UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Cardiochirurgia

2324-6-H4101D336-H4101D125M

Aims

The course aims to provide students the tools and the necessary knowledge for performing a correct clinical diagnosis of the various cardiothoracic diseases of surgical interest, and identifying the proper surgical indication and surgical procedure.

Contents

Extracorporeal circulation. Heart valve diseases. Thoracic aortic surgery. Coronary heart disease. Congenital heart diseases. Mechanical circulatory support in heart failure. Heart transplantation.

Detailed program

1.Extracorporeal circulation.
General principles and technical aspects regarding extracorporeal circulation.

2.Heart valve disease
Recognize the clinical pictures and complications, provide indications for surgical treatment and describe the general aspects of the main surgical options in relation to the aortic valve replacement, mitral valve replacement, and tricuspid valve surgery.

3.Thoracic aortic surgery.
Recognize the clinical pictures and complications, provide indications for surgical treatment and describe the general aspects of the main surgical interventions in relation to the main common thoracic aorta diseases.

4.Surgical treatment for ischemic heart failure.
Recognize the clinical pictures and complications, provide indications for surgical treatment and describe the general aspects of current options for coronary revascularization.

5. Congenital heart disease.
   Recognize the clinical pictures, provide indications for surgical treatment and describe the general aspects of the different surgical procedures in relation to the main common congenital diseases.

6.Mechanical circulatory support in heart failure.
General principles and technical aspects regarding the different mechanical circulatory supports.

7.Heart transplantation.
Indications and contraindications to heart transplantation. General aspects regarding the surgical technique used for heart transplantation

Prerequisites

Knowledge of the preparatory courses as indicated in the regulations of the degree course in Medicine and Surgery.

Teaching form

Lessons from the chair and internship will be provided in presence, subject to any ministerial changes following the COVID pandemic situation. Language of the teaching: ITALIAN

Textbook and teaching resource

Kirklin / Barrat Boyes Cardiac Surgery . Elsevier
Sabiston. Textbook of Surgery. Saunders
F. Minni. Chirurgia Generale. Zanichelli
F. D'Amico. Manuale di Chirurgia Generale. Piccin

Semester

6th year, first semester

Assessment method

The final exam consist of two part: written test consisting of 20 multiple choice question (4 answers, only 1 correct) regarding course topics and topics included in the syllabus and oral exam with questions on course topics and

topics included in the syllabus.
Passing the written test is an indispensable condition for moving to the oral exam.
The written test is considered passed if no less than 18 answers are correct.
Written and oral exams will take place in person in compliance with safety and distancing rules. Any other changes regarding the COVID pandemic situation will be properly communicated to the students by the competent educational facilities.

Office hours

Only by appointment by e-mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING