



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Scienze Cliniche

2627-2-I0301D010

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#### Aims

##### Knowledge and understanding

At the end of the course, the student will be able to know and understand the main systemic and cardiovascular diseases, the basics of Oncology, the main action mechanisms of antineoplastic drugs. The student will also learn basic concepts about diagnosis and treatment and outcome of the main pediatric and odontostomatological diseases.

##### Applying knowledge and understanding

The student will be able to define and classify clinic symptoms and signs of the main systemic and cardiovascular diseases. The student will also be able to describe the tests, the correct diagnostic procedures and the guide lines for the treatment of systemic, cardiovascular, neoplastic, pediatric and odontostomatological diseases.

##### Making judgements

At the end of the course the student will be able to integrate knowledge related to diagnosis, treatment and outcome of the main systemic, cardiovascular, neoplastic, pediatric and odontostomatological diseases.

##### Communication skills

The student will be able to correctly use the terms related to the main systemic, cardiovascular, neoplastic, pediatric and odontostomatological diseases.

##### Learning skills

The student will be able to independently deepen and update the acquired knowledge in the fields of Internal Medicine, Cardiovascular Diseases, Oncology, Pediatrics and Odontostomatological diseases.

#### 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, legal aspects of odontology. It also aims to provide students 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 DISEASE:** 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;

### 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

Teacher will provide educational material.

Nelson, textbook of Pediatrics.

## **Semester**

Second semester

## **Assessment method**

Written tests with mandatory final oral test.

Written test will be composed of:

? Multiple choice test to evaluate global knowledges about course program

## **Office hours**

By appointment required by mail

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

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