

SCIENZE MEDICHE (TRO212)

1. language

Italiano.

2. course contents

Coordinator: Prof. MASSIMILIANO MIRABELLA

Year Course: 2nd year

Semester: 1st semester

UFC: 6

Modules and lecturers:

- GERIATRIA (TRO02B) - 1 CFU - SSD MED/09 - Prof. Giuseppe Zuccala'
- MEDICINA INTERNA (TRO03B) - 1 CFU - SSD MED/09 - Prof. Maurizio Pompili
- NEUROLOGIA (TRO04B) - 2 CFU - SSD MED/26 - Prof. Massimiliano Mirabella
- PEDIATRIA GENERALE E SPECIALISTICA (TRO05B) - 1 CFU - SSD MED/38 - Prof. Giuseppe Zampino
- PSICHIATRIA (TRO01B) - 1 CFU - SSD MED/25 - Prof. Giovanni Camardese

3. BIBLIOGRAPHY

The texts and notions necessary for passing the Medical Sciences exam are essentially represented by the contents of the slides projected during the lessons that will be delivered to students at the end of the course.

For any further information in depth about the topics of the course, the following text are recommended (by consulting the appropriate chapters dedicated to the relevant topics):

Geriatrics:

-Senin U, Polidori MC, Cherubini A, Mecocci P. Paziente anziano. Paziente geriatrico. Medicina della complessità. Fondamenti di gerontologia e geriatria, 2020. EdiSES Università Ed (facoltativo)

Medicina Interna:

-Ranuccio Nuti – Semeiotica Medica – Metodologia clinica – X Edizione - Edizioni Minerva Medica (Facoltativo)

Neurologia:

- Padovani A, Borroni B, Cotelli MS. Neurologia per le professioni sanitarie. 2018, Piccin (Facoltativo)

- Berardelli A. La neurologia della Sapienza. 2022, Società editrice Esculapio (Facoltativo)

Psichiatria:

- Vita A., Rossi A., Amore M., Carpiello B., Fagiolini A., Maina G. Manuale di psichiatria, 2019. Edra – Masson Editore (Facoltativo)

Pediatria generale e specialistica:

-Nelson: Manuale di Pediatria, VIII edizione. Edra Editore (Facoltativo)

4. LEARNING OBJECTIVES

Knowledge and understanding (Dublin 1)

The Internal Medicine Course aims to provide students with the semeiological and methodological tools for a correct approach to the patient. Furthermore, it aims to provide the basic notions based on the principles of evidence-based medicine concerning pathogenesis, clinical and diagnosis of the main alterations in the state of consciousness, of the peripheral arterial and venous diseases and of the causes of chest pain.

The Neurology Course is aimed at understanding the main neurological diseases of the central nervous system (CNS) and peripheral nervous system (PNS), their etiology, the clinical manifestations and the diagnostic tests used for a correct diagnostic classification.

Applying knowledge and understanding (Dublin 2)

The acquired knowledge will allow the student to have a cultural basis for understanding the notions deriving from the study of specialized medical disciplines.

To be able to interpret the diagnostic criteria for the main diseases of the central and peripheral nervous system from a clinical and instrumental point of view.

Making judgements (Dublin 3)

To be aware of the indication of therapies, acute and chronic, given to modify the course of the diseases and how to manage them in the various clinical contexts

Communication skills (Dublin 4)

The acquired knowledge will allow the student to correctly set up the relationship between healthcare worker and patient and to develop the ability to communicate the clinical picture and the diagnosis of a neurological disease to colleagues and other professionals and to describe its possible clinical-therapeutic and rehabilitation implications.

Learning skills (Dublin 5)

To acquire knowledge and understanding by studying critically and comparing the theory to the practical aspects. To become autonomous in updating one's knowledge in the field of internal medicine and neurological diseases through appropriate and effective use of the main scientific search engines such as PubMed, Embase and Scopus.

5. prerequisites

The students must possess knowledge of anatomy, physiology, biochemistry and general pathology which constitute the preparatory basis for understanding the main pathological pictures of interest in physical and instrumental Medical Semeiotics.

In particular the students must have:

- knowledge of anatomy, physiology, biochemistry and general pathology that form the basis for understanding the main pathological frameworks of interest of physical and instrumental Medical Semeiotics
- knowledge of the anatomy of the Central Nervous System (organization of the brain and spinal cord, organization and course of the main sensitive and motor pathways)
- knowledge of anatomical location of the main neurological clinical syndromes of the Central Nervous System

- knowledge of the pathophysiology of fragility and related phenomena (geriatric syndromes)
 - knowledge of the basic criteria of multidimensional assessment and treatment of complex elderly patients
- notions of childcare and health balances and knowledge of child with disabilities management.

6. TEACHING METHODS

The course is delivered through lectures that make use of the help of slides. During some of the 25 hours of frontal lecture of Neurology some didactic videos will be presented in the classroom.

7. OTHER INFORMATIONS

The teachers are available for information on the organization and contents of the course at the end of each lesson or by e-mail.

Attendance at classes (at least 90% of the course lessons) is mandatory to be admitted to the final exam.

8. METHODS FOR VERIFYING LEARNING AND FOR EVALUATION

There will be a final oral exam on the topics of the course. The teachers reserve the right to alternatively use the written exam tool essentially made with open questions. In compliance with the Dublin descriptors and in relation to the topics making up the program, the learner is required to acquire knowledge and understanding, ie to apply himself in the study of the topics inherent in the course; acquire autonomy of judgment, in the sense of studying critically, comparing the theory to the practical aspects; acquire communication skills, with the duty to demonstrate the knowledge acquired; acquire the ability to learn, that is to put yourself in front of the teachers and the study texts in an active way, making the most of the interaction during the lesson hours until the mastery of the subject is achieved.

The student to get the highest marks must demonstrate mastery of the acquired knowledge, ability to apply them in relation to the questions proposed by the teachers and good exposure ability in all the modules that make up the integrated course.

9. program

Modulo 1- GERIATRIA (Giuseppe Zuccalà)

- *Fragility: academic and operational definitions; scales of assessment of fragility*
- *Sarcopenia: definition, diagnosis and prevention*
- *Multidimensional evaluation: first, second and third generation tools*
- *Reverse epidemiology and competitive risks*
- *Geriatric syndromes: falls, femur fracture, confusion, decubitus lesions, adverse drug reactions*
- *Changes in pharmacokinetics and pharmacodynamics in old age*

Modulo 2 - MEDICINA INTERNA (Maurizio Pompili)

- *Physical and instrumental semeiotics.*

- The clinical methodology and the strategy of diagnosis and prognosis. The correct approach to the patient.
- The articulation of the pathological anamnesis (proximate and remote). The peculiarities and terminology to be used in the description of the physiological anamnesis. Meaning and relevance of the family history.
- The phases of the general and sectoral objective examination. The normal and pathological body constitution. The main skin changes (pallor, cyanosis, jaundice and edema). The concept of normal and pathological facies.
- Definition of the state of consciousness. Transient and prolonged alterations of the state of consciousness. Etiopathogenetic classification and staging of the state of coma.
- Pathophysiology and semeiotics of arterial and venous system. Arterial hypertension. Venous thromboembolism
- Pathophysiology of painful symptoms. Definition of chest pain. Pathogenetic, clinical and differential diagnosis of the causes of chest pain.

Modulo 3- NEUROLOGIA (Massimiliano Mirabella)

- Introduction to clinical neurology semeiotics: objective neurological examination, main symptoms and pathological signs.
- Functional neuroanatomy: major neurological syndromes.
- Parkinson's disease and atypical and secondary Parkinsonism, other movement disorders (corea, tremors, dystonia, cerebellar ataxias).
- Anatomical basis of consciousness and its disorders: changes in alertness and coma, metabolic encephalopathies.
- Dementia: pathogenesis, clinical classification and differential diagnosis.
- Cerebrovascular diseases.
- CNS demyelinating diseases.
- Epilepsy: type of seizure, classification of epilepsy and epileptic syndromes.
- Spinal cord syndromes.
- Neuromuscular diseases 1: ALS and other motor neuron diseases, acute and chronic polyradicolonevritis, polyneuropathies.
- Neuromuscular diseases 2: myopathies and diseases of the neuromuscular junction (myasthenia gravis, botulism, Lambert-eaton)

Modulo 4- PEDIATRIA GENERALE E SPECIALISTICA (Giuseppe Zampino)

- Introduction to Paediatrics
- Child health assessments
- Approach to children with birth defects
- Down syndrome as a prototype of a chronic disabling condition
- Child with short stature
- Rare diseases

Modulo 5 - PSICHIATRIA (Giovanni Camardese)

- *Introductory concepts on clinical management and interview with the psychiatric patient*
- *Psychopathology and psychiatric semiotics*
- *Elements of nosology and psychiatric epidemiology*
- *Schizophrenia and other psychotic disorders. Delirium and dementia*
- *Pathological Addictions: disorders related to substance use and alcoholism.*
- *The Mood Disorders*
- *The Anxiety Disorder*
- *Trauma and Stress related disorders*
- *Obsessive-Compulsive (OCD) spectrum disorders*
- *Disorders of Nutrition and Nutrition*
- *Somatic Symptoms Disorder and related disorders*
- *The Dissociative Disorders*
- *The Personality Disorders*
- *The Psychiatric Emergency*
- *Outline of psychiatric legislation*