	s of discipline UROLOGY'' OK37
	024 academic year
The name of the faculty	Dental
Educational program (area, specialty, level of higher education, form of education)	22 Healthcare, 222 Medicine, second (master's) level of higher education, full-time
Academic year	2023-2024
Name of discipline, code	OK 37 «Neurology» Kaf_neurology@meduniv.Lviv.ua
Department	79010, Lviv,LRCH, Y.Rufa str., 6 тел. +38 (032)2769325, 2368297, 2368397, 2368261, 2368326 Kaf_neurology@meduniv.Lviv.ua
Head of the department (contact e-	Professor, Dr Med Sci, Nehrych Tetyana
mail)	Kaf_neurology@meduniv.Lviv.ua
Year of study (year in which the	4th year, medical faculty
study of the discipline is carried out)	
Semester (semester in which the study of the discipline is implemented)	7-8 semester
Type of course / module (mandatory	Mandatory discipline
/ optional)	
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	Nehrych Tetyana, Dr Med Sci, Professor, Head of the Department of Neurology Maryenko Lidiya, Dr Med Sci, Professor of the Department of Neurology Natalia 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 Kaf_neurology@meduniv.Lviv.ua
Person responsible for the syllabus	Nataliya Malyarska
(person to be commented on the syllabus, contact e-mail)	Kaf_neurology@meduniv.Lviv.ua
Number of ECTS credits	4,5
Number of hours	135 hours - total: 12 hours - lectures 56 hours - practical classes, 67 hours - independent work
Language of instruction	Ukrainian, English
Information about consultations	Consultations are conducted by all teachers according to the schedule approved at the meeting of the department and posted on the website of the department.

Address, telephone and regulations	79010, Lviv, LRCH, Y.Rufa str., 6
of the clinical base	tel. +38 (032)2769325, 2368297, 2368397, 2368261, 2368326

2. Short annotation to the course

The program of the obligatory discipline "Neurology" is intended for preparation of experts of the second (master's) level of higher education in the field of knowledge 22 "Health care", specialty 222 "Medicine" for students of IV course of medical faculty. The working curriculum of the discipline is a normative document of the university, which is developed by the staff of the department for each academic discipline on the basis of the branch standard of higher education in accordance with the curriculum. The working curriculum should ensure: compliance of the content of industry standards of higher education through the direct connection of the discipline with the goals of higher education; compliance with licensing and accreditation conditions and requirements; compliance with "Standards and recommendations for quality assurance in the European Higher Education Area"; the possibility of using disciplinary competencies as an information base for the formation of diagnostic tools; unambiguous criteria for assessing academic achievement. The working curriculum of the discipline in its content is a document that determines the amount of knowledge that must be mastered by the student in accordance with the requirements of educational qualifications of the future specialist, the algorithm for studying the discipline, taking into account interdisciplinary links. different courses of problems, the necessary methodological support, components and technology of assessment of students' knowledge. The working curriculum as a normative document that lays down the ideology of the content of education and the organization of the educational process, determines the educational and methodological principles of the department; on its basis all educational and methodical materials for maintenance of educational process, including for independent work of students are developed.

3. The purpose and objectives of the course

The purpose of teaching the compulsory discipline "Neurology" (the ultimate goal) is to prepare a master's degree in the specialty. The description of goals is formulated through skills in the form of target tasks (actions). On the basis of the final goals to the test, specific goals are formulated in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of studying the discipline.

The knowledge that students receive from the discipline "Neurology" is basic for the block of disciplines that provide natural science and professional-practical training.

Learning objectives: to determine the tactics of examination of the patient and formulate a clinical diagnosis (conduct a neurological examination, evaluate its results, make a differential diagnosis, use scales to determine the severity of the disease, prescribe the necessary laboratory and instrumental research methods, provide emergency care for vascular diseases, develop rehabilitation and preventive measures from the standpoint of evidence-based medicine, to master the knowledge of filling out letters of recommendation for the patient and his caregivers, to demonstrate mastery of the principles of deontology.

