UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Cardiovascular Diseases

2425-3-H4601D013-H4601D035M

Aims

The main objective of the course is to provide basic knowledge on the diagnosis, prevention and treatment of major cardiological diseases.

Contents

The module includes the following contents:
Cardiovascular risk; arterial hypertension; ischaemic heart disease; heart failure; cardiomyopathies; major arrhythmias and basic electrocardiography; cardiological causes of syncope; valvular diseases; congenital heart disease; bacterial endocarditis and rheumatic carditis; pericarditis; cardiovascular effects of obstructive sleep apnoea; antiplatelet and anticoagulant therapies in the cardiology patient.

Detailed program

Cardiovascular risk: modifiable and non-modifiable risk factors; importance of risk assessment with the practical use of risk charts; pharmacological and non-pharmacological interventions to reduce cardiovascular risk
Arterial hypertension: definition, clinical relevance, diagnosis, therapy
Ischaemic heart disease: pathophysiology, clinic, diagnostic approach, therapy
Heart failure: pathophysiology, clinic, diagnostic approach, therapy
Cardiomyopathies: classification, clinical relevance, diagnostic approach
Main arrhythmias: interpretation of the electrocardiogram; hyperkinetic and hypokinetic arrhythmias
Cardiological causes of syncope: clinical evaluation of a patient with syncope; main cardiological causes; management in the acute phase
Valvular diseases: aetiology, pathophysiology, diagnostic and therapeutic approach to heart valve disorders

Congenital heart disease: classification and implications for antibacterial prophylaxis
Bacterial endocarditis and rheumatic carditis: pathophysiology, clinical manifestations, prophylaxis
Pericarditis: classification, clinical, diagnostic and therapeutic approach
Cardiovascular effects of obstructive sleep apnoea: definition and pathophysiology, cardiological consequences, therapy, relevant aspects in dentistry
Antiplatelet and anticoagulant therapies in the cardiological patient: types of drugs, cardiological indications, management in a patient undergoing dental procedures

Prerequisites

See course prerequisites.

Teaching form

Approximately 80% of the hours will be dedicated to instructional teaching activities (DE), carried out in the form of face-to-face teaching (lectures).
Approximately 20% of the teaching hours will be in the form of interactive teaching (DI), carried out in particular as collegial discussion of case studies focusing on the topics addressed in DE.
Up to 25% of the teaching hours will be conducted remotely in synchronous mode.
The course language is Italian

Textbook and teaching resource

Harrison – Principles of Internal Medicine.
Slides and reference articles (upon request) provided by the instructors to the students

Semester

See general course syllabus

Assessment method

Single written exam for the 3 modules with 75 multiple-choice questions (both closed and open) and oral exam.
The exam is intended to test the knowledge and skills acquired in the various modules that make up the course and the student's ability to maturely process the concepts.
The final evaluation will take into account the results obtained in the different tests.
No interim tests are planned.
The exam coordinator is Professor Bilo (grzegorz.bilo1@unimib.it)

Office hours

By appointment with email to the teacher (grzegorz.bilo1@unimib.it)

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY