UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

General Pathology

2021-2-I0202D126-I0202D041M

Aims

The course is intended to provide students with fundamental concepts on pathology 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

Ÿ 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.

Ÿ 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.

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

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

Ÿ 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.

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

Prerequisites

None

Teaching form

Lectures and e-learning.

During Covid-19 emergency period lessons will take place partly in the presence of the teacher and partly through either the release of asynchronous videotapes or synchronous WebEx events.

Textbook and teaching resource

Semester

Second year, II semester

Assessment method

Test with multiple choice.

During the Covid-19 emergency period, written exams will be conducted remotely with proctoring control, while oral exams will only be telematic.

Office hours

By appointment (email request)