

Advanced Resuscitation

Code: 102894
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	6	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Maria Pilar Paniagua Iglesias
Alicia Melero Mascaray
Barbara Méndez Prieto
Susana Gonzalez Suarez

External teachers

Lidia Mora Miquel
Pilar Tormos Pérez

Prerequisites

In order to take this subject, it is recommended to have successfully completed the Anesthesiology subject, including the bases of physiopathology, pharmacology, anesthesia and basic life support

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 understanding of the manifestations of the illness in the structure and function of the human body.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- 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
- Care Practicum without guidelines

Methodology

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.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
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: Supervised			
CARE PRACTICUM WITHOUT GUIDELINES	15	0.6	5, 3, 4, 8, 9, 11, 14, 16, 17, 10, 1
Type: Autonomous			
PREPARATION OF WRITTEN WORKS, SELF-STUDY, READING ARTICLES / REPORTS OF INTEREST	41.25	1.65	4, 9, 14

Assessment

All evaluation activities are obligatory. Evaluation activities are as following:

- 1.- Objective test of multiple choice. It will consist of 20 questions with 5 response options, of which only 1 will be correct. In order to take the exam, student is required to have attended to both laboratory practices.
- 2.- Assessment of practical contents. Evaluable activities take place in the classroom at individual and group levels.
- 3.- Continuous evaluation during the course development.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and active participation in class and	10%	0	0	12

seminars

Objective tests: Multiple choice test	50%	1	0.04	2, 5, 3, 4, 6, 8, 9, 12, 11, 14, 16, 15, 17, 1
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Practical evaluation through simulation	40%	2.75	0.11	2, 5, 3, 7, 8, 9, 13, 11, 16, 15, 17, 10, 18
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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