

**Elective Subject
(ACADEMIC COURSE 2026-2027)**

Subject title: CLINICAL CASE STUDIES IN SPECIAL POPULATIONS IN PHYSICAL THERAPY

Code: 806085

Subject (character): Elective

Responsibility center: FACULTY OF NURSING, PHYSIOTHERAPY AND PODIATRY

Credits: 3 ECTS

Number of places offered: 45

	Total (32%)	Theory	Seminars	Practices	Others/tutorials
Classroom activities	24	11	10		3
Self-employment hours	51				
Total	75				

Course schedule: 4th of the course (1st semester):

- Friday 11 September 11:30-12:30
- Friday 18 September 11:30-12:30
- Friday 25 September 13:30-14:30
- Friday 2 October 11:30-12:30
- Tuesday 6 October 13:30-14:30
- Tuesday 13 October 13:30-14:30
- Tuesday 20 October 13:30-14:30
- Tuesday 27 October 13:30-14:30
- Tuesday 3 November 13:30-14:30
- Tuesday 10 November 13:30-14:30
- Tuesday 17 November 13:30-14:30

SEMINARS:

- Friday 25 September 11:30-13:30
- Friday 9 October 11:30-13:30
- Friday 16 October 11:30-13:30
- Friday 30 October 11:30-13:30
- Friday 13 November 11:30-13:30

TOPICS	TEMPORARY PERIOD
Presentation	1 week
Theme 1	2 week
Theme 2	3 week
Theme 3	4 week
Theme 5	5 week

Theme 6	6 week
Theme 4	7 week
Theme 7	8 week
Theme 7	9 week
Group work exhibition	10 week

Student profile (University Degrees for which they are offered, if applicable)

4th year student of Physiotherapy Degree. It is recommended that students have prior knowledge of aspects related to the fundamentals of physiotherapy, with the assessment in physiotherapy, with basic knowledge of pathophysiology and medical-surgical conditions, as well as methods and actions in physiotherapy.

BRIEF DESCRIPTION

To reach consensus on clinical judgments and physiotherapeutic approaches through group exposition and dissertation of the different aspects of the pathological processes.

OBJECTIVES

- **GENERAL OBJECTIVE:**
- To perform an adequate physiotherapeutic action in special pathologies involving the respiratory, nervous, cardiovascular and genitourinary systems, through a correct evaluation, identification of problems, setting goals and activity guidelines. In addition, he/she will be able to perform a correct clinical reasoning based on scientific evidence, understanding how to plan his/her intervention according to the objectives previously established in the assessment
- **SPECIFIC OBJECTIVES:**
- To know and apply good clinical practice guidelines.

ACADEMIC SKILLS

C.G.16 - To 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 has been demonstrated according to the state of development of science.

C.G.17 – To 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. Identify the situation of the patient/user through a physiotherapy care diagnosis, planning interventions and evaluating their effectiveness in a cooperative work environment with other health science professionals. Know and apply good clinical practice guidelines.

C.E.7 – To 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. Identify the situation of the patient/user through a physiotherapy care diagnosis, planning interventions and evaluating their effectiveness in a cooperative work environment with other health science professionals. Know and apply good clinical practice guidelines.

C.E.8 - To 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 has been demonstrated according to the state of development of science.

LEARNING OUTCOMES

C.T.I.1 Capacity for analysis and synthesis
C.T.I.3 Oral and written communication in the native language
C.T.I.6 Information management capacity
C.T.I.7 Problem resolution
C.T.I.8 Decision making
C.T.I.9 Teamwork
C.T.I.14 Critical reasoning
C.T.I.16 Independent learning

TEACHING ACTIVITIES (theoretical, practical, seminars, workshops, etc.)

Presentation in the classroom of the concepts and topics to be covered using the lecture method (10h) and seminars (14h) also in person. The student will have to do a group work (21h) (group preparation of specific topics that will be exposed and discussed in class), as well as 30h of individual study/learning (weekly preparation of the classes by searching and reading specialized scientific information).

Description of the methodology:

- Classes in small groups for the development, application, deepening of knowledge through different strategies: problem-based learning, problem solving, case studies, debates, exposition by student.
- Search and analysis of scientific information related to the proposed subject.
- Reinforcement of subject matter taught in class through analysis and commentaries of research articles.

