



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Pharmacology

2021-4-H4102D024-H4102D081M

Aims

This course will provide the basic knowledge about the effects of various drugs on heart and circulation and will_____

Contents

- Main classes of cardiovascular and respiratory drugs with their mechanisms of action, drug interactions and precautions

Detailed program

- General overview of pharmacologic therapy for cardiovascular diseases
- Anti-ischemic and antianginal therapies
- Anti-hypertensive therapies (Beta-blocking agents, Calcium channel blockers, Inhibitors of Renin-Angiotensin-Aldosterone System, Diuretics)
- Anti-arrhythmic drugs
- Antithrombotic agents (acute and chronic anticoagulation, fibrinolytics) - brief overview, as already discussed in the Onco-Hematological diseases

- Antiplatelet agents - brief overview, as already discussed in the Onco-Hematological diseases
- Treatment of acute and chronic heart failure
- _____
- Lipid-modifying therapies (statins, fibrates, ezetimibe) - brief overview, as already discussed in the Onco-Hematological diseases
- _____
- Non-cardiac drugs affecting the heart
- Treatment of asthma and chronic obstructive pulmonary disease

Prerequisites

- Fundamental knowledge on cell biology
- English language

Teaching form

- During COVID-19 emergency period, the lectures (including theoretical concepts and clinical examples) will be held remotely by asynchronous online videoconference (recorded video lectures available on demand)
- All course activities will be held in English language

Textbook and teaching resource

- Kaski JC, Kjeldsen KP. The ESC Handbook on Cardiovascular Pharmacotherapy (2 edn). Oxford University Press 2019
- Brunton L, Hilal-Dandan R, Knollmann BC. Goodman and Gilman's the Pharmacological Basis of Therapeutics (13th Edition) McGraw Hill 2018
- Opie LH, Gersh B. Drugs for the Heart - 8 edition. Saunders 2012

Semester

- First semester

Assessment method

- Written exam in English, comprising 30 multiple-choice questions with only one correct answer (among 5) aimed at evaluating global comprehension of course program. Each correct answer is scored 1.

Office hours

By email appointment at: antonio.torsello@unimib.it
