UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Tecniche Neuropsicologiche Applicate al Trattamento del Dolore e dei Disturbi Comportamentali

2223-3-004P003004

Learning objectives

Learning the mechanisms underlying non-invasive brain stimulation techniques (NIBS)

Learning the basics on the tecnical paramters in order to be able to plan the use of NIBS in research or rehabilitative protocols

Acquiring knowledge on the evidence in literature regarding the clinical use of NIBS. In particular, the use of NIBS in the treatment of chronic pain and behavioural disorders (Depressive Disorders, Anxiety Disorders, Obsessive-compulsive Disorder and Schizophrenia) will be discussed

Contents

1. Transcranial Magnetic Stimulation (TMS):

- what is
- how does it work
- technical features
- stimulation parameters
- safety and risks
- use in clinical and research settings

2. Stimolazione Transcranica a corrente Diretta (tDCS)

- what is
- how does it work

- stimulation parameters
- safety and risks
- use in clinical and research settings

3. Examples of clinical application of TMS and tDCS:

- in the treatment of chronic pain
- in the treatment of Depressive Disorders
- in the treatment of Anxiety Disorders
- In the treatment of DOC
- in the treatment of schizophrenia

Textbooks and Reading Materials

Slides and research articles will be made available during the corse

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING