

Syllabus of discipline
"Neurology, including neurostomatology»
2023-2024 academic year

The name of the faculty	Dental
Address of teaching the course	Lviv, Pekarska st., 69
The name of the faculty and the department	Dental
Field of knowledge, code and name of the specialty	22 Healthcare, 221 Dentistry
Teachers	Nehrych Tetyana, Dr Med Sci, Professor, Head of the Department of Neurology Maryenko Lidiya, Dr Med Sci, Professor of the Department of Neurology Nataliya Malyarska, PhD, Associate Professor of the Department of Neurology Matvienko Yuriy, PhD, Associate Professor of the Department of Neurology Bozhenko Natalia, PhD, Associate Professor of the Department of Neurology Shorobura Maria, PhD, Associate Professor of the Department of Neurology Pshyk Roman, PhD, Lecture Assistant of the Department of Neurology Wiwchar Roman, Lecture Assistant of the Department of Neurology Bozhenko Myroslav, Lecture Assistant of the Department of Neurology
Teacher contact information	Nataliya Malyarska, PhD, Lecture Assistant of the Department of Neurology e-mail: n.malyarska@gmail.com tel. 0964479492
Consultations on the course	according to the schedule
Homepage of the course	

Інформація про курс	Discipline " Neurology, including Neurostomatology " is designed for masters of knowledge - 22 Health, specialty 221" Dentistry ". The discipline belongs to the normative disciplines and provides participants with the necessary competence in neurology and neurostomatology. The purpose of teaching the discipline "Neurology, including neurostomatology" is the improvement of knowledge about the structure and functioning of various parts of the nervous system, mastering the method of studying neurological status, studying etiopathogenetic features, clinical manifestations, differential diagnostic features and modern directions and algorithms for treating various
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	diseases of the nervous system, including neurostomatology, tactics of treatment and emergency care in emergencies.
Short annotation of the course	<p>Discipline "Neurology, including Neurostomatology" is a normative discipline, which is taught in the VIII semester in the amount of 2.0 credits (according to the European Credit Transfer System, ECTS). The curriculum provides for 60 hours of classroom classes (6 hours of lectures and 24 hours of practical classes) and 36 hours of independent work.</p> <p>The curriculum consists of the following sections: 1. Neurology. 2. Neurostomatology.</p> <p>The first section examines the main anatomical and physiological features of the nervous system and the main symptoms and syndromes of lesions of the pyramidal, extrapyramidal, cerebellar, sensory systems, cranial nerves, cerebral cortex and autonomic nervous system. The method of studying the neurological status is studied. Etiological factors and pathogenetic mechanisms of development of basic neurological diseases are determined. The main indicators of laboratory - instrumental research methods in neurological practice and the algorithm for establishing preliminary topical and clinical diagnoses of major neurological diseases and planning the practice of managing a patient with neurological pathology are considered. Diagnosis of emergencies in the clinic of nervous diseases.</p> <p>The second section examines the main anatomical and physiological features and pathology of the trigeminal, facial, vestibule-cochlear, glossopharyngeal, vagus, hypoglossal nerves; methodology of research of these nerves. Pathological syndromes are treated - bulbar, pseudobulbar; the main types of cephalgia, neuralgia and neuropathy of the trigeminal nerve and its individual branches, autonomic prosopalgia and other neurogenic diseases of the face, vertebrogenic and nonvertebrogenic diseases of the peripheral nervous system. The method of examination of patients with neurostomatological pathology is also considered; neuroimaging, ultrasound, electrophysiological research methods and modern directions and algorithms of treatment of various neurostomatological diseases.</p>
The purpose and objectives of the course	<p>The purpose of the discipline "Neurology, including neurostomatology" is the improvement of knowledge about the structure and functioning of different parts of the nervous system, mastering the method of studying neurological status, evaluating the results of laboratory and instrumental studies, studying etiopathogenetic features, clinical manifestations, differential diagnostic features, ability to determine topical and clinical diagnosis. improving knowledge of modern areas and algorithms for the treatment of various diseases of the nervous system, including neurostomatology. Ability to apply the necessary knowledge in the formation of professional competencies in practical situations.</p>
Literature for the study of the discipline	<p><u>References:</u></p> <ol style="list-style-type: none"> 1. Neurology = Неврологія : textbook for students of higher education establishments - medical universities,

	<p>institutes and academies. / edit by L.A.Hryhorova, L. I. Sokolova. - K. : AUS Medicine Publishing, 2017. - 624 c.</p> <p>2. Stuhan Davis. Neurology: NEUROLOGY CLINICAL PRACTICE AND CRITICAL CARE: The Clinical Practice of Neurology (Kindle Edition) Amazon Digital Services LLC (August 22, 2019).</p> <p>3. Mervat Wahba. The Clinical Practice of Critical Care Neurology: clinical localization, Diagnosis & Treatment in Clinical Neurology and Neuroanatomy, of Neurological disorders and the investigative modalities (Kindle Edition) Amazon Digital Services LLC (August 8, 2019)</p> <p style="text-align: center;">Information recourses</p> <p>1. Nevrologi.com.ua 2. Neurology.com.ua 3. http://www.mif-ua.com/archive/mezhdunarodnyj-nevrologicheskij-zhurnal/numbers http://neuronews.com.ua</p>
Course duration	60 hours
The volume of the course	Lectures - 6 hours, Practical classes - 24 hours Independent students' work – 36 hours
Expected learning outcomes	<p>Study of the discipline "Neurology, including Neurostomatology" provides the following program learning outcomes:</p> <p>general:</p> <p>ZK1 - Ability to abstract thinking, analysis and synthesis. ZK2 - Knowledge and understanding of the subject area and understanding of professional activity. ZK3 - Ability to apply knowledge in practical activities. ZK4 - Ability to communicate in the state language both orally and in writing. ZK5 - Ability to communicate in English. ZK6 - Skills in using information and communication technologies. ZK7 - Ability to search, process and analyze information from various sources. ZK8 - Ability to adapt and act in a new situation. ZK9 - Ability to identify, pose and solve problems. ZK10 - Ability to be critical and self-critical. ZK11 - Ability to work in a team. ZK12 - Striving to preserve the environment. ZK13 - Ability to act socially responsibly and consciously.</p>

ZK14 - Ability to realize one's rights and responsibilities as a member of society, to realize the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.

ZK15 - Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, equipment and technologies, use different types and forms of motor activities for active recreation and leading a healthy lifestyle.

special (professional, subject-oriented):

FK1 - Ability to collect medical information about the patient and analyze clinical data.

FK2 - Ability to interpret the results of laboratory and instrumental research.

FK3 - Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.

FK4 - Ability to plan and carry out measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial region.

FK5 - Ability to design the process of providing medical care: determine the approaches, plan, types and principles of treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.

FK6 - Ability to determine a rational mode of work, rest, and diet in patients in the treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.

FK7 - Ability to determine the management tactics of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.

FK8 - Ability to perform medical and dental manipulations.

FK9 - Ability to treat the main diseases of the organs and tissues of the oral cavity and maxillofacial area.

FK10 - Ability to organize and carry out medical evacuation measures.

FK11 - Ability to determine tactics, methods and provision of emergency medical assistance.

FK12 - Ability to organize and conduct a screening examination in dentistry.

FK13 - Ability to assess the impact of the environment on the state of health of the population (individual, family, population).

FK14 - Ability to maintain normative medical documentation.

FK15 - Processing of state, social and medical information.

FK16 - Ability to organize and carry out rehabilitation measures and care for patients with diseases of the oral cavity and maxillofacial region.

FK17 - Ability to legally support one's own professional activity.

FK18 - Ability to provide pre-medical care according to the protocols of tactical medicine.

