



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Internship in Cardiology e Technology

2122-3-H4102D073

Aims

Understanding how technology helps cardiology for an in-depth characterization of patients' profiles, with a special focus on advanced echocardiography, functional evaluations under stress conditions, and hemodynamic assessment

Contents

Basis, applications and implications of advanced echocardiography, gas-exchange analysis and invasive hemodynamics for the characterization of patients' profiles in the modern era.

Detailed program

The course will focus on novel diagnostic tools for the functional evaluation of patients with suspected or known cardiovascular disease, thanks to the recent progresses in technology. In particular, we will focus on advanced echocardiography (3D echo, strain analysis; exercise stress echo) combined or not with gas-exchange analysis (cardiopulmonary exercise test) as well as on invasive hemodynamic evaluation, both at rest and during exercise, with a mention on PV loop analysis.

The student will take part to such clinical evaluations

Prerequisites

Basis of physiology and of cardiovascular medicine

Teaching form

Non-frontal didactics and participation to clinical exams

Textbook and teaching resource

slides that will be provided to the students

Semester

2nd semester

Assessment method

written exam (short report on the patients' cases evaluated during clinical practice in light of the topics discussed during non-frontal lessons)

Office hours

monday 11-12 AM
