UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Methodology A

2021-3-H4101D257-H4101D039M

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

CLINICAL METHODOLOGY A

The medical history

- Techniques of history taking
- Evaluation of patient’s clinical data and files
- How to interview a patient
- Doctor-Patient interaction, physician’s attitude and behaviour
- The role of the family history
- Physiological and pathological history

General physical examination

- Head and neck
- Chest
- Abdomen

Diagnostic tests in Cardiology

- Electrocardiography (EKG), 24 hours EKG Holter recording
- Echocardiography
- Exercise Stress Testing
- Cardiac nuclear imaging
- Computed Tomography and Magnetic Resonance of the Heart
- Coronary Angiography

Systemic Hypertension (primitive and secondary forms):

- Clinical management
- Interpretation of diagnostic tests
- Therapy

Chest Pain

- Approach to the patient with chest pain, differential diagnosis and diagnostic tests

Congenital Heart Diseases

- Physiological and hemodynamic aspects of structural changes in the muscle and heart valves

Semeiotics of pain

- Somatic pain and visceral pain

- Chest, abdominal, radicular pain and headache

Pericardial, endocardial and myocardial diseases

- Pathophysiological mechanisms of pericarditis, endocarditis and myocarditis

- Signs and symptoms of the disease, its evolution and worsening

- Clinical management based on current international guidelines

- Follow-up and interpretation of instrumental and laboratory examinations

Ischemic heart disease

- Stable and unstable angina

- Myocardial infarction

- Pathogenetic mechanisms

Signs and symptoms of the disease, its evolution and aggravation

- Acute and chronic patient management

- Planning and interpretation of instrumental and laboratory examinations

Pulmonary embolism

- Pathophysiology

- Main etiological factors

- Clinical presentation

- Diagnostic process and follow-up

Pulmonary hypertension

- Pathophysiology

- Main etiological factors

- Clinical presentation

- Diagnostic process and follow-up

Prerequisites

Propaedeutic skills

Teaching form

Lectures and exercises.

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

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