



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Neurology

2324-5-H4102D034-H4102D135M

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#### Aims

The aim of the course is to provide elements to collect an adequate anamnesis, including familiar anamnesis, perform a complete neurologic evaluation through the application of the principles of neurological semeiotics, formulate the differential diagnostic hypotheses on the basis of the clinical history and neurological objectivity, identify the appropriate investigations with the level of priority of their execution, refine the ability to interpret the results and their consistency with the patient's clinical history, integrate the collected data in order to formulate an etiological diagnosis and establish the appropriate therapy with attention to the risk/benefit balance of the proposed therapeutic choices. Particular attention will also be given to the aspects of communication to the patient and family members in compliance with privacy laws.

#### Contents

The following main pathologies of the Central and Peripheral Nervous System will be addressed: acute cerebrovascular diseases (ischemic strokes, cerebral hemorrhages, cerebral venous thrombosis) throughout their treatment path, degenerative diseases (Alzheimer's and other dementia diseases; Parkinson's and other movement disorders; Amyotrophic Lateral Sclerosis and other motor neuron diseases); inflammatory diseases of the Central Nervous System (multiple sclerosis, neuromyelitis optica spectrum diseases); encephalopathies/encephalitis (toxic, dysmetabolic, autoimmune, infectious, paraneoplastic); diseases of the neuromuscular junction (myasthenia and myasthenic syndromes); diseases of the peripheral nervous system; epilepsy; headache and cranial neuralgia; sleep disorders; syncope and diseases of the vegetative nervous system.

#### Detailed program

See above

## **Prerequisites**

Knowledge of neuroanatomy and physiology of the nervous system.

## **Teaching form**

Students will be divided in groups of 5-6 students each and will rotate in the different clinical areas: ordinary hospitalization, neurological semi-intensive care unit, neurophysiology, emergency room, multiple sclerosis center and general neurology out-patient clinic. Students will be supported by the tutor in a 1:1 or 1:2 ratio. Students will be invited to personally collect the medical history and discuss it with their tutor, as well as to perform the neurological objective examination in the presence of the tutor who will guide them in the execution and interpretation of the results on the basis of neurological semeiotics. The diagnostic hypotheses and indications for the tests to be prescribed will be discussed together with the tutor. In the Emergency Room/Stroke Unit, students will follow the path of the cerebrovascular patient from triage to hospitalization with particular attention to the evaluation of the eligibility criteria for urgent reperfusion therapies, to the interpretation of neuroradiological examinations, to the correct setting of secondary prevention therapies according to the most up-to-date guidelines. In the Multiple Sclerosis Center, they will assist in choosing the most appropriate drug among the many current therapeutic options for the different stages of the disease, including symptomatic therapies for the complications of the advanced stages. They will also evaluate the imaging characteristics of patients with inflammatory CNS diseases in multidisciplinary meetings with neuroradiologist colleagues.

As far as neurophysiological methods are concerned, the methods of execution and preparation for the individual investigations will be illustrated, with practical demonstration. Limits and usefulness will be indicated for each neurophysiological study method. A particular focus will be dedicated at the use of neurophysiological tools for prognostic purposes, early diagnosis of complications, and monitoring of the clinical-functional evolution of the neurological patient admitted in critical areas.

Students, in compliance with privacy laws, will attend the moments of communication with the patient during which the diagnostic hypotheses, the prescribed tests and the therapy are shared, and informed consents are collected. Similarly, they will attend interviews with family members.

## **Textbook and teaching resource**

Adam & Victor' Principles of Neurology  
recent publications & reviews on indexed journals

## **Semester**

First semester

## **Assessment method**

At the end of the practical activities, the students, divided into groups of about 10 students, will also be entrusted to prepare a short pp presentation (30 minutes total per group) which explores definition, clinical presentation, differential diagnosis diagnostic tests and therapeutic approaches of selected topics transversal to the disciplines of the clerkship.

The student should meet the following requirements:

- 80% of attendance to the Clerkship 8,
- approval from the tutor of the acquisition of the required skills.

## **Office hours**

On appointment ([segreteria.neurologia@asst-pg23.it](mailto:segreteria.neurologia@asst-pg23.it))

## **Sustainable Development Goals**

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

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