

The Foundations of Physiotherapy

Code: 104099
ECTS Credits: 6

Degree	Type	Year	Semester
2500892 Physiotherapy	OB	1	1

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

Miriam Herrera i Llamas
Eduard Coll del Cura

Prerequisites

None

Objectives and Contextualisation

The subject is taken in the first semester of the first year of the Physiotherapy degree and forms part of the group of compulsory subjects. The subject is part of the necessary scientific grounding of the graduate in Physiotherapy and has the following aims.

- To know the historical evolution of physical, natural and complementary therapies and their professional independence within the framework of the biomedical sciences. From a socio-historical perspective, students are offered the critical elements that allow the analysis and understanding of the current state of physiotherapy.
- To learn the theoretical bases and the development of methods and procedures of physiotherapy care.
- To analyse and synthesize the information about the patient collected during the anamnesis.
- To carry out the recording of data, the clinical history, the diagnosis in physiotherapy, as well as the main methods and techniques of treatment.
- To organize and plan the physiotherapy treatment according to the objectives.
- To track the patient's progression correctly and prepare the discharge report.
- To locate by palpation the different musculoskeletal structures of the human body.
- To describe and carry out correctly the evaluation of muscle strength through muscle balance.

- To learn sufficient vocabulary to express oneself fluently, coherently and in accordance with the established rules, both orally and in writing.
- To acquire problem-solving strategies.

This subject is complemented by other basic and compulsory subjects, such as Anatomy, Physiology and Biophysics.

Competences

- Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- Display critical reasoning skills.
- Display knowledge of the morphology, physiology, pathology and conduct of both healthy and sick people, in the natural and social environment.
- Display knowledge of the physiotherapy methods, procedures and interventions in clinical therapeutics.
- Display knowledge of the sciences, models, techniques and instruments around which physiotherapy is structured and developed.
- Evaluate the functional state of the patient, considering the physical, psychological and social aspects.
- Express ideas fluently, coherently and correctly, both orally and in writing.
- Make a physiotherapy diagnosis applying internationally recognised norms and validation instruments.
- Make changes to methods and processes in the area of knowledge in order to provide innovative responses to society's needs and demands.
- Produce and systematically keep physiotherapy records.
- Take account of social, economic and environmental impacts when operating within one's own area of knowledge.
- Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.
- Work in teams.
- Write the physiotherapy discharge report once the established objectives have been attained.

Learning Outcomes

1. Analyse a situation and identify its points for improvement.
2. Analyse the indicators of sustainability of academic and professional activities in the areas of knowledge, integrating social, economic and environmental dimensions.
3. Analyse the sex- or gender-based inequalities and the gender biases present in one's own area of knowledge.
4. Apply appropriate physiotherapy assessment procedures, in order to determine the degree of involvement of the musculoskeletal and its possible impact functional system.
5. Apply methods, procedures and basic physiotherapy performances in the therapy of injuries and / or diseases affecting the musculoskeletal system, with emphasis on manual therapy.
6. Communicate using language that is not sexist.
7. Consider how gender stereotypes and roles impinge on the exercise of the profession.
8. Critically analyse the principles, values and procedures that govern the exercise of the profession.
9. Describe and analyze the methods of analysis of human movement.
10. Describe and apply advanced evaluation procedures in physiotherapy in order to determine the degree of damage to the musculoskeletal system and possible functional repercussions.
11. Describe the manual and instrumental methods and procedures used for assessment in physiotherapy.
12. Display critical reasoning skills.
13. Elaborate the clinical history of physiotherapy including all necessary information for it to be a valid instrument of intra and interdisciplinary communication.
14. Enumerate and describe the different elements that conform the typical physiotherapy records that form part of the case history.
15. Enumerate and describe the elements that make up a high-quality physiotherapy report.
16. Explain and apply the theoretical principles behind physiotherapy methods and procedures.