The study of the discipline provides competencies (general and special competencies):

- general:
- ability to act responsibly and consciously;
- ability to apply knowledge in different practical situations;
- ability to abstract thinking, analysis and synthesis.;
- ability to communicate in the native language orally and in writing;
- ability to communicate with representatives of other specialties.
- special (professional, subject):
- determine the tactics of examination and management of the patient with different nosologies;
- interpret the results of laboratory and instrumental research methods in various neurological diseases and comorbid conditions;
- formulate a preliminary clinical diagnosis of the disease;
- prescribe and interpret treatment tactics;
- demonstrate the ability to keep medical records for patients with different nosologies;
- demonstrate mastery of the principles of clinical deontology.

4. Course details

To successfully study and master the competencies of the discipline "Neurology" the student needs basic knowledge and learning outcomes in the disciplines: medical biology, biological and bioorganic chemistry, histology, normal and pathological physiology, human anatomy and pathological anatomy

and integrates with these disciplines; knowledge based on the study by students of propaedeutic disciplines of therapeutic profile, pharmacology, radiology and integrated with these disciplines; integrate with other clinical disciplines (internal medicine, neurosurgery, oncology, psychiatry, medical genetics, etc.); are differentiated - the formation of certain areas of neurological science, which have independent international organizations: epileptology; cerebrovascular pathology; neuromuscular diseases; migraine and headache; parkinsonology; the doctrine of multiple sclerosis and demyelinating diseases; degenerative - dystrophic diseases of the brain.

5. Program learning outcomes

The study of the discipline "Neurology" provides the following program learning outcomes:

Knowledge: anatomical and functional features and the main syndromes of lesions of the pyramidal, extrapyramidal, cerebellar, sensory systems, cranial nerves, integrative systems of the brain and autonomic nervous system; methods of studying the neurological status; basic research methods in neurology (EEG, ultrasound of cerebral vessels, ENMG, evoked potentials, CT, MRI, etc.), their advantages and diagnostic capabilities; independently examine patients with neurological pathology with the compilation of medical history, the establishment of topical and clinical neurological diagnoses; etiology, pathogenetic features, clinical manifestations, diagnostic and differential diagnostic signs, modern directions and algorithms of treatment of various diseases of the nervous system.

Skills: to evaluate the data of functional anatomy and clinical physiology of the human nervous system; collect medical information about the patient's condition; according to standard methods to identify the leading neurological symptoms and syndromes; to establish a topical diagnosis and levels of damage to the nervous system by logical analysis and substantiation; to determine the etiological factors and pathogenetic mechanisms of the development of major neurological diseases; evaluate the results of laboratory and instrumental research; by making an informed decision, to make the most probable clinical diagnosis; diagnose emergencies; determine the tactics and provision of emergency medical care; keeping medical records; constantly process state, social and medical information.

Communication: Establish appropriate connections to achieve goals; to form a communication strategy in professional activity; use information technology in professional activities; adhere to the provisions of the Code of Ethics of the doctor and the current legal norms of the doctor-patient relationship; maintain a healthy psychological microclimate in the team; interact with medical staff in the neurology clinic.

Autonomy and responsibility: continuous professional development with a high level of autonomy; the validity of the decisions made to solve problems of professional activity; observance of moral and ethical principles of the medical specialist and rules of professional subordination; their civic position and activities; observance of the current legal norms of the "doctor \rightarrow patient" relationship; responsibility for the correctness and timeliness of care to the patient. Adhere to the requirements of ethics, bioethics and deontology, legal norms in their professional activities.

6. Course format and scope				
Course format	Full-time			
Kind of classes	Number of hours	Number of groups		
Lectures	12	(according to the schedule)		
Practical classes	56			
Seminars	-			
Independent	67			

7. Topics and content of the course (appendix attached)

In the process of studying the discipline "Neurology" teaching methods are used:

- by type of cognitive activity: explanatory-illustrative, analytical, synthetic, inductive, deductive;
- the main stages of the process of knowledge formation, their application in clinical practice, generalization, formation of skills, consolidation, testing;
- system approach: stimulation and motivation, control and self-control;
- by sources of knowledge: verbal story, conversation, visual demonstration, illustration.

8. Verification of learning outcomes

Current control

is carried out during training sessions and aims to check the assimilation of students of educational material (it is necessary to describe the forms of current control during training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is set on a 4-point (national) scale

scale	T		
Learning outcome code	Code type of	Method of verifying	Acception criteria
	the class	learning outcomes	
Зн-1-15, Ум-1-15,	Л-12	Test control: the student	Test control:
K-1, AB-1	П-56,	receives 10 tests, answers	from 5-6 (50-60%) -
	CPC-67	and receives the result in	satisfactory;
		points (from 0 to 10) and	7-8 (70-80%) - good;
		percent (from 0 to 100).	9-10 (90-100%) -
		Individual oral examination	excellent.
		of theoretical material,	Demonstration of practical
		which is included in	skills: the student must be
		methodological	able to demonstrate all the
		developments on relevant	structures that are in the
		topics;	list of practical skills.
		- solving situational	Answer to the teacher's
		problems;	question: the student
		- ability to differentiate	answered all the teacher's
		different forms and	questions, demonstrated
		manifestations of diseases;	the ability to think
		- Demonstration of	logically - excellent.
		practical skills: the student	The student answered all
		must be able to demonstrate	the questions of the
		practical skills in	teacher, demonstrated the
		neurological status, which	ability to think logically,
		is listed.	made 1-2 mistakes or
		- drawing up a protocol of	inaccuracies - well. The
		medical history	student answered some
			questions of the teacher,
			demonstrated the ability to
			think logically, but is
			confused in the conduct of
			topical diagnostics -
			satisfactory.

Final control

Final control is carried out upon completion of the study of all topics in the discipline. For the discipline "Neurology" the form of final control is an exam. The student is admitted to the exam provided that the requirements of the curriculum are met and if for the current academic activity he received positive grades and scored a minimum number of points - 72 points. The maximum number of points that a student can score for the current academic activity for the

semester for admission to the exam is 120 points.

The calculation of the number of points is based on the grades obtained by the student on the traditional scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as

follows:

$$x = CA X 120$$

$$5$$

Methods of the semester exam and examination questions in the discipline "Neurology": The semester exam is conducted in writing during the examination session, according to the schedule. The form of the exam is standardized and includes control of theoretical and practical training. There are 4 questions in the exam tickets:

- 1. Questions from general neurology (topical diagnosis of levels of damage to the nervous system).
- 2. Diseases of the nervous system (etiology, pathogenesis, clinic, diagnosis, treatment, prognosis, etc.).
- 3. Solving the situational problem (indicate pathological symptoms, syndromes; establish the level of damage; clinical diagnosis, treatment).
- 4. Practical skills in examining the neurological status.

The maximum number of points that a student can score when taking the exam is 80.

The minimum number of points in the exam - 50.

Evaluation table and system of distribution of examination points.

Answers	I question: Topical diagnosis of levels of damage to the nervous system.	2 questions: Diseases of the nervous system.	Question 3: Solving the situational problem.	Question 4: Practic skills in the examination of neurological status
(91-100%)	20 points	30 points	20 points	10 points
(71-90%)	15 points	24 points	15 points	8 points
(50-70%)	12 points	20 points	12 points	6 points
less than 50%	0 points	0 points	0 points	0 points

Points in the discipline	Score on a 4-point scale
170 - 200	5
140 - 169	4
120 - 139	3
Less than 120	2

The ECTS score is not converted to the traditional scale, as the ECTS scale and the four-point scale are independent. The objectivity of the assessment of students' learning activities is checked by statistical methods (correlation coefficient between ECTS assessment and assessment on a national scale).

10. References:

- 1. Neurology = Неврологія : texbook for students of higher education establishments medical universities, institues and academies. / edit by L.A.Hryhorova, L. I. Sokolova. K. : AUS Medicine Publishing, 2017. 624 с.
- 2. Neurology: Clinical Cases [Текст] = Неврологія=Клінічні задачі : A practical guide for students of higher medical education institutions of the IV level.of accred. (Recom.MHU №2 as of Juli 1, 2012) / L. Sokolova, L. Panteleienko, T. Dovbonos, V. Krylova ; edit by L. Sokolova. K. : AUS Medicine Publishing, 2016. 96 c.
- 3. Stuhan Davis. Neurology: NEUROLOGY CLINICAL PRACTICE AND CRITICAL CARE: The Clinical Practice of Neurology (Kindle Edition) Amazon Digital Services LLC (August 22, 2019).
- 4. Mervat Wahba. The Clinical Practice of Critical Care Neurology: clinical localization, Diagnosis & Treatment in Clinical Neurology and Neuroanatomy, of
- 5. Neurological disorders and the investigative modalities (Kindle Edition) Amazon Digital

- 6. Pietro Mazzoni, Toni Pearson, Lewis P Rowland. Merritt's Neurology Handbook (Hardcover) LWW; Thirteenth edition (October 3, 2015).
- 7. Coronavirus Disease 2019 (COVID-19). CASES, DATA & SURVEILLANCE. Data on COVID-19 during Pregnancy. Updated July 23, 2020.
- 8. Coronavirus: These maps show risk levels for every county and every state in real time. By KURT SNIBBE Southern California News Group. PUBLISHED: July 13, 2020.

Information resources:

Internet sources

http://meduniv.lviv.ua/index.php?option=com_content&view=article&id=137&Itemid=173&lang=uk Nevrologi.com.ua

- http://www.mif-ua.com/archive/mezhdunarodnyij-nevrologicheskij-zhurnal/numbers
- http://neuronews.com.ua

Survey: Questionnaires to assess the quality of the course will be conducted at the end of the course.

11. Equipment, material and technical and software of the course - Multimedia projector, personal computer, stimulation techniques, MISA distance learning platform.

12. Additional Information

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Head of the Department of Neurology: prof., Dr Med Sci, Negrych Tetyana

Responsible for the educational process at the department: Assoc. Prof. Natalia Malyarska

Head of the scientific student group: Lecturer Ass. Bozhenko Myroslav Responsible for safety at the department: Lecturer Ass. Wiwchar Roman

Syllable's author

Malyarska Natalia, PhD, Associate Professor

Head of Department

Nehrych Tetyana, Dr Med Sci, professor

(Signature)

ADDITION

scheme of the discipline "Neurology"

Class type code	Topic	Learning content	Learning outcome code	Teacher
Л-1	Introduction to neurology. Arbitrary movements and their violation. Pyramid system. Corticonuclear and corticospinal pathways. Bulbar and pseudobulbar paralysis. Alternating syndromes.	The main stages of development of neurological science, neurology in Ukraine, Lviv school of neurology. Structure, functions of the nervous system. Syndromes of defeat of various levels of CNS and PNS. Structure, functions of the ANS. Pathological syndromes. Cytoarchitectonics of the cerebral cortex. Syndromes of lesions and irritation of the cortex.	Зн -1 Зн -2	According to the schedule Professor Nehrych T. (Professor Maryenko L.)

Л-2	Anatomical and physiological data, pathology of the autonomic nervous system. Cortex. Disorders of higher brain functions (aphasia, apraxia).	Structure, functions of the ANS. Pathological syndromes. Cytoarchitectonics of the cerebral cortex. Syndromes of lesions and irritation of the cortex.	Зн-1 Зн-2	According to the schedule Professor Shevaga V. (professor Nehrych T.)
Л-3	Vascular diseases of the brain and spinal cord. Transient ischemic attacks.	Blood supply to the brain. Risk factors for vascular pathology. Classification, etiology, diagnosis, rehabilitation and prevention from the standpoint of evidence-based medicine.	Зн-1 Зн-2	According to the schedule Professor Nehrych T. (Professor Maryenko L.)
Л-4	Demyelinating diseases of the nervous system. Amyotrophic lateral sclerosis. Myasthenia. Parkinson's disease.	Modern ideas about the pathogenesis, types of course, diagnosis and treatment of multiple sclerosis and other neurodegenerative diseases.	Зн-1 Зн-2	According to the schedule Professor Nehrych T. (Professor Maryenko L.)
Л-5	Epilepsy and non-epileptic paroxysmal conditions.	Modern classification, diagnosis and approaches to the treatment of epilepsy. Differential diagnosis of paroxysmal conditions.	3н-1 3н-2	According to the schedule Professor Nehrych T. (Professor Maryenko L.)
Л-6	Diseases of the peripheral nervous system.	The structure of PNS, classification of disorders, features of clinical manifestations, treatment at all stages.	Зн-1 Зн-2	According to the schedule Professor Shevaga V. (professor Nehrych T.)
Π-1(2)	Principles of structure and functioning of the nervous system. Functional unit of the nervous system. Clinical classification sensitivity. Anatomy of sensitive pathways. Methods of sensitivity research. Types and types of sensitive disorders.	The main stages of phylogeny and ontogenesis of the nervous system. Structural and functional unit of the nervous system. Types of neurons, their functional significance. Neuroglia, its functional significance. The concept of functional systems. Blood supply to the brain and spinal cord. Meninges and spinal cord. Cerebrospinal fluid.	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	According to the schedule
П-3	Pathology of olfactory and visual analyzers.	Olfactory nerve, optic and vestibule-cochlear	Зн-1 Зн-2	According to the schedule

