UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Sciences

2324-2-I0303D010

Aims

The student will learn:

- to define the main diseases
- to classify clinic symptoms and signs
- to correctly use the terms related to oncology cardiovascular, odonto-stomatologic and pediatric diseases
- the main action mechanisms of antineoplastic drugs
- the tests, the correct diagnostic procedures and the guide lines for the treatment of the main cancers.
- the main clinical indications to the different imaging techniques
- to describe basic concepts related with diagnosis, treatment and outcome of pediatric diseases and hematological disorders involving children and adolescents.

Contents

The aim of the course is to provide students with basic knowledge of:

internal medicine and the main systemic diseases, oncology, pediatrics, pediatric hematology and odonto-stomatologic disease; it also aims to provide students with the main clinical indications to the different imaging techniques and legal aspects of odontology, with with the basics of the specific terminology of the different subjects, and let them know the diagnostic criteria of the main neoplastic diseases and treatment guidelines.

Detailed program

INTERNAL MEDICINE: General principles of Internal Medicine, the concept

of Health and Disease; etiology and pathogenesis, inflammation,

immunity, fever and pain, antibiotics, anti-inflammatories, cortisone and other main drugs.

CARDIOVASCULAR DISEASES: fundamentals of anatomy and physiology of cardiovascular hypertension; ischemic heart disease (angina pectoris and myocardial infarction), endocarditis and pericarditis, heart failure.

MEDICAL ONCOLOGY: Cancer terminology,

Staging, principles of pharmacology of antineoplastic agents; breast cancer; lung cancer; colorectal cancer; gastric and pancreatic cancer, prostate cancer.

ODONTOSTOMATOLOGIC DISEASES:

Clinical diagnostics and major systemic diseases;

the main clinical indications to the different imaging techniques;

oncological diseases and the oral oncology in particular;

systemic diseases with oral impairments;

elements of pediatric dentistry and pedodontics

PEDIATRICS

The physiology of newborn, toddler and child: concepts about growth, growth centiles, pubertal development, dentition, diet and prevention of tooth decay; obesity and rickets.

Pediatric rashes, vaccinations, respiratory disorders, endocrinological diseases and disorders involving the central nervous system

Pediatric leukemias and lymphomas, focus on diagnostic and therapeutical issues. The child with Down syndrome and other syndromic diseases

Non oncological blood disorders (hemoglobinopathies, thrombocytopenia, clotting disorders). Hematopoietic stem cell transplantation: who, what, how, when, why

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

Teachers will provide educational material.

Nelson, testbook of Pediatrics.

Semester

Second semester

Assessment method

Written exam followed by oral exam upon request of the teachers or the student.
The written test will consist of:
• 15 multiple choice questions on Internal Medicine
• 15 multiple choice questions on Cardiovascular Diseases
• 30 multiple choice questions on Medical Oncology
• 20 multiple choice questions on Dental Diseases
• 20 multiple choice questions on Pediatrics
The overall evaluation will be expressed in thirtieths.

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING