

COURSE DATA	A					
Data Subject	33021 Pulmonary physiotherapy					
Code	33021					
Name	Pulmonary physiotherapy					
Cycle	Grade	19 CR	57			
ECTS Credits	6.0					
Academic year	2023 - 2024		/			
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Study (s)						
Degree	*	Center		Acad. Period year		
1202 - Degree in Physiotherapy		Faculty of Physiotherapy		3 First term		
Subject-matter						
Degree	486 58 4	Subject-matter	2000	Character		
1202 - Degree in Physiotherapy		13 - Specific intervention methods in physiotherapy		Obligatory		
Coordination						
Name		Depart	ment	<i>i</i> , / <u></u>		
CEBRIA I IRANZO, MARIA DELS ÀNGELS 191 - Physiotherapy						
MARTINEZ ARNAU	, FRANCISCO MIGUEL	- 191 - P	191 - Physiotherapy			

SUMMARY

The Respiratory Physiotherapy course pretends that the student developes knowledge, skills and attitudes which are necessary to plan, intervene and assess physiotherapy techniques in order to promote, prevent and recover health status in the different respiratory diseases

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.



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Other requirements

It is not necessary previous requirements.

OUTCOMES

1202 - Degree in Physiotherapy

- Respect fundamental rights and equality between men and women.
- Recognise diversity, multiculturality, democratic values and peace culture.
- Work in teams.
- Have the ability to organise and plan work.
- Acquire knowledge related to the information and communication technologies.
- Acquire sensitivity to environmental issues.
- Know how to plan treatment goals in the different pathologies of the locomotor, respiratory, cardiovascular and nervous systems from the data of the Physiotherapy Clinical Records.
- Know how to establish a therapeutic plan to reach the proposed goals.
- Know how to apply the different physiotherapy techniques for the promotion, prevention and health preservation in the pathologies of the locomotor, respiratory, cardiovascular and nervous systems. Know how to apply manual techniques, manipulative therapy, osteopathy and chiropractic techniques.
- Know how to evaluate the physiotherapy treatment applied.
- Know how to assess the results of the physiotherapy treatment.

LEARNING OUTCOMES

At the end of this course students should able to:

- 1.Know physiotherapy objectives in different respiratory diseases.
- 2.Plan an strategy of physiotherapy for promotion, prevention and health maintenance.
- 3. Apply physiotherapy techniques appropriately in different clinical situations.

4. Assess the results of physiotherapy intervention.

DESCRIPTION OF CONTENTS

1. Theoretical program

- 1. Respiratory Physiotherapy: introduction.
- 2. Clinical history: Anamnesis, physical examination and complementary exploration in respiratory diseases.
- 3. Respiratory function tests.
- 4. Arterial gasometry. Pulseoximetry and capnography.
- 5. Aerosol therapy.



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- 6. Respiratory muscle training and global physical training.
- 7. Ventilatory re-education.
- 8. Bronchial secretions drainage techniques (I).
- 9. Bronchial secretions drainage techniques (II).
- 10. Oxygen therapy.
- 11. Noninvasive Ventilation (NIV). Physiotherapy in the Sleep Apnea Syndrome (SAS).
- 12. Respiratory physiotherapy in obstructive diseases.
- 13. Respiratory physiotherapy in restrictive diseases.
- 14. Respiratory physiotherapy in thoracic and abdominal surgery.
- 15. Respiratory Physiotherapy in paediatrics.

2. Practical program

Practice 1. Introduction to practical program. Completion of the physiotherapy clinical record. Pulmonary auscultation.

Practice 2. Respiratory functional examination: Spirometry, flow/volume curve, maximal voluntary ventilation and maximal respiratory pressures. Ergometry.

Practice 3. Gas exchange. Blood gas analysis: normal and pathological values. Disturbances of acidbase balance. Respiratory failure: international classification. Aerosol therapy.

Practice 4. Ergometry. Global physical training and specific training of the ventilation muscles.

Practice 5. Breathing retraining techniques.

Practice 6. Techniques for bronchial secretions drainage(I).

Practice 7. Techniques for bronchial secretions drainage(II).

Practice 8. Oxygen therapy, noninvasive mechanical ventilation (NMV) and Sleep Apnea Syndrome (SAS).

Practice 9. Respiratory Therapy in chronic obstructive pulmonary disease patients.

Practice 10. Respiratory Therapy in restrictive pulmonary disease patients.

Practice 11. Clinical cases.

WORKLOAD

ACTIVITY	Hours	% To be attended
Laboratory practices	45,00	100
Theory classes	15,00	100
Study and independent work	33,00	0
Preparation of evaluation activities	33,00	0
Preparing lectures	24,00	0
TOTAL	150,00	



TEACHING METHODOLOGY

The theoretical teaching will take place in the classroom with the agenda for presentation (lecture type), indicating the student's bibliography consultation.

The practical training will consist of the implementation of different manual techniques and instruments. Videos will be presented with reports made to health centres that are related to surgical procedures, pulmonary function examinations, physiotherapy clinical assessments of patients. For all resources will be used and teaching laboratory equipment available in the Center for programs related to chest physiotherapy.

The teaching program might be modified during the development of the subject if the professor considers it appropriate, in order to guarantee the teaching quality and the learning process.

EVALUATION

Theoretical program (35% of the final mark)

1.Written test (35%): Multiple choice test with 25 questions, with one correct choice out of four in each question.

Score = [correct answers - (errors/n° options-1)]* (maximal score/n° questions)

Practical program (65% of the final mark)

1. Oral test (25%). Practical examination of the contents of the subject.

2. Clinical case (20%).Resolution of a case through a multiple choice test and short questions. 5 multiple choice test questions, with one correct choice out of four in each question. Score = [correct answers - (errors/n° options-1)]* (maximal score/n° questions). 2 short questions, with 50% of the score of the evaluation tool.

3. Continuous evaluation (20%). 2 activities on practical contents to be carried out during the class period.

The final grade for the course will be averaged when the student has obtained at least 50% of the maximum score on each of the programmes: theoretical program and practical program.

The score obtained for each of the tests (final exam, oral test, clinical case and continuous evaluation) will be saved between semesters.



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REFERENCES

Basic

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