UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Practical Class: Cognitive and Motor Rehabilitation Techniques

2425-2-F5108P021

Learning area

METHODS AND TECHNIQUES FOR TREATMENT AND REHABILITATION

Learning objectives

Knowledge and understanding

- Approach to the treatment of cognitive and motor functions in patients with brain damage
- Knowledge of the main neuropsychological rehabilitation techniques based on valid scientific reference models

Applying knowledge and understanding

- Application of specific intervention techniques based on the results of the neuropsychological assessment
- Definition of individualized neuropsychological rehabilitation programs and verification of treatment effectiveness, for both clinical and research purposes
- Critical discussion of neuropsychological clinical cases

Contents

The workshop aims to provide students with applicative skills for using the main methods and techniques of cognitive and motor rehabilitation in adult patients with brain damage. Clinical cases will be presented and discussed, allowing students to practice with the definition of individualized rehabilitation protocols, based on the results of the neuropsychological assessment. The methodological principles for defining a protocol will be

addressed, and students will be able to get a concrete and realistic idea of the neuropsychological approach to rehabilitation and of the tools for evaluating the effectiveness of the intervention.

Detailed program

- Interpretation of neuropsychological assessment results after brain damage
- Methodological principles of neuropsychological rehabilitation
- Setting of rehabilitation protocols
- Rehabilitation of acquired oral and written language disorders
- Rehabilitation of visuoperceptual and visuospatial disorders and of unilateral spatial neglect
- Rehabilitation of executive, attentional and mnesic disorders
- Rehabilitation of movement disorders
- Approach to the patient with Traumatic Brain Injury and Severe Acquired Brain Injury
- Verification of treatment effectiveness

Prerequisites

A good background on neuropsychology enables a better understanding of the topics discussed in this course.

Teaching methods

Laboratory-based teaching will be delivered in person through face-to-face lectures in Italian (Didactics of Erogative type, about 20%) and classroom discussions, videos, case presentations and practical exercises (Didactics of Interactive type, about 80%).

Erasmus students/scholars may contact the lecturer to arrange the possibility of studying on an English-language bibliography and/or the possibility of taking the practical test in English.

Assessment methods

The practical test requires students to propose a rehabilitation protocol from a clinical case description.

Textbooks and Reading Materials

The teaching material (mainly in English) will be indicated during the course and uploaded on the E-learning page.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING