



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 2025-2026

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, thyrotoxicosis 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.

TEACHING ACTIVITIES				
ARGUMENT	MODULE	PROFESSOR	DATE	TIME
Management of the polytrauma patient.	Anesthesiology	Prof. P. Buonanno	March 2	1:00-4:00 pm
Bowel perforations (ulcers, inflammation, cancer or other causes)	General Surgery	Prof. M. Musella	March 3	1:00-3:00 pm
Intestinal ischemia/infarction (decision making and surgical approach)	General Surgery	Prof. M. Musella	March 3	3:00-5:00 pm
Upper and lower gastrointestinal bleeding.	General Surgery	Prof. M. Milone	March 4	1:00-4:00 pm
Acute temperature alterations	Internal Medicine	Prof. R. Esposito	March 5	1:00-3:00 pm
Headache and cerebrovascular accidents	Internal Medicine	Prof. A. Cuomo	March 5	3:00-5:00 pm
Acute coronary syndromes Acute heart failure Cardiac arrhythmias	Cardiology	Prof. G. Esposito	March 6	1:00-4:00 pm
Cardiopulmonary resuscitation	Anesthesiology	Prof. A. Marra	March 9	1:00-3:00 pm
Basic rescue (BLS and PTC). Triage.	Anesthesiology	Prof. A. Marra	March 9	3:00-5:00 pm
Syncope	Internal Medicine	Prof. D. Leosco	March 12	1:00-3:00 pm
Hemorrhagic shock	Internal Medicine	Prof. C. Mancusi	March 12	3:00-5:00 pm
Cardiogenic shock	Cardiology	Prof. G. Esposito	March 13	1:00-4:00 pm
Airway management	Anesthesiology	Prof. P. Buonanno	March 16	1:00-3:00 pm
Acute respiratory failure	Anesthesiology	Prof. P. Buonanno	March 16	3:00-5:00 pm
Anaphylactic shock	Internal Medicine	Prof. R. Esposito	March 19	1:00-3:00 pm
Pulmonary embolism	Internal Medicine	Prof. D. Rendina	March 19	3:00-5:00 pm
Pulmonary Hypertension	Cardiology	Prof. P. Vergara	March 20	1:00-4:00 pm
Acute Respiratory Distress Syndrome (ARDS)	Anesthesiology	Prof. G. Servillo	March 23	1:00-3:00 pm
Mechanical ventilation	Anesthesiology	Prof. G. Servillo	March 23	3:00-5:00 pm
Anemia in emergency	Internal Medicine	Prof. D. Rendina	March 26	1:00-3:00 pm
Sepsis and septic shock	Internal Medicine	Prof. R. Esposito	March 26	3:00-5:00 pm
Fractures and dislocations	Locomotor System Disease	Prof. M. Mariconda	March 27	1:00-4:00 pm
General anesthesia: general anesthetics, neuromuscular	Anesthesiology	Prof. P. Buonanno	March 30	1:00-3:00 pm

blockers, analgesics				
Locoregional anesthesia	Anesthesiology	Prof. A. Marra	March 30	3.00-5.00 pm
Acute abdomen (definition and classification)	General Surgery	Prof. M Musella	April 8	1:00-3:00 pm
Bowel obstruction (adhesions, hernias, volvulus, intussusception, cancer or other causes)	General Surgery	Prof. M Musella	April 8	3.00-5.00 pm
Thyreotoxicosis and other endocrinological emergencies	Internal Medicine	Prof. V. Iaccarino	April 9	1:00-3.00 pm
Acute renal insufficiency	Internal Medicine	Prof. D. Rendina	April 9	3:00-5.00 pm
Trauma of the limbs	Locomotor System Disease	Prof. G. Balato	April 10	1:00-4:00 pm
Acid-base balance and electrolytic disorders	Anesthesiology	Prof. P. Buonanno	April 13	1:00-3.00 pm
Extracorporeal purification techniques	Anesthesiology	Prof. P. Buonanno	April 13	3:00-5.00 pm
Complex hernias of the abdominal wall (massive defects, infected meshes, multiple recurrences).	General Surgery	Prof. N. Rocco	April 15	1:00-4.00 pm
Hypertensive crisis in pregnancy	Internal Medicine	Prof. N. De Luca	April 16	1:00-3.00 pm
Acid-base balance and electrolytic disorders	Internal Medicine	Prof. D. Rendina	April 16	3:00-5.00 pm
Spinal trauma	Locomotor System Disease	Prof. A. Cozzolino	April 17	1:00-4:00 pm
Anaphylactic shock	Anesthesiology	Prof. A. Marra	April 20	1.00-2.00 pm
Venous cannulations	Anesthesiology	Prof. A. Marra	April 20	2:00-3.00 pm
Clinical Nutrition	Anesthesiology	Prof. G. Servillo	April 20	3:00-4:00 pm
Geriatric syndromes and delirium	Internal Medicine	Prof. F. Cacciatore	April 21	1:00-3.00 pm
Drug overdose	Internal Medicine	Prof. D. Leosco	April 21	3.00-5.00 pm
Necrotizing infection of the soft tissue	General Surgery	Prof. M. Musella	April 22	1:00-4:00 pm
Acute complications of diabetes	Internal Medicine	Prof. G. Iaccarino	April 23	1:00-3.00 pm
Hepatic insufficiency	Internal Medicine	Prof. D. Leosco	April 23	3.00-5.00 pm
Vascular emergency (Aneurysm, upper and lower	General Surgery	Prof. M. Milone	April 24	1:00-5:00 pm

limb ischemia, etc...)				
Pathophysiology of pain	Anesthesiology	Prof. G. Servillo	April 27	1:00-3.00 pm
Pain therapy examination	Anesthesiology	Prof. G. Servillo	April 27	3.00-5.00 pm
Acute Pain	Anesthesiology	Prof. P. Buonanno	April 28	1.00-3.00 pm
Chronic pain	Anesthesiology	Prof. P. Buonanno	April 28	3.00-5.00 pm
Triage and emergency organization	Internal Medicine	Prof. N. De Luca	April 29	1.00-3.00 pm
Diagnostics procedure indications	Internal Medicine	Prof. C. Mancusi	April 29	3.00-5.00 pm
Infectious diseases complications	Internal Medicine	Prof. G. Iaccarino	April 30	1:00-3.00 pm
	Internal Medicine	Prof. C. Mancusi	April 30	3.00-5.00 pm
Principles of Hyperbaric Therapy	Anesthesiology	Prof. G. Servillo	May 4	1:00-3.00 pm
Acute poisoning and decompression sickness	Anesthesiology	Prof. A. Marra	May 4	3:00-5.00 pm
X-ray, ultrasound and CT in the critically ill patient	Anesthesiology	Prof. A. Marra	May 5	1.00-3.00 pm
Burns, tetanus, electrocution, drowning	Anesthesiology	Prof. A. Marra	May 5	4.00-5.00 pm
Acute epileptic disorders	Internal Medicine	Prof. R. Esposito	May 6	1:00-3:00 pm
Hepatic insufficiency	Internal Medicine	Prof. D. Leosco	May 6	3.00-5:00 pm
Acute inflammatory diseases (appendicitis, gallbladder inflammation, pancreatitis and diverticulitis)	General Surgery	Prof. N. Rocco	May 7	1:00-4.00 pm
Ingestion of foreign bodies and caustic substances	General Surgery	Prof. M. Musella	May 8	1:00-4.00 pm
Coma and Neurological emergencies	Anesthesiology	Prof. G. Servillo	May 11	1:00-4:00 pm
Respiratory insufficiency	Internal Medicine	Prof. F. Cacciatore	May 12	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	