UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Internship in Cardiology A

2526-3-H4102D071

Aims

- Learning how to collect a cardiological clinical history and perform a cardiological physical examination

- Discuss the indications and assist in the performance of the main non-invasive cardiological diagnostic tests

- Experience the workflow and discuss the therapeutic and management decisions with the cardiologist in charge of the inpatients admitted to the cardiology ward

-Understand how a rehabilitative program is run and how patients are managed according to their baseline cardiological condition

Contents

Cardiological history collection oriented to differential diagnosis

Cardiology physical examination (inspection, cardiac auscultation, examination of the arterial pulse, measurement of blood pressure

Electrocardiography. How to identify the various electrocardiographic waves, cardiac rhythm, atrio- and intra-ventricular conduction, main supra- and ventricular arrhythmias

Ambulatory (Holter) ECG: identify main ipo- and iper-kinetic supra- and ventricular arrhythmias

Exercise stress test: How to evaluate the adaptations of the cardiovascular system to exercise and recognize the main symptoms and eletrocardiographic signs of inducible ischemia

Tilting test: identify the main pathophysiological substrates of lipotimia and syncope

Echocardiography: identify cardiac anatomic structures and normal intracardiac blood flow and understand how they change in patients with cardiac diseases

Cardiology stepward: experience the management of patients qwith subacute cardiac conditions

Rehabilitation: see how patients who suvived acute cardiac conditions can recover their functional capacity and how a educational program can be started

Detailed program

1. Attendance of the cardiology outpatient clinic to learn how to collect a cardiology clinical history, perform a cardiology physical examination, elaborate a diagnostic hypothesis and prescribe guideline-directed treatments and/or additional diagnostic tests

2. Attendance of the inpatient cardiology ward to gain experience in the management of the various subacute and or chronic cardiac conditions requiring hospital admittance

3. Attendance of the laboratories of echocardiography, electrocardiography, exercise stress testing, tilt tests, and hypertensive outpatient clinic to assist in patient preparation and test performance, and to discuss with the cardiologist in charge the indications, contraindications, and diagnostic yield of the various diagnostic tests

4. Understand the clinical significance of cardiac rehabilitation and learn which patients will benefit most from it

Prerequisites

Having attended the cardiology and respiratory vertical track lessons

Teaching form

Four interactive laboratory activities lasting 5 hours will be conducted in person and include attendance at various clinics and laboratories, as well as bedside discussions with the cardiologist in charge.

Textbook and teaching resource

Slides and recordings of the cardioogy course lessons available on the e-learning course page
https://www.msdmanuals.com/professional/cardiovascular-disorders/approach-to-the-cardiac-patient/cardiovascular-examination
https://geekymedics.com/cardiovascular-examination-2/

Semester

III year, Second semester

Assessment method

Evaluation of the attendance, the ability to interact constructively with both the patients and the colleagues by the tutor at the end of the internship period

Office hours

Tuesday and Thursday from 2 to 4 PM

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Sustainable Development Goals

QUALITY EDUCATION | GENDER EQUALITY