

**6th year (1st emester)
A.Y. 2026-27**

Scientific Field	SURGICAL AND MEDICAL EMERGENCIES	TUTOR	ECTS
MED/41	Anaesthesiology	Bilotta Federico	1
MED/41	Anaesthesiology	Coniglione Filadelfo	1
MED/41	Anaesthesiology	Biasucci Daniele Guerino	1
MED/09	Internal Medicine – Emergency Medicine	Legramante Jacopo Maria	1
MED/09	Internal Medicine – Emergency Medicine	Gallù MariaCarla	1
MED/18	General Surgery – Emergency Medicine	Sica Giuseppe	2
		TOT	7

**BILOTTA F.
COORDINATOR**

OBJECTIVES

EN: Our course is structured to encourage students' knowledge, clinical skills and attitudes essential for effective practice of Emergency Medicine. Students will develop their clinical judgement and technical ability under the guidance and supervision of their tutors. They are expected to meet the following goals and objectives during this course:

ANAESTHESIOLOGY

- How to perform cardiopulmonary resuscitation
- Resuscitation in diseases of major impact in general medicine oDiagnosis and treatment of different kind ofshock o Treatment of cardiac arrest
 - o Diagnosis and treatment of acute respiratory failure o
 - o Diagnosis of Brain Death
- Knowledge of general and loco-regional anesthesia techniques
- General approach to Critical Illness
- General Approach to pain medicine
- General approach to polytrauma

ANESTESIOLOGIA

IT: Il nostro corso è strutturato per promuovere le conoscenze, le competenze cliniche e gli atteggiamenti degli studenti, essenziali per una pratica efficace della Medicina d'Urgenza. Gli studenti svilupperanno il proprio giudizio clinico e le proprie abilità tecniche sotto la guida e la supervisione dei tutor. Durante questo corso, ci si aspetta che raggiungano i seguenti obiettivi:

OBIETTIVI

- Come eseguire la rianimazione cardiopolmonare
- Rianimazione nelle patologie di maggiore impatto nella medicina generale

- o Diagnosi e trattamento dei diversi tipi di shock
- o Trattamento dell'arresto cardiaco
- o Diagnosi e trattamento dell'insufficienza respiratoria acuta
- o Diagnosi di morte cerebrale
- Conoscenza delle tecniche di anestesia generale e loco-regionale
- Approccio generale al paziente critico
- Approccio generale alla terapia del dolore
- Approccio generale al politrauma

TOPICS

Cardiac Arrest and Cardio
Pulmonary Resuscitation

BLS - D (Basic Life Support- Defibrillation);
ALS (Advanced Life Support);
Defibrillation
Techniques and Procedures

Polytrauma

a) Physiopathology ; b) Triage; c) Clinical approach ; d) Severity scores

Respiratory failure

- a. Physiopathology
- b. b. Diagnosis e Treatment
- c. Techniques and Procedures of Invasive and Non Invasive Ventilation
- d. Equipment and devices

The critically ill patient and multiple organ dysfunction syndrome

- a. Definition
- b. Aetiology
- c. Hemodynamic support
- d. Stabilization and transport of the critically ill patient
- e. Renal failure in ICU: general aspects
- f. Clinical and Therapeutic aspects

The critically ill patient in Operating Room, Emergency Room, Intensive Care Unit

- a. Respiratory monitoring
- b. Cardiac and circulatory monitoring
- c. Neurological monitoring
- d. Monitoring of the renal function
- e. Temperature

Shock

- a. Physiopathology
- b. Diagnosis
- c. Clinical aspects
- d. Treatment
- e. Drugs for hemodynamic support

Acute poisoning

- a. First aid

Brain death

- a. Definition
- b. Diagnosis
- c. Legal issues in Italy

Pain treatment

- a. Physiopathology of pain
- b. Definition and clinical characteristics of acute and chronic pain
- c. Drugs for pain treatment

General and loco-regional anesthesia

- a. Risk assessment and the ASA Classification
- b. Anesthetic drugs
- c. Local anesthetics

OBJECTIVES

EN: Emergency surgery, unlike ordinary hospital care does not allow an early planning of the intervention that will take place but the latter must be “planned” in the course of work. Therapeutic choices will be conditioned by the clinical conditions of the patient and the local state. The purpose of this part of the course is to focus on the main pathologies that may cause the onset of an “acute abdomen” and the evaluation of urgent surgical risk. It will refer to the main pathologies that may give perforations and intestinal occlusion. In addition, problems related to trauma and intestinal hemorrhages are analyzed. The aim of this section of the course is to understand principles of diagnosis and cure of the most common clinical scenarios presenting to A&E because of Abdominal Pain.

GENERAL SURGERY

TOPICS Acute abdomen

- a. Physiopathology
- b. Triage
- c. Clinical approach
- d. Surgical approach

Abdominal pains and related causes

OBIETTIVI	IT: La chirurgia d'urgenza, a differenza dell'ordinaria assistenza ospedaliera, non consente una pianificazione precoce dell'intervento da eseguire; quest'ultimo deve invece essere "pianificato" nel corso dell'attività clinica. Le scelte terapeutiche saranno condizionate dalle condizioni cliniche del paziente e dallo stato locale.
CHIRURGIA GENERALE	Lo scopo di questa parte del corso è focalizzarsi sulle principali patologie che possono causare l'insorgenza di un "addome acuto" e sulla valutazione del rischio chirurgico urgente. Si farà riferimento alle principali patologie che possono determinare perforazioni e occlusioni intestinali. Inoltre, verranno analizzati i problemi correlati ai traumi e alle emorragie intestinali.
TOPICS Addome acuto	L'obiettivo di questa sezione del corso è comprendere i principi della diagnosi e del trattamento dei più comuni scenari clinici che si presentano al Pronto Soccorso a causa di dolore addominale.
Dolori addominali e cause	<ul style="list-style-type: none"> a. Fisiopatologia b. Triage c. Approccio clinico d. Approccio chirurgico

OBJECTIVES	EN: Our course is structured to encourage student's knowledge, clinical skills and attitudes essential for effective practice of Emergency Medicine at the patient bedside. Therefore, it is a theoretic-practical teaching which will be performed within the Emergency Department Divisions (Emergency Room and the Emergency Medicine Division).
EMERGENCY MEDICINE	<p>Students will develop their clinical judgment and technical ability under the guidance and supervision of their tutors. They are expected to meet the following goals and objectives during this course:</p> <ul style="list-style-type: none"> • How to manage critical patients in the Emergency Room. <ul style="list-style-type: none"> o Diagnosis and treatment of different kind of shock (hypovolemic, septic, etc.) o Treatment of Acute Heart Failure <ul style="list-style-type: none"> o Diagnosis and treatment of acute respiratory failure o Diagnosis and treatment of patients in Coma (posttraumatic, cerebrovascular, metabolic, etc.) o Acute chest pain o Acute Renal failure o Arrhythmias o Pulmonary Embolism o Syncope • How to manage the risk stratification trying to define the right clinical pathway for each patient (discharge, recovery in medical divisions, recovery in ICU)

OBIETTIVI

MEDICINA d'EMERGENZA

IT: Il nostro corso è strutturato per promuovere le conoscenze, le competenze cliniche e gli atteggiamenti degli studenti, essenziali per una pratica efficace della Medicina d'Urgenza al letto del paziente. Pertanto, si tratta di un insegnamento teorico-pratico che sarà svolto all'interno delle Divisioni del Dipartimento di Emergenza (Pronto Soccorso e Divisione di Medicina d'Urgenza).

Gli studenti svilupperanno il proprio giudizio clinico e le proprie abilità tecniche sotto la guida e la supervisione dei tutor. Durante questo corso, ci si aspetta che raggiungano i seguenti obiettivi:

- Come gestire i pazienti critici in Pronto Soccorso
 - o Diagnosi e trattamento dei diversi tipi di shock (ipovolemico, settico, ecc.)
 - o Trattamento dell'insufficienza cardiaca acuta
 - o Diagnosi e trattamento dell'insufficienza respiratoria acuta
 - o Diagnosi e trattamento dei pazienti in coma (post-traumatico, cerebrovascolare, metabolico, ecc.)
 - o Dolore toracico acuto
 - o Insufficienza renale acuta
 - o Aritmie
 - o Embolia polmonare
 - o Sincope

- Come gestire la stratificazione del rischio, cercando di definire il corretto percorso clinico per ciascun paziente (dimissione, ricovero nei reparti medici, ricovero in Terapia Intensiva)

TOPICS

Acute Heart Failure

- | | |
|----|--------------------------------------|
| a. | General approach to Critical Illness |
| b. | Physiopathology |
| c. | Triage |
| d. | Clinical approach |
| e. | Therapy |

Shock and multiple organ dysfunction syndrome

- a. Definition Aetiology
- b. Hemodynamic support
- c. Stabilization of the critically ill patient
- d. Clinical and therapeutic aspects

Respiratory failure

- a. Physiopathology
- b. Diagnosis and treatment
- c. Techniques and Procedures of non-invasive ventilation
- d. Equipment and devices

Coma

- a. Physiopathology
- b. Diagnosis
- c. Clinical aspects
- d. Treatment

Acute chest pain

- a. Physiopathology
- b. Definition and clinical characteristics
- c. Patient management in the Emergency ward
- d. Treatment

Acute renal failure

- a. Physiopathology
- b. Definition and clinical characteristics
- c. Patient management in the Emergency ward
- d. Treatment

Arrhythmias

- a. Acknowledgement of the main arrhythmias at the EKG
- b. Patient management in the Emergency ward
- c. Treatments

TEXTBOOKS

Oxford Handbook of Emergency Medicine Author: Jonathan P. Wyatt et al
4th Edition – Oxford University Press

Tintinalli’s Emergency Medicine Manual Author: David M. Cline et al
7th Edition – McGraw-Hill

Rosen’s Emergency Medicine. Concepts and Clinical Practice Author: Ron M. Walls et al
9th Edition - Elsevier

EXAM COMMISSION

The Coordinator, full Professors of the disciplines, Professors of similar disciplines, Specialists of the subject, compose the exam Commission of the Integrated Course.

Bilotta Federico,	President
Coniglione Filadelfo	
Biasucci Daniele Guerino	
Legramante Jacopo Maria	
Gallù Mariacarla	
Giuliano Ilaria - expert in the subject	
Di Vezza Filomena - expert in the subject	
Montalbano Alessandra - expert in the subject	
Del Parco Michela - expert in the subject	
Cococcia Livia - expert in the subject	
Vano Valentina - expert in the subject	
Falcone Marcella - expert in the subject	
Lucci Fabiana - expert in the subject	
Fabbi Eleonora - expert in the subject	

CONTACT

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PREREQUISITES: Previous knowledge and competence in the following subjects: Internal Medicine, General Pathology, Immunology and Embryology, Chemistry, Physics, Microbiology, Laboratory Medicine, Clinical Symptomatology, Systemic Pathology I, Systemic Pathology II, Systemic Pathology III, Infectious Diseases.

The specific learning outcomes of the program are coherent with the general provisions of the Bologna Process and the specific provisions of EC Directive 2005/36/EC. They lie within the European Qualifications Framework (Dublin Descriptors) as follows: 1. Knowledge and Understanding

- Assess the physiologic principles, which govern the function of the main body systems and the alterations induced by functional and structural abnormalities.
- Describe the main aspects of general pathology and explain the physiopathologic mechanisms underlying the concept of benign and malignant disorders as well as reversible and irreversible cellular damage
- Demonstrate knowledge about the mechanism of cell cycle maintenance and regulation, the factors affecting it and their consequences.
- Understand the core principles of acute and chronic inflammation in relation to the molecular, systemic and clinical aspects.
- Relate the general principles, terminology, and modes of spreading of disease to the study of Systemic Pathology and the ways in which pathology contributes to the understanding of patient presentation in a clinical setting.
- Focus on each organ and describe the pathogenesis of the main disease.
- Correlate basic disease states studied at a cellular and gross anatomic level with the overt clinical signs and symptoms seen in those disorders.
- Learn to interpret appropriate laboratory and diagnostic studies.

2. Applying Knowledge and Understanding

- Apply the diagnostic procedure in pathology, through introduction of the differential diagnostic methods at the clinical level.
- Apply a basic understanding of histopathology and morbid anatomy to the examination of microscopic sections and gross specimens, respectively, displaying pathologic processes.
- Provide a differential diagnosis based on specific clinical data, providing a comprehensive explanation of the underlying reasoning.
- Learn the practical aspects of the pathologic diagnostic instruments, when to use them and how to perform them.

Making Judgements

Recognize the importance of an in-depth knowledge of the topics consistent with proper medical education.

Identify the fundamental role of proper theoretic knowledge of the subject in the clinical practice.

Communication Skills

Present the topics orally in an organized and consistent manner.

Use of proper scientific language coherent with the topic of discussion.

Learning Skills

Identify the possible use of the acknowledged skills in the future career.

Assess the importance of the acquired knowledge in the overall medical education process.