UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Neuroscience 1

2425-4-H4102D028

Aims

To provide the basic knowledge to evaluate the patient with neurological and psychiatric problems and to understand the relationship between site of lesions and clinical symptoms.

To understand the biochemical pathways underlying the CNS metabolism under physiological conditions. To understand how derangement of metabolism can affect CNS functions.

To recognize signs and symptoms of neurological disorders through deep knowledge of physiopathology and semeiology of nervous system dysfunction.

To learn the principles of the main neuroradiologic examinations (plain x-rays, CT, MRI, DSA); to learn the indications to neuroradiologic examinations and to the use of contrast media for the main neurological, neurosurgical and psychiatric pathologies; to learn the neuroradiolgic pictures of the main neurological and neurosurgical pathologies and psychiatric disorders.

Contents

Morphology and functions of different parts of central and peripheral nervous system.

Biochemistry of neurons and glial cells, molecular basis of neurological and psychiatric disorders.

Neuroradiology and imaging of normal brain and neurological and psychiatric disorders.

Semeiology of neurological 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

fourth year, second semester

Assessment method

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

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