CONTENT TOPICS



BLOCK I: Clinical Cases of Respiratory Pathology

Topic 1: Respiratory conditions in pediatric patients

Topic 2: Respiratory conditions in adult patients

BLOCK II: Clinical cases of neurological pathology

Topic 3: Neurological disorders in pediatric patients

Topic 4: Neurological disorders in adult patients

BLOCK III: Clinical cases in oncologic patients

Topic 5: Post-cancer sequelae

BLOCK IV: Clinical cases in pelvic floor dysfunctions

Topic 6: Pelvic floor disorders

BLOCK V: Clinical Cases of Cardiovascular Pathology

Topic 7: Cardiovascular conditions

EVALUATION



REGULAR CONVOCACTION			
EVALUATION ACTIVITY	WEIGHTING	REMARKS	MAXIMUM SCORE
Clinical case resolution work	80%	Development of a group clinical case, where diagnostic hypotheses should be established, and design of a physiotherapeutic treatment.	10
Attendance and participation. Continuous evaluation.	20%	Attendance, dedication, interest and collaboration of the student in the development of the course will be continuously assessed. *Absence from 2 or more lectures will result in the loss of the continuous evaluation. The maximum score for that student in the course will be an 8.	10
EXTRAORDINARY CALL			
EVALUATION ACTIVITY	WEIGHTING	REMARKS	MAXIMUM SCORE
Clinical case resolution work	100%	Development of an individual clinical case, where diagnostic hypotheses should be established, and design of a physiotherapeutic treatment.	10



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- Hill K, Chung F. Cardiopulmonary physical therapy. Management and case studies. Slack Incorporated, 2013
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- Cristancho W. Fundamentos de fisioterapia respiratoria y ventilación mecánica. 2o Edición. Manual Moderno. 2008. ISBN 978-95-8944625-6.
- Maroto JM. Rehabilitación Cardiovascular. 1a Edición. Editorial Médica Panamericana, 2010. ISBN: 978- 8498353173.
- Seco J. Sistema nervioso: Métodos, fisioterapia clínica y afecciones para fisioterapeutas. Madrid: Médica Panamericana; 2020
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- Paeth, B. Experiencias con el concepto Bobath, fundamentos-tratamiento-casos. Madrid: Médica Panamericana; 2006
- Perfetti, C. El ejercicio terapéutico cognoscitivo para la reeducación motora del hemipléjico adulto. Barcelona: Edika Med; 1999
- Stokes M. Fisioterapia en la rehabilitación neurológica. Madrid: Elsevier; 2006
- Carr JH, Shepherd RB. Rehabilitación de pacientes en el ictus: recomendaciones de ejercicios y entrenamiento para optimizar las habilidades motoras. Madrid: Elsevier; 2004
- Macías ML, Fagoaga J. Fisioterapia en Pediatría. 2ª Ed. Madrid: Panamericana, 2018.
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- Redondo MA, Conejero JA. Rehabilitación infantil. Madrid: Panamericana, 2012
- Espinosa J. Guía esencial de rehabilitación infantil. Madrid: McGraw-Hill Interamericana, 2010
- Cano R, Collado S. Neurorrehabilitación: Métodos específicos de valoración y tratamiento. Madrid: Médica Panamericana; 2012
- Walker Chao, Carolina. Fisioterapia en Obstetricia y Uroginecología. 2ª ed. Barcelona: Elsevier; 2013. ISBN: 978-84-458-2102-2.
- J. LATORRE, JL. CIUCCI, A. ROSENDO. Anatomía del sistema linfático del miembro inferior. Anales de Cirugía Cardíaca y Vascular 2005; 11 (3):147-156.
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- Espuña, M - Salinas, J. Tratado de uroginecología. Incontinencia Urinaria. 1ª ed. Ars Medica; 2004. ISBN: 9788495670632
- Rehabilitación del suelo pélvico femenino: práctica clínica basada en la evidencia. 1ª ed. Panamericana; ISBN: 9788491104759
- Guías clínicas de Fisioterapia: <https://gpcfisioterapia.wordpress.com/>
- Pubmed: <https://www.ncbi.nlm.nih.gov/>
- PEDro: <https://www.pedro.org.au/spanish/>
- <http://www.asociacionperfetti.com/>
- <http://www.modulacionpedagogica.com/>
- <http://www.estimulacionbasal.net/>
- <https://fisioterapiarespiratoria.org>

Teacher responsible (coordinator):

Name: Tamara del Corral Núñez-Flores

Department: Department of Radiology, Rehabilitation and Physiotherapy.

Teaching dedication: complete

Other teachers:

Name: RUTH BALLESTERO PÉREZ

Department: Department of Radiology, Rehabilitation and Physiotherapy.

Teaching dedication: parcial

Name: LAURA MARTINEZ MARTINEZ TERCERO

Department: Department of Radiology, Rehabilitation and Physiotherapy.

Teaching dedication: parcial

Name: Silvia Balaguer Gómez

Department: Department of Radiology, Rehabilitation and Physiotherapy.

Teaching dedication: parcial