UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

General Pathology

2122-1-I0201D127-I0201D034M

Aims

The course aims to introduce the student to the knowledge of the causes of human diseases, understading pathogenetic and pathophysiological mechanisms relevant for their professional field.

Contents

Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and innate immunity. The immune response. Cell and tissue damage. Inflammation and tissue repair. Oncology.

Detailed program

- General Pathology. Etiology. Pathogenesis. Concept of homeostasis and disease. Onset and course of disease. Acute and chronic diseases. General etiology. Physiological and pathological predisposing factors.

- Causes of disease. Physical causes, chemical causes, biological causes: bacteria, viruses, protozoa, fungi, metazoans. Virulence. Pathogenicity. Transmission of infections. Spread of infectious agents. Pathogenic action.

- General properties of the immune system. Innate immunity and adaptive immunity. The cells of the immune system. The soluble mediators. Antigens. The immune response

- Acute and Chronic Inflammation. Phases of the inflammatory process. Chemical mediators. The cells of inflammation.

- Pathophysiology of thermoregulation. Generalities. Thermogenesis: basal metabolism, regulation of thermogenesis. Termodispersion. Alterations in body temperature. Not fever Hyperthermia. Fever Hyperthermia: pathogenesis, course, types of fever.

- Cellular homeostasis disorders. Atrophy, hypertrophy, metaplasia, dysplasia, cellular anaplasia. Cell injury and death. Oncology.

Prerequisites

None

Teaching form

Lectures.

Lessons will be in attendance, subject to any ministerial changes following the COVID pandemic situation.

Textbook and teaching resource

Resources distributed during the course by the teacher.

Semester

First year, I semester

Assessment method

Test with multiple choice (15 quiz) and an open ended question.

Exams will be in attendance, subject to any ministerial changes following the COVID pandemic situation.

Office hours

By appointment (email request)