



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Malattie dell'Apparato Cardiovascolare

2425-3-H4601D013-H4601D035M

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#### Aims

The main objective of the course is to provide basic knowledge on the diagnosis, prevention and treatment of major cardiological diseases.

#### Contents

The module includes the following contents:

Cardiovascular risk; arterial hypertension; ischaemic heart disease; heart failure; cardiomyopathies; major arrhythmias and basic electrocardiography; cardiological causes of syncope; valvular diseases; congenital heart disease; bacterial endocarditis and rheumatic carditis; pericarditis; cardiovascular effects of obstructive sleep apnoea; antiplatelet and anticoagulant therapies in the cardiology patient.

#### Detailed program

Cardiovascular risk: modifiable and non-modifiable risk factors; importance of risk assessment with the practical use of risk charts; pharmacological and non-pharmacological interventions to reduce cardiovascular risk

Arterial hypertension: definition, clinical relevance, diagnosis, therapy

Ischaemic heart disease: pathophysiology, clinic, diagnostic approach, therapy

Heart failure: pathophysiology, clinic, diagnostic approach, therapy

Cardiomyopathies: classification, clinical relevance, diagnostic approach

Main arrhythmias: interpretation of the electrocardiogram; hyperkinetic and hypokinetic arrhythmias

Cardiological causes of syncope: clinical evaluation of a patient with syncope; main cardiological causes; management in the acute phase

Valvular diseases: aetiology, pathophysiology, diagnostic and therapeutic approach to heart valve disorders

Congenital heart disease: classification and implications for antibacterial prophylaxis  
Bacterial endocarditis and rheumatic carditis: pathophysiology, clinical manifestations, prophylaxis  
Pericarditis: classification, clinical, diagnostic and therapeutic approach  
Cardiovascular effects of obstructive sleep apnoea: definition and pathophysiology, cardiological consequences, therapy, relevant aspects in dentistry  
Antiplatelet and anticoagulant therapies in the cardiological patient: types of drugs, cardiological indications, management in a patient undergoing dental procedures

## **Prerequisites**

See course prerequisites.

## **Teaching form**

Approximately 80% of the hours will be dedicated to instructional teaching activities (DE), carried out in the form of face-to-face teaching (lectures).

Approximately 20% of the teaching hours will be in the form of interactive teaching (DI), carried out in particular as collegial discussion of case studies focusing on the topics addressed in DE.

Up to 25% of the teaching hours will be conducted remotely in synchronous mode.

The course language is Italian

## **Textbook and teaching resource**

Harrison – Principles of Internal Medicine.

Slides and reference articles (upon request) provided by the instructors to the students

## **Semester**

See general course syllabus

## **Assessment method**

Single written exam for the 3 modules with 75 multiple-choice questions (both closed and open) and oral exam.

The exam is intended to test the knowledge and skills acquired in the various modules that make up the course and the student's ability to maturely process the concepts.

The final evaluation will take into account the results obtained in the different tests.

No interim tests are planned.

The exam coordinator is Professor Bilo (grzegorz.bilo1@unimib.it)

## **Office hours**

By appointment with email to the teacher (grzegorz.bilo1@unimib.it)

## **Sustainable Development Goals**

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

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