



## IDENTIFYING DATA

### Human anatomy: Medical-surgical conditions

Subject	Human anatomy: Medical-surgical conditions			
Code	P05G171V01107			
Study programme	Grado en Fisioterapia			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	9	Basic education	1st	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	Maceiras García, María Lourdes			
Lecturers	Maceiras García, María Lourdes			
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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.
B1	To know how to work in professional teams as a basic unit in which professionals and other personnel of health care organizations are structured in a uni or multidisciplinary and interdisciplinary way.
C3	Identify the psychological and social factors that influence the state of health or disease of individuals, families and community.
C8	Recognize life-threatening situations and know how to perform basic and advanced life support maneuvers.
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.
C13	Have the ability to assess from the perspective of physiotherapy, the functional status of the patient/user, considering the physical, psychological and social aspects of the same.
C21	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 professionals in health sciences.
C34	To know and understand the morphology, physiology, pathology and behavior of people, both healthy and sick, in the natural and social environment.
C37	To acquire adequate clinical experience that provides intellectual abilities and technical and manual skills; that facilitates the incorporation of ethical and professional values; and that develops the capacity to integrate the acquired knowledge.
C38	Intervene in the areas of health promotion, prevention, protection and recovery.
D1	Ability to communicate orally and in writing in Galician.
D7	Maintain an attitude of learning and improvement.

## Expected results from this subject

Expected results from this subject	Training and Learning Results	
New	A2	C3 C9 C13 C21 C34 C38

New	A2		C3 C9 C13 C34 C38	D1 D7
New	A2	B1	C3 C9 C13 C34 C37 C38	D1
New	A2		C3 C9 C21 C34 C38	D1 D7
New	A2		C21 C34 C38	D7
New	A2	B1	C3 C9 C13 C21 C34	D7
New	A2	B1	C3 C34 C38	D1 D7
New	A2	B1	C3 C8 C9 C13 C34 C38	D1 D7

## Contents

Topic	
UNIT I	MEDICAL ILLNESS
General concepts.	Historical evolution of diseases. Differential elements of diseases. Relations between pathology and clinic.
Agents that affect the organism globally producing diseases.	Physical agents. Chemical substances. live agents. Endogenous factors of the disease. Forms of nonspecific reaction. Immunological mechanisms of the disease. Cell injury and death. Neoplasms. Aging.
Locomotive apparatus.	Functions. Affections of the skeletal striated musculature. Woven bone; quantitative and qualitative conditions of bone remodeling. joints; inflammatory arthropathies; degenerative arthropathies.
Kidneys and urinary tract.	Functions. manifestations of these diseases. Kidney affections; acute and chronic insufficiencies. Urinary tract affections.
Blood and hematopoietic organs.	Functions. Affections of the red series. Affections of the white series. Diseases of the lymphoid organs. Hemostasis disorders.
Endocrine system.	Functions. Affections of the hypothalamic-pituitary axis. Thyroid conditions. Affections of the adrenal glands. Gonad affections. Affections of the parathyroid glands.
Metabolism.	Functions. Carbohydrate metabolism disorders. Disorders of lipid metabolism. Disorders of protein and amino acid metabolism. Trace elements. Hydrosaline balance. Acid-base balance. Nutrition.
UNIT II	SURGICAL ILLNESS
INTRODUCTION TO SURGICAL DISEASES.	- Pain in the locomotor system. - Inflammation. - Secondary general reaction.
BASIC SURGICAL DISEASES.	- Wounds. Asepsis. - Crushing syndrome. - Burns. - Surgical infections. - Oncologic surgery. - Anesthesia. - Auxiliary diagnostic methods. - Complications of surgery.

PERIPHERAL NERVOUS SYSTEM.	<ul style="list-style-type: none"> <li>- Structure and function of the peripheral nervous system.</li> <li>- Aggression, regeneration and degeneration.</li> <li>- Compression syndromes.</li> </ul>
MUSCLE PATHOPHYSIOLOGY.	<ul style="list-style-type: none"> <li>- Physiology, muscle repair.</li> <li>- Trauma. Tumors. Arthrogryposis.</li> <li>- Compartment syndrome.</li> <li>- Pediatric neuromuscular pathology.</li> <li>- Tendons.</li> <li>- Ligaments.</li> </ul>
BONE.	<ul style="list-style-type: none"> <li>- Bone organization.</li> <li>- Fractures. complications.</li> <li>- Bone infections.</li> <li>- Bone diseases.</li> <li>- Tumors and pseudotumoral lesions.</li> </ul>
JOINTS.	<ul style="list-style-type: none"> <li>- Trauma. Dislocations. sprains.</li> <li>- Rigidity and ankylosis.</li> <li>- Joint infections.</li> <li>- Osteoarthritis surgery.</li> <li>- Intra-articular free bodies.</li> <li>- Neuropathic arthropathy.</li> </ul>
INJURIES, AMPUTATIONS / REIMPLANTS / PROSTHESIS.	<ul style="list-style-type: none"> <li>- Polytraumatized. ATLAS.</li> <li>- Protocol of action with injured.</li> <li>- Shock.</li> <li>- Amputations.</li> <li>- Replantations.</li> <li>- Prosthesis.</li> <li>- Orthotics.</li> </ul>
LOCOMOTOR SYSTEM SURGERY.	<ul style="list-style-type: none"> <li>- Arthroscopy.</li> <li>- Osteosynthesis.</li> <li>- Minimally invasive surgery.</li> <li>- Joint implants.</li> <li>- Robotic surgery and navigation.</li> </ul>
THORACIC SURGICAL DISEASES.	<ul style="list-style-type: none"> <li>- Heart surgery.</li> <li>- Thoracic surgery.</li> <li>- Mother.</li> </ul>
ABDOMINAL SURGICAL DISEASES.	<ul style="list-style-type: none"> <li>- Abdominal wall.</li> <li>- Digestive.</li> <li>- Urology.</li> <li>- Gynecology and Obstetrics.</li> </ul>
VASCULAR SURGICAL DISEASES.	<ul style="list-style-type: none"> <li>- Arterial.</li> <li>- Venous. Thrombosis.</li> </ul>
NEUROSURGICAL AND ENDOCRINE DISEASES.	<ul style="list-style-type: none"> <li>- Neurosurgery.</li> <li>- Endocrine surgery.</li> </ul>
SEMINARS A. Medical:	<ul style="list-style-type: none"> <li>- First aid and life support; cardiopulmonary resuscitation (CPR) (1).</li> <li>- First aid and life support; cardiopulmonary resuscitation (CPR) (2).</li> <li>- Neoplasms.</li> <li>- Aging.</li> </ul>
SEMINARS A. Surgical:	PRACTICE Nº1: PAIN, INFLAMMATION AND WOUNDS. PRACTICE Nº2: NEUROLOGICAL AND MUSCULAR INJURIES. PRACTICE Nº3: FRACTURES. PRACTICE Nº4: PROSTHESIS AND INJURIES. PRACTICE Nº5: CARDIAC AND THORACIC SURGERY. PRACTICE Nº6: ABDOMINAL SURGERY AND OBESITY.

### Planning

	Class hours	Hours outside the classroom	Total hours
Introductory activities	2	0	2
Seminars	24	40	64
Lecturing	52	105	157
Objective questions exam	2	0	2

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

### Methodologies

	Description
Introductory activities	Activities aimed at making contact and gathering information about the students, as well as presenting the subject.

Seminars	They will consist of practices, clinical cases, activities and works, which will allow delving into the contents of the subject. In them they will interact with the students, encouraging their active participation, responding to what they need and motivating that there is also interaction between the students. There will also be a folder: a compilation of the students' work with the aim of showing their efforts, progress and achievements in the matter. They will be used as a complement to the theoretical classes.
Lecturing	The theoretical classes will be presentations of the contents on the matter under study. They will be participatory and the didactic consultation, debate, case study and problem solving strategies will be used. In them they will interact with the students responding to what they need and motivating that there is also interaction between the students. Following the Bologna Process, learning will be increasingly based on the student body and its active and participatory learning.

### Personalized assistance

Methodologies	Description
Lecturing	Organization of the work of the students: for the development of the theoretical teaching, a group A or large group will be made. // All information about teaching and changes and recommendations will be sent through the tele-teaching platform of the University of Vigo. // Tutorials: They can be carried out in groups or individually, with a view to academic, professional and personal guidance and advice. They will be carried out during the hours officially established for the tutorials and in the office of the teaching staff of the subject, being 6 hours a week. They can also be done in the virtual office of the teaching staff of the subject, by email to the email address of the teaching staff indicating in the subject line: TUTORIALS, or through the forums of the tele-teaching platform. If they are held in person at the office or at the remote Campus office, it will be necessary to arrange them in advance.
Introductory activities	Students have to register on the tele-teaching platform of the University of Vigo, fill in the virtual file by providing their data and a photo, and participate in the activities that are carried out through it, for the correct follow-up of the subject: theory, seminars, papers, exams and everything that is done in the matter.
Seminars	Organization of the work of the students: for the development of the seminars there will be three groups B or medium groups. // All the information about the seminars and the changes and recommendations will be sent through the tele-teaching platform of the University of Vigo. // Tutorials: They can be carried out in groups or individually, with a view to academic, professional and personal guidance and advice. They will be carried out during the hours officially established for the tutorials and in the office of the teaching staff of the subject, being 6 hours a week. They can also be done in the virtual office of the teaching staff of the subject, by email to the email address of the teaching staff indicating in the subject line: TUTORIALS, or through the forums of the tele-teaching platform. If they are held in person at the office or at the remote Campus office, it will be necessary to arrange them in advance.

### Assessment

Description	Qualification	Training and Learning Results
Seminars Assistance and active participation of students in the development of seminars; In addition, the students will prepare, individually, an outline and summary of the topic that will be worked on in the seminar, and it will be delivered at the end of it, personally or through Moovi. In some seminars, written questions will be asked that must be answered in them.	20	B1 D1
Lecturing Theoretical knowledge:	80	B1 C38 D1
Medical Unit: Objective questions exam, in which each question will have four answer options, and only one of them will be valid. Each correctly answered question will count 1 point; those left blank will not deduct points; each wrong answer will subtract 0.25. The note will correspond to the scale between 0 and 10, and the pass will be in the middle of the score: 5.		
Surgical Unit: Objective questions exam, in which each question will have four answer options, and only one of them will be valid. Each correctly answered question will count 1 point; those left blank will not deduct points; each wrong answer will subtract 0.25. The note will correspond to the scale between 0 and 10, and the pass will be in the middle of the score: 5.		

### Other comments on the Evaluation

This matter consists of two units: Unit I: Medical Conditions and Unit II: Surgical Conditions. The evaluation will be made of

each unit separately, being necessary, in order to pass the subject, to pass the two units independently; and, within them, each of its parts: theory and seminars, also independently.

Medical Unit: the theoretical knowledge exam will count for 40% and the seminars for 10%.

Surgical Unit: the theoretical knowledge exam will count for 40% and the seminars for 10%.

The final mark will be the average of the two units, if both are approved or failed. If only one unit, or part of it, is passed, that pass will be kept within the same academic year (until July) but not from one course to the next, and the mark will be that of the failed part.

CONTINUOUS ASSESSMENT: It is the preferred option and the one offered by default. In the continuous assessment, the students will perform:

\* A partial exam of theoretical knowledge once half of the theoretical content has been completed: it will count for 40% of the final grade: 20% for the Medical Unit and 20% for the Surgical Unit; It will be carried out within the schedule assigned to the classes of the subject. If it is suspended, it cannot be recovered in the ordinary call and it will go with this part to the exam of the 2nd opportunity.

\* Another partial exam of theoretical knowledge in the ordinary call: 40% of the final grade will count: 20% from the Medical Unit and 20% from the Surgical Unit.

\* Seminars: they will be evaluated as explained in the upper section.

GLOBAL ASSESSMENT (if the continuous evaluation is waived): Students who do not want to follow the continuous evaluation must notify it in writing, following the procedure established in the Faculty of Physiotherapy. Waiving continuous assessment must be done in the 5th week of teaching, which means that the global assessment established in the subject will be assumed. Once the resignation to the continuous evaluation has been made, there will be no right to it; Choosing the global assessment modality means waiving the right to continue evaluating the activities of the continuous assessment modality that remain to be done and the qualification obtained up to that moment in any of the tests that have already taken place. In this case, partial exams will not be carried out. There will be a global evaluation test: a theoretical knowledge exam on the official date of the ordinary call, which will count for 80% of the final grade: 40% for the Medical Unit and 40% for the Surgical Unit. To this score will be added 20% of the mark of the seminars, evaluated as explained in the upper section.

2nd CHANCE ASSESSMENT: It is an extraordinary evaluation, of recovery of the subject, or parts of it, failed.

The students who have done continuous evaluation and have failed any of the partial exams, should only be examined from them. It will have the same evaluation criteria as in the ordinary call in this modality.

The students who have renounced the continuous evaluation and have adhered to the global evaluation, will have the same evaluation criteria as in the ordinary call in this modality.

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## Sources of information

### Basic Bibliography

Pérez Arellano, JL., **Sisinio de Castro. Manual de Patología General.**, Elsevier,

Laso FJ., **Introducción a la medicina clínica. Fisiopatología y semiología.**, Elsevier,

Brunicardi FC, Andersen DK, Billiar TR, Dunn DL, Hunter JG, Matthews JB, Pollock RE., **Schwartz. Principios de cirugía.**, Mc Graw Hill / Interamericana,

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Seco J.(dir)., **Afecciones médicoquirúrgicas para fisioterapeutas. Sistema músculoesquelético.**, Médica Panamericana,

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Hoppenfeld, S., **Exploración física de la columna vertebral y extremidades.**, Manual Moderno,

### Complementary Bibliography

Rozman C, Cardellach F (eds)., **Farreras & Rozman. Medicina interna.**, Elsevier,

Sociedad Española de Reumatología (SER)., **Manual SER de las enfermedades reumáticas.**, Elsevier,

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Delgado Martínez, AD., **Cirugía ortopédica y traumatología.**, Médica Panamericana,

Barberà JA, Peces-Barba G, Agustí AGN, Izquierdo JL, Monsó E, Montemayor T, Viejo JL, Grupo de traba, **Normativa SEPAR. Guía clínica para el diagnóstico y tratamiento de la enfermedad pulmonar obstructiva crónica.**, Arch Bronconeumol. 2001;37(6):297-316.,

Ropper AH, Samuels MA, Klein JP, Prasad S., **Adams y Victor. Principios de neurología.**, Mc Graw Hill,

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## Recommendations

### Subjects that continue the syllabus

Human anatomy: Medical conditions/P05G171V01201

Human anatomy: Surgical conditions/P05G171V01202

Physiotherapy in lymphedema/P05G171V01310

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### Subjects that are recommended to be taken simultaneously

Human anatomy: Human anatomy/P05G171V01101

