

Advanced Resuscitation

Code: 102894
ECTS Credits: 3

2025/2026

Degree	Type	Year
Medicine	OT	6

Contact

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

It is recommended that students have completed the optional course in Anesthesiology (fourth year), which will teach them the basics of pathophysiology, pharmacology, and anesthesia to recognize and treat life-threatening situations. It is essential to maintain the confidentiality and professional secrecy of any data they may have access to in the course of their training, as well as to maintain a professional ethic in all their practices.

Objectives and Contextualisation

At the end of the course the student must be able to:

- 1.- Identify and treat a severe acute patient by means of the ABCDE approach (Airway, Breathing, Circulation, Disability, Exhibition).
- 2.- Identify and treat a patient with cardio respiratory arrest with automatic external defibrillation, instrumental material of the airway and urgent vascular access, pending the arrival of more assistance

specialized

3.- Ensure the permeability of the upper airway: disobstruction of foreign bodies, ventilation with face mask, placement of laryngeal mask, tracheal intubation, ventilation systems, use of supraglottic and infraglottic devices

Competences

- Be able to work in an international context.
- Communicate clearly and effectively, orally and in writing, with patients, family-members and accompanying persons, to facilitate decision-making, informed consent and compliance with instructions.
- Convey knowledge and techniques to professionals working in other fields.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- Demonstrate understanding of the manifestations of the illness in the structure and function of the human body.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- Indicate the most suitable treatment for the most prevalent acute and chronic processes, and for the terminally ill.
- Listen carefully, obtain and synthesise relevant information on patients' problems, and understand this information.
- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
- Maintain and use patient records for further study, ensuring the confidentiality of the data.
- Put forward suitable preventive measures for each clinical situation.
- Recognise and take action in life-threatening situations and others that require an immediate response.
- Write patient records and other medical documents that can be understood by third parties.

Learning Outcomes

1. Be able to work in an international context.
2. Categorise emergency situations in accordance with the available indices of seriousness.
3. Choose a therapy option in accordance with available information and patient preference.
4. Convey knowledge and techniques to professionals working in other fields.
5. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
6. Enumerate the alarm signs that require urgent attention to the patient.
7. Establish rapport as the first important step in all medical procedures, both in elective and emergent situations and leave a written record of the information transmitted and the wishes of the patient.
8. Estimate the risks and benefits of the various therapy options.
9. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
10. Gather information and select the most important facts about the patient, both in normal visits and emergencies.
11. Identify all prophylactic measures to reduce indices of morbidity and mortality to the minimum.
12. Identify emergency situations and establish an order of priorities.
13. Identify the legal bases for creating, maintaining and using databases that contain medical information.
14. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
15. Perform the initial assessment automatically and acknowledge the actions that require an immediate response.
16. Provide clear, comprehensible information on the therapy options to patients and their families.
17. Recognise when a patient is in the terminal phase and avoid therapeutic obstination.
18. Transmit information clearly and accurately, leaving no room for possible misunderstandings.

Content

This subject follows the following sections:

- Theory lecture
- Laboratory Practices
- Advanced clinical simulation with manikin
- Asistencial clinical practices

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
ASISTENCIAL CLINICAL PRACTICES (PCAh)	15	0.6	5, 3, 4, 8, 9, 11, 14, 16, 17, 10, 1
PRACTIQUES DE SIMULACIÓ CLÍNICA AVANÇADA	7	0.28	2, 5, 3, 6, 8, 9, 12, 14, 16, 15, 10, 1, 18
PRÀCTIQUES D'HABILITATS CLÍNIQUES AVANÇADES (PHCA)	3	0.12	2, 3, 6, 8, 12, 16, 15, 18
THEORY	5	0.2	2, 3, 6, 7, 8, 13, 12, 16, 15, 17
Type: Autonomous			
PREPARATION OF WRITTEN WORKS, SELF-STUDY, READING ARTICLES / REPORTS OF INTEREST	41.25	1.65	4, 9, 14

Students are expected to regularly access Campus virtual. Debate and forum activities are scheduled throughout the course.

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and active participation in theory class	10%	1	0.04	2, 8, 12, 11, 17

Attendance to technical skills and simulation practices	50%	2.75	0.11	2, 5, 3, 7, 8, 9, 13, 11, 16, 15, 17, 10, 18
Evaluation of learning achieved and participation in simulation practices	40%	0	0	2, 5, 3, 4, 6, 8, 9, 12, 11, 14, 16, 15, 17, 1

The evaluation system will be based on attendance at theoretical classes (10%), attendance at skills and simulation practices (50%) and student evaluation during simulation and technical skills learning sessions (40%).

Given that the subject is fundamentally practical, students will be "NOT EVALUABLE" IF THEY HAVE NOT ATTENDED AT LEAST 60% OF THE SIMULATION AND SKILLS SESSIONS. Any retake test is excluded. This subject does not provide for the single evaluation system. For this subject, the use of Artificial Intelligence (AI) technologies is allowed exclusively in support tasks, such as bibliographic or information searches, text correction or translations. The student must clearly identify which parts have been generated with this technology, specify the tools used and include a critical reflection on how these have influenced the process and the final result of the activity. The lack of transparency in the use of AI in this assessable activity will be considered a lack of academic honesty and may lead to a partial or total penalty in the grade of the activity, or greater sanctions in serious cases.

Bibliography

- European Resuscitation Council Guidelines for Resuscitation 2021: <https://cprguidelines.eu/>
- Smith GB. In-hospital cardiac arrest: Is it time for an in-hospital chain of prevention?. *Resuscitation* 2010;81:1209-11
- O'Driscoll BR, Howard LS, Davison AG. BTS guideline for emergency oxygen use in adult patients. *Thorax* 2008;63 suppl6:vi1-68
- Nolan JP, Soar J. Airway techniques and ventilation strategies. *Curr Opin Crit Care* 2008;14:279-86
- Academy of Medical Royal Colleges. A code of practice for the diagnosis and confirmation of death. <https://www.aomrc.org.uk/reports-guidance/ukdec-reports-and-guidance/code-practice-diagnosis-confirmation-de>

- www.erc.edu
- www.ccr.cat
- www.cercp.es
- www.ilcor.org
- www.escardio.org
- www.euroanesthesia.org
- www.esicm.org
- www.eusem.org

Software

No needed

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.