



IDENTIFYING DATA

Physical Therapy in Pediatrics

Subject	Physical Therapy in Pediatrics			
Code	P05G171V01307			
Study programme	Grado en Fisioterapia			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	3rd	1st
Teaching language	Spanish			
Department				
Coordinator	Monge Pereira, Esther			
Lecturers	Monge Pereira, Esther			
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Web				
General description	(*)Materia optativa de 6 créditos, dirixida a estudar os recursos de fisioterapia existentes para a toma de decisións de abordaxe terapéutica entre a variedade de problemas que poden alterar o desenvolvemento motriz nos pacientes pediátricos.			

Training and Learning Results

Code	
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.
B2	Incorporate the ethical and legal principles of the profession into professional practice and integrate social and community aspects into decision making.
C7	Know the physiological and structural changes that can occur as a result of the application of physiotherapy.
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.
C16	Analyze, program and apply movement as a therapeutic measure, promoting the participation of the patient/user in the process.
C18	Encourage the participation of the user and family in their recovery process.
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.
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.
C38	Intervene in the areas of health promotion, prevention, protection and recovery.
D1	Ability to communicate orally and in writing in Galician.
D4	Creativity, entrepreneurial spirit and adaptation to new situations.
D7	Maintain an attitude of learning and improvement.
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		
New	B2	C9 C20 C21 C38	D1 D4 D7

New		C7 C9	D1
New	B1	C7 C9 C16 C19 C21	D1 D7
New	B1 B2	C7 C9 C16 C18 C19 C20 C21 C38	D1 D7
New	B1 B2	C7 C9 C16 C18 C19 C20 C21 C38	D1 D7 D8

Contents

Topic	
Psychomotor development process	- Primitive reflexes. - Ontogenesis 0-12 months.
Prevalent pathological processes in pediatrics	- Cerebral palsy and related pathologies. - Congenital pathologies. - Respiratory pathologies. - Orthopedic pathologies.
Functional assessment in pediatrics	- Classification scales. - Functional assessment scales.
Physiotherapy intervention in pediatrics	- Estimulación temprana. - Abordaje del cólico del lactante. - Métodos específicos de intervención en fisioterapia: Bobath, Vojta, Le Meteyer, Castillo Morales. - Fisioterapia respiratoria en pediatría. - Intervención de fisioterapia en entornos educativos. - Adaptación y elaboración de ayudas posturales y de movilidad que ayuden al niño a nivel estructural, funcional, de actividad y participación.
Psychomotor stimulation programs	- Directed psychomotricity protocols. - Pediatric yoga.

Planning

	Class hours	Hours outside the classroom	Total hours
Introductory activities	1	0	1
Presentation	1	0	1
Lecturing	22	64	86
Laboratory practical	32	20	52
Mentored work	1	0	1
Discussion Forum	0	1	1
Presentation	1	0	1
Debate	4	0	4
Problem and/or exercise solving	0	2	2
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	They will have the purpose of transmitting the objectives and planning of the subject, as well as clarifying the evaluation criteria to follow.
Presentation	Presentation and defense by the student before the teacher and the students of the supervised work.

Lecturing	The theoretical classes will be participatory and they will use the study of cases, the debate and the resolution of problems. The student will have at his disposal in MOOVI notes that will serve as a guide for the exam and prior study of certain activities.
Laboratory practical	The experimental demonstration, the role playing, the didactic treatment of errors and the systematic training will be used. The teacher will demonstrate how the assessment and/or treatment protocol should be carried out, then the students will carry out the practice in pairs among themselves, being corrected by the teacher and clarifying any doubts that may arise. In the correction, the position of the user/patient, the shots and contraptories made, as well as the execution of the maneuver and the ergonomics of the student who is doing the practice will be taken into account. Likewise, the learning attitude of the students will be taken into account.
Mentored work	El alumnado deberá elaborar, exponer y defender un trabajo en grupo.
Discussion Forum	There will be a discussion forum available to students to ask and resolve doubts, so that all doubts are collected for group learning.

Personalized assistance

Methodologies	Description
Presentation	Group tutorials to resolve doubts about the presentation and defense of the work.
Lecturing	Individual or group tutorials to resolve doubts related to the theoretical classes, in addition to the use of the discussion forum where doubts will be resolved.
Laboratory practical	Individual or group tutorials to resolve doubts related to practical classes by appointment by email or through the MOOVI platform.
Mentored work	Group tutorials to resolve doubts about the development of group work.

Assessment

	Description	Qualification	Training and Learning Results
Lecturing	Theoretical examination of short questions.	40	C7 D7 C9 C19
Laboratory practical	Practical examination of resolution of a clinical supposition by means of role playing.	40	B1 C7 D4 B2 C16 D7 C18 D8 C19 C20 C21 C38
Mentored work	Assessment of the writing and contents of the written report.	5	B1 D1 D4 D7
Presentation	Assessment of the clarity of exposition and resolution of doubts by the class and the teacher.	5	D1 D4 D7
Systematic observation	In the classroom the handling of the practical contents by the students will be supervised, answering their queries.	10	C19 D7 C20 C21

Other comments on the Evaluation

Minimum requirements:

In order to sit the practical exam, the student must take the theoretical exam.

Systematic observation will depend on attendance at practical classes, an assessment that will be considered passed with at least 87.5% attendance (corresponding to a single justified absence).

To pass the subject, the student must have passed each of the evaluations independently with 5 points out of 10. The fail grade will never be higher than 4.5 in those cases in which there is any part of the failed evaluation (below 5 points) regardless of whether the average of all the tests was greater than or equal to 5 points.

Continuous assessment:

- Carry out work in pairs. Analysis of an intervention article related to the subject, preparation of a poster with its data and oral presentation in the classroom. Delivery on the date marked in the programming of the subject and defense in the last 4 theoretical hours. 10% final mark.

- Theoretical exam of short questions to develop. 40% final mark.

- Practical examination of resolution of a clinical case. 40% final mark.

- Systematic observation. Assessment of attitude and management in the classroom during practical class hours. Dependent on minimum attendance at 87.5% of practical classes. 10% final mark.

Global evaluation in ordinary call (waiving continuous evaluation) / 2nd opportunity (July call):

- Theoretical exam of short questions to develop. 50% final mark.
- Practical examination of resolution of a clinical case. 50% final mark.

The Teaching Guide will follow the **REGULATION ON THE ASSESSMENT, QUALIFICATION AND QUALITY OF TEACHING AND THE STUDENT LEARNING PROCESS** (Approved in the faculty on April 18, 2023), as well as the specific adaptations for the Degree in Physiotherapy determined by the Center Board .

Sources of information

Basic Bibliography

María Lourdes Macías Merlo y Joaquín Fagoaga Mata, **Fisioterapia en Pediatría**, 2, Editorial Médica Panamericana, 2018

Mónica Yamile Pinzón Bernal y Luisa Matilde Salamanca Duque, **Evaluación Neuropediátrica Funcional Fundamentos y métodos de aplicación.**, 1, Editorial Médica Panamericana, 2021

Juan Espinosa Jorge et al., **Guía esencial de rehabilitación infantil**, 1, Editorial Médica Panamericana, 2021

Complementary Bibliography

Graciela Basso, **Neurodesarrollo en Neonatología**, 1, Editorial Médica Panamericana, 2016

Pablo Rosselli Cock y José Luis Duplat Lapedes, **Ortopedia Infantil**, 2, Editorial Médica Panamericana, 2012

L.Cascos-Vicente et al., **Abordaje fisioterapéutico en el tratamiento del cólico del lactante. Una revisión sistemática**, 2021

Castillo Montes Francisco Javier, **Fisioterapia respiratoria en pediatría**, Formación Alcalá, S.L., 2019

Recommendations

Subjects that are recommended to be taken simultaneously

Manual Therapy in Neuromotor Disorders/P05G171V01301

Subjects that it is recommended to have taken before

Human anatomy: Human anatomy/P05G171V01101

Physiology: Functional movement in physiotherapy/P05G171V01105