



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Cardiocirculatory Apparatus

2627-2-I0201D138-I0201D213M

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.
- Acute and Chronic Coronary Syndrome.
- Essential and secondary arterial hypertension.
- Atrial fibrillation.
- Dyslipidemia.
- Valvulopathy.
- Basic concept of electrocardiography and echocardiography.
- Gender differences in cardiovascular diseases.

Detailed program

- Chronic heart failure: pathophysiology, epidemiological mechanisms, types of decompensation (systolic and / or diastolic dysfunction). Diagnostic criteria of heart failure. Role of rehabilitation.
- Acute and 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.
- Dyslipidemia: definition, diagnosis, epidemiology. Target and therapies.
- Valvulopathy: aortic stenosis. Aortic regurgitation. Mitral stenosis. Mitral regurgitation.
- EKG: basic interpretation of normal and pathological one.
- Echocardiography: kinesis and segmentation of left ventricle. Valvulopathy.
- Gender differences in cardiovascular diseases: to analyze and evaluate with a medical and scientific approach and in a gender based view with the aim to improve not only the knowledge on aspects determining gender differences but also the appropriateness of medical intervention in order to give higher attention on anamnestic, instrumental and laboratory data in relationship to patients' gender.

Prerequisites

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

Teaching form

8 hours of didactic teaching in attendance.

Textbook and teaching resource

International guidelines concerning major cardiovascular diseases.

Semester

Second semester.

Assessment method

The exam consists of two parts:

- Multiple-choice quizzes. 7 quizzes for each module, 49 quizzes in total. Only one correct answer. 1 point for each correct answer. 0 points for each incorrect answer.
 - One open-ended question on Cardiac/Respiratory Physiotherapy.
- Exam duration: 80 minutes

Office hours

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

Sustainable Development Goals

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