<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cranial nerves: physiopathology and semiotics of the principal symptoms of the cranial nerves.</td>
</tr>
<tr>
<td>Motor syndromes: physiopathology and semiotics of the principal syndromes of the motor system.</td>
</tr>
<tr>
<td>Sensory syndromes: physiopathology and semiotics of the principal syndromes of the sensory system.</td>
</tr>
<tr>
<td>Deep and surface reflexes: diagnostic importance of deep and surface reflexes.</td>
</tr>
<tr>
<td>Balance systems: vertigo syndromes, spinocerebellar syndromes.</td>
</tr>
<tr>
<td>Upper functions and related deficits (consciousness, phasias, gnosias, praxias): physiopathology and differential diagnostic factors.</td>
</tr>
<tr>
<td>Alteration in the state of consciousness: most frequent causes and diagnostic route.</td>
</tr>
<tr>
<td>Principal causes and aetiopathogenic mechanisms of endocrinal hypertension.</td>
</tr>
<tr>
<td>Indications for the prescription of the electrophysiological diagnostic tests most commonly used in the neurological field (EEG, EMG, evoked potentials).</td>
</tr>
<tr>
<td>Lumbar puncture: indications and counter-indications.</td>
</tr>
<tr>
<td>NEUROLOGY AND NEUROSURGERY</td>
</tr>
<tr>
<td>Indications for the prescription of the neuroradiological tests most commonly used in the neurological field (TC, RMN, Angiography and PET).</td>
</tr>
<tr>
<td>Cerebral and medulla tumours: diagnosis and treatment options.</td>
</tr>
<tr>
<td>Classification of convulsive and non-convulsive epileptic syndromes in relation to the anatamo-physiological aspects.</td>
</tr>
<tr>
<td>Diagnostic methods and monitoring of treatment.</td>
</tr>
<tr>
<td>Principal cerebrovascular illnesses: haemorrhage and cerebral ischemia, differential diagnosis and diagnostic route; treatment of the acute stage and secondary prevention.</td>
</tr>
<tr>
<td>Degenerative and vascular dementia: classification and differential diagnosis.</td>
</tr>
<tr>
<td>Demyelinating illnesses: classification, typical clinical manifestations, prognostic aspects, treatment perspectives.</td>
</tr>
<tr>
<td>Parkinson’s disease, Parkinson’s disease syndromes, dystonia, chorea: physiopathology, clinical characteristics, basic treatment concepts.</td>
</tr>
<tr>
<td>Motoneurone illnesses: clinical characteristics and instrumental diagnostics.</td>
</tr>
<tr>
<td>Myelopathies.</td>
</tr>
<tr>
<td>Encephalitis and meningitis: clinical picture, diagnostic tests and treatment provisions to be adopted at the acute stage with reference to possible aetiologies.</td>
</tr>
<tr>
<td>Principal compression syndromes of the peripheral nervous system: clinical aspects and differential diagnosis.</td>
</tr>
<tr>
<td>Principal polyneuropathies: clinical aspects and instrumental diagnostics.</td>
</tr>
<tr>
<td>Principal muscular illnesses (dystrophies, myotonias, mitochondrial myopathies, acute and chronic myositis of various types): relevant clinical characteristics and differential diagnosis.</td>
</tr>
<tr>
<td>Myasthenia gravis and myasthenia syndromes: clinical manifestations, aetiopathogenesis; differential diagnosis.</td>
</tr>
<tr>
<td>Cephalalgia syndromes: physiopathology, clinical pictures and differential diagnosis; essential components for treatment of acute, chronic and recurrent forms.</td>
</tr>
<tr>
<td>First aid in the main neurological emergencies (endocranial hypertension, stupor and coma, acute spinal compressions, epileptic condition, acute meningencephalitis, haemorrhages, acute visual deficit, others).</td>
</tr>
<tr>
<td>Sleep disorders: definition and classification, pharmacological and non-pharmacological treatment strategies.</td>
</tr>
<tr>
<td>Malformations of the nervous system, hydrocephalus.</td>
</tr>
<tr>
<td>Cranial and medullar traumas.</td>
</tr>
<tr>
<td>Functional neurosurgery: epilepsy, pain, movement disorders, Parkinson’s disease.</td>
</tr>
</tbody>
</table>

**ELECTIVES**

**NEUROLOGY MED/26**

Dr. Antonio Daniele

Neurobiological and neuropsychological bases of memory systems (4 hours)

Dr. Luca Padua (4 hours)

Peripheral Nervous System Pathologies

Contents:

- Overall assessment of Function and Form of the nerve for diagnosis and effective treatments

Topics:

- contribution of feedback between neurophysiology and the ultrasound scan in the following pathologies:
  - nervous compression (Carpal Tunnel Syndrome, Cubital Tunnel Syndrome, Tarsal Tunnel Syndrome)
- Tumours (Median, radial, peroneal sural nerve neuromas and neurofibromas),
- Extrinsic compressions (ganglion cysts) and in neuropathies (hypertrophic CIDP, neuropathies with conduction blocks)

Dr. Camillo Marra
Neurobiological Bases of Behaviour (4 hours)
Prof. Salvatore Mazza
Diagnosis and Treatment of Epilepsy (4 hours)
Dr. Mario Sabatelli (4 hours)

Illnesses of the Peripheral and Motoneurone Nerves

Contents:
- Acute and chronic demyelinating polyradiculitis
- Vasculitis of the PNS
- Amyotrophic Lateral Sclerosis

Prof. Girolamo Di Trapani
Diagnosis and Treatment of Headaches (4 hours)

Contents:
- Physiopathology of headaches
- Clinical aspects of hemicrania
- Treatment of a hemicrania attack
- Prophylaxis of hemicrania

Dr. Anna Rita Bentivoglio
Monographic Course on Movement Disorders (4 hours)

Contents:
1. Introduction to movement disorders: hypokinetic and hyperkinetic syndromes
2. Parkinson's disease
   - Epidemiology
   - Pathological anatomy
   - Semeiology
      - Diagnostics through images
      - Natural history
      - Notes on the genetics of Parkinson's disease
      - Notes on pharmacological treatments
3. Atypical Parkinson's: multisystematic atrophy, progressive supranuclear paralysis, basal-cortical degeneration, Lewy body disease
   - Semeiology and differential diagnosis
4. Hyperkinetic syndromes: dystonia
   - Definition and classification
   - Treatment
5. Chorea syndromes: familial chorea and secondary syndromes
   - Semeiology and differential diagnosis
   - Treatment
6. Surgical treatment of movement disorders

NEUROSURGERY MED/27
Prof. Gabriella Colicchio
Irritable semeiology of the central nervous system: anatomo-electroclinical correlation (2 hours)
Prof. Massimiliano Visocchi
Complex spinal neurosurgery (4 hours)

PROFESSIONAL DEVELOPMENT UNITS

Collecting special neurosurgical case histories
Collecting special neurological case histories
Assisting in the performance of an objective neurological test
Performing an objective neurological test
Assisting in recording an EEG
Assisting in the study of evoked potentials
Assisting in an electromyography
Assisting in the performance of a lumbar puncture (spinal)
Assessing encephalic and medullar lesions using a CT scan (CAT)
Assessing encephalic and medullar lesions using an RM imaging

Lecturers for the Professional Development Units:

PSYCHIATRY AND CLINICAL PSYCHOLOGY

Course Content
Elements of psychiatric semiotics
Thought, perception and awareness disorders
Elements of psychodiagnosis
Elements of dynamic psychopathology
Elements of biological psychiatry
Anxiety and anxiety disorders: general anxiety, disorder form panic attacks, post-traumatic disorder from stress, phobias, obsessive-compulsive disorder
Dissociative disorders and paraphilias
Somatoform disorders
Personality disorders
Schizophrenia, deliria disorder, brief psychotic disorder
Mood disorders: depression, mania and bipolar disorders
Food behaviour disorders
Pathological dependencies and alcoholism
Psychiatric therapy: biological treatments, psychopharmaceutical treatments, psychotherapies
Combined treatments
Theoretical and practical teaching in small groups to be held in the Psychiatric Day Hospital Service and Psychiatric Consultancy according to methods that will be communicated during the course.

ELECTIVES
- Psychiatry at the development age
- Psychopathology of adolescence
- Psycho-oncology
- Pathological behavioural dependencies
- Psychoanalysis, psychiatry and neurosciences
- Psychiatric urgency
- Psychiatry of consultation and connection: psychiatric counselling
- Assessment of the effectiveness of psychotherapeutic interventions

PRACTICAL LESSON TOPICS
- Psychiatric anamnesis and the interview with the patient
- The drug-dependent patient in the psychiatric day-hospital
- Emergency psychiatry
- Psychiatric consultancy in hospital
- Pathological impulsiveness and suicidal behaviours
- Combined pharmacological and psychotherapeutical treatments
- The mandatory health treatment (M.H.T.)

Objectives

Material/ Equipment required
Identity badge, White coat and stethoscope

Additional Costs
None