

Critical Inpatient and Outpatient Care

Code: 105016
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	6	0

Contact

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Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

Teachers

Antonio Jorge Betbese Roig

Pilar Ricart Martí

Emilio Diaz Santos

Ricard Ferrer Roca

Prerequisites

It is necessary that the student has basic clinical knowledge of the medical and surgical pathology, and of the ger

Objectives and Contextualisation

This is an optional subject linked to the mention of Medical Clinic, taught in the sixth year of the Degree in Medicine. The general objective is the knowledge of the basic pathophysiology of the

Competences

- Demonstrate understanding of the manifestations of the illness in the structure and function of the human body.
- Demonstrate understanding of the structure and function of the human organism in illness, at different stages in life and in both sexes.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- Establish a diagnostic approach and a well thought-out strategy for action, taking account of the results of the anamnesis and the physical examination, and the results of the appropriate complementary tests carried out subsequently.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- Indicate the basic diagnosis techniques and procedures and analyse and interpret the results so as to better pinpoint the nature of the problems.
- Indicate the most suitable treatment for the most prevalent acute and chronic processes, and for the terminally ill.
- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
- Obtain and prepare a patient record that contains all important information and is structured and patient-centred, taking into account all age and gender groups and cultural, social and ethnic factors.
- Perform a general and a system-by-system physical examination appropriate to the patient's age and sex, in complete and systematic way, and a mental evaluation.
- Recognise and take action in life-threatening situations and others that require an immediate response.

Learning Outcomes

1. Assess the relationship between efficacy and risk in the main therapeutic interventions.
2. Categorise emergency situations in accordance with the available indices of seriousness.
3. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
4. Describe the organ and system involvement and forms of presentation of diseases of the respiratory, circulatory and digestive systems, blood and hematopoietic organs, nervous system, musculoskeletal system, genitourinary system, metabolism and endocrine system.
5. Distinguish situations that require hospitalisation and those that require intensive care.
6. Establish a diagnostic and therapeutic approach in emergencies.
7. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
8. Identify serious clinical situations.
9. Identify the affection on organs and systems of diseases of the blood, cardiovascular system, respiratory system, digestive system, nervous system, renal system and musculoskeletal system.
10. Indicate the basic complementary examinations for interpreting the manifestations of the illness in the different organs and systems of the human body.
11. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
12. Perform basic and advanced life support manoeuvres.
13. a complete physical examination general and the respiratory, circulatory and digestive systems, blood and hematopoietic organs, nervous system, musculoskeletal system, genitourinary system, metabolism and endocrine system.

Content

Content

1. Directed activities

Theoretical class: The critical critical patient. 2 h

Resolution of cases (CCS): Transportation, consumption and extraction of

Resolution of cases (CCS): Blood volume 1 h

Resolution of cases (CCS): Hemodynamic 1 h
 Clinical skills (ACSP): Pulmonary mechanics 1 h
 Clinical skills (ACSP): Gas exchange 1 h
 Resolution of cases (CCS): Filtration, reabsorption and excretion of solut
 Case resolution (CCS): Regulation of electrolyte balance 1 h
 Case resolution (CCS): Acid-base deleveraging regulation 1 h
 Resolution of cases (CCS): The patient with severe neurological pathologi

Clinical skills (ACSP): The patient Polytraumatized Serious. 1 hour

Clinical skills (ACSP): The patient in Septic Shock 1 h

Resolution of cases (CCS): Critical Hematological patient 1 h

Resolution of cases (CCS): The patient with severe abdominal pathology

2. Supervised practices (HCP)

Assistance to the polyvalent ICU of the HGTip and other units according

Methodology

The general rules of the subject are described here. The final organization in terms of calendar, dates of examine

of groups is specified on the first day of class through the teachers of the subject.

General methodology:

Estimated hours of the subject: 75 (3 ECTS)

Directed (40%): 30 h

Autonomous work (51%): 38 h. Bibliographic and documentary reference

Evaluation (9%): 7 h. Work presentation and solving problems.

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			

Advanced Clinical Skills Practices	4	0.16	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1
SEMINAR OF CLINICAL CASES	9	0.36	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1
THEORY	2	0.08	3, 5, 8, 11
Type: Supervised			
Human Clinical practice	15	0.6	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1
Type: Autonomous			
DEVELOPMENT OF WORKS, PERSONAL STUDY, READING OF ARTICLES / REPORTS OF INTEREST	38	1.52	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1

Assessment

For the final evaluation of the subject, the following will be taken into account: 1) Attendance to practices (30%) 2

presented in electronic format (40%)

3) Objective multiple-choice tests and / or short questions about the content of clinical cases (30%). The question

When it is considered that the student has not been able to provide sufficient evidence of evaluation in the record

A recovery test will be scheduled for students who exceed the contents of the subject with a format to be determined

This subject does not provide the single assessment system.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Continuous evaluation in practices. Assistance and active participation	30%	2	0.08	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1

Evaluation through case studies and problem solving	40%	3	0.12	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1
Written evaluation through objective tests	30%	2	0.08	2, 3, 4, 5, 6, 7, 9, 8, 10, 11, 12, 13, 1

Bibliography

Bibliography

1. Barlett RH. Fisiopatologia en medicina intensiva. Edit. Masson, 1997.
2. Rennke HG, Denker BM. Fisiopatologia renal. 2ª ed. Edit. Wolters Kluwer 2007.
3. Guyton CA. Tractat de Fisiologia Mèdica. 12 ed. Adit. Elevar 2011.
4. Hall GB, Schmidt GA, Kress JP. Critical Care. Edit: Mc.Graw-Hill. 4ª ed. 2015
5. Manual de Medicina Intensiva Massachusetts General Hospital. 6ª ed. Ed. Wolters Kluwer. 2017
6. Irwin an Rippe's Intensive Care Medicine. Eighth edition. Ed. Wolterfs Kluwer. 2018

Software

We use the SimPad PLUS software