UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Diagnostics

2324-4-H4102D024-H4102D083M

Aims

The course will provide the essential theoretical knowledge of the key diagnostic tests used for the clinical identification and management of cardiovascular diseases. The acquired knowledge will contribute to a better understanding of the major indications and clinical value of each diagnostic tool. The students will also learn how to interpret basic findings of test results and cardiovascular reports.

Contents

Clinical cardiovascular exam; electrocardiogram; chest X-ray; echocardiographic techniques; cardiac computed tomography; cardiac magnetic resonance; scintigraphy; positron emission tomography; invasive hemodynamics; electrophysiology study; cardiac angiography and intracoronary imaging

Detailed program

· Cardiovascular examination

· Electrocardiography

· Cardiopulmonary exercise testing and pulmonary function tests

· Noninvasive imaging modalities: overview and selection

· Transthoracic echocardiography and lung ultrasound

· Stress and transesophageal echocardiography

· Cardiac radiography and computed tomography

· Cardiac magnetic resonance

· Nuclear imaging and positron emission tomography

· Invasive imaging and hemodynamics

Prerequisites

- Basic cardiovascular anatomy and physiology, cardiovascular and respiratory pathology and diagnostics

- English language

Teaching form

Lessons

Textbook and teaching resource

- Harrison’s Principles pf Internal Medicine 20?? Edition 2018, McGraw-Hill

- Hurst’s The Heart 14?? Edition 2017, McGraw-Hill

Semester

- First semester

Assessment method

Oral examination: discussion on topics covered during the lectures or clinical case analysis

Office hours

By email appointment at sandro.sironi@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING