UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Functional Assessment in Rehabilitation

2627-3-I0201D143-I0201D225M

Aims

Dublin Descriptor 1 – Knowledge and understanding

- To understand the methodological principles of physiotherapy assessment, both qualitative and quantitative.
- To understand the psychometric foundations of tests and assessment scales, including concepts such as validity and reliability.

Dublin Descriptor 2 – Applying knowledge and understanding

- To analyze the main outcome indicators in rehabilitation, evaluating their application methods, advantages, and limitations in clinical settings.
- To retrieve and interpret data related to the validity and accuracy of assessment scales, including through the review of scientific literature.

Dublin Descriptor 3 – Making judgments

- To apply quantitative assessment tools to clinical cases, formulating coherent and well-supported hypotheses.

Dublin Descriptor 4 – Communication skills

- To clearly and concisely present the application methods of key assessment scales through oral presentations.

Dublin Descriptor 5 – Learning skills

- To develop autonomy in studying and critically selecting appropriate assessment tools.

Contents

Knowing outcome indicators is fundamental to determine the rehabilitation effectiveness. It is necessary to acquire skills in researching outcome indicators, application criteria and related validity and reliability parameters.

Detailed program

- Evaluation hypotheses, evaluation in the systemic paradigm and role of ICF (WHO 2001)
- Multidisciplinary assessment in neurological rehabilitation
- Assessment measures: main assessment scales in rehabilitation
  (CIRS, SF36, Hoehn&Yahr, Ashworth, Nihss, European stroke scale, Motricity index, Trunk control test, Modified Barthel index, FIM, ARAT, Fugl-Meyer, Fatigue severity scale, Disability rating scale, Glasgow coma scale, Berg Balance scale, Tinetti balance+gait)
- Individual rehabilitation project. Timing of rehabilitation treatment for health care facilities and patients. Projecting in uncertainty.
- Individual rehabilitation project and treatment

Prerequisites

no

Teaching form

The module consists of a total of 12 hours, divided into:

- **2 hours of lecture-based teaching (DE)**: traditional lectures aimed at delivering theoretical content related to qualitative and quantitative physiotherapy assessment.
- **10 hours of interactive teaching (DI)**: including plenary discussions of clinical cases, small-group work, flipped classroom activities, and structured tasks based on the Team-Based Learning (TBL) methodology.

The Team-Based Learning activities are structured as follows:
I-RAT (Individual Readiness Assurance Test): individual multiple-choice test (10 questions);
T-RAT (Team Readiness Assurance Test): group multiple-choice test (10 questions);
T-APP (Team Application): collaborative application of content to a clinical case, with group production of a written report and plenary presentation.

Textbook and teaching resource

- Bonaiuti D., “Le scale di misura in riabilitazione”, Roma, SEU, 2011- Pistarini C., “Semeiotica Neurologica in Riabilitazione - fondamenti”, Milano, edi-ermes, 2012
- Rauch A, Cieza A, Stucki G., “How to apply the International Classification of Functioning, Disability and

Health (ICF) for rehabilitation management in clinical practice". Eur J Phys Rehabil Med, 2008.
- Jiandani MP, Mhatre BS, "Physical therapy diagnosis: how is it different?". J Postgrad Med, 2018

Semester

1st semester

Assessment method

Learning assessment will be carried out during the course, as part of the Team-Based Learning (TBL) activities. The module's grade will contribute to the final mark of the course "Planning and Programming of the Rehabilitation Intervention", as specified in the corresponding syllabus.

The final grade for the module, expressed on a 30-point scale, will be calculated as follows:
I-RAT (Individual Readiness Assurance Test) – individual multiple-choice test: 40%
T-RAT (Team Readiness Assurance Test) – group multiple-choice test: 20%
T-APP (Team Application) – group work and plenary presentation: 40%

Office hours

By appointment
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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY