



## IDENTIFYING DATA

### Cardiorespiratory Physical Therapy

Subject	Cardiorespiratory Physical Therapy			
Code	P05G171V01302			
Study programme	Grado en Fisioterapia			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	9	Mandatory	3rd	1st
Teaching language	Spanish Galician			
Department				
Coordinator	Lantarón Caeiro, Eva María			
Lecturers	Lantarón Caeiro, Eva María Mollinedo Cardalda, Irimia			
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General description				

## Training and Learning Results

Code	
A2	Students are able to apply their knowledge to their work or vocation in a professional manner and possess the competences usually demonstrated through the development and defence of arguments and problem solving within their field of study.
B2	Incorporate the ethical and legal principles of the profession into professional practice and integrate social and community aspects into decision making.
B3	Communicate effectively and clearly, both orally and in writing, with users of the health system as well as with other professionals.
C1	To know the principles and theories of physical agents and their applications in physical therapy.
C7	Know the physiological and structural changes that can occur as a result of the application of physiotherapy.
C9	Know the pathophysiology of diseases, identifying the manifestations that appear throughout the process, as well as the medical-surgical treatments, mainly in their physiotherapeutic and orthopedic aspects. To identify the changes produced as a consequence of the physiotherapy intervention. Encourage the participation of the user and family in the recovery process.
C14	Understand and apply the manual and instrumental methods and procedures of assessment in Physical Therapy and Physical Rehabilitation, as well as the scientific evaluation of their usefulness and effectiveness.
C18	Encourage the participation of the user and family in their recovery process.
C19	Understand and perform specific methods and techniques related to the locomotor system (including manual therapies, joint manipulative therapies, osteopathy and chiropractic), neurological processes, respiratory system, cardiocirculatory system and static and dynamic alterations. Specific methods and techniques that take into account the implications of orthopedics in physiotherapy, reflex therapeutic techniques, as well as other alternative and/or complementary methods and techniques whose safety and efficacy is demonstrated according to the state of development of science.
C20	Identify the most appropriate physiotherapeutic treatment in the different processes of alteration, prevention and health promotion as well as in the processes of growth and development.
D4	Creativity, entrepreneurial spirit and adaptation to new situations.

## Expected results from this subject

Expected results from this subject		Training and Learning Results	
New		B3	
New			C7
New	A2	B3	C1
			C7
			C9
			C14

New	A2	B2	C1 C7 C9 C18 C19 C20	
New	A2	B2 B3	C14 C19 C20	D4

## Contents

Topic	
THEORETICAL SYLLABUS -	(*)-
Introduction to Respiratory Physiotherapy -	(*)-
Assessment of the respiratory patient	(*)-
Methods and techniques of cardiorespiratory physiotherapy -	- Techniques of airway permeabilization - Ventilatory reeducation techniques - Therapeutic exercise in cardiorespiratory pathology.
PRACTICAL SYLLABUS	(*)-
Assessment of the respiratory patient	- Physical assessment of the respiratory patient. - Assessment of respiratory sounds. - Functional respiratory examination at rest. - Functional respiratory examination during exercise.
Cardiorespiratory physiotherapy methods and techniques	- Airway patency techniques. - Ventilatory reeducation techniques - Therapeutic exercise in cardiorespiratory pathology.

## Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	32	59	91
Laboratory practical	43	75	118
Essay questions exam	1	0	1
Laboratory practice	1	0	1
Portfolio / dossier	3	11	14

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

## Methodologies

	Description
Lecturing	The following teaching methodologies will be used in the master classes: - Introductory activities - Problem solving - Case studies and presentations - Debate - Discussion forums - Collaborative learning
Laboratory practical	In the laboratory practices will be carried out the practices related to the contents of the subject encouraging the resolution of problems in an autonomous way as well as the debate and case studies.

## Personalized assistance

Methodologies	Description
Lecturing	Students may request tutorials in person, by remote campus or via e-mail. Students may request tutorials in person, by remote campus or via e-mail.
Laboratory practical	Students may request tutorials in person, by remote campus or via e-mail.

Assessment					
Description		Qualification	Training and Learning Results		
Essay questions exam	None may be left unanswered.	35	A2	B2 B3	C1 C7 C9 C18 C19 C20
Laboratory practice	A practical exam - Role play where the student answers in a practical way to 2 - 3 assumptions. These practical cases are chosen at random by the student within the set of assessment methods and treatment techniques that were made throughout the course. A list will be drawn up in due time with the examination schedule of each student enrolled in the subject. In order to take the practical exam, the student must first take the theoretical exam.	35	A2	B2 B3	C14 C19 C20
Portfolio / dossier	The student will elaborate 3 dossiers, with a value of 10% of the grade each one. 1.- Complete evaluation of a respiratory patient. 2.- Treatment protocols using permeabilization techniques - Clinical case. 3.- Cardiorespiratory Exercise.	30	A2	B3	C1 C20

### Other comments on the Evaluation

All the questions of the exams must have an effective answer.

-CONTINUOUS EVALUATION: In the continuous evaluation modality the evaluation percentages are: -Theoretical exam (total 35%):-Practical Exam (Simulation or Role Playing): 35% (In order to take the practical exam the student must take the theoretical exam).-Portfolio/dossier: 3 portfolio documents with a value of 10% each. Of obligatory character.

To pass the subject the student must: obtain at least a 5 out of 10 in the theoretical exam and practical exam. (Both in the theoretical and practical exam, all the questions of the exams must have an effective answer). The overall grade of the course must be higher than 5 considering the different evaluation percentages. The written tests may include multiple-choice exercises, true/false exercises, element matching exercises, sentence completion exercises, response exercises with a specific term, resolution of clinical cases or interpretation of an image/graph, as well as other activities that have been developed throughout the course. Likewise, concepts of different topics can be evaluated in the same statement to check the assimilation of contents by the students.

GLOBAL EVALUATION (waiver of continuous evaluation):In the global evaluation modality the evaluation percentages are: - Theoretical exam (total 50%):-Practical Exam (Simulation or Role Playing): 50% (In order to take the practical exam the student must take the theoretical exam).

To pass the subject the student must: obtain at least a 5 out of 10 in the theoretical exam and practical exam. (In both the theoretical and practical exam, all the questions of the exams must have an effective answer). The overall grade of the course must be higher than 5 considering the different evaluation percentages. Students who do not wish to follow the continuous evaluation must notify in writing following the procedure established by the Faculty of Physiotherapy. The waiver to the continuous evaluation must be made in the 5th week of teaching, which means that the student will assume the global evaluation established in the subject. Once the continuous evaluation has been waived, the student will not be entitled to it, nor to the considerations established in it. In order to take the practical exam, the student must take the theoretical exam.

-EXTRAORDINARY EVALUATION- RECOVERY: In the recovery evaluation the same percentages are maintained as in the global evaluation. In addition, the same minimum requirements to pass the subject are maintained. To pass the subject the student must pass the theory exam and the practical exam (In order to take the practical exam the student must take the theory exam).All the questions of the exams must have an effective answer.In case of passing the theoretical tests, or the practical exam, the grade is preserved in the recovery call.

Other considerations: Regardless of the average grade obtained in the evaluation tests if the minimum requirements previously exposed are not met the grade obtained will be SUSPENDED. The failing grade will never be higher than 4.5. In all the calls and modalities to be able to take the practical exam must first take the theoretical exam. Therefore, it could be the case that a student obtains in the global evaluation, taking into account the percentages of the evaluation tests, a grade of 5 out of 10 or higher; however, if the student has failed some of the evaluation tests, the grade in the global evaluation will be a fail. The evaluation systems described in this Teaching Guide are sensitive both to the evaluation of the competences and to the contents of the subject. In order to take the practical exam, the student must take the theoretical exam.The presence of spelling mistakes in papers or written tests can lead to a failing grade. The Teaching Guide will follow the REGULATIONS ON THE ASSESSMENT, GRADING AND QUALIFICATION OF THE TEACHING AND LEARNING PROCESS OF STUDENTS,Approved at the April 18, 2023, as well as the specific adaptations for the Degree in Physiotherapy determined by the Xunta de Centro.

### Sources of information

### Basic Bibliography

Seco J, **Sistema Respiratorio Métodos, fisioterapia clínica y afecciones para fisioterapeutas**, Panamericana, 2018

West JB, Luks Andrew M, **Fisiopatología pulmonar. Fundamentos**, 9ª, Wolters Kluwer, 2017

Giménez, M. , Servera, E., Vergara,, **Prevención y Rehabilitación en Patología Respiratoria Crónica. Fisioterapia, entrenamiento y cuidados respiratorios**, 2ª, Médica Panamericana., 2004

Pleguezuelos, E; Miranda G; Gómez, A; Capellas L, **Rehabilitación integral en el paciente con enfermedad pulmonar obstructiva crónica**, Panamericana, 2008

### Complementary Bibliography

Postiaux G, **Fisioterapia respiratoria en el niño**, McGraw-Hill/Interamericana de España, 1999

### Recommendations

#### Subjects that continue the syllabus

Physical therapy in clinical specialties I/P05G171V01308

Physical therapy in clinical specialties II/P05G171V01309

#### Subjects that it is recommended to have taken before

Human anatomy: Medical-surgical conditions/P05G171V01107

Human anatomy: Human anatomy/P05G171V01101

Human anatomy: Medical conditions/P05G171V01201