UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

## Cardiovascular Surgery

**2021-3-H4101D257-H4101D046M**

### Aims

Taking the Patient's history, concerning cardiovascular problems, diagnostic assessment with critical data interpretation, physical examination, main clinical signs and symptoms.

### Contents

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

### Detailed program

- Atherosclerosis and vulnerable plaque: plaque rupture, embolization and thrombosis.
- Vascular physical examination. Arterial pulses.
- Carotid atherosclerosis, pathophysiology of the cerebro-afferent pathology, quantification of the degree of stenosis, evaluation of carotid plaque morphology, definition of symptomatic carotid stenosis.
- Subclavian steal syndrome. Arterial and venous thoracic outlet syndrome (TOS).
- Chronic obliterative arteriopathy of the lower limbs. Leriche syndrome. Arterial ulcers.

- Organ hypoperfusion. Hypoxia, ischemia, necrosis. Acute ischemia of the upper and lower limbs. Compartment syndromes. Ischemia-reperfusion injury.

- Aortic aneurysmal disease. ?Aneurysms caused by connective tissue abnormalities. Rupture of aortic aneurysms.

- Post-catheterization pseudoaneurysm. Traumatic pseudoaneurysms and isthmic aortic rupture.

- Acute aortic syndromes. Aortic dissection, Stanford classification, organ complications. Aortic penetrating ulcer (PAU). Intramural hematoma (IMH).

- Venous thromboembolic disease: deep venous thrombosis and superficial thrombophlebitis. Venous ulcers.

- Chronic venous ddisease and insufficiency. CEAP Classification.

- Differential diagnosis of pain, edema and inflammation in lower limbs.

## Prerequisites

Propaedeutic skills.

## Teaching form

During the Covid-19 emergency period, lessons will be held asynchronously.

## Textbook and teaching resource

Harrison's: "Principles of Internal Medicine" Ed. McGraw Hill

Sabiston: "Textbook of surgery" Ed. Saunders

## 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 consist of an oral evaluation, using the WebEx

platform.

## Office hours

By email appointment with professor