

SYLLABUS DEL CORSO

Farmacologia

2526-3-H4601D014-H4601D037M

Aims

At the end of the course the student should know:

General mechanisms of drug actions on organs and systems as well as at cellular, biochemical, and molecular levels - Routes of drug administration and drug fate in the organism, including drug transport, biotransformation, metabolic activation, distribution, elimination - General mechanisms of toxic effects and methods of prevention - Possible causes of drug undesired effects and drug-drug interactions - Pharmacological properties of the different groups of drugs commonly employed in dentistry, particularly their mechanisms of action and fate in the organism, and criteria for differentiation of molecules within same group, as a function of potential toxicity and physio-pathological characteristics of patients.

Contents

The teaching module provides the essential knowledge necessary to prescribe and administer the drugs currently used in dentistry, knowing in-depth the drug composition, mechanism of action, primary and secondary effects, and therapeutical indications.

Detailed program

Preclinical and clinical phases of drug development, pharmacovigilance - General and molecular pharmacology (molecular drug targets, receptors and transduction mechanisms, receptor tolerance, dose-response curves, efficacy and potency, therapeutic index) - Pharmacokinetics (administration methods, adsorption, distribution,

metabolism, elimination, therapeutic interval, pharmaco-metabolic tolerance) - Pharmacogenetics - Specific drugs for dentistry (local and general anesthetics, anxiolytics, non-steroidal and steroid anti-inflammatory drugs, opioid analgesics, antihistamines, drugs affecting blood coagulation and hemostasis, drugs affecting calcium homeostasis).

Prerequisites

Knowledge of all preparatory disciplines.

Teaching form

15 2-h frontal lessons

All lessons include an interactive part for questions and general discussion

Textbook and teaching resource

Matilde Amico Roxas "Farmacologia in odontoiatria", EDRA

Fang - Menhall "Guida pratica all'uso dei farmaci odontoiatrici per algoritmi", EDRA

Semester

First semester.

Assessment method

The exam is written (joint with Clinical Pharmacology and Chemotherapy). It will be carried out using the "esamionline" platform and consists of open questions and multiple choice quizzes on the topics covered in class.

Office hours

On appointment write to laura.rizzi@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY
