UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Neuroscience 2

2223-5-H4102D032

Aims

To learn the nosology and clinical expression of the main neurological diseases and mental disorders. To learn the principles of neurological localization through the application of semeiotics in the main CNS and PNS neurosurgical conditions.

To learn the principles of neurological localization through the application of semeiotics in the main CNS and PNS neurological and neurosurgical conditions.

To learn the principles of a correct treatment and rehab of mental disorders in the continuum of an integrated diagnostic and therapeutic approach.

To learn the principles of the correct management of neurological, neurosurgical and mental disorders.

To learn the following aspects of the main classes of drugs acting on the CNS: Cellular and molecular mechanisms of action-Therapeutic, side, and toxic effects-Pharmacokinetic properties-Drug-drug interactions-Pharmacogenetics determinants.

To learn emergency treatment and priciples of neurointensive care in neurological and neurosurgical disorders and of acute care in psychiatric settings.

To learn principles of neurological and psychiatric rehabilitation.

Contents

Topografical anatomy and correlations with neuroradiology and neurological symptoms.

Nosology, epidemiology, aethiopathogenesis, diagnosis and therapy of the main neurological and neurosurgical

disorders. Emergency and rehabilitation of neurological disorders.

Nosography, epidemiology, aethiopathogenesis, differential diagnosis and psychopathology of the main mental disorders. Acute care, integrated treatment and rehab of mental disorders

Detailed program

See each didactic unit

Prerequisites

Basic knowledge of neuroanatomy, neurophysiology, biochemistry and pharmachology

Teaching form

Frontal lessons with discussion of clinical cases through a problem based learning approach.

Lessons in attendance, subject to any ministerial changes following the COVID pandemic situation

Textbook and teaching resource

see each teaching unit

Semester

fifth year, first semester

Assessment method

interim written exams for each didactic unit and final oral exam for Neurology and Psychiatry

in attendance, subject to any ministerial changes following the COVID pandemic situation

Office hours

by e-mail appointment with professors

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING