



Winter Schools

13-24 July 2015
University of São Paulo
Brazil

Information and
Course Outlines

PRESENTATION

We are honored to present you the first FMUSP Medical Winter School.

The program consists of 2 weeks with educational activities on five different topics: **Radiology and Oncology, Preventive Medicine, Infectious Diseases, Pathology and Cardiopneumology.**

Beside the educational program, there will also be visits in our Health Care System (Hospital das Clínicas Complex) and social gatherings organized by the Brazilian students for the participants to experience and enjoy the culture and fun of São Paulo!

To have an idea of what the program looks like, locate the information about 2015 Medical Winter School and Course Outline on the pages below.

The FMUSP Medical Winter School will provide you with a great opportunity to meet new people from all over the world and to share your interests and knowledge in Medical Areas. Come participate in this once-in-a-lifetime experience! **The deadline for application is April 15th, 2015.**

Please visit our [Facebook page](#) or our [website](#) for updates throughout the upcoming months. Feel free to contact us if you need any further information (crint@diretoria.fm.usp.br).

Kindest regards,



José Otavio Auler Jr.
Dean of the Faculty of Medicine



Aluisio Cotrim Segurado
President of International Relations Committee

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| Information | |
| Period | 13 July to 24 July 2015 |
| Location | Faculty of Medicine - University of São Paulo Hospital das Clínicas Complex |
| Fee | The courses will be free of charge for the selected students. The Faculty of Medicine will provide accommodation in a student housing (two students per room) and low-cost meals. The student should pay for his/her transportation to São Paulo. |
| Requirements/levels | a) to be an undergraduate medical student with a special interest in the courses offered b) to be a regularly enrolled student to an University officially covenanted to FMUSP c) to have completed training in basic biomedical sciences |
| Course language | English |
| Number of participants | 8 international students in each course (except for Pathology) |
| Certificate | after participating in the entire educational course |
| Deadline for applications | 15 April 2015 |
| Application Documents | Students will send their application by email to crint@diretoria.fm.usp.br no longer than 15 April 2015 (indicate in the subject [Winter School] and send all documents listed below in a compact file - .rar or .zip - named University'sname_Student'sname). List of documents: a) Student full transcripts issued by the home institution b) Support letter issued by the home institution c) Passport d) Digital Photo (passport standard, good quality) e) Fill out the application form The selected students will be invited provide a Health Insurance (self-funded, to be sent by email two weeks before the course start). |
| Selection criteria | In case we receive many inscriptions from the same University, FMUSP might request to the sending University classify their students. The FMUSP International Relations Committee will appraisal the candidacies in accordance with the following prerequisites: a) Student scholarly performance; b) Prizes and/ or distinguished academic activities at his/her home institution; c) Institution representativeness, and d) Other criteria still to be defined by the Program Coordinating Committee. |

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PRINCIPLES OF CANCER PREVENTION AND CANCER CONTROL PROGRAMMES

Department of Radiology and Oncology

GENERAL DESCRIPTION

This course aims to present and discuss the principles of cancer prevention and control. It focuses on concepts, methods, issues, and applications related to this field. Moreover, it will provide detailed information on screening methods and programmes applied in different settings for most common cancers (such as cervical cancer, breast cancer, colorectal cancer). Methodological, logistical and policy aspects of cancer control will also be addressed.

COURSE OBJECTIVES

The main aim of this course is to introduce the concepts of cancer prevention and control, while discussing the most successful prevention programmes, present and future strategies for cancer control. The aims will be reached by providing specialized information on different topics of cancer prevention and control, including:

- cancer epidemiology
- cancer prevention principles
- primary and secondary prevention
- control of site specific tumors
- cancer prevention in different settings/populations
- health policies
- research on cancer prevention
- strategies to disseminate knowledge and increase programmes coverage

TEACHING METHODS

The course aims to stimulate discussion of topics presented at formal lectures or e-learning. We expect students to present cases, bring examples and suggest innovative ways to address cancer prevention.

WHO SHOULD ATTEND?

This course is designed for Medical students who want to learn about cancer prevention.

Faculty:

Luisa Lina Villa, PhD, Dept of Radiology and Oncology, School of Medicine, USP

Roger Chammas, MD, PhD, Dept of Radiology and Oncology, School of Medicine, USP

José ElufNeto, MD, PhD, Dept of Preventive Medicine, School of Medicine, USP

Victor WunschFilho, MD, PhD, School of Public Health, USP

Other lecturers from the Department as well as from ICESP

Date:

July 13 -24 , 2015

Course Schedule

7 periods weekly (Mon-Fri mornings and twice a week in the afternoon)

Course material:

Printed and electronic notes, PUBLICATIONS IN SPECIALIZED JOURNALS

Prerequisites:

Basic knowledge on Cancer; Basic epidemiology;

DISEASE PREVENTION, HEALTH PROMOTION AND VULNERABILITY REDUCTION: HISTORICAL ASPECTS, CONCEPTUAL DISCUSSION AND INTERPROFESSIONALITY

Department of Preventive Medicine

GENERAL DESCRIPTION

According to WHO recommendations for the organization of health systems, a comprehensive care is a goal (and a challenge) for health professional practice all around the world.

Quality (and effectiveness) of health care delivery demands a multidimensional approach which includes health promotion, disease prevention and disease management.

At the same time, education system, mainly involving health professionals, should follow this discussion and must provoke the development of competences to assure this kind of care.

Brazil health system, called SUS, has been build on this principle and since 1988, the team workforce, mainly in primary care, is working to delivery this kind of care.

Recognizing the relevance of historical aspects and the complexity of the conceptualization of the health-disease process, this course would offer an opportunity to increase the reflection on current theories and practices involving comprehensive care.

COURSE OBJECTIVES

The goal of this course is to promote a conceptual discussion on the comprehensive care approach, describing and contrasting the frameworks of "DISEASE PREVENTION, HEALTH PROMOTION and VULNERABILITY REDUCTION";

To enhance participants' abilities in:

- understanding the historical (r)evolution of the above concepts as applied to health practices;
- analysing the roles of each health professional and the teamwork in the daily management of comprehensive care.

TEACHING METHODS

- Short Talks about concepts (disease prevention and Leavell and Clark's Three Levels of Prevention; Health promotion: Strategies and Strategies in the world and in Brazil, vulnerability reduction)
- Group discussions (sometimes using movies) - Site visits

WHO SHOULD ATTEND?

This course is designed for Medical students who want to learn about disease prevention, health promotion and vulnerability reduction.

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| Faculty: |
| Ana Claudia Germani, physician, MD and PhD, Dept of Preventive Medicine, School of Medicine, USP Andre Motta, historian, MD and PhD, Dept of Preventive Medicine, School of Medicine, USP Jose Ricardo Ayres, physician, MD and PhD, Dept of Preventive Medicine, School of Medicine, USP Guests of the Department of Preventive Medicine |
| Date: |
| July 13 -24 , 2015 |
| Course Schedule: |
| 7 periods weekly (Mon-Fri mornings and twice a week in the afternoon) |
| Course material: |
| Printed and electronic notes, papers, videos |
| Prerequisites: none |

NEGLECTED TROPICAL DISEASES: HEALTH CHALLENGES IN BRAZIL IN THE 21ST CENTURY

Department of Infectious Diseases

GENERAL DESCRIPTION

Neglected tropical diseases (NTD) constitute a diverse group of infectious diseases that affect mainly the poorest populations of the globe. Brazil and other Latin American countries still present a significant burden of disease caused by NTD. Knowledge about host-pathogen mechanisms and the recognition of social and environmental determinants of NTD is crucial for the clinical management of individual cases and for the development and implementation of efficient prevention and control measures. In this intensive course students will be exposed to clinical and public health aspects of NTD that are epidemiologically relevant in Brazil, such as dengue and chikungunya fevers, leprosy, Chagas' disease, leishmaniasis, schistosomiasis and soil-transmitted helminthic diseases. In addition, malaria, tuberculosis and poisonous animal bites will be discussed.

OBJECTIVES

To enhance participants' abilities in:

- understanding host-pathogen interactions in NTD and other important infectious diseases
- recognizing clinical features of these diseases
- understanding interventions that are recommended for their management, prevention and control

TEACHING METHODS

Students will participate in interactive sessions that will cover from bench to bedside and from bedside to field perspectives of NTD, consisting of background lectures, clinical rounds in inpatient wards and visits to outpatient clinics and research laboratories. Active learning methodologies will be applied throughout the course.

WHO SHOULD ATTEND?

Medical students with some pre-clinical knowledge interested in NTD and/or global health determinants and challenges.

Faculty: Professors of the Department of Infectious Diseases and Senior Clinicians at Hospital das Clínicas - Division of Infectious Diseases.

Date: July 13 -24 , 2015

Course Schedule:

7 periods weekly (Mon-Fri mornings and twice a week in the afternoon)

Course Material: Mandell, Douglas and Bennett's Principles and Practice of Infectious Diseases, edited by Gerald Mandell, John Bennet, Ralph Dolin, 7th edition, Churchill-Livingston, 2010. Additional material will be provided in class.

Prerequisites: Basic sciences

RADIO-PATHOLOGICAL INTERACTIONS IN THE AUTOPSY

ROOM: THE MODERN AUTOPSY

Department of Pathology

GENERAL DESCRIPTION

Autopsies have declined worldwide, and many medical students do not have the opportunity to attend a postmortem examination during their graduation. At the Department of Pathology a significant number of academical autopsies are performed yearly.

Recently, we have incorporated medical imaging to the autopsy room. Still in research setting, a CT scan and 7T MRI device were installed at the autopsy facilities. Check www.pisa.hc.fm.usp.br

This course will give medical students the opportunity to follow medical autopsies performed with modern imaging technologies and integrate clinical-radiologic-pathologic concepts.

COURSE OBJECTIVES

The objectives of the course are:

1. to present general pathology concepts via the study of autopsies;
2. to stimulate clinical-radio-pathologic interactions by the students.

TEACHING METHODS

Medical students will attend medical autopsies that are performed by the resident in pathology and a senior staff member.

They will also attend the virtual autopsy setting (PISA) where minimally invasive autopsies are performed by radiology team.

The students will follow multidisciplinary meetings weekly.

There will be theoretical lectures about the importance of autopsies, post mortem imaging.

Students will attend visits to our research facilities including the Brain Bank.

WHO SHOULD ATTEND?

Medical students with some pre-clinical knowledge.

Maximally 4 students.

Faculty:

Paulo Saldiva
Thais Mauad
Marisa Dolhnikoff
Edson Amaro
Fernando Kay
Felipe Nascimento
Carlos Pasqualucci

Date: July 13 -24 , 2015

Course Schedule:

7 periods weekly (Mon-Fri mornings and twice a week in the afternoon)

Course material: Robbins Pathology

Prerequisites: Basic Years of Medical School

Fluent English

Tetanus and B hepatitis vaccination

PRACTICAL ASPECTS OF MODERN CARDIOLOGY – A MULTIDISCIPLINARY CLINICAL AND TRANSLACIONAL APPROACH

Department of Cardiopneumology

GENERAL DESCRIPTION

The cardiovascular diseases are the main cause of adult deaths from a global and Brazilian perspective, in spite of important geographic differences, related mainly to the level of the country or region development. The main purpose of the present course is to develop, in a very interactive way, correlations between basic and advanced Cardiology, giving substrate for the student to understand the pathophysiology, diagnosis, prevention and therapeutic options (clinical and surgical) for most cardiovascular diseases. Emphasis will be given for disorders that are prevalent in both, developed and in-development countries.

The main topics to be covered will be: atherosclerosis and lipidology, acute and chronic ischemic heart disease, rheumatic fever and rheumatic heart disease, cardiomyopathies (including Chagas disease) and congenital heart defects.

COURSE OBJECTIVES

The main objective is to develop in the student the interest in the study of cardiovascular diseases and translational cardiovascular research, encouraging the improvement of reasoning derived from correlations among several different aspects of Cardiology and Cardiovascular Surgery.

TEACHING METHODS

The students will participate in the following interactive activities:

- Visit to basic research laboratories;
- Study of cardiac anatomy and pathology with specimens;
- Analyses of ECG tracings;
- Case-discussions of hospitalized and chronic outpatients
- Clinical and surgical-pathological correlation sessions;
- Visit to operating rooms acting as observers in selected surgical procedures
- Other types of interactive sessions, as the InCor Grand Round.

WHO SHOULD ATTEND?

Medical students from the 7th period and advanced.

Faculty:

Course Coordinators:

Prof. Dr. Fábio B. Jatene

Prof. Dr. Carlos Alberto Pastore

Prof. Dr. José Carlos Nicolau

Dr. Luiz Fernando Caneo

Prof. Dr. Paulo Sampaio Gutierrez

Prof. Dr. Raul Dias dos Santos Filho

Profa. Dra. Vera Demarchi Aiello

Date:

July 13 -24 , 2015

Course Schedule:

7 periods weekly (Mon-Fri mornings and twice a week in the afternoon)

Course material:

Bibliography will be available for the students during the course.

Prerequisites:

- Applicants are required to demonstrate sufficient ability to understand and express themselves in both spoken and written English.