Physiotherapeutic Evaluation and Diagnosis in Neurology 2015/2016

Code: 102997
ECTS Credits: 6

Degree	Type	Year	Semester
2500892 Physiotherapy	OT	4	0

Contact

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Use of languages

Principal working language: spanish (spa)

Teachers

Laura Arevalo Barrios

External teachers

Álvaro Pérez Muñoz

Gemma Puigfel Dalmau

Núria Raguer Sanz

Roberta Ghedina

Prerequisites

It is recommended having acquired the skills and aims given on the subjects: Physiotherapy in Neurology I and II.

Objectives and Contextualisation

To deepen the knowledge and training of skills related to daily clinical assessment and diagnosis in neurology physiotherapy, being able to:

- Assess major sensory-motor impairments and disabilities that limit activity and restrict the participation of patients with neurological disorders.
- Make use of the more standardised scales utilised in neurology.
- Perform a medical records that allows:

  - Planning an individualised treatment for neurological patients according to their developmental stage

  - Establishing short and long term objectives

  - Assessing the evolution

- Get used to assessments that have been done by other specialists within the Neurorehabilitation team.

Skills

- Develop critical thinking and reasoning and communicate ideas effectively, both in the mother tongue and in other languages.
- Develop independent learning strategies
- Display critical reasoning skills.
- Evaluate the functional state of the patient, considering the physical, psychological and social aspects.
- Integrate, through clinical experience, the ethical and professional values, knowledge, skills and attitudes of physiotherapy, in order to resolve specific clinical cases in the hospital and non-hospital environments, and primary and community care.
- Make a physiotherapy diagnosis applying internationally recognised norms and validation instruments.
- Solve problems.
- Work in teams.

Learning outcomes

1. Describe and apply advanced evaluation procedures in physiotherapy in order to determine the degree of damage to the nervous system and possible functional repercussions.
2. Develop critical thinking and reasoning and communicate ideas effectively, both in the mother tongue and in other languages.
3. Develop independent learning strategies
4. Display critical reasoning skills.
5. Establish a diagnostic physiotherapy hypothesis based on complex clinical cases in neurological pathologies.
6. Solve complex clinical cases in the field of neurology.
7. Solve problems.
8. Work in teams.

Content

1. CIF Model and medical records in neurological physiotherapy.

    Beatriz Hernández Méndez; Laura Arévalo Barrios

2. Exploration: general and disorders.

    Beatriz Hernández Méndez; Laura Arévalo Barrios

3. Core assessement, balance, gait, upper extremity, peripheral nervous system and pain.

    Beatriz Hernández Méndez; Laura Arévalo Barrios

4. Standardised Scales.

    Beatriz Hernández Méndez; Laura Arévalo Barrios

5. Transdisciplinary assessment in neurorehabilitation.

    Álvaro Pérez Muñoz; Gemma Puigfel Dalmau; Núria Sanz Raguer

6. Clinical Case Studies.

    Beatriz Hernández Méndez; Laura Arévalo Barrios; Roberta Ghedina

7. Papers Review.

    Beatriz Hernández Méndez; Laura Arévalo Barrios

Methodology

The teaching is based on theoretical and practical classes.

- Guided activities:

  - Lectures with graphic and computer support

  - Practice lessons aiming acquisition of clinical skills

  - Tutoring: individual or group

- Autonomous activities:

  - Searching and processing information to complete the knowledge transmitted by the teacher

  - Analysis of scientific papers related to the assessment and diagnosis in neurological physiotherapy

  - Writing papers on proposed topics from literature searches, individually or in groups

  - Self-study in order to revise for test, implementation schemes, conceptual maps, summaries, organising notes and / or materials

Activities

Title	Hours	ECTS	Learning outcomes
Type: Directed			
Laboratory practices	18	0.72	6, 1, 2, 5, 4
Lectures	23	0.92	6, 1, 2, 5, 4
Type: Supervised			
Tutoring: individual or group	2	0.08	
Type: Autonomous			
Search and information processing	25	1	6, 1, 3, 5, 4
Self-study	60	2.4	6, 1, 3, 5
Writing papers	18	0.72	6, 1, 2, 5, 4, 8

Evaluation

The evaluation system will be:

- Theoretical knowledge:

  - 2 exams one hour each.

    - 30 questions test with four possible answers, only one will be correct.
    - Each correct answer add 1 point and each wrong subtracts 0.25 points
    - 50% of the overall mark

- Practical knowledge:

  - Practical application and reasoning of different rating scales.

    - Duration: 15 minutes.
    - 20% of the overall mark.

  - Oral presentation with audiovisual material of an neurological article using assessment scales applied in a clinical trial:

    - Reasoning of the scales used and proposed other scales that could be used.
    - Duration: 15 minutes
    - 20% of the overall mark.

  - Drafting of a medical records and planning treatment goals by observing a real clinical case.

    - 10% of the overall mark.

To pass the course must meet the following conditions:

- Pass every single part of the contents with a score 5.
- In case of not passing a single part of the contents average won't be made, even though is possible taking a final test synthesis.
- It is compulsory to attend the practical classes. You may miss 30% of the classes though proof of reason for absence will be required.
- The following rules are considered the guidelines to obtain a "not evaluable" qualification:
  Not attending any of the assessment tests
  Miss more than 30% of practical classes

Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
Practical tests	50%	2	0.08	6, 1, 5, 4, 7
Written tests	50%	2	0.08	6, 1, 2, 5, 4, 7

Bibliography

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