most common health problems in Brazil and challenges in meeting them;
- . design simple treatment plans for the some of the most common illnesses affecting the general population;
- . recognize challenges in providing care at real-life and design ways to address them.

6. Evaluation of Communication Skills, Competency and Professionalism

Students will undergo a written and oral test to evaluate learning during the program.

Following the test, a joint session for feedback will be held to provide students and tutors insights on the program.

7. Activities

In the June course, students will rotate in 2 clinical scenarios, each lasting 1 week:

- . Intensive Care Unit
- . Internal Medicine Ward

In the Nov-Dec course, students will rotate in three scenarios, each lasting 2 weeks:

- . Internal medicine ward
- . Intensive Care Unit
- . Emergency Room

PHYSICAL MEDICINE AND REHABILITATION

LINAMARA RIZZO BATTISTELLA & MARTA IMAMURA (DEPARTMENT OF LEGAL MEDICINE)

1. Number of Students

5 students

2. Time-Period

2 weeks, extendable by two others, based on considerations of the institution and the student

3. Location

Rotation at outpatients and in-patients Units of the Institute of Physical Medicine and Rehabilitation Institute – Lucy Montoro Network located in the city of São Paulo (Vila Mariana, Clinicas, Morumbi, Jardim Umarizal).

4. Objectives

- To provide a comfort level in the medical practitioner to the assessment and care of individuals with disabilities that present for evaluation and a framework on where to look to obtain further information;
- To provide an appreciation of the need for a functional, or outcomes-based, approach to the continuum of medical care;
- To provide a fundamental core of knowledge in the physical diagnosis and treatment of disabling diseases and injuries, encountered in the routine practice of medicine;

5. Endpoints

Knowledge: at the end of the undergraduate program, the graduate should be able to:

- Define and distinguish among the terms "impairment," "activity limitation," and "participation restriction";
- Discuss the functional implications of illnesses and injuries within the routine and practice of medicine;
- Understand the impact of chronic illnesses, pain and disability on an individual, the family and community;
- Describe the concepts of continuum of care, including appropriate locations and facilities for different stages in the course of recovery and rehabilitation, and the strengths and weaknesses of each;
- Understand the cost-benefit relationship in the provision of physiatric care;

6. Evaluation of Communication Skills and Professionalism Students will be taught and evaluated in their ability to:

- Obtain a history from patients with a particular emphasis on functional limitations residual abilities and psychosocial status;
- Determine whether disability is present and make an appropriate referral for continued care and/or evaluation;
- Demonstrate communication techniques with patients, family members, other health care professionals, and/or representatives of third-party payers and managed care;
- Keep medical records with sufficient information to monitor a patient's functional progress and document need for care;

Attitudes - the graduate should exhibit behaviors consistent with:

- A patient-centered, rather than disease-oriented medical ethic;
- Concern for the social, cultural and economic implications of a patient's disorder;
- The willingness to seek long-term solutions for chronic problems;
- Empathy and compassion for patients with chronic illnesses and disabilities;
- Respect for and willingness to work in harmony with other members of the rehabilitation team;

7. Activity Schedule

- 8:00 AM – 11:00AM: participation in the in-patient and out-patient clinics.
- 11:00 AM – 12:00 AM: discussion and understanding of the main topics and issues related to patients, their health, environment and family.
- 2:00 PM – 5:00 PM – lectures or seminars.

8. Lectures and seminars:

- Basic principles of rehabilitation
- Assessment of functioning
- Basic mechanisms of interventions (including principles of adaptation, neuroplasticity, learning)
- Modalities and interventions (methods, effects, indications, contraindications);
- Team work in rehabilitation
- Rehabilitation programs for specific health conditions: Stroke, Spinal Cord Injuries, Amputees and Chronic Pain.

EMERGENCY SURGERY

EDIVALDO MASSAZO UTIYAMA (DEPARTMENT OF SURGERY)

This exchange program in surgical emergency is the training program regularly provided to 5th-year students of the University of São Paulo Medical School (FMUSP) as part of their clinical rotation at FMUSP's main teaching hospital (Hospital das Clínicas). Participation of International students will provide an opportunity for international interaction and cultural as well as technical expertise exchange.

1. Number of Students:

2 students from the last year of Medical School

2. Time-Period:

1-2 months

3. Location:

Surgical Emergency Room and Trauma Center of the Hospital das Clínicas da FMUSP.

4. Objectives

To obtain knowledge and basic medical and surgical skills on a broad range of common traumatic and nontraumatic surgical emergencies in a different cultural environment.

5. Endpoints

After completion of the training program the student is expected to have acquired:

Clinical Knowledge

- To recognize and interpret the main clinical findings of a patient with emergent surgical conditions;
- To perform adequate evaluation and preparation of patients for surgery;
- To recognize physiologic and metabolic changes in the acute surgical patients;
- To recognize the principal complications following surgery and their systemic repercussions;
- To learn the indications and how to interpret diagnostic tests for the different acute surgical diseases;
- To learn and practice the initial assessment of the trauma patient according to ATLS;
- To evaluate and treat hypovolemic shock, head and neck trauma, blunt and penetrating thoracic trauma, blunt and penetrating abdominal injuries;
- To evaluate and treat upper and lower gastrointestinal bleeding;
- To evaluate, diagnose, and treat patients with acute abdomen.

Clinical Skills

Students will be trained and will be expected to execute the following procedures under supervision:

- Central and peripheral venous Access;
- Urinary catheterization;
- Nasogastric and orogastric catheterization;
- Thoracocentesis and paracentesis;
- Tube thoracostomy in trauma;
- Basic suturing
- Clinical examination;
- Preoperative care of the emergency patient;
- Daily rounds;
- Clinical evaluation of the acute abdomen;
- Management of the traumatized patient.
- Basic point-of-care ultrasound evaluation at the emergency department

6. Evaluation of Communication Skills, Competency and Professionalism

Students will be taught and evaluated in their ability to:

- Demonstrate professionalism in their approach to legal, social, cultural and ethical concerns which influence patient care.
- Obtain adequate social history in patient evaluation.
- Demonstrate ability to efficiently, professionally, and effectively communicate with patients, families and colleagues.
- Communicate sensitively with patients and their families in a culturally appropriate manner.
- Demonstrate honesty and altruistic behavior by prioritizing the patient's well being above his or her own self-interest.
- Apply the rule of informed consent in health care delivery, and maintain patient confidentiality and privacy.

7. Activity Schedule

- Emergency and Trauma Grand Rounds every Wednesday at 08:00 AM;
- Daily ER rounds on patients in the Emergency Service at 08:00 AM;
- International Trauma Teleconference, every Friday (Pan-American Trauma Society Tele Grand-Rounds);
- Joining the surgical team and scrubbing in for emergency surgeries;
- Dissection of cadavers to familiarize the student with the main trauma surgical manouvers, every Thursday morning;
- Basic point-of-care ultrasound course for Trauma and Acute Care patients
- Participating in the Journal Club, a monthly evidence-based discussion about relevant surgical subjects in Emergency Surgery (English language).
- At the completion of the clerkship, the international student is invited to participate in an academic Grand-Round as a presenter. The student is encouraged to present his/her experience as an International Student at the University of Sao Paulo, exposing positive and negative impressions.

8. Summary of the Emergency Surgery Course Theoretical Contents

- Abdominal emergencies and acute abdominal pain.
- Abdominal trauma.
- Cervical trauma.
- Hemorrhagic Shock.
- Introduction to ATLS (Advanced Trauma Life Support).
- Lower intestinal bleeding.
- Principles aspects of the trauma patient.
- Thoracic trauma.
- Upper gastrointestinal bleeding.
- Basic point-of-care ultrasound course for Trauma and Acute Care patients

MEDICAL ONCOLOGY

PAULO HOFF (DEPARTMENT OF RADIOLOGY)

Introduction

The Instituto do Câncer do Estado de São Paulo (ICESP) is part of the Faculdade de Medicina da Universidade de São Paulo, the largest medical conglomerate in Latin America.

Established in 2008, ICESP is an academic, tertiary/quaternary facility dedicated to the management of patients with cancer, encompassing different steps of cancer care, including diagnosis, treatment, follow up and research.

Medical specialties organized in Multidisciplinary Management Teams include Pathology, Anesthesia/Pain Medicine, Palliative Care, Medical Oncology, Surgery, Radiation Oncology, Interventional Radiology, Radiology, Infectious Diseases, Neurosurgery, Neurology, Dermatology, Geriatric Medicine, Genetics etc.

ICESP Facts and Figures	
2016	
Number of beds (total)	414
Number of ICU beds	85
Number of visits/month	18.480
Number of ER visits/month	2395
Number of surgical procedures/month	629
Number of treatments delivered/month	4033

1. Number of students

Up to 4 students

2. Time-period

1 month

3. Location

Instituto do Câncer do Estado de São Paulo

4. Objectives

To provide the opportunity of experiencing the approach to patients with solid malignancies, emphasizing subtypes

more prevalent and epidemiologically relevant in Brazil.

To encourage students to develop their skills and clinical practice in multidisciplinary teams.

5. Endpoints

At the end of the Program students are expected to:

- Understand general principles of cancer care;
- Understand the importance of multidisciplinary management teams in cancer care;
- Recognize the importance of environment and social conditions as determinants of physical, mental and social health in cancer care;
- Understand aspects of the epidemiology of cancer in Brazil and general concepts related to the diversity of cancer globally;
- Understand general principles of the management of cancer subtypes most frequently diagnosed in Brazil;

6. Evaluation of Communication Skills and Professionalism

Students will be taught and evaluated in their ability to:

- Demonstrate professionalism in their approach to legal, social, cultural and ethical concerns which influence patient care;
- Understand the importance of the social history in patient evaluation and treatment;
- Demonstrate ability to efficiently, professionally, sensitively and effectively communicate with their colleagues as well as with patients and their families (when applicable) in a culturally appropriate manner;
- Demonstrate honesty, and altruistic behavior by prioritizing the patient's well being above his/her own self-interest;
- Maintain patient confidentiality and privacy.
- Sensitivity to legal, social, cultural and ethical concerns that influence patient care;

7. Activity Schedule

Students will develop their activities under direct supervision of designated tutors, following a dedicated agenda.

Monday

8:00 AM to 12:00 - Clinic

1:00PM to 5:00PM - Clinic

5:00PM to 6:00PM – Lecture/Seminar

Tuesday

8:00 AM to 12:00 - Clinic

1:00PM to 5:00PM – Inpatient Rounds

Wednesday

8:00 AM to 9:30 – Grand Rounds

9:30 AM to 11 – Multidisciplinary Management Teams

1:00PM to 5:00PM – Educational Clinic

5:00PM to 6:00PM – Lecture/Seminar

Thursday

8:00 AM to 12:00 - Clinic

1:00PM to 5:00PM – Clinic

5:00PM to 6:00PM – Lecture/Seminar

Friday

8:00 AM to 12:00 - Clinic

1:00PM to 5:00PM – Inpatient Rounds

Lectures and Seminars

1. Welcome and Introduction
2. Cancer Epidemiology in Brazil
3. Cancer Research in Brazil
4. Cervical Cancer - Epidemiology, Prevention and Screening
5. Cervical Cancer - Management
6. Breast Cancer – General Aspects
7. Head and Neck Cancer – General aspects
8. Lung Cancer – General Aspects
9. Esophageal, Gastric and Colorectal Cancer - General Aspects
10. Skin Cancer in Brazil
11. Cancer Syndromes
12. Principles of Palliative Care

NEUROSURGICAL EMERGENCIES

EBERVAL GADELHA & MANOEL JACOBSEN TEIXEIRA (DEPARTMENT OF NEUROLOGY)

Introduction

This exchange program in neurosurgical emergencies is the training program regularly provided to 5 - 6th-year students of the University of São Paulo Medical School (FMUSP) as part of their clinical rotation at FMUSP's main teaching hospital (Hospital das Clínicas). Participation of International students will provide an opportunity for international interaction and cultural as well as technical expertise exchange.

1. Number of Students - 2 students

2. Time Period : 1-2 months

3. Location:

Neurosurgical Emergency Room, Neurosurgical ward and Neurotrauma Center of the Hospital das Clínicas da FMUSP.

4. Objectives

To obtain knowledge and basic medical and surgical skills on a broad range of common traumatic and non-traumatic neurosurgical and neurological emergencies in a different sociocultural environment.

5. Endpoints

After completion of the training program, the student is expected to have acquired:

5.1. Clinical Knowledge

- To recognize and interpret the main clinical findings of a patient with neurological and neurosurgical emergent conditions;
- To perform adequate clinical evaluation and preparation of patients for neurosurgery;
- To recognize physiologic and metabolic changes in the acute neurological/neurosurgical patients;
- To recognize the principal complications following neurosurgery and their systemic repercussions;
- To learn the indications and how to interpret diagnostic tests for the different acute neurological/neurosurgical diseases;
- To learn and practice the initial assessment of the trauma patient according to ATLS;
- To evaluate, diagnose, and treat patients with central nervous system infections, ischemic and hemorrhagic stroke, brain tumors and patients with head and spinal cord injuries.

5.2. Clinical Skills

Students will be trained and will be expected to execute the following procedures under supervision:

Central and peripheral venous access;

Urinary catheterization;

Nasogastric and orogastric catheterization;

Orotracheal intubation;

Basic suturing;
Acute and chronic wound care;
Clinical and neurological examination;
Pre-operative care of the neurosurgical patient;
Daily rounds;
Post-operative care;
Basic surgical theater behavior;
Basic management of the injured patient.

6. Evaluation of Communication Skills, Competency and Professionalism

Students will be taught and evaluated in their ability to:

- Demonstrate professionalism in their approach to legal, social, cultural and ethical concerns which influence patient care;
- Obtain adequate social history in patient evaluation;
- Demonstrate ability to efficiently, professionally, and effectively communicate with patients, families and colleagues;
- Communicate sensitively with patients and their families in a culturally appropriate manner;
- Demonstrate honesty and altruistic behavior/
- Apply the rule of informed consent in health care delivery, and maintain patient confidentiality.

7. Activity Schedule

Emergency and neuro-emergency Grand Rounds every Friday at 08:00 AM;
Daily activities at Emergency room (ER) and OR;
Case Discussions in ER with the Chief Resident at 07:00 AM;
Neuro-anatomical Skills Lab;
ER duties with 12-hr shifts, divided with senior medical students, under the supervision of a senior resident;
Joining of the surgical team and scrubbing in for neurological surgeries;
Dissection of cadavers and practice of surgical approaches.

8. Summary of the Emergency Surgery Course Theoretical Contents

- Head injury;
- Spine and Spinal cord injuries;
- Traumatic vascular lesions;
- Intracranial pressure concepts and management;
- Evaluating the comatose patient;
- Subarachnoid hemorrhage and intracranial aneurysms;
- Stroke;
- Brain tumors;
- Intracranial infections.

CLINICAL INFECTIOUS DISEASES AND TROPICAL MEDICINE

ALUISIO SEGURADO (DEPARTMENT OF INFECTIOUS DISEASES)

Introduction

This training program is regularly provided to 5th-year students of the University of São Paulo Medical School (FMUSP) as part of their clinical rotation at FMUSP's main teaching hospital (Hospital das Clínicas). Participation of International students will provide an opportunity for international interaction and cultural and technical expertise exchange.

1. Number of Students: 2 students

2. Time-Period: 1 month

3. Location

The infectious diseases outpatient clinic, the HIV/AIDS clinic, and the infectious diseases ward of the Hospital das Clínicas da FMUSP.

4. Objectives

To provide the opportunity of experiencing clinical diagnosis and management of infectious diseases that are epidemiologically relevant in the Brazilian context.

This training shall address not only technical aspects and clinical practice in this specialized field, but also interdisciplinary approaches to healthcare (active and collaborative participation in the healthcare team), medical communication (to patients, families and colleagues) and ethics (informed consent for provision of care, confidentiality and protection of patients' privacy) with a culture-sensitive attitude.

5. Endpoints

After completion of the training program the student is expected to have acquired:

A) Clinical Skills

Clinical Knowledge on:

- Principles on management of patients with infectious diseases – universal precautions and isolation techniques.
- Diagnostic recognition of clinical syndromes, including:
 - ⇒ o febrile jaundice;
 - ⇒ o streptococcal and staphylococcal diseases;
 - ⇒ o acute and chronic infectious lung diseases;
 - ⇒ o acute and chronic febrile lymphadenopathy;
 - ⇒ o acute and chronic hepatosplenomegaly;
 - ⇒ o haemorrhagic fevers;
 - ⇒ o acute febrile illness with rash;
 - ⇒ o HIV infection, AIDS and other sexually-transmitted infections.

- Clinical use of antimicrobial drugs: antiviral, antibacterial, antifungal and antiparasitic drugs;
- Travel medicine and immunizations

He/She is also expected to have presented ability to perform some clinical procedures under supervision:

- clinical history with interest in epidemiological aspects;
- clinical examination;
- Collection of clinical specimens for microbiological tests – oral and wound swabs, blood and urine cultures, microbiological investigation of STIs, rapid immunological diagnostic tests, needle stick blood collection for diagnosis of malaria.

B) Communication Skills and Professional Conduct

- Sensitivity to legal, social, cultural and ethical concerns that influence patient care;
- Ability to efficiently, professionally, and effectively communicate with patients, families and members of the multiprofessional healthcare team;
- Cultural sensitivity when interacting with patients and their families;
- Understanding about the need of informed consent in health care delivery, and about the ethical responsibility of ensuring confidentiality and patients' privacy;
- Appropriate patient counseling before and after serodiagnosis of infectious diseases, including viral hepatitis and HIV infection.

6. Program Activity

The program consists mainly of practical activities that are carried out with patients at the infectious diseases outpatient clinic, the HIV/AIDS clinic and the infectious diseases ward of the Hospital das Clínicas. In addition, students are required to present seminars on topics related to management of infectious diseases, namely, the clinical use of antimicrobial drugs.

7. Evaluation of Communication Skills and Professionalism

Evaluation will consist in one written exam based on short clinical cases with questions on diagnosis and management. Additionally, students will be evaluated by the faculty on their daily clinical activities at the hospital.

1. ANESTHESIOLOGY

JOAQUIM VIEIRA (DEPARTMENT OF SURGERY)

ABOUT THE INTERNSHIP

Airway management, including intratracheal intubation; venous access and intraoperative volemic replacement; mechanical ventilation;

Perioperative monitoring; observe and practice (under ethical conditions) spinal anesthesia;

General overview of anesthetics.

ENDPOINTS

Describe & perform maneuvers that provide patent and secure airways; describe and perform venous access; mechanical ventilation; anesthesia monitoring; spinal anesthesia and Describe anesthetics actions.

Period: February to March or July

Duration: 4 weeks / 7 hours per day

Openings: 1

2. CARDIOLOGY—INTERDISCIPLINARY

BRUNO CARAMELLI (DEPARTMENT OF CARDIOPNEUMOLOGY)

ABOUT THE INTERNSHIP

Follow rounds visiting patients and discussion of clinical cases.

ENDPOINTS

To acquire the experience regarding cardiovascular diseases in patients hospitalized with non-cardiac Diseases in the General hospital (HCFMUSP). The functional and structural basis of the stage lies in the cardiology referral service in the General Hospital Complex and in the Outpatient Unit of the Interdisciplinary Medicine in Cardiology Unit at the Heart Institute (InCor).

Period: all year

Duration: 2 weeks / Every day, 8am to 5pm

Openings: 1

3. CARDIOLOGY

JOSÉ ANTONIO RAMIRES (DEPARTMENT OF CARDIOPNEUMOLOGY)

ABOUT THE INTERNSHIP

Carry out specific activities according to the field of choice: echocardiogram, MRI, tomography, nuclear medicine, Interventional Cardiology, Clinical Cardiology

ENDPOINTS

Correctly detect the presence or risk of a cardiovascular disease.

Period: all year

Duration: 12 weeks / full-time

Openings: 3

4. CARDIOPATHY

JOSE C. NICOLAU (DEPARTMENT OF CARDIOPNEUMOLOGY)

ABOUT THE INTERNSHIP

Follow cardiopathy patients and study its issues, like arrhythmias and post-infarction cardiogenic shock. Participate in clinical discussions, pharmacological treatment and coronary reperfusion methods. Participate in scientific papers discussions about coronary disease treatment.

ENDPOINTS

Develop the candidate's handling of coronary patients and its issues.

Period: all year, except January, February and December

Duration: 4 weeks / 8 hours per day

Openings: 2

5. GERIATRIC MEDICINE

WILSON JACOB FILHO (DEPARTMENT OF INTERNAL MEDICINE)

ABOUT THE INTERNSHIP

The international student will follow one of our residency fellows during his weekly activities.

ENDPOINTS

We hope that the international student can have a different approach to the elderly patient, paying more attention to items like polypharmacy, dementia, parkinson disease and multimorbidity.

Period: all year

Duration: 4 weeks / 40 hours each week

Openings: 1

6. OPHTHALMOLOGY

PEDRO CARRICONDO (DEPARTMENT OF OPHTHALMOLOGY)

ABOUT THE INTERNSHIP

Observational internship in ambulatory, surgery center and urgency and emergency environments. Possibility of supervised care, if the candidate knows the language.

Participation as a listener in scientific meetings.

