UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Emergency

2324-2-H4102D053-H4102D047M

Aims

At the end of the course/activity block, the student will be able to:

- Learning the basics and mechanisms of physiopathology, diagnosis, monitoring and treatment of clinical emergencies, medical and surgical.

- Apply BLSD and ACLS cardio-pulmonary resuscitation protocols

Contents

Evaluation of the patient general conditions.

Guidelines for the recovery and maintenance of the vital functions (BLSD and ACLS).

Acute cardiac failure and Introduction to cardiac support (Pharmacological and Mechanical)

Pre Hospital Trauma Life Support (Introduction and principles of treatments of traumatic Patients in Pre Hospital Setting)

Acute Respiratory Failures and Introduction to Respiratory Support

Shock (types, diagnosis and principles of treatment).

Detailed program

- Venous access in emergency.
- Vital signs recording in emergency.
- Cardiac defibrillation and pacing.
- CPR simulation.
- Evaluation and treatment of comatose patient.
- Evaluation of patients undergoing emergency surgery.
- Airways management.
- Acid base interpretation.
- Treatment of shock.
- Evaluation and treatment of poly trauma.

Prerequisites

Pre-clinical block (anatomy, biochemistry, physiology…) successfully passed

Teaching form

Clerkship program, with rotation in small groups (about max 10 students) in surgical specialties and in the emergency department:

- Course methodology for BLSD e ACLS
- Practice sessions with puppets or among students/teachers
- Discussion of clinical cases
- Observation Module: Each Student will follow the Anesthesiologist involved in the IntraHospital Emergency Care during his day shift. The role of the student is only observer of Anesthesiologist daily activities.

Textbook and teaching resource

- Ashish R Panchal et Al. Part 3: Adult Basic and Advanced Life Support: 2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. Circulation . 2020 Oct 20;142(16_suppl_2):S366-S468

- 2021 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Neonatal Life Support; Education, Implementation, and Teams; First Aid Task Forces; and the COVID-19 Working Group. Circulation. 2022 Mar;145(9):e645-e721.

- Tintinalli's Emergency Medicine Manual. David M. Cline, Michael T. Fitch, O. John Ma, Rita K. Cydulka, Scott A. Joing, Vincent J. Wang. McGraw-Hill. ISBN:17-9780071837026

- Pollak A. et Al. PHTLS 10th Edition

Semester

second term

Assessment method

Ongoing tests:

- Practical tests/maneuvers

- Multiple choice tests

Final test:

- Multiple choice tests

- Practical tests/maneuvers

BLSD and ACLS

Office hours

on appiontment

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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING