

**COURSE DETAILS**  
**MEDICAL AND SURGICAL EMERGENCIES**  
**SSD MED/41, MED/09, MED/11, MED/18, MED/33\***

**DEGREE PROGRAMME: MEDICINE AND SURGERY (P11)**  
**COORDINATOR: PROF. GIUSEPPE SERVILLO**  
**ACADEMIC YEAR 2024-2025**

**GENERAL INFORMATION – TEACHER REFERENCES**

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## GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: MEDICAL AND SURGICAL EMERGENCIES

SSD OF THE MODULE: MED/41, MED/09, MED/11, MED/18, MED/33

TEACHING LANGUAGE: ENGLISH

CHANNEL: 1

YEAR OF THE DEGREE PROGRAMME: VI

SEMESTER: II

CFU:13

## REQUIRED PRELIMINARY COURSES

None.

## PREREQUISITES

None

## LEARNING GOALS

### EXPECTED LEARNING OUTCOMES

- Knowing the general lines of the territorial organization of emergencies and knowing how to communicate with an operations center.
- Knowing how to distinguish the most serious pathological situations at the site of the accident in order to formulate the Triage.
- Know the most common resuscitation maneuvers, in particular the techniques and manual skills fundamental for ACLS.
- Acquire a correct clinical methodology. in emergency-urgency situations.
- Know the pathological situations at the basis of emergencies and medical surgical emergencies.
- Knowing how to diagnose a medical, surgical or trauma emergency.
- Knowing how to evaluate the biological alterations induced by individual emergencies.
- Knowing how to make use of various diagnostic techniques in diagnosing and evaluating the patient's condition.
- Knowing how to indicate the most appropriate treatment in an emergency situation, also taking gender studies into account.

### Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems concerning medical and surgical emergencies / emergencies. The educational path of the course aims to provide students with the knowledge and methodological tools necessary to identify the diagnostic-therapeutic process of medical-surgical pathologists in urgency.

### Applying knowledge and understanding

The student must demonstrate to be able to correct a diagnostic-therapeutic procedure in urgency / emergency. The training course is aimed at transmitting the operational skills necessary to concretely apply the knowledge acquired in order to foster the ability to fully use the methodological tools necessary in the management of emergencies / emergencies.

The student will have to acquire knowledge of the most common medical-surgical emergencies, both from a physiopathological and clinical point of view. They will also have to learn the most common diagnostic and therapeutic techniques to be implemented in emergency-urgency situations.

## COURSE CONTENT/SYLLABUS

- **EMERGENCY ROOM:** Intra and extra-hospital Triage - Operations Centers and means of transport - BLS and PTC
- **ANESTHESIOLOGY:** Orotracheal intubation - General and local anesthetics - Neuromuscular blockers - Analgesics Locoregional anesthesia techniques - Informed consent - Advanced cardiocirculatory resuscitation - Cardiovascular arrest - Septic shock - Anaphylactic shock -

Acute and chronic respiratory failure - ARDS - mechanical ventilation - NIV - Coma - Hydro electrolyte balance - Nutrition - Extracorporeal purification techniques – Poisoning - Acute pain - Chronic non-cancer pain - Neuropathic pain - Therapy - Principles of Hyperbaric Therapy

- **INTERNAL MEDICINE:** Acute temperature alterations, headache and cerebrovascular accidents, syncope, hemorrhagic shock, anaphylactic shock, anemia in emergency, infectious diseases complications, sepsis and septic shock, thyreotoxicosis and other endocrinological emergencies, acute renal insufficiency, hypertensive crisis in pregnancy, acid-base balance and electrolytic disorders, falls, acute complications of diabetes, hepatic insufficiency, medical abdominal pain, respiratory insufficiency, acute epileptic disorders, geriatric syndromes and delirium, drug overdose, triage and emergency organization, diagnostics procedure indications
- **CARDIOVASCULAR DISEASES:**
- **EMERGENCY SURGERY:** Acute abdomen (definition and classification) Bowel obstruction (adhesions, hernias, volvulus, intussusception, cancer or other causes). Bowel perforations (ulcers, inflammation, cancer or other causes) Intestinal ischemia/infarction (decision making and surgical approach). Complex hernias of the abdominal wall (massive defects, infected meshes, multiple recurrences). Acute inflammatory diseases (appendicitis, gallbladder inflammation, pancreatitis and diverticulitis). Upper and lower gastrointestinal bleeding. Necrotizing infections of the soft tissues, such as necrotizing fasciitis
- **GENERAL TRAUMA OF LIMBS:** Fracture classification. Complications of fractures. Basic principles of fracture management. Dislocations. Spinal trauma. Initial Assessment and Management in Politrauma patients.

<b>TEACHING ACTIVITIES</b>				
<b>ARGUMENT</b>	<b>MODULE</b>	<b>PROFESSOR</b>	<b>DATE</b>	<b>TIME</b>
Management of the polytrauma patient.	<b>Anesthesiology</b>	Prof. P. Buonanno	March 3	1:00-4:00 pm
Acute temperature alterations	<b>Internal Medicine</b>	Prof. R. Esposito	March 6	1:00-3.00 pm
Headache and cerebrovascular accidents	<b>Internal Medicine</b>	Prof. C. Santoro	March 6	3.00-5.00 pm
Acute coronary syndromes Acute heart failure Cardiac arrhythmias	<b>Cardiology</b>	Prof. G. Esposito	March 7	1:00-4:00 pm
Cardiopulmonary resuscitation	<b>Anesthesiology</b>	Prof. A. Marra	March 10	1.00-3.00 pm
Basic rescue (BLS and PTC). Triage.	<b>Anesthesiology</b>	Prof. A. Marra	March 10	3.00-5.00 pm
Syncope	<b>Internal Medicine</b>	Prof. D. Leosco	March 13	1:00-3.00 pm
Hemorrhagic shock	<b>Internal Medicine</b>	Prof. C. Santoro	March 13	3.00-5.00 pm
Cardiogenic shock	<b>Cardiology</b>	Prof. G. Esposito	March 14	1:00-4:00 pm
Airway management	<b>Anesthesiology</b>	Prof. P. Buonanno	March 17	1:00-3.00 pm
Acute respiratory failure	<b>Anesthesiology</b>	Prof. P. Buonanno	March 17	3:00-5.00 pm
Anaphylactic shock	<b>Internal Medicine</b>	Prof. R. Esposito	March 20	1:00-3.00 pm
Pulmonary embolism	<b>Internal Medicine</b>	Prof. D. Rendina	March 20	3.00-5.00 pm
Pulmonary Hypertension	<b>Cardiology</b>	Prof. P. Vergara	March 21	1:00-4:00 pm
Acute Respiratory Distress Syndrome (ARDS)	<b>Anesthesiology</b>	Prof. G. Servillo	March 24	1.00-3.00 pm
Mechanical ventilation	<b>Anesthesiology</b>	Prof. G. Servillo	March 24	3.00-5.00 pm
Anemia in emergency	<b>Internal Medicine</b>	Prof. D. Rendina	March 27	1.00-3.00 pm
Sepsis and septic shock	<b>Internal Medicine</b>	Prof. R. Esposito	March 27	3.00-5.00 pm
Fractures and dislocations	<b>Locomotor System Disease</b>	Prof. M. Mariconda	March 28	1:00-4:00 pm
General anesthesia: general anesthetics, neuromuscular blockers, analgesics	<b>Anesthesiology</b>	Prof. P. Buonanno	March 31	1:00-3.00 pm
Locoregional anesthesia	<b>Anesthesiology</b>	Prof. A. Marra	March 31	3.00-5.00 pm
Acute abdomen (definition and classification)	<b>General Surgery</b>	Prof. M Musella	April 2	1:00-3:00 pm
Bowel obstruction (adhesions, hernias, volvulus, intussusception, cancer or other	<b>General Surgery</b>	Prof. M Musella	April 2	3.00-5.00 pm

causes)				
Thyreotoxicosis and other endocrinological emergencies	<b>Internal Medicine</b>	Prof. V. Iaccarino	April 3	1:00-3.00 pm
Acute renal insufficiency	<b>Internal Medicine</b>	Prof. D. Rendina	April 3	3:00-5.00 pm
Trauma of the limbs	<b>Locomotor System Disease</b>	Prof. G. Balato	April 4	1:00-4:00 pm
Acid-base balance and electrolytic disorders	<b>Anesthesiology</b>	Prof. P. Buonanno	April 7	1:00-3.00 pm
Extracorporeal purification techniques	<b>Anesthesiology</b>	Prof. P. Buonanno	April 7	3:00-5.00 pm
Bowel perforations (ulcers, inflammation, cancer or other causes)	<b>General Surgery</b>	Prof. M. Musella	April 8	1:00-3:00 pm
Intestinal ischemia/infarction (decision making and surgical approach)	<b>General Surgery</b>	Prof. M. Musella	April 8	3:00-5:00 pm
Upper and lower gastrointestinal bleeding.	<b>General Surgery</b>	Prof. M. Milone	April 9	1:00-4.00 pm
Hypertensive crisis in pregnancy	<b>Internal Medicine</b>	Prof. N. De Luca	April 10	1:00-3.00 pm
Acid-base balance and electrolytic disorders	<b>Internal Medicine</b>	Prof. D. Rendina	April 10	3:00-5.00 pm
Spinal trauma	<b>Locomotor System Disease</b>	Prof. A. Cozzolino	April 11	1:00-4:00 pm
Anaphylactic shock	<b>Anesthesiology</b>	Prof. A. Marra	April 14	1.00-2.00 pm
Venous cannulations	<b>Anesthesiology</b>	Prof. A. Marra	April 14	2:00-3.00 pm
Clinical Nutrition	<b>Anesthesiology</b>	Prof. G. Servillo	April 14	3:00-4:00 pm
Complex hernias of the abdominal wall (massive defects, infected meshes, multiple recurrences).	<b>General Surgery</b>	Prof. N. Rocco	April 15	1:00-4.00 pm
Necrotizing infection of the soft tissue	<b>General Surgery</b>	Prof. M. Musella	April 16	1:00-4:00 pm
Geriatric syndromes and delirium	<b>Internal Medicine</b>	Prof. F. Cacciatore	April 17	1:00-3.00 pm
Drug overdose	<b>Internal Medicine</b>	Prof. D. Leosco	April 17	3.00-5.00 pm
Acute complications of diabetes	<b>Internal Medicine</b>	Prof. G. Iaccarino	April 18	1:00-3.00 pm
Hepatic insufficiency	<b>Internal Medicine</b>	Prof. D. Leosco	April 18	3.00-5.00 pm
Pathophysiology of pain	<b>Anesthesiology</b>	Prof. G. Servillo	April 22	1:00-3.00 pm
Pain therapy examination	<b>Anesthesiology</b>	Prof. G. Servillo	April 22	3.00-5.00 pm

Triage and emergency organization	<b>Internal Medicine</b>	Prof. N. De Luca	April 23	1.00-3.00 pm
Diagnostics procedure indications	<b>Internal Medicine</b>	Prof. C. Santoro	April 23	3.00-5.00 pm
Vascular emergency (Aneurysm, upper and lower limb ischemia, etc...)	<b>General Surgery</b>	Prof. M. Milone	April 24	1:00-5:00 pm
Acute Pain	<b>Anesthesiology</b>	Prof. P. Buonanno	April 28	1.00-3.00 pm
Chronic pain	<b>Anesthesiology</b>	Prof. P. Buonanno	April 28	3.00-5.00 pm
Principles of Hyperbaric Therapy	<b>Anesthesiology</b>	Prof. G. Servillo	April 29	1:00-3.00 pm
Acute poisoning and decompression sickness	<b>Anesthesiology</b>	Prof. A. Marra	April 29	3:00-5.00 pm
Acute inflammatory diseases (appendicitis, gallbladder inflammation, pancreatitis and diverticulitis)	<b>General Surgery</b>	Prof. N. Rocco	April 30	1:00-4.00 pm
Infectious diseases complications	<b>Internal Medicine</b>	Prof. G. Iaccarino	May 2	1:00-3.00 pm
	<b>Internal Medicine</b>	Prof. C. Santoro	May 2	3.00-5.00 pm
X-ray, ultrasound and CT in the critically ill patient	<b>Anesthesiology</b>	Prof. A. Marra	May 5	1.00-3.00 pm
Burns, tetanus, electrocution, drowning	<b>Anesthesiology</b>	Prof. A. Marra	May 5	4.00-5.00 pm
Coma and Neurological emergencies	<b>Anesthesiology</b>	Prof. G. Servillo	May 6	1:00-4:00 pm
Acute epileptic disorders	<b>Internal Medicine</b>	Prof. R. Esposito	May 7	1:00-3:00 pm
Hepatic insufficiency	<b>Internal Medicine</b>	Prof. D. Leosco	May 7	3.00-5:00 pm
Respiratory insufficiency	<b>Internal Medicine</b>	Prof. F. Cacciatore	May 8	1:00-4:00 pm
Ingestion of foreign bodies and caustic substances	<b>General Surgery</b>	Prof. M. Musella	May 9	1:00-4.00 pm



## READINGS/BIBLIOGRAPHY

### - Anesthesiology:

Oxford Handbook of Anaesthesia (4 ed.)

Edited by Keith Allman and Iain Wilson - Oxford University Press

Oxford Handbook of Critical Care (3 ed.)

Mervyn Singer and Andrew Webb - Oxford University Press

### - Internal Medicine:

Harrison's Principles of Internal Medicine, 20e

J. Larry Jameson, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, Dan L. Longo, Joseph Loscalzo. McGraw Hill Education

### - Cardiovascular diseases:

### - Locomotor System Diseases:

Elstrom J, Virkus W, Pankovich A

Handbook of fractures, III Ed

McGraw Hill, 2005

### - Emergency Surgery:

Emergency General Surgery A Practical Approach

Editors: Brown, C.V.R., Inaba, K., Martin, M., Salim, A. (Eds.)

Springer Editore

## TEACHING METHODS

The course will be based for the 75% of the course on lectures (n. hours = 72 hours) with the support of power points and on the 25% on Clinical Clerkships (n. hours = 25).

## EXAMINATION/EVALUATION CRITERIA

### a) Exam type:

For **integrated courses**, there should be one exam.

Exam type	
written and oral	
only written	
only oral	x
project discussion	
Other	