



IDENTIFYING DATA

Manual Therapy

Subject	Manual Therapy			
Code	P05G171V01206			
Study programme	Grado en Fisioterapia			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	9	Mandatory	2nd	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	Abalo Núñez, María del Rocío			
Lecturers	Abalo Núñez, María del Rocío Alonso Calvete, Alejandra			
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General description	It is a compulsory matter of the 2º course of the Title of Degree of Physiotherapy (gives in the 2º *cuatrimestre). In her it studies the therapeutic use of the technicians of manual therapy Because of his contents, is important to have previous knowledges on anatomy, physiology, and assessment (palpatory anatomy).			

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.
B3	Communicate effectively and clearly, both orally and in writing, with users of the health system as well as with other professionals.
C1	To know the principles and theories of physical agents and their applications in physical therapy.
C15	Understand ergonomic and anthropometric principles.
C16	Analyze, program and apply movement as a therapeutic measure, promoting the participation of the patient/user in the process.
C17	Know, design and apply the different modalities and general procedures of intervention in Physiotherapy: Massage Therapy, Electrotherapy, Magnetotherapy, Hydrotherapy, Balneotherapy, Climatotherapy, Thalassotherapy, Thermotherapy, Cryotherapy, Vibrotherapy, Phototherapy, Pressure Therapy, therapies derived from other physical agents, as well as fundamental aspects of Ergotherapy and other therapies related to the field of competence of physiotherapy.
C19	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 is demonstrated according to the state of development of science.
C20	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.
C30	To know the professional ethical and deontological codes.
C36	To know and understand the methods, procedures and physiotherapeutic actions, aimed at both the actual therapy to be applied in the clinic for the reeducation or functional recovery, as well as the implementation of activities aimed at the promotion and maintenance of health.
D1	Ability to communicate orally and in writing in Galician.
D8	Ability to understand the meaning and application of the gender perspective in different areas of knowledge and professional practice with the aim of achieving a more just and egalitarian society.

Expected results from this subject

Expected results from this subject	Training and Learning Results
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New			C1 C15 C30	
New			C1 C16 C17 C19 C20 C36	
New	A2	B3	C1 C16 C20 C36	
New	A2	B3	C15 C16 C17 C19 C20 C36	D1 D8
New	A2	B3	C16 C20 C30 C36	D1 D8

Contents

Topic	
Manual therapy	-Concepts of the manual therapy -Evolution of the manual therapy -Classification of the manual technicians -Indications and contraindications of the manual therapy
Neurophysiological mechanisms	-Mechanisms associated to the pain -Neurophysiological effects of the manual therapy -Mechanical effects of manual therapy -Analgesic effects of the manual therapy
Clinical reasoning in manual therapy	-Concept of the clinical reasoning -Bases of the clinical reasoning -Models of the clinical reasoning
Clinical evaluation of the patient	-Diagram of movement -Subjective and physical examination -Assessment nervous -Red and yellow Flags
Technicians in manual therapy	-Manual therapy in the pelvis -Manual Therapy in the rachis -Manual Therapy in the extremities

Planning

	Class hours	Hours outside the classroom	Total hours
Introductory activities	2	0	2
Lecturing	27	57	84
Laboratory practical	44	88	132
Problem solving	3	0	3
Objective questions exam	2	0	2
Laboratory practice	1	0	1
Systematic observation	1	0	1

*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	Activity directed the presentation of the matter as well as gather information of the students
Lecturing	Exhibition of the contents by part of the/the educational. Theoretical classes-participatory where boost the active participation of the students employing half audiovisual
Laboratory practical	Demonstration by part of the *profesorado of the technicians that the students will make by couples with the supervision of the/the educational.
Problem solving	Proposal of clinical cases in which following the guidelines of the clinical reasoning arrive to the treatment applying the manual therapy

Personalized assistance	
Methodologies	Description
Introductory activities	The personalized attention will be focused on the resolution of doubts that the students may have in relation to the organization of the subject.
Lecturing	Personalized attention will be focused on resolving doubts that students may have in relation to the subject through face-to-face tutorials, email and/or remote campus.
Laboratory practical	Personalized attention will be focused on resolving doubts that students may have in relation to practical content collectively/individually in person or through the remote campus
Problem solving	The personalized attention will be focused on the resolution of doubts that the students may have in the sessions collectively and/or individually.

Assessment					
	Description	Qualification	Training and Learning Results		
Lecturing	Exam of objective questions at the end of the academic period	40	A2	B3	C15 C17 C20 C30
Laboratory practical	Demonstration and/or explanation of manual therapy techniques	40	A2	B3	C15 C16 C17 C19 C20 C30 C36
Systematic observation	Attendance, attitude and participation will be valued. To do this, students must attend 80% of the practical classes	20	A2	B3	C15 C16 C17 C19 C20 C30 C36

Other comments on the Evaluation

Students may request their right to global evaluation within a month (50% theoretical exam and 50% practical exam). To pass the subject, students must have independently passed the theoretical and practical exam and have attended 80% of the practical classes. In case of not attending, you will lose the right to continuous evaluation. In order to sit the practical exam, it is mandatory to sit and take the theoretical exam. Students who have one of the approved parts will keep the passed part for the next call within the same academic year. **2nd chance** The students can be examined 100% of the subject, 50% objective questions exam and 50% practical part exam. To pass the subject, students must independently pass the theoretical and practical exam.

In any of the calls, if the students obtain a numerical grade greater than 5, but do not meet the requirements established to pass the subject, they will have a grade of 4.5 (failed). In case of lower grades, the grade obtained will be given

Sources of information

Basic Bibliography

Jones MA, Rivvett DA, **Clinical Reasoning for Manual therapists**, 2º, Elsevier, 2019
 Bucher-Dollenz G, **El concepto Maitland. Su aplicación en fisioterapia**, Panamericana, 2010
 Higgs J, Jones M, Lofus s, Christensen N, **Clinical reasoning in the health professions**, Elsevier, 2009
 Maitland G, **Maitland Manipulación Vertebral**, 7º, Elsevier, 2007
 Maitland G, **Maitland Manipulación Periférica**, 4º, Elsevier, 2007
 Boyling JD, Jull GA, **Grieve: Terapia Manual Contemporánea. Columna vertebral**, 3º, Elsevier, 2006
 Petty N, Moore A, **Exploración y evaluación neuromusculoesquelética: un manual para terapeutas**, 2º, McGraw-Hill Interamericana, 2003

Complementary Bibliography

Seco J, **Métodos Específicos de Intervención en Fisioterapia. Serie Sistema Músculo-Esquelético**, 2º vol, Panamericana, 2016
 Torres Cuelco R, **La Columna Cervical síndromes clínicos y su tratamiento manipulativo**, Panamericana, 2008
 Parsons J, Marcer N, **Osteopatía. Modelos de diagnóstico, tratamiento y práctica**, Elsevier, 2007

Recommendations

Subjects that it is recommended to have taken before

Human anatomy: Medical-surgical conditions/P05G171V01107

Human anatomy: Human anatomy/P05G171V01101

Biochemistry-Physics: Biochemistry and biophysics/P05G171V01103

Physiology: Human physiology/P05G171V01102

Physiology: Functional movement in physiotherapy/P05G171V01105

Physiotherapy evaluation/P05G171V01108

Kinesitherapy/P05G171V01203
