UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

General Pathology

2223-2-H4601D005-H4601D018M

Aims

Preparation of expert odontologists by the acquisition of knowledge in etiopathogenesis of pathological processes, in particular related to odontopathology.

Contents

Knowledge of causes and general mechanisms of pathological processes (etipathogenesis). Appropriate technical/scientific terminology. Pathogenetic and physiopathologic knowledge to appropriately follow the successive clinical courses.

Detailed program

Etiology, pathogenesis. Acquired, congenital, inherited, acute and chronic degenerative diseases. Immunity, immune response, primary and secondary response. Vaccination. Immunopathology. Hypersensitivity. Ionizing radiation pathology. Burns. Acute and chronic inflammation. Fever, leukocytosis, acute phase proteins. Wound repair. Granulation and cicatricial tissue. Fibrosis. Amyloidosis. Cell death. Atherosclerosis. Hypertrophy. Hyperplasia. Hypotrophy. Organ failure. Compensation. Preneoplastic lesions. Benign and malign tumors. Carcinogenesis (chemical, physical and biological). Oncogenes and tumor suppressors, genes for DNA repair. Hereditary tumors. Angiogenesis and metastasis. Hormone and tumor. Tumor metabolism. Neoplastic cachexia. Coagulation, hemophilia, thrombosis, embolism, infarct. Thalassemia. Diabetes. Ageing.

Prerequisites

Knowledge concerning the previous preparatory courses.

Teaching form

Frontal lessons, exercitations.

Textbook and teaching resource

-Pontieri, Russo, Frati - Patologia Generale - V ed. - Piccin

-Robbins e Cotran - Le basi patologiche delle malattie - IX ed. - Elsevier;

-Majno e Joris - Cellule, tessuti e malattia - I principi della Patologia Generale Casa Editrice Ambrosiana;

-Abbas A.B., Lichtman A.H. Fondamenti di Immunologia. Funzioni e alterazioni del sistema immunitario. Piccin. Slides and pertinent bibliography.

Semester

Annual course, at the second year.

Assessment method

Written and oral examination.

The oral examination will be preceded by a written multiple-choice test, comprising 90 questions with only one correct answer (among 4), aimed at evaluating global comprehension of microbiology program. The text will be passed with 51 exact answers, the value of each exact answer is 0.35 point.

The oral examination consists in the discussion of the remaining part of the integrated course, aimed at verifying the student ability to make connections and provide details. The final score will be the weighted mean of the two tests.

Office hours

By appointment.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING