



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Cardiocirculatory Apparatus

2324-2-I0201D138-I0201D213M

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#### Aims

To know how to recognize the clinical symptomatology of cardiovascular diseases as well the basic principle of their diagnosis and therapies.

#### Contents

Pathophysiology and Clinical features of the following cardiovascular diseases:

- Chronic heart failure.
- Chronic Coronary Syndrome.
- Essential and secondary arterial hypertension.
- Atrial fibrillation.
- Dyslipidemia.
- Valvulopathy.
- Basic concept of electrocardiography and echocardiography.

#### Detailed program

- Chronic heart failure: pathophysiology, epidemiological mechanisms, types of decompensation (systolic and / or diastolic dysfunction). Diagnostic criteria of heart failure. Role of rehabilitation.
- Chronic coronary syndromes: clinical presentation of acute myocardial infarction and chronic coronary syndromes. Clinical and instrumental diagnosis. Complications of myocardial infarction. Secondary prevention of coronary events. Coronary revascularization
- Atrial fibrillation: diagnosis. Risk factors and causes, epidemiology. Clinical manifestations. Clinical and

laboratory diagnostic criteria.

- Arterial Hypertension: definition, diagnosis, epidemiology. Secondary causes of hypertension. Cardiovascular complications of hypertension. Prevention of hypertension. Role of lifestyle.
- Dislipidemia: definition, diagnosis, epidemiology. Target and therapies.
- Valvulopathy: aortic stenosis. Aortic regurgitation. Mitralic stenosis. Mitralic regurgitation.
- EKG: basic interpretation of normal and pathological one.
- Echocardiography: kinesis and segmentation of left ventricle. Valvulopathy.

## **Prerequisites**

Basic skills of cardiovascular physiopathology, cardiovascular pathology and cardiovascular semeiotics.

## **Teaching form**

Lessons in attendance.

## **Textbook and teaching resource**

International guidelines concerning major cardiovascular diseases.

## **Semester**

second semester (March 2023).

## **Assessment method**

Exam in attendance.

## **Office hours**

To be agreed with students, by e-mail contact.

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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