



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Clinica Neurologica in Riabilitazione

2425-2-I0201D136-I0201D207M

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#### Aims

"To know the main categories of neurological diseases: epidemiology, symptoms and signs, diagnosis, clinical course, and therapy." Sure,

- To analyze and evaluate pathologies with a medical and scientific approach from a gender perspective to improve not only the understanding of the various aspects underlying the differences but also the adequacy of health interventions. This aims to foster greater attention to the collection of anamnesis, instrumental, and laboratory data, as well as the drafting of medical records and reports in relation to the patient's gender.

#### Contents

NEUROLOGICAL CLINIC  
DEMYELINIZING DISEASES  
EXTRA-PYRAMID DISEASES  
dementias  
CEREBROVASCULAR DISEASES  
DISEASES OF THE MOTONEURON  
Brain infections  
Neuropathies  
Pathologies of the cervical and lumbosacral plexuses

#### Detailed program

1. Headaches and Craniofacial Pain. Primary Headaches **Pathophysiology**: Biological processes and underlying mechanisms. - **Genetics**: Genetic aspects involved. - **Therapy**: pharmacological and non-

- pharmacological treatments. - **Tension-Type Headache - Clinical:** Clinical manifestations and symptoms. - **Pathophysiology:** Pathophysiological mechanisms. - **Diagnosis:** Diagnostic methods. - **Therapy:** Treatment options. - **Autonomic Trigeminal Cephalalgias - Cluster Headache - Primary Exertional Headache**
2. Cerebrovascular Diseases **Stroke- Epidemiology:** Distribution and frequency. - **Risk Factors:** Predisposing elements. - **Etiology:** Causes of stroke. - **Atherosclerosis of the Neck and/or Intracranial Circulation Vessels - Occlusion of Cerebral Perforating Arteries - Cardiogenic Embolism - Clinical Presentations - General Symptomatology and Anatomoclinical Symptomatology - Topographic Anterior Circulation - Posterior Circulation - Lacunar Syndromes - Spinal Cord Vascular Syndromes - Transient Ischemic Attack - Subclavian Steal Syndrome - Diagnostic Pathway - Neurological Assessment Scales - Acute Phase Therapy - Primary and Secondary Prevention - Cerebrovascular Pathology from Other Causes**
  3. Encephalopathies- **Pathophysiology- Clinical- Diagnosis- Therapy**
  4. Epilepsy- **Epidemiology- Pathophysiology- Etiology- Classification- Diagnosis**
    - **Therapy- Status Epilepticus**
  5. Multiple Sclerosis and Other Demyelinating Diseases - **Multiple Sclerosis - Epidemiology**
    - **Etiology and Risk Factors - Pathogenesis - Clinical and Clinical Variants - Course-Pathophysiology Correlation - Prognosis - Diagnostic Criteria and Methods - Therapy**
  6. Dementias- **Alzheimer's Disease - Epidemiology - Clinical - Etiopathogenetic Mechanisms - Diagnostic Procedures - Therapeutic Strategies- Lewy Body Dementia - Epidemiology - Clinical - Therapy- Vascular Dementia - Epidemiology - Diagnosis and Clinical Characteristics - Pathogenesis - Diagnostic Pathway - Therapy**
  7. Parkinson's Disease and Other Movement Disorders- **Parkinson's Disease - Epidemiology - Etiopathogenesis - Pathological Anatomy - Clinical - Diagnosis - Prognosis - Therapy (Non-Pharmacological, Pharmacological, Surgical)- Parkinsonisms- Other Movement Disorders - Multiple System Atrophy - Clinical - Diagnosis - Therapy - Corticobasal Degeneration - Progressive Supranuclear Palsy - Choreic Syndromes**
  8. Ataxias- **Pathogenesis- Clinical and Epidemiological Aspects- Clinical and neuropathological Presentations**
  9. Myopathies- **Classification- General Clinical Characteristics- Progressive Muscular Dystrophies- General Treatment Principles for Myopathies**
  10. Neuromuscular Junction Diseases- **Myasthenia Gravis - Epidemiology - Pathogenesis - Classification - Clinical Characteristics - Diagnosis - Therapy - Factors influencing Disease Course**
  11. Motor Neuron Diseases- **Epidemiology- Clinical- Prognosis- Diagnostic Criteria- Etiopathogenesis- Pathological Anatomy- Diagnostic Pathway- \*Therapy**
  12. Peripheral Neuropathies- **General Considerations- Clinical Approach- Critical Illness Polyneuropathy/Myopathy**
  13. Central Nervous System Infections- **General- Etiology- Meningitis- Encephalitis**
  14. Traumas- **Spinal Traumas - Clinical- Degenerative Spine Pathology- Lumbar Disc HerniationCervical Disc Herniation**

## Prerequisites

to know the anatomy of the nervous system, neurophysiology, neurological semeiotics

## **Teaching form**

Expository Teaching (DE) with content presentation and illustration by the teacher. 3 hours will be conducted in Expository Teaching mode (TEL-DE) delivered in the form of video lectures by the course instructor.

## **Textbook and teaching resource**

textbook of neural repair and rehabilitation

## **Semester**

first semester

## **Assessment method**

written test with open question or oral exam upon request, from which clinical reasoning skills must be highlighted

## **Office hours**

on demand

## **Sustainable Development Goals**

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