UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pharmacology

2122-5-H4102D043-H4102D144M

Aims

Main aim of the course is to provide students with gastrointestinal pharmacology. The course will present and describe available pharmacological strategies for the treatment of gastric pathologies (gastric acidity, ulcers, esophageal reflux), gastrointestinal motility, emesis, hepatic and pancreatic diseases, gut inflammation. Mechanism of action, therapeutic properties, drug interactions, and side effects will be presented.

Contents

Main classes of drugs, mechanisms of action, drug interactions and precautions.

Detailed program

Drugs for the treatment of gastric acidity, peptic ulcer, esophageal reflux.

Drugs for the control of gastrointestinal motility: prokinetics and treatment of stypsis and diarrhea.

Drugs for the treatment and prevention (vaccines) of hepatic and pancreatic diseases.

Anticancer drugs for the treatment of gastrointestinal neoplasia.

Work in groups: Innovative vaccines/anticancer drugs.

Prerequisites

Propaedeutic skills

Teaching form

Frontal lectures

In the event of pandemic emergency period, the lectures will be held remotely by synchronous online videoconference

Asynchronous: videolectures and slides

All course activities will be held in English language

Textbook and teaching resource

Bertram G. Katzung “Basic and clinical pharmacology” 14th Edition. LANGE

Goodman & Gilman “The Pharmacological Basis of Therapeutics” 13th Edition, Laurence L. Brunton, Randa Hilal-Dandan, Björn C. Knollmann. McGraw-Hill Education

Rang & Dale “Pharmacology” 14th Edition, Elsevier.

Semester

Second

Assessment method

Multiple choice test

Oral examination on the topics covered during the lectures, discussion on clinical problem solving and clinical case analysis

All assessments will be done in English language

In the event of pandemic emergency period, only telematic exams will be available. They will be carried out using the WebEx platform and on the e-learning page there will be displayed a public link where possible virtual spectators may get access and assist to the examination.

Office hours

On appointment