

Medical-Surgical Pathology

Code: 103014
ECTS Credits: 6

Degree	Type	Year	Semester
2500892 Physiotherapy	FB	2	2

Contact

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Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

Teachers

Claudia Mariana Lamas Gomez

Prerequisites

To acquire the knowledge about of physio-pathological concepts and diagnostic techniques of the musculoskeletal

Objectives and Contextualisation

The subject is scheduled in the second year of the degree of physiotherapy and is part of the specific training. The knowledge of the musculoskeletal system pathology is crucial, as well as its basic medical and surgical treatments. The learning of physiotherapeutic applications in each pathology is also essential.

Competences

- Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- Analyse and synthesise.
- Display knowledge of the morphology, physiology, pathology and conduct of both healthy and sick people, in the natural and social environment.
- Make changes to methods and processes in the area of knowledge in order to provide innovative responses to society's needs and demands.

- 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.

Learning Outcomes

1. Analyse a situation and identify its points for improvement.
2. Analyse and synthesise.
3. Analyse the sex- or gender-based inequalities and the gender biases present in one's own area of knowledge.
4. Consider how gender stereotypes and roles impinge on the exercise of the profession.
5. Enumerate the medico-surgical treatments, mainly in the area of physiotherapy and orthopaedics, that are used in the principal diseases that can be treated by physiotherapy.
6. Explain the physiopathology of the principal diseases that can be treated by physiotherapy and identify the symptoms that appear during the process.
7. Identify situations in which a change or improvement is needed.
8. Identify the social, economic and environmental implications of academic and professional activities within one's own area of knowledge.
9. Propose new methods or well-founded alternative solutions.
10. Propose new ways to measure success or failure when implementing innovative proposals or ideas.
11. Propose projects and actions in accordance with the principles of ethical responsibility and respect for fundamental rights, diversity and democratic values.
12. 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.
13. Weigh up the risks and opportunities of suggestions for improvement: one's own and those of others.

Content

PROGRAM

THEORY

- 1- Joint degenerative pathology. Osteoarthritis, arthroplasty, arthrodesis
- 2- Joint inflammatory pathology. Arthritis
- 3-Fractures. Generalities
- 4-Fracture repair process
- 5-Methods of containment of fractures
- 6-Complications of consolidation
- 7-Principles of osteosynthesis
- 8- Muscle pathology
- 9- Inflammatory and bursal pathology
- 10- Peripheral nerve injuries
- 11- Physeal injuries. Fractures in the child
- 12- Infections in the Skeletal System
- 13- Infections in the musculoskeletal system II
- 14-Traumatic tendon injuries
- 15- Femur fractures. hip lux
- 16-Hip fractures (Dr. Perelli)
- 17-Fx diaphyseal and supracondylar femur.
- 18- Fx patella and extensor apparatus
- 19-Meniscal knee injuries
- 20- Ligamentous knee injuries
- 21-Fx proximal and diaphyseal tibia
- 22- Fx and ankle dislocations
- 23- Fx and dislocations of the foot

- 24- Shoulder dislocations
- 25- Fracture of proximal humerus.
- 26- Shaft fractures of the humerus
- 27- Fractures around the elbow
- 28- Forearm and wrist fractures
- 29- Fractures of the carpus and hand
- 30- Spinal pain. spinal pathology
- 31- Vertebral Fx
- 32- Non-traumatic pathology of the shoulder (rotary cuff)
- 33- Non-traumatic pathology of the elbow
- 34- Non-traumatic pathology wrist and hand

Other entities:

- 35-Main oncological pathology
- 36-Most prevalent thoracic, cardiac and abdominal surgery
- 37-Vascular surgery (eess/eeii amputation)

SEMINARS

- SEMINAR 1. Material for osteosynthesis and implants
- SEMINAR 2- Musculotendinous ultrasound evaluation
- SEMINAR 3 -RX session. Interpretation of complementary examinations
- SEMINAR 4 -Lower extremity clinical cases
- SEMINAR 5-Upper extremity clinical cases
- SEMINAR 6-Mastectomy and functional consequences
- SEMINAR 7-Oncology

SEMINAR 8-

Methodology

Teaching is based on theoretical-practical classes.

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			
SPECIFIC SEMINAR (SESP)	10	0.4	
THEORY (TE)	35	1.4	2, 5, 6
Type: Supervised			

TUTORIALS	14.5	0.58	5, 6
Type: Autonomous			
CRITICAL READING OF SCIENTIFIC RESEARCH	30	1.2	2, 5, 6
DEVELOPEMENT OF HOMEWORK	30	1.2	2, 5, 6
HOME STUDY	29	1.16	2, 5, 6

Assessment

SINGLE ASSESSMENT

Those students who request it according to the established circuit may take advantage of the single evaluation, taking all the evaluations on the same date and without it being compulsory to attend the PLABs or any other teaching activity. The final evaluation will be the average between the written evaluations. Written evaluation is 95% and 0-5% general skills.

Evaluation

-First TEST: Test with 5 options, only one correct. There will be 20 questions, will score on 10 and will average with the 2nd test. 2 wrong answers subtract 1 correct. Date to be determined with students The exam will evaluate the knowledge of the topics 1-17

-Second TEST: Test with 5 options, only one correct. There will be 20 questions, will score on 10 and will average with the 1st test. 2 wrong answers subtract 1 correct. Date to be determined with students The exam will evaluate the knowledge of the topics 18-34

-Assistance to classes: Attendance at 80% or more of the classes will add to the final grade 0'5 points. If after the average of the 2 test and class attendance a 5 or more is obtained, the subject will be considered as approved and it will not be necessary to take the final exam.

-Recovery exam: Written exam to which students who have not reached 5 after the other two exams may be presented. Date determined by the UAB. Development test with 5 questions (to choose 4 of them, each question scores 2.5 points)

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Class attendance and active participation	0-5%	0.5	0.02	2
General skills	0-5%	0	0	2, 3, 1, 5, 6, 8, 7, 13, 9, 10,

Written evaluation by objective tests: multiple choice questions	95%	1	0.04	5, 6
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Bibliography

SPECIFIC BIBLIOGRAPHY

- Lecciones básicas en Cirugía Ortopédica y Traumatología. Ignacio Proubasta. Ed Permanyer (se dara copia a los alumnos en PDF)
- Fracturas en el adulto. Rockwood and Green. Marban libros. Madrid 2003.
- Campbell. Cirugía Ortopédica. Elsevier-Mosby. Madrid 2004.
- Manual de Cirugía Ortopédica y Traumatología se la Sociedad Española de Cirugía Ortopédica y Traumatología (SECOT). 2ª Edición. Madrid 2010. Ed. Panamericana
- Patología del Aparato Locomotor. Tomas Jolín y Antonio Silvestre. Ed. Síntesis. Madrid 1996.

SUPPORT BIBLIOGRAPHY

- Biología y biomecánica de las fracturas. Perren P.S. Masson Barcelona 2003.
- Ortopedia Infantil cotidiana. Dimeglio A. Masson Barcelona 1991.
- Apuntes de ortopedia infantil. Julio de Pablos. Ed ergon SA. 2000
- Manual AO de Osteosíntesis.

INTERNET WEBPAGES

- www.ncbi.nlm.nih.gov/pubmed
- www.secot.es
- www.efisioterapia.net
- www.sedolor.es
- www.sefidsp.es
- www.aefi.net
- www.sermef.es

Software

Microsoft PowerPoint