

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Cardiology

2021-4-H4102D024-H4102D084M

Aims

The course will provide the essential and up-to-date theoretical knowledge of the clinical diagnosis and management of a wide spectrum of cardiovascular diseases. The course presents the field of cardiology in a concise and practical manner, addressing the learning needs of medical students. The acquired knowledge will contribute to a better understanding of the causes, diagnosis and treatment options of cardiac pathologies. Gender differences in epidemiology, clinical presentation and prognosis will be also addressed.

Contents

Cardiac arrhythmias and conduction disturbances; arterial hypertension and other cardiovascular risk factors; aorta and peripheral vascular disease; valvular heart disease; acute and chronic ischemic heart disease; diseases of myocardium, pericardium and pulmonary circulation; heart failure with reduced and preserved ejection fraction; interventional cardiology; adaptation of cardiovascular system to physiologic conditions

Detailed program

- · Arrhythmias (tachyarrhythmias I/ bradiarrhythmias II)
- Syncope
- Hypertension

- · Dyslipidemias
- · Metabolic syndrome and diabetes
- · Aorta, cerebrovascular and peripheral vascular disease (I/II)
- · Valvular heart disease (I/II)
- · Infective endocarditis
- · Myocarditis
- · Coronary artery disease
- · Acute coronary syndromes (I/II)
- · Interventional cardiology
- · Heritable channelopathies and cardiomyopathies
- · Cardiomyopathies (I/II)
- · Heart failure (I/II)
- · Risk stratification and cardiac rehabilitation
- · Pericardial diseases
- · Pulmonary embolism
- · Pulmonary hypertension
- · Right ventricular failure and cor pulmonale
- · Adult congenital heart diseases
- · Cardiac tumors
- · Sleep disorders and heart disease
- · Adaptation of cardiovascular system to various physiologic conditions (aging, exercise, pregnancy, high altitude)

Prerequisites

- Basic cardiovascular pathology and diagnostics, fundamentals of human genetics, physiology and pharmacology of cardiovascular system
- English language

Teaching form

- All course activities will be held in English language
Textbook and teaching resource
- Lilly LS. Pathophysiology of Heart Disease. 6th Edition. 2016 Wolter Kluwer
- Harrison's Principles pf Internal Medicine 20 th Edition 2018, McGraw-Hill
- Hurst's The Heart 14 th Edition 2017, McGraw-Hill
Semester
- First semester
Assessment method
(1) Written exam with multiple choice quiz comprising 30 questions with only one correct answer (among 5) aimed

at evaluating global comprehension of course program. Each correct answer is scored 1. A minimum score of 18 is

During the Covid-19 emergency only telematic oral exams will be available. They will be carried out using the

WebEx platform. For access to the events, the links will be published in the e-learning page of the subject

(2) **Oral examination** (discussion on topics covered during the lectures or clinical case analysis)

required for being admitted to oral examination

All assessments will be done in English language

By email appointment at luigi.badano@unimib.it

Office hours