

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Pharmacology

2324-4-H4102D029-H4102D108M

Aims

Main aim of the course is to provide students with the pharmacology of major endocrine- and nephro-pathologies. A general description of main hormones and drugs modulating hypothalamic and pituitary activity, thyroid, adrenal glands and gonadal function, affecting bone mineral homeostasis, together with information on drugs acting at the lower urinary tract will be given. Mechanism of action, therapeutic properties, drug interactions, and side effects will also be presented.

Contents

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

Detailed program

Hypothalamic and pituitary hormones (somatotropin and growth hormone antagonists, gonadotropin, gonadotropin releasing hormone analogs and antagonists, prolactin, oxytocin and oxytocin antagonists, vasopressin and vasopressin antagonists.

Thyroid and antithyroid drugs (thyroid hormones and antithyroid agents, management of hypothyroidism and hyperthyroidism).

Adrenocorticosteroids and adrenocortical antagonists (hydrocortisone and synthetic corticosteroids, mineralocorticoids, adrenal androgens, antagonists of glucocorticoids and mineralocorticoids).

Gonadal drugs (estrogens, progestins and other ovarian hormones, hormonal contraception, estrogen and

progesterone inhibitors and antagonists, androgens and anabolic steroids, androgen suppression and antiandrogens).

Agents that affect bone mineral homeostasis (parathyroid hormone, vitamin D, FGF23, calcitonin, glucocorticoids, estrogens, bisphosphonates, denosumab, calcimimetics, fluoride, therapy of hypercalcemia and hypophosphatemia).

Drugs for diseases of the lower urinary tract.

Prerequisites

Propaedeutic skills

Teaching form

Frontal lectures

Lessons in attendance.
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 Semester

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 ir	n English	language
Oral examination	n in att	endance	Α.	

Office hours

On appointment

Sustainable Development Goals

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