17. Explain the concept, evolution and fundamental principles of physiotherapy from both the scientific perspective and that of the professional practitioner.
18. Explain the explicit or implicit code of practice of one's own area of knowledge.
19. Explain the general theory of functions, disability and health and their international classification, and models for physiotherapy interventions in healthcare practice.
20. Express ideas fluently, coherently and correctly, both orally and in writing.
21. Identify situations in which a change or improvement is needed.
22. Identify the methodology necessary for determining the physiotherapy diagnosis.
23. Identify the social, economic and environmental implications of academic and professional activities within one's own area of knowledge.
24. Locate the different muscles through surface palpation.
25. Propose new methods or well-founded alternative solutions.
26. Propose new ways to measure success or failure when implementing innovative proposals or ideas.
27. Propose projects and actions in accordance with the principles of ethical responsibility and respect for fundamental rights, diversity and democratic values.
28. Propose projects and actions that incorporate the gender perspective.
29. Propose viable projects and actions to boost social, economic and environmental benefits.
30. Propose ways to evaluate projects and actions for improving sustainability.
31. Suitably record all steps taken, from reception of the patient to the physiotherapy discharge report, in accordance with each clinical specialisation.
32. 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.
33. Weigh up the risks and opportunities of suggestions for improvement: one's own and those of others.
34. Work in teams.

Content

THEORETICAL PART (10h)

LECTURER: Sandra Torrell (Sandra.Torrell@uab.cat)

1. INTRODUCTION TO PHYSIOTHERAPY (2h)

1.1 What is physiotherapy?

1.2 Physiotherapy versus rehabilitation

1.3 Competence framework of physiotherapy

1.4 Areas of activity of physiotherapy

2. THERAPEUTIC PERFORMANCE (2h)

2.1 Therapeutic function

2.2 Physical agents

3. PROCESS OF PHYSIOTHERAPY CARE (PPC) (1h)

3.1 Stages of the PPC

3.2 Methodology of action

4. CLINICAL HISTORY IN PHYSIOTHERAPY (5h)

4.1 Concept of clinical history

4.2 Parts of the clinical history

4.2.1 Anamnesis

4.2.2 Patient examination

- Systems exploration
- Valuation scales
- Supplementary tests

4.2.3 Physiotherapy diagnosis

- Concept
- Goals
- Competences and limits

4.2.4 Physiotherapy treatment

- Therapeutic goals
- Improvement indicators
- Establishment of physiotherapy treatment

4.2.5 Evolutionary course

4.2.6 Discharge report

PRACTICAL PART (42.5h)

LECTURERS:

Sandra Torrell (Sandra.Torrell@uab.cat)

Eduard Coll del Cura (eduard.coll@uab.cat)

Miriam Herrera Llamas (miriam.herrera@uab.cat)

1. INTRODUCTION TO THE MUSCLE BALANCE TECHNIQUES (1.5h)

2. MUSCLE BALANCE OF THE UPPER LIMBS (25h)

2.1 Shoulder

2.2 Elbow

2.3 Wrist

2.4 Hand and fingers

3. MUSCLE BALANCE OF THE LOWER LIMBS (17h)

3.1 Hip

3.2 Knee

3.3 Ankle

3.4 Foot and fingers

Methodology

The subject is based on theoretical and practical classes.

At all times, the SAFETY and HYGIENE NORMS are respected because of the Covid-19, the breach of these rules implies the expulsion of the student from the classroom and a direct suspension of the subject.

ATTENDANCE at laboratory practicals (PLAB) is COMPULSORY.

The use of MOBILE PHONES, SMARTWATCHES, HEADPHONES or other ELECTRONIC DEVICES is not allowed during the theoretical and PLAB classes, nor during the exams. The PLAB dossiers must be printed on paper.

NO PHOTOGRAPHS OR RECORDINGS (audio and video) during the CLASSES are allowed. All material is subject to copyright and will be posted on the Campus Virtual platform. Doing business with the material posted on the Campus Virtual will automatically lead to failing the subject and it will be the lecturer's decision to take legal action against the student through the legal services of the UAB.

Students arriving 10 or more minutes late for a class will NOT be allowed to enter the classroom and will be counted as absent without justification.

It is mandatory to attend the PLAB with the appropriate clothing: bikini, large towel or pareo, eyeliner pencil and make-up remover wipes or similar.

It is ESSENTIAL to take care of PERSONAL HYGIENE.

Watches, rings, bracelets, earrings, or any other element that may be detrimental to the comfort and safety of the student during the execution of the physiotherapy techniques, may not be worn in PLAB sessions. Students' hair must be tied back and their nails short and unpainted.

Any INAPPROPRIATE BEHAVIOUR by a student during the classes that may be a nuisance to the lecturer or to the other students entitles the lecturer to remove the student from the classroom. Each expulsion will be treated as an unjustified absence and will deduct 0.25 points on the exam.

Eating and drinking during classes is prohibited.

Any change in the health situation derived from Covid-19 can involve a change in the methodology and evaluation of the course.

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			
LABORATORY PRACTICALS	42.5	1.7	4, 11, 9, 10, 20, 24, 12, 34
THEORY	10	0.4	4, 11, 10, 13, 14, 15, 17, 16, 19, 20, 22, 12, 31, 34
Type: Autonomous			
SELF STUDY, READING ARTICLES, REPORTS OF INTEREST	90	3.6	5, 4, 11, 9, 10, 13, 14, 15, 17, 16, 19, 22, 24, 31

Assessment

The evaluation of the theoretical part of the course is equivalent to 3 points (out of 10) of the overall grade of the subject and will be carried out by means of a exam of 20 true/false questions with 1 only correct answer and with a penalty of a correct question for each erroneous answer. It will be necessary to score at least 5 in this test for it to be taken into account when calculating the overall grade.

The assessment of laboratory practicals is equivalent to 7 points (out of 10) of the overall grade for the subject. It will be carried out by means of two oral theoretical-practical exams. Each of these interim exams is equivalent to 3.5 points (out of 10) of the overall grade for the subject. A mark of at least 5 must be obtained in each of the interim exams for them to be taken into account when calculating the overall grade. Attendance at laboratory practicals is mandatory. Each absence will subtract 0.25 points.

The final score will be the sum of the points obtained in the evaluation of theoretical knowledge (30%) and laboratory practicals (70%). It will be necessary to obtain a final grade of at least 5 to pass the subject.

Students who do not attend any of the 3 assessment tests will be graded as Non-Assessable in their academic record.

Students who have failed the exam on theory and/or exams on laboratory practicals, may take the resit exam. However, this cannot be allowed under any circumstances in the case of students graded as Non-Assessable in their academic record.

If copying of any kind is detected in the exams, the subject will be automatically failed with a mark of 0.

Students arriving 10 or more minutes late for a class will NOT be allowed to enter the classroom and will be counted as absent without justification.

The two theoretical-practical oral exams will audio- and/or video-recorded for correction and subsequent review. In order to take them, it is mandatory for students to have given their written consent to this recording if they are of legal age, or for their parents or legal guardians to have done so if the student is a minor. Without the signed consent the students will not be able to carry out the theoretical-practical exams and will be graded as Non-Assessable in their academic records.

Self-certification of absences through documents written and/or signed by the students themselves or by their parents or other family members is not allowed. Certifications of absence must be send by mail, if not, it must mibe considered an absence with a substract of 0.25 points.

Any change in the health situation derived from Covid-19 can involve a change in the evaluation of the course.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Objective test of multiple-choice questions	30%	3	0.12	8, 2, 3, 1, 5, 4, 6, 11, 10, 13, 14, 15, 18, 17, 16, 19, 20, 22, 23, 21, 33, 30, 25, 26, 27, 28, 29, 12, 31, 34, 7, 32
Structured oral tests	70%	4.5	0.18	8, 2, 3, 1, 4, 6, 11, 9, 10, 18, 20, 23, 21, 24, 33, 30, 25, 26, 27, 28, 29, 12, 34, 7, 32

Bibliography

Most of this bibliography can be consulted in digital format through the library portal of the UAB.

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Software

None