



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Emergency

2223-4-H4102D024-H4102D087M

---

#### Aims

Provide concepts necessary for understanding pathophysiology, clinical presentation and treatment of the principal cardio - respiratory emergencies.

The course will focus on pathophysiology, clinical symptoms and signs of principal cardio -respiratory emergencies and principles of pharmacological and mechanical treatments.

#### Contents

The course will explain the most important clinical aspects and relative treatments of the following cardiac and respiratory emergencies:

- 1) Cardiocirculatory arrest
- 2) Cardiogenic Shock
- 3) Cardiac Tamponade
- 4) Acute Aortic Dissection
- 5) Pulmonary Embolism
- 6) Acute Respiratory Insufficienc

## **Detailed program**

- 1) Causes of Cardiocirculatory arrest and treatment (BLS-D, ACLS, ECLS);
- 2) Definition and classification of Shocks' types and focus on Cardiogenic Shock, pathophysiology, clinical presentation and treatment;
- 3) Obstructive shock: focus on the causes of Cardiac Tamponade, pathophysiology, clinical presentation and treatment;
- 4) Causes of Aortic dissection, classification, clinical presentation and medical treatment prior to surgery;
- 5) Causes of Pulmonary Embolism, acute cor pulmonale, pathophysiology, clinical presentation and treatment;
- 6) Causes of Acute Respiratory Insufficiency, clinical presentation and principle of treatment

## **Prerequisites**

Basic knowledge of biology, biochemistry, cardiac, vascular and respiratory anatomy, cardiac and respiratory physiology and pathophysiology.

## **Teaching form**

During the Covid-19 emergency the lectures will be delivered from remote in asynchronous/synchronous manner and video recorded

## **Textbook and teaching resource**

To be determined

## **Semester**

First semester.

## **Assessment method**

During the Covid-19 emergency the exams will be

OR Integrated Written exam: 5 multiple-choice questions

OR Oral carried out electronically from remote using the Zoom platform. For access to the events, the links will be published in the e-learning page of the subject.

### **Office hours**

on appointment by email

### **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

---