UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Cardiovascular Diseases B

2021-3-H4101D257-H4101D044M

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 B

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

Textbook and teaching resource

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

For further insight

HURST- The Heart 12th Ed. McGraw Hill

Dioguardi – Sanna: Moderni aspetti di semeiotica medica - Segni sintomi e malattie Ed.Seu

Sabiston: "Textbook of surgery" Ed. Saunders

Zanussi: “Il metodo in medicina clinica” Ed. Mattioli

McPherson RA, Pincus MR Henry's Clinical Diagnosis and Management by Laboratory Methods, 23a English edition. Ed. Elsevier, 2016

Federici G. Medicina di laboratorio ed McGraw-Hill. IV ed., 2014

Marshall W, Lapsley M., Day A Clinical chemistry ed Mosby. 8a ed. Ed. Elsevier, 2016

Semester

1st 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

On appointment