ENDPOINTS

Ability to describe the eye's anatomy. Knowledge of the main causes of blindness. Knowledge of the main ophthalmic emergencies and how to handle them. Basic ophthalmic exam and treatment.

Period: March - November (except the first two weeks of September)

Duration: 4 weeks / 40 hours per week

Openings: 1

7. OTOLARYNGOLOGY

RICARDO FERREIRA BENTO (DEPARTMENT OF OTOLARYNGOLOGY)

ABOUT THE INTERNSHIP

Perform activities of infirmary, ambulatory, first aid and surgery.

ENDPOINTS

Improve the candidate's overview of diagnostic and treatment of the main disorders of the otolaryngology scope.

Period: all year

Duration: 4 weeks / 40 hours each week

Openings: 2

8. PEDIATRIC CARDIOLOGY (HEART FAILURE AND TRANSPLANTATION)

ESTELA AZEKA (DEPARTMENT OF PEDIATRICS)

ABOUT THE INTERNSHIP

The student will participate at rounds, outpatients clinics, ICU clinics, heart transplantation procedure in children and clinical research.

ENDPOINTS

Ability to identify children with heart failure, to have basic knowledge in pediatric heart transplantation; to know the semiology of the main congenital heart disease; to learn principle practice of clinical research in the field.

Period: from February to November

Duration: 4 months / 30 hours per week

Openings: 2

9. PEDIATRICS SURGERY

UENIS TANNURI (DEPARTMENT OF PEDIATRICS)

ABOUT THE INTERNSHIP

Participate in daily and bi-weekly multidisciplinary visits, infirmary activities, ambulatory and surgery center, and watch classes.

ENDPOINTS

Improve the candidate's knowledge about clinical history, clinical exam, problem identification, diagnostic investigation, care program, care quality and interpersonal relationship

Period: all year

Duration: 8 weeks / 8 hours per day

Openings: 2

10. PLASTIC SURGERY

DOV GOLDENBERG (DEPARTMENT OF SURGERY)

ABOUT THE INTERNSHIP

Participate in daily multidisciplinary visits, infirmary activities, ambulatory and surgery center, and watch classes

ENDPOINTS

Improve the candidate's knowledge about clinical history, clinical exam, problem identification, diagnostic investigation, care program, care quality and interpersonal relationship

Period: all year

Duration: 8 weeks / 8 hours per day

Openings: 6

11. PULMONARY HIPERTENSION

ROGERIO SOUZA (DEPARTMENT OF CARDIOPNEUMOLOGY)

ABOUT THE INTERNSHIP

Follow outpatient care with pulmonary hypertension patients. Participate in infirmary visits, scientific meetings and meetings to discuss the operability of pulmonary hypertension patients.

ENDPOINTS

Correctly diagnose patients with pulmonary hypertension, understand the treatment algorithm of pulmonary hypertension, and discuss the operability of pulmonary hypertension patients.

Period: July or August

Duration: 4 weeks / 4 hours per day

Openings: 3

12. PHYSICAL AND REHABILITATION MEDICINE

LINAMARA RIZZO BATTISTELLA (DEPARTMENT OF LEGAL MEDICINE)

ABOUT THE INTERNSHIP

Principles of Rehabilitation - Definition of functioning, as established by the International Classification of Functioning, Disability and Health - Epidemiology of functioning and disability - Principles of diagnosis and assessment - Principles of rehabilitation strategies.

ENDPOINTS

1. Understanding the fundamentals of functional assessment and the needs of persons with disabilities. 2. Realizing the psychosocial aspects of disability in different age groups. 3. Understanding the need for a multidisciplinary approach based upon functional outcomes and the continuum of care. 4. Getting to know the core knowledge about the diagnosis and treatment of disabling syndromes, diseases and injuries found in Medical practice. 5. Acknowledging the most important aspects of disabling health conditions and impairments. 6. Understanding the relevance of a transdisciplinary approach to the medical rehabilitation.

Period: all year

Duration: 8 weeks / 8 hours per day

Openings: 6

Internships

Disciplines from 5th and 6th year of Medicine Curriculum

5th Year

- Pediatrics I
- Gynecology and Obstetrics
- General and Abdominal Surgery
- Internal Medicine I
 - ⇒ Primary Care
 - ⇒ Ophthalmology and Otolaryngology
 - ⇒ Infectious Diseases
 - ⇒ Dermatology
 - ⇒ Psychiatry

6th Year

- Pediatrics II
- Internal Medicine II
- Surgery II