UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Farmacologia Clinica (MB-LC-SO) (blended)

2324-2-I0101D025-I0101D065M

Aims

The course aims to provide the student with knowledge relating to some of the most important human pathologies and the principles for their treatment with pharmacological approaches. The training course is aimed at providing the student with an integrated view of the main classes of drugs, their expected effects and the undesirable effects that can be expected.

Contents

The course will focus on the main classes of drugs that the student will likely himself administer during the internship and later in his professional life. Particular emphasis will be given to the most common prescription drugs, including antibiotics and NSAIDs, but drugs active on the central nervous system and cardiovascular system will also be briefly treated. For each class of drugs, the adverse effects that the nurse must be able to recognize and report will be highlighted.

Detailed program

General principles and major classes of chemotherapy drugs: antibacterial chemotherapy; inhibitors of cell wall synthesis; protein synthesis inhibitors; folic acid antagonists; inhibitors of nucleic acid synthesis. Chemotherapy, antiviral, antifungal, anti-malarial and anti-tuberculosis. Peripheral nervous system: mediators and their receptors; local anesthetics; curare; anti-inflammatory drugs and analgesics; NSAIDs; central and peripheral analgesic (pain relief, and opioid antagonists); drugs acting on the central nervous system; anxiolytics and hypnotics; neuroleptic antipsychotics; antidepressants; antiepileptics; antiparkinson; general anesthetics; drugs acting on the respiratory system; bronchodilators, antitussive + anti-asthma. Drugs acting on the gastrointestinal system: antacids and anti-ulcer; prokinetics, laxatives, anti-diarrheal; antiemetic and prokinetic; drugs acting on the neuroendocrine system;

cortisone; insulin, oral hypoglycemic agents; thyroid; progestogens and testosterone; drugs acting on the cardiovascular system; antihypertensive drugs (central and peripheral, diuretics, ACE inhibitors and ARBs, vasodilators); antianginal drugs (nitrates, calcium channel blockers); antiarrhythmic drugs; drugs for heart failure (digitalis, diuretics); drugs acting on clotting (anticoagulants, thrombolytics, antiplatelet agents, hemostatic); statins; anti-rejection and urgency drugs; anti-rejection drugs; haematological medicines.

Prerequisites

Knowledge acquired during all preparatory courses indicated in the medical degree course plan

Teaching form

Lessons will be provided in attendance.

Textbook and teaching resource

Amico-Roxas M., Caputi A.P., Del Tacca M. (2021) Compendio di farmacologia generale e speciale. Torino, UTET Scienze mediche

Semester

2nd Year, 1st Semester

Assessment method

Written examination composed of multiple choice questions and open questions.
In the exam of Clinical Nursing Methodology 2 it is necessary to achieve the sufficiency in all 4 disciplines that compose it: Clinical Pharmacology, General Surgery, Nursing in Surgery, Community Nursing

Office hours

by appointment agreed by email

Sustainable Development Goals

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