

**CALENDAR-THEMATIC PLAN**  
the topics for extramural studies in "**Neurology** "  
for the preparation of specialists of the second (master's) level of higher education  
on speciality **222 "MEDICINE"** (foreign students)  
for the VII semester of 2023-2024

| №  | Topic   | N. of h-rs  | Groups | Date                     | Hours                          |
|----|---|-------------|--------|--------------------------|--------------------------------|
|    | <b>Section 1: General Neurology</b>   |             |        |                          |                                |
| 1. | Principles of structure and functioning of the nervous system. Functional unit of the nervous system. Classification of sensitivity. Anatomy of sensory pathways. Methods of study of sensation. Types and kinds of sensory disorders. Pathology of olfactory and visual analyzers. Trigeminal(sensitiv portion) vestibulo-cochlear nerve and syndromes of their affection. | 2<br>2<br>2 | 1<br>2 | 04.09.2023<br>05.09.2023 | 09.15 – 13.05<br>09.15 – 13.05 |
| 2. | The concept of reflex and reflex arc. Pathological reflexes, technique of elicitation. Voluntary movements and their disorders. Cortical-nuclear and cortical-spinal pathways. Symptoms of central and peripheral paresis, pathogenesis of symptoms. Symptom-complexes of movement disorders due to affection of different levels of cortico-muscular way.                  | 2<br>2<br>2 | 1<br>2 | 11.09.2023<br>12.09.2023 | 09.15 – 13.05<br>09.15 – 13.05 |
| 3. | Syndromes of oculomotor nerves' lesions. Trigeminal(movement portion), facial, vestibulo-cochlear nerve and syndromes of their affection. Affection of IX-XII pairs of cranial nerves. Bulbar and pseudobulbar syndromes. Alternating syndromes.  | 2<br>2      | 1<br>2 | 18.09.2023<br>19.09.2023 | 09.15 – 13.05<br>09.15 – 13.05 |
| 4. | Extrapyramidal system, its structure and functions. Subcortical ganglia. Paleo- and neostriatum lesion syndromes. Cerebellum. Basic anatomical and physiological data. Research methodology. Symptoms of cerebellar lesions. Types of ataxia. Types of pathological gait.   | 2<br>2      | 1<br>2 | 25.09.2023<br>26.09.2023 | 09.15 – 13.05<br>09.15 – 13.05 |
| 5. | Anatomical and physiological data, pathology and methods of investigation of the autonomic nervous system. Anatomical and physiological data, technique for study of the cortical functions. Syndromes of lesions and irritation of the cortex. Disorders of higher cerebral functions (aphasia, agnosia, apraxia and other).   | 2<br>2      | 1<br>2 | 02.10.2023<br>03.10.2023 | 09.15 – 13.05<br>09.15 – 13.05 |
| 6. | Meninges and spinal cord, cerebrospinal fluid, physiology of cerebrospinal fluid. Lumbar puncture technique. Liquor diagnostics. Meningeal and cerebrospinal hypertension syndromes. Functional diagnosis of diseases of the nervous system. Practical skills. Independent curation of patient with complication of case history.   | 2<br>2      | 1<br>2 | 09.10.2023<br>10.10.2023 | 09.15 – 13.05<br>09.15 – 13.05 |
|    | <b>Section 2: Special Neurology.</b>  |             |        |                          |                                |
| 7. | Vascular diseases of the brain and spinal cord.   | 2           | 1      | 16.10.2023               | 09.15 – 13.05                  |

|     |  |           |   |            |               |
|-----|--|-----------|---|------------|---------------|
|     | Transient ischemic attacks.<br>Ischemic stroke. Hemorrhagic stroke.  | 2         | 2 | 17.10.2023 | 09.15 – 13.05 |
| 8.  | Epilepsy and non-epileptic paroxysmal conditions.<br>Headaches. Sleep disorders.   | 4         | 1 | 23.10.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 24.10.2023 | 09.15 – 13.05 |
| 9.  | Meningitis. Classification. Clinical picture,<br>diagnostic, management.<br>Encephalitis. Clinical picture, diagnostic,<br>management. Acute respiratory disease COVID-<br>infection.<br>Poliomyelitis.<br>Acute transverse myelitis.  | 2         | 1 | 30.10.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 31.10.2023 | 09.15 – 13.05 |
| 10. | Neurosyphilis. Neurological manifestations of<br>polymyositis-dermatomyositis. Neurological<br>manifestations of HIV infection. Neuroborreliosis.<br>Tuberculosis of the nervous system.   | 2         | 1 | 06.11.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 07.11.2023 | 09.15 – 13.05 |
| 11. | Demyelinating diseases of the nervous system.<br>Amyotrophic lateral sclerosis.<br>Myasthenia.<br>Perinatal affections of the nervous system. Congenital<br>defects of the spine and spinal cord. Syringomyelia.   | 2         | 1 | 13.11.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 14.11.2023 | 09.15 – 13.05 |
| 12. | Diseases of the peripheral nervous system.<br>Guillain-Barre syndrome.<br>Practical skills.  | 2         | 1 | 20.11.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 21.11.2023 | 09.15 – 13.05 |
| 13. | Hereditary neuromuscular diseases: primary<br>myodystrophy, neurogenic amyotrophy, Thomsen's<br>myotonia, paroxysmal myoplegia.<br>Hereditary and degenerative diseases with a<br>predominant lesion of the pyramidal (Strumpel's<br>paraplegia), extrapyramidal (Parkinson's disease,<br>hepatocerebral dystrophy, torsional dystonia,<br>Huntington's chorea) system and cerebellum<br>(Friedreich's and Marie's ataxia) | 4         | 1 | 27.11.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 28.11.2023 | 09.15 – 13.05 |
| 14. | Neurological aspects of traumatic brain injury.<br>Sleep disorders.<br>Somatoneurological syndromes.<br>Emergencies in neurology.<br>Principles of rehabilitation of patients with diseases of<br>the nervous system.<br>Practical skills.   | 2         | 1 | 04.12.2023 | 09.15 – 13.05 |
|     |  | 2         | 2 | 05.12.2023 | 09.15 – 13.05 |
|     |  | 1         |   |            |               |
|     | <b>In total</b>  | <b>67</b> |   |            |               |

The calendar-thematic plan the topics for extramural studies of the Curriculum on the subject **"NEUROLOGY"** for the preparation of specialists of the second (master's) level of higher education on specialty **222 "MEDICINE"** and approved at the meeting of the Department of Neurology on August 30, 2023, protocol №1.

Head of the Dep., prof.

T. Nehrych