Keywords	Neurostomatology, topical diagnosis, neuralgia, neuritis, treatment.
Course format	Full-time (day)
Topics	APPENDIX (discipline scheme)
Final control, form	Credit test
Prerequisites	<p>"Neurology, including neurostomatology" as a discipline</p> <p>a) is based on the study by students of medical biology, biological and bioorganic chemistry, histology, physiology and pathological physiology, human anatomy and pathomorphology and is integrated with these disciplines;</p> <p>b) is based on the study of students of propaedeutic disciplines of therapeutic profile, pharmacology, radiology and integrates with these disciplines;</p> <p>c) integrates with other clinical disciplines (internal medicine, neurosurgery, dentistry, oncology, psychiatry, medical genetics, etc.).</p>
Teaching methods and techniques that will be used during the course	Lecture, illustration, demonstration, discussion; practical classes, explanations, oral interviews; solving clinical problems; modeling of practical situations; performance of individual tasks.
Necessary equipment	Multimedia presentation, personal computers, projectors; tables, diagrams, atlases, models; neurological tools
Evaluation criteria (separately for each type of educational activity)	<p>The evaluation is conducted on a 200-point scale.</p> <p>Form of final control of academic performance: the form of final control of the discipline is a test, which is conducted at the last practical lesson. Students who have attended all the classes provided by the curriculum in the discipline and scored a minimum number of points (not less than 72, which corresponds to the national scale "3") are admitted to the test. A student who, for a good reason, has missed classes, is allowed to work off the academic debt until a certain deadline. For students who missed classes without good reason, the decision to complete them is made individually by the dean of the faculty. A package of test tasks is being solved, which includes basic test tasks "Step-2" in the amount of at least 40 tests.</p> <p>Distribution of points received by students: assessment of the results of the discipline is carried out during the test. The grade in the discipline is defined as the sum of points for the current educational activity and is min - 120 to max - 200 points. Points for current performance and credit are added up. The obtained points correspond to a fixed scale of assessments.</p> <p>Grade "5" - 200-170 points; Grade "4" - 169-140 points;</p>

	Scores "3" - 139-120 points. <i>Assessment of independent work:</i> Assessment of students' independent work, which is provided in the topic along with classroom work, is carried out during the current control of the topic in the relevant classroom.
Questioning	Questionnaires to assess the quality of the course will be conducted at the end of the course.

Syllable's author

Nataliya Malyarska, PhD, Associate Professor

(Signature)

Head of Department

Tetyana Nehrych, Dr Med Sci, professor

(Signature)

ADDITION

Scheme of the discipline "NEUROLOGY INCLUDING NEUROSTOMATOLOGY"

Week / date / hour	Topic, plan, short theses	Form of activity (lesson) * * lecture, independent, discussion, group work)	Materials	Literature. *** Resources on the Internet	Deadline
1	Topic №1. The main stages of development of neurological science. Principles of structure and functioning of the nervous system. Sensory system and symptoms of its affection. Types and kinds of sensory disorders. Pathology of olfactory and visual analyzers. The trigeminal, vestibulocochlear nerves and symptoms of their lesions.	Practical class 3 hours	Tables, diagrams, atlases, methodical recommendations	References and information recourses	according to the schedule

2	<p>Topic №2. Voluntary movements and its disorders. Pyramidal system. Symptoms of central and peripheral paresis.</p> <p>Syndromes of lesions of the oculomotor nerves and facial nerve.</p> <p>Pathology IX - XII pairs of cranial nerves.</p> <p>Bulbar and pseudobulbar syndromes.</p>	Practical class 3 hours	Tables, diagrams, atlases, methodical recommendations	References and information recourses	according to the schedule
3	<p>Topic №1. Vascular diseases of the brain and spinal cord.</p>	Lecture, 2 hours	Multimedia presentation; handouts and teaching materials	References and information recourses	according to the schedule
4	<p>Topic №3. Extrapyramidal system and syndromes of its lesions.</p> <p>Cerebellum, syndromes of its lesion.</p> <p>Localization of functions in the cerebral cortex. Syndromes of lesions.</p> <p>Cerebrospinal fluid, its changes. Meningeal syndrome.</p>	Practical class 3 hours	Tables, atlases, neurological tools, methodical recommendations	References and information recourses	according to the schedule
5	<p>Topic №4. Headache.</p> <p>Epilepsy and non-epileptic paroxysmal states.</p>	Practical class 3 hours	Tables, diagrams, atlases, neurological tools, guidelines	References and information recourses	according to the schedule
6	<p>Topic №1. The main stages of development of neurological science. Arbitrary movements and their violations. Pyramid system. Symptoms of central and peripheral paresis.</p>	Individual work 4 hours		References and information recourses	

7	Topic №2. Extrapyramidal system and syndromes of its defeat. Cerebellum, syndromes of cerebellar lesions. Localization of functions in the cerebral cortex. Defeat syndromes.	Individual work 4 hours		References and information recourses	
8	Topic №3. Non-epileptic paroxysmal states. Demyelinating diseases of the nervous system.	Individual work 4 hours		References and information recourses	
9	Topic №4. Functional diagnosis of diseases of the nervous system.	Individual work 4 hours			
10	Topic №2. Headache.	Lecture, 2 hours	Multimedia presentation; handouts and teaching materials	References and information recourses	according to the schedule
11	Topic № 5. Vascular diseases of the brain and spinal cord. Vascular pain in the face. Infectious diseases of the nervous system. Demyelinating diseases of the nervous system.	Practical class 3 hours	Tables, atlas diagrams, neurological tools, methodical recommendatios	References and information recourses	according to the schedule
12	Topic № 6. Pathology of the autonomic nervous system. Lesions of the autonomic ganglias of the face: pterygopalatine, ciliary, submandibular, sublingual, ear nodes, cervical sympathetic trunk. Visceral pain in the face.	Practical class 3 hours	Models, tables, atlases, neurological tools, methodical recommendatios	References and information recourses	according to the schedule
13	Topic №3. Major neurostomatological diseases and syndromes.	Lecture, 2 hours	Multimedia presentation; handouts and teaching materials	References and information recourses	according to the schedule

14	<p>Topic №7 Lesions of the trigeminal nerve system: trigeminal neuralgia, odontogenic trigeminal neuralgia, postherpetic trigeminal neuropathy, neuralgia of the main branches of the trigeminal nerve. Iatrogenic trigeminal neuropathy.</p> <p>Lesions of the lingual-pharyngeal, vagus and sublingual nerves..</p>	<p>Practical class 3 hours</p>	<p>Schemes, tables, models, atlases, neurological tools, guidelines</p>	<p>References and information recourses</p>	<p>according to the schedule</p>
15	<p>Topic №8. Diseases of the peripheral nervous system. Facial neuritis, gangliopathy of the geniculate ganglion of the facial nerve.</p> <p>Syndromes of oral cavity. Stomalgia. Glossalgia. Psychalgia. Myofascial pain syndrome. Diseases of the temporomandibular joint.</p> <p>Credit class.</p>	<p>Practical class 3 hours</p>	<p>Tables, models, atlases, neurological tools, methodical recommendatios</p> <p>Computers, test tasks.</p>	<p>References and information recourses</p>	<p>according to the schedule</p>
16.	<p>Topic № 5. Pathology of the autonomic nervous system. Iatrogenic neuropathies of the trigeminal nerve</p>	<p>Individual work 4 hours</p>		<p>References and information recourses</p>	
17.	<p>Topic № 6. Vegetative prosopalgia</p>	<p>Individual work 4 hour</p>		<p>References and information recourses</p>	
18.	<p>Topic № 7. Diseases of the peripheral nervous system.</p>	<p>Individual work 4 hours</p>		<p>References and information recourses</p>	
19.	<p>Topic № 8. Participation in the student scientific circle, interuniversity competitions</p>	<p>Individual work 4 hour</p>		<p>References and information recourses</p>	
20.	<p>Topic № 8. Preparation for the test</p>	<p>Individual work 2 hour</p>		<p>References and information recourses</p>	