



Teaching Guide

Teaching Guide				
Identifying Data				2018/19
Subject (*)	Advanced Cardiopulmonary Rehabilitation		Code	651516007
Study programme	Mestrado Universitario en Discapacidade e Dependencia (plan 2015)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	2nd four-month period	First	Optional	6
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias Biomédicas, Medicina e Fisioterapia			
Coordinador	Gonzalez Doniz, Maria Luz	E-mail	luz.doniz@udc.es	
Lecturers	Gonzalez Doniz, Maria Luz Lista Paz, Ana Souto Camba, Sonia	E-mail	luz.doniz@udc.es ana.lista@udc.es sonia.souto@udc.es	
Web				
General description				

Study programme competences

Code	Study programme competences
A10	CERF5. Ser capaz de integrar coñecementos avanzados no ámbito da disfunción cardiorrespiratoria
A11	CERF6. Capacidade para deseñar e executar proxectos de investigación nas disfuncións cardiorrespiratorias.
B2	CB7. Que os estudantes saiban aplicar os coñecementos adquiridos e a súa capacidade de resolución de problemas en ámbitos novos ou pouco coñecidos dentro de contextos máis amplos (ou multidisciplinares) relacionados coa súa área de estudo
B5	CB10. Que os estudantes posúan as habilidades de aprendizaxe que lles permitan continuar estudando dun modo que haberá de ser en boa medida autodirixido ou autónomo.
B7	CG2 Identificar, avaliar e resolver os problemas derivados da presenza de discapacidade e dependencia
B9	CG4 Ser capaz de intervir na problemática derivada da discapacidade e da dependencia
B10	CG5 Capacidade para integrar coñecementos científicos de carácter avanzado ligados ao ámbito da discapacidade e a dependencia
C6	CT6. Valorar críticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas aos que deben enfrontarse
C7	CT7. Ser capaz de valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade?

Learning outcomes

Learning outcomes	Study programme competences		
Reach the acquisition of knowledges advanced and show an understanding of the theoretical and practical appearances and of the methodology of work in the dysfunctions of the system cardiopulmonar with a depth that arrive until the avant-garde of the knowledge	AR10 AR11		
Be able of predict and control the evolution of complex situations, realising a systematic approximation to the assessment and treatment of the problems of the complex cardiopulmonar by means of the development of methodologies of work adapted to said field of knowledge, in his scientific slopes/researcher and professional.	AR11	BR2 BR7 BR9 BR10	
Capacity of clinical reasoning applied to the diagnosis capacity that guarantee the taking of safe clinical decisions and based in the evidence, as well as the critical analysis of the existent therapeutic procedures for the handle of the patient with dysfunction cardiorrespiratoria	AR10	BR2 BR7 BR9	CR6
Be able to evaluate and select the suitable scientific theory and the precise methodology to develop, implement and evaluate the plans of attention and/or the guides of clinical practice in patients cardiorrespiratorios	AR10	BR5	CR7
Have developed skills for the multidisciplinary work asistencial and/or of investigation in the dysfunction cardiorrespiratoria	AR11	BR2	



Contents	
Topic	Sub-topic
Module 1: I Handle advanced of the respiratory dysfunction	1. Bases of the respiratory pathophysiology and of the assessment of the respiratory patient. 2. Integral and multidisciplinary attention of the respiratory patient (control of factors of risk, nutritional support, pharmacology, physiotherapy, other therapeutic boardings). 3. Bases of treatment of the chronic pulmonary patient: programs of pulmonary rehabilitation, guides of clinical practice and scientific evidence. 4. Bases of treatment of the neuromuscular patient: guides of clinical practice and scientific evidence of the intervention fisioterápica. 5. Bases of treatment of the critical patient: guides of clinical practice and scientific evidence of the intervention fisioterápica. 6. The disability in the respiratory patient. Evaluation of the quality of life.
Module 2: I Handle advanced of the cardiovascular dysfunction	1. Bases of the pathophysiology cardiovascular and of the assessment of the cardiovascular patient. 2. Integral and multidisciplinary attention of the cardiovascular patient: guides of clinical practice and available scientific evidence. 3. Programs of cardiovascular rehabilitation: available scientific evidence. 4. The disability in the cardiovascular patient. Evaluation of the quality of life.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student's personal work hours	Total hours
Critical bibliographical	B5 C6	2	30	32
Laboratory practice	B7 B9	6	9	15
Supervised projects	A10 A11 B5 B10 C6	6	60	66
Seminar	A10 B2 B7 C6	5	0	5
Mixed objective/subjective test	A10 B2 B7	1	5	6
Guest lecture / keynote speech	A10 A11 B2 B7 B9 B10 C7	22	0	22
Personalized attention		4	0	4

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

Methodologies	
Methodologies	Description
Critical bibliographical	The bibliographic reviewing supposes a process of critical reading of a book, of an article, of a thesis or of a communication to a congress. As such process comprises the reading of the work, the analysis of his content and a criticism and assessment of the same in relation to the existent literature on the subject. A reviewing does not suppose a summary of the work, neither a mere analysis of the content, as what awards him sense and scientific academic dimension is the criticism that deserves to trial of the author of the reviewing, in relation to other works known of the same field or in relation to his own experience.
Laboratory practice	Methodology that allows that the students learn sure enough through the realisation of activities of practical character, such like demonstrations, exercises, experiments and investigations.
Supervised projects	Methodology designed to promote the autonomous learning of the students, under the tutela of the professor and in stages varied (academic and professionals). It is referred prioritariamente to the learning of the "how do the things". It constitutes an option based in the assumption by the students of the responsibility by his own learning. This system of education bases in two basic elements: the independent learning of the students and the follow-up of this learning by the professor-tutor.



Seminar	Technic of work in group that has like purpose the intensive study of a subject. It characterises by the discussion, the participation, the preparation of documents and the conclusions to which have to arrive all the components of the seminar. Methodologies of case study and resolution of problems will be developed.
Mixed objective/subjective test	Proof that integrates ask type of proofs of essay and ask type of objective proofs. Regarding questions of essay, collects open questions of development. Besides, in what objective questions, can combine questions of multiple answer, of ordenación, of brief answer, of discrimination, to complete and/or of association.
Guest lecture / keynote speech	Oral exhibition complemented with the use of audiovisual means and the introduction of some questions headed to the students, with the purpose to transmit knowledges and facilitate the learning. The masterclass is also known as %or201Cconferencia%or201D, %or201Cmétodo expositivo%or201D or %or201Clección magistral%or201D. This last modality is used to reserve to a special type of lesson given by a professor in special occasions, with a content that supposes an original preparation and based in the almost exclusive use of the word like road of transmission of the information to the audience. During the session magistral will integrate of punctual way the methodologies of discussion directed and aprendizaje based in problems.

Personalized attention	
Methodologies	Description
Mixed objective/subjective test Supervised projects	supervised work: it recommends the personalised attention to help to the student to elaborate his work, from the seleccion of the bibliographic sources, until his structuring and development. Mixed proof: it recommends the personalised attention to help to the student to resolve the doubts arisen of the preparation of the matter in his group. In the case of the student with reconocimieto of dedication part time and dispenses academician of exemption of asistencina, will realise a tutorización each fifteen days, in base to the reading of texts recommended and the preparation of infomres by part of the student that guarantee the suitable follow-up of the program.

Assessment			
Methodologies	Competencies	Description	Qualification
Mixed objective/subjective test	A10 B2 B7	Mixed proof type test with question develop	40
Critical bibliographical	B5 C6	Assessment of the reviewings contributed by the student along the cuatrimestre.	20
Supervised projects	A10 A11 B5 B10 C6	Assessment of the supervised work presented by the student.	30
Seminar	A10 B2 B7 C6	Presentation of reports and works derived of the grupal activity in the seminars	5
Laboratory practice	B7 B9	Assessment of the reports contributed of the practices	5

Assessment comments
The criteria of evaluation of first and second opportunity will be the same. The students enrolled part time will have of personalised attention along the course, with a tutoría twice-weekly.

Sources of information



Basic

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 - Giraldo Estrada, Horacio (2008). EPOC : Diagnóstico y tratamiento integral con énfasis en la rehabilitación pulmonar. Buenos Aires: Médica Panamericana
 - Booth S, Dudgeon D (2006). Dyspnoea in advanced disease. Oxford
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 - Patiño, JF (2015). Gases sanguíneos, fisiología de la respiración e insuficiencia respiratoria aguda . Bogotá: Panamericana
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 - Reid, W D (2004). Clinical Management notes and case histories in cardiopulmonary physical therapy. Thorofare, NJ : Slack
 - Badia X, Alonso J (2007). La medida de la salud: guía de escalas de medida en español. Barcelona : Edittec
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 - Harden B (2009). Respiratory physiotherapy : an on-call survival guide. Edinburgh : Churchill Livingstone/Elsevier
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 - Seco J (2018). Sistema Respiratorio: Afecciones Médico-Quirúrgicas. Métodos de intervención. Fisioterapia Clínica. Madrid: Editorial Médica Panamericana
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- GUÍA DE PRÁCTICA CLÍNICA PARA EL DIAGNÓSTICO Y TRATAMIENTO DE PACIENTES CON EPOC - Guía Española de la EPOC (GesEPOC-2012) Grupo de trabajo de GesEPO. Disponible en http://issuu.com/separ/docs/gu_a_gesepoc?e=3049452/6072699
- DISFUNCIÓN MUSCULAR DE LOS PACIENTES CON ENFERMEDAD PULMONAR OBSTRUCTIVA CRÓNICA (2015) Esther Barreiro, Víctor Bustamante, Pilar Cejudo, Joan B. Gáldiz, Joaquim Egea, Pilar de Lucas, Juana Martínez-Llorens, Francisco Ortega, Luis Puente-Maestu, Josep Roca, José Miguel Rodríguez González Moro. Disponible en https://issuu.com/separ/docs/normativa_67?e=3049452/31015859
- REHABILITACIÓN RESPIRATORIA (2014) María Rosa Güell, Salvador Díaz, Gema Rodríguez, Fátima Morante, Marta San Miguel, Pilar Cejudo, Francisco Ortega, Alejandro Muñoz, Juan Bautista Galdiz, Almudena García, Emilio Servera. Disponible en <https://www.dropbox.com/s/ouhxfcbmb5sdaje/Normativa%2064.pdf?dl=0>
- MANEJO DE LAS COMPLICACIONES RESPIRATORIAS DE LOS PACIENTES CON ENFERMEDAD NEUROMUSCULAR (2012) Eva.Farrero, Antonio Antón, Carlos J.Egea, M.José Almaraz, J.Fernando Masa, Isabel Utrabo, Miriam Calle, Héctor Vereá, Emilio Servera, Luis Jara, Emilia Barrot, Vinyet Casolívé Arch Bronconeumol. 2013;49:306-13. Disponible en <http://issuu.com/separ/docs/normativa59?mode=window&background-color=%23222222>
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Complementary	
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Recommendations

Subjects that it is recommended to have taken before

Research Methodology/651516001

Multimedia Tools in Research/651516002

Subjects that are recommended to be taken simultaneously

Resource Management in Health and Social Care in Disability and Dependency Situations/651516009

Subjects that continue the syllabus

Other comments

To help to achieve some sustainable immediate surroundings and fulfil with the strategic aims of the Plan Green Campus of the Faculty of Physiotherapy, the documentary works that realise in this matter will be able to request so much in format paper like virtual or computer support. To realise in paper, will be still in the measure of the possible the following general recommendations:- They will not use plastic.- They will realise impressions to double expensive.- It will employ paper recycled.- It will avoid the realisation of drafts

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.