

Degree	Type	Year
Physiotherapy	OT	4

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

To have knowledge of the anatomy and physiology of the cardiorespiratory system, necessary to be able to interpret the physiopathology of cardiorespiratory diseases and thus to be able to consider a functional assessment algorithm to reach the diagnosis of physiotherapy.

Have basic knowledge of physiotherapeutic evaluation and treatment in these diseases.

Knowledge of English that allows the student to carry out bibliographic research and critical reading of scientists articles.

Objectives and Contextualisation

In the last years, there has been an improvement in the pathophysiological knowledge of heart disease respiratory and critical illness, which has led to great medical progress, both in the field of diagnostic tests already they are image, clinical, functional and / or laboratory as well as therapeutic. Thank you, the survival and prognosis of these diseases, which increases the treatment needs rehabilitator in this area and the improvement of the preventive measures to promote good habits cardiosaludables and improve quality of life.

This subject intends to deepen the knowledge and clinical skills of functional assessment cardiorespiratory, both in the field of anamnesis, semiology, physical examination and complementary tests that

cardiorespiratory, both in the field of anamnesis, semiology, physical examination and complementary tests that allow to be able to make a correct physiotherapeutic diagnosis in the different cardiorespiratory and critical illness pathologies and so we can treat them therapeutically in the most appropriate way.

Competences

- Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- Design the physiotherapy intervention plan in accordance with the criteria of appropriateness, validity and efficiency.
- Display critical reasoning skills.
- Evaluate the functional state of the patient, considering the physical, psychological and social aspects.
- Integrate, through clinical experience, the ethical and professional values, knowledge, skills and attitudes of physiotherapy, in order to resolve specific clinical cases in the hospital and non-hospital environments, and primary and community care.
- Make changes to methods and processes in the area of knowledge in order to provide innovative responses to society's needs and demands.
- Show sensitivity to environmental issues.
- Solve problems.
- Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.
- Work in teams.

Learning Outcomes

1. Analyse a situation and identify its points for improvement.
2. Communicate using language that is not sexist.
3. Consider how gender stereotypes and roles impinge on the exercise of the profession.
4. Critically analyse the principles, values and procedures that govern the exercise of the profession.
5. Describe and apply advanced assessment procedures in physiotherapy in order to determine the degree of damage to the chest and possible functional repercussions.
6. Describe the circumstances that can influence priorities when using physiotherapy to treat chest pathologies.
7. Display critical reasoning skills.
8. Enumerate the different types of material and apparatus used in physiotherapy treatment of chest pathologies.
9. Explain the explicit or implicit code of practice of one's own area of knowledge.
10. Identify situations in which a change or improvement is needed.
11. Identify the principal forms of sex- or gender-based inequality present in society.
12. Propose new methods or well-founded alternative solutions.
13. Propose new ways to measure success or failure when implementing innovative proposals or ideas.
14. Show sensitivity to environmental issues.
15. Solve problems.
16. Use physiotherapy to treat clinical cases involving chest pathologies.
17. Weigh up the impact of any long- or short-term difficulty, harm or discrimination that could be caused to certain persons or groups by the actions or projects.
18. Weigh up the risks and opportunities of suggestions for improvement: one's own and those of others.
19. Work in teams.

Content

Theoretical and practical program

1. Semiology of the respiratory system (anamnesis and physical examination)
2. Assessment of respiratory functional tests (spirometry, lung volumes, pulmonary diffusion, bronchodilator test)
3. Assessment of gasometry, oxygen saturation and capnography
4. Assessment of the strength of the respiratory musculature and cough
5. Functional assessment of the exercise capacity: field tests (six-minute walk test, shuttle test, stairs test) and la
6. Imaging test in pulmonary diseases
7. Diagnosis of physiotherapy according to the pathologies: patient with obstructive pathologies / patient with broi
8. Physiotherapeutic assessment of the critical patient: semiology and how to evaluate muscle strength
9. Assessment of dyspnea perception and fatigue

10. Assessment of sarcopenia, frailty and malnutrition

11. Assessment of peripheral muscle

12. Assessment of quality of life

13. Assessment of physical activity and physical exercise

14. Semiology of the cardiovascular system (anamnesis and physical examination)

15. Assessment of hemodynamic parameters and their relation to exercise

16. Electrocardiogram basic evaluation and electrical changes with exercises

17. Evaluation of cardiac stress test and utility in cardiac rehabilitation

18. Other cardiological diagnostic tests (echocardiography, Holter, cardiac MRI, etc.)
19. Assessment of aerobic function with cardiopulmonary exercise testing in the patient who have to do a training
20. Diagnosis of physiotherapy according to the pathologies: ischemic heart disease / heart failure / pathologies t
21. Relationship of the alteration of cough with phonation and dysphagia

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
CLINICAL CASES SEMINARS (SCC)	12	0.48	16, 5, 6, 8, 7, 15, 19
LABORATORY PRACTICES (PLAB)	8	0.32	16, 5, 6, 8, 7, 15
THEORY(TE)	20	0.8	16, 5, 6, 8, 7, 15
Type: Autonomous			
PREPARATION OF WRITTEN WORKS	30	1.2	16, 14, 6, 8, 7, 15, 19

The subject is distributed in theoretical, clinical cases seminars and practical classes.

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

Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Assistance and active participation in class and seminars	5%	0	0	4, 1, 16, 2, 14, 5, 6, 8, 9, 11, 10, 18, 12, 13, 7, 15, 19, 3, 17
Delivery of written reports / work and oral defense.	25%	2	0.08	4, 1, 16, 2, 14, 5, 6, 8, 9, 11, 10, 18, 12, 13, 7, 15, 19, 3, 17
Practical evaluation: structured objective evaluation	30%	2	0.08	4, 1, 16, 2, 14, 5, 6, 8, 9, 11, 10, 18, 12, 13, 7, 15, 19, 3, 17
Written evaluation: multiple choice items and long answer test questions.	40%	2	0.08	4, 1, 16, 14, 5, 6, 8, 10, 7, 15

Description of the evaluation system.

Theoretical exam [NE] (40% of the final grade):

-Evaluation written through objective tests of selection of multiple choice items: 30 questions with 4 possible answers, only one will be correct. The correct answers are worth 1 point and each wrong answer it remains 0.33 points.

- Request questions for broad questions: 2 topics / issues to be developed.

It must be approved with a 5.

Practical exam [NP] (30% of the final grade):

- Practical type evaluation through structured objective evaluation: The clinical ability will be assessed at the application of the different functional valuation tools to solve the situation posed and power to arrive at a correct physiotherapeutic diagnosis.

Written work and oral presentation. [NT] (25% of the mark).

Delivery of reports / written papers and oral defense.

Participation in classes / forums [PR] (5% of the final mark).

Attendance and active participation in class and seminars.

All the evaluable tests must be approved to be able to pass the subject.

$$([NE] \cdot 0.4) + ([NP] \cdot 0.3) + ([NT] \cdot 0.25) + ([PR] \cdot 0.05) = \text{FINAL NOTE}$$

Student that fail only one part of the subject, may opt for a recovery test.

When the student can not provide sufficient evidences of evaluation in the act will be given this subject as not evaluable.

Assistance to the SCC and the PLAB must be a minimum of 85%.

The ERASMUS students who come to the UAB will be evaluated according to the same criteria as the rest of almunos.

Evaluation activities

Title Weight Hours ECTS Results of learning.

Attendance and active participation in class and seminars.

Practical type evaluation through structured objective evaluation.

Evaluation written through objective tests of selection of items of multiple choice

Multiple questions and essay questions.

Delivery of reports / written papers and oral defense.

In case of failing, the student can take a second-chance examination.

Bibliography

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Software

Microsoft: Teams, Power point, adobat Acrobat, word, wooclap

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.

Name	Group	Language	Semester	Turn
(PLAB) Practical laboratories	301	Catalan/Spanish	first semester	afternoon
(SCC) Clinical case seminars	301	Catalan/Spanish	first semester	afternoon
(TE) Theory	301	Catalan/Spanish	first semester	afternoon