UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pharmacology

2627-5-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.
In details, the course contributes to the following objectives:

1. Knowledge and understanding:
   Knowledge of the key elements of pharmacology, with attention to sex/gender and population differences.
2. Applied knowledge and understanding:
   Ability to apply acquired knowledge.
3. Independent judgment:
   Demonstrate a critical approach, constructive skepticism, and a creative, research-oriented attitude. Build awareness of the importance and limitations of scientific thinking based on information obtained from various resources.
4. Learning skills:
   Collect, organize, and critically interpret new scientific knowledge and health/biomedical information from various resources and databases.

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.

Prerequisites

Fundamental knowledge on cell biology and general pharmacology

Teaching form

5 2-h frontal lessons.

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 Semester

Assessment method

As for the vertical track (multiple choice test and oral examination on the topics covered during the lecture)

Office hours

On appointment (write to: laura.musazzi@unimib.it)

Sustainable Development Goals

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