UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Emergency

2122-4-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