UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

# Cardiovascular Diseases A

**2021-3-H4101D257-H4101D043M**

## Aims

Patient's history taking, with focus on cardiovascular and respiratory problems, Diagnostic assessment with critical data interpretation, Physical examination, Main clinical signs and symptoms. Knowledge of normal ranges of the main diagnostic tests for the cardiovascular and respiratory systems.

## Contents

Collection and interpretation of patients' medical history, main signs and symptoms of cardiovascular and respiratory diseases. To provide the tools for the correct use of biochemical tests, and the definition of their indications and interpretation. Information on how to perform correctly a physical examination with particular regards to venous and arterial vessels, as well as to cardiovascular and respiratory systems.

## Detailed program

**CARDIOLOGY A**

**Etio-pathological interpretation of the following symptoms and signs:**

- dyspnoea, cough, haemoptysis, cyanosis, oedema, vertigo, vomit, diarrhoea

- Pathophysiology of fever

- Pathophysiology and semeiotics of loss of consciousness

**Rationale for the correct prescription of instrumental tests**

**Measurement of blood pressure**

- Measurement techniques.

**Epidemiology, cardiovascular risk factors and prevention.**

**Physical examination of the Heart and Circulation**

**Valvular Heart Disease**

- Congenital and acquired valvular heart diseases
- Physiopathological mechanisms
- Signs and symptoms of the disease and its evolution
- Follow-up and interpretation of diagnostic tests

**Heart Rhythm Disorders**

- Hypokinetic arrhythmias

- Hyperkinetic arrhythmias

- Genesis of cardiac arrhythmias

- Indications for cardiac pacemakers and cardioverter-defibrillators

**Heart Failure**

- Pathophysiological mechanisms and aetiology of heart failure

- Symptoms and signs: from development to disease progression

- Acute Pulmonary edema

- NYHA Classification

- Planning and interpretation of laboratory and instrumental examinations

- Management of Patients with acute and chronic heart failure

**Syncope and hypotension**

- Pathophysiological mechanisms and diagnosis of the various forms of syncope

- Clinical management and follow-up

**Shock**

- Physiology and etio-pathogenesis of the various forms of shock

- Clinical presentation and management

## Prerequisites

Propaedeutic skills

## Teaching form

Lectures and exercises.

In the Covid-19 emergency period, lessons will be held remotely asynchronously with synchronous videoconferencing events

## Textbook and teaching resource

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| Harrison's: "Principles of Internal Medicine" Ed. McGraw Hill<br><br>For further insight |

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| HURST- The Heart 12th Ed. McGraw Hill<br><br>Dioguardi – Sanna: Moderni aspetti di semeiotica medica - Segni sintomi e malattie Ed.Seu<br><br>Sabiston: “Textbook of surgery” Ed. Saunders<br><br>Zanussi: “Il metodo in medicina clinica” Ed. Mattioli<br><br>McPherson RA, Pincus MR Henry's Clinical Diagnosis and Management by Laboratory Methods, 23a English edition. Ed. Elsevier, 2016<br><br>Federici G. Medicina di laboratorio ed McGraw-Hill. IV ed., 2014<br><br>Marshall W, Lapsley M., Day A Clinical chemistry ed Mosby. 8a ed. Ed. Elsevier, 2016 |
| Patient’s history taking, with focus on cardiovascular and respiratory problems, Diagnostic assessment with critical data interpretation, Physical examination, Main clinical signs and symptoms. Knowledge of normal ranges of the main diagnostic tests for the cardiovascular and respiratory systems. |

## Semester

First Semester

## Assessment method

Written and oral test. Multiple choice test comprising 30 questions with only one correct answer (among 5) aimed at evaluating global comprehension of course program. Each correct answer is scored 1.

In consideration of the COVID emergency period, the exams will be oral online. They will be carried out using the WebEx platform.

## Office hours

by appointment by mail