Trigeminal, facial, vestibocochlear nerves and symptoms of their defeat. II-4 Representation of reflex and reflex arc. Pathological reflexes, research methods. Arbitrary movements and their violations. Pyramid system. Cortico-spinal and cortico-nuclear pathways. Symptom complexes of movement disorders at defeat of various levels cortico-muscular pathway. II-5 Syndromes of coulomotor nerve damage. Trigeminal (motor portion), facial nerves and symptoms of their defeat. Pathology of IX-XII pairs of cranial nerves. Bulbar and pseudobulbar syndromes. III - 6 Extrapyramidal system and syndromes of its defeat. Cerebellum. Syndromes of cerebellar lesions. Types of ataxia. Tryes of ataxia. III - 6 Extrapyramidal system and syndromes of its defeat. Cerebellum. Syndromes of cerebellar lesions. Types of ataxia. III - 6 Extrapyramidal system, is extrapyramidal system. Modern ideas about the metabolism and concentration of accentral and concentration of the extrapyramidal system. Modern ideas about the metabolism and concentration of the extrapyramidal system. Syndromes of lesions of the extrapyramidal system. Modern ideas about the metabolism and concentration of the extrapyramidal system. Syndromes of lesions of the extrapyramidal system the metabolism and concentration of the extrapyramidal system. Syndromes of lesions of the extrapyramidal system the metabolism and concentration of the extrapyramidal system. Syndromes of lesions of the extrapyramidal system the supplementation of the extrapyramidal system the supplementation of the extrapyramidal system the supp		Tricominal facial	nomyon basis and table 1	V ₂₄ 1	
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		Anatomical and physiological features of the cerebellum. Functions of the cerebellum. Syndromes of cerebellar lesions. Types of ataxia: (cerebellar, cortical,		
		vestibular, sensitive).		
Π-7	Anatomical and physiological data, pathology and methods of study of the autonomic nervous system. Anatomical and physiological data, syndromes of lesions and irritation of the cortex. Disorders of higher brain functions.	Segmental department of the autonomic nervous system. Suprasegmental department of autonomic functions: limbic system, Methods of research of autonomic functions. Hypothalamic syndrome. Vegetative-vascular paroxysms. Motor and sensory representation in the cortex. The concept of functional asymmetry of the hemispheres. Gnostic functions. Praxis. Language. Syndromes of lesions of individual lobes of the large hemispheres, limbic cortex. Syndromes and lesions of the irritation of the cortex of the large hemispheres. The concept of interhemispheric	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	According to the schedule
П-8	Liquor diagnostics. Meningeal syndrome.	asymmetry. Meninges and spinal cord. Physiology of	Зн-1 Зн-2	According to the schedule
	Functional diagnosis of diseases of the nervous system. Practical skills experience.	cerebrospinal fluid formation. Meningeal symptoms. X-ray, contrast X-ray examinations. Ultrasonic. Electrophysiological; Methods of neuroimaging (computed tomography, magnetic resonance imaging).	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	
П - 9	Independent curation of patients with a case history writing. Headache. Intracranial hypertension. Sleep disorders.	Etiology and mechanisms of headache. Classification. Nosological forms of headache: migraine, tension headache, cluster headache. Differential	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1	According to the schedule

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		diagnosis, principles of	K-2	
		treatment. Disorders of		
П 10	X 1 1 1 C	sleep and awakening.	D 1	A 7:
П-10	Vascular diseases of	Acute cerebrovascular	Зн-1	According to the
	the brain and spinal	disorders. Chronic	Зн-2	<u>schedule</u>
	cord. Transient	cerebrovascular	Ум-1	
	ischemic attacks.	disorders. Vascular	Ум-2	
		dementia. Differential	Ум-3	
		diagnosis of different	Ум-4	
		types of acute cerebral	K-1	
		circulatory disorders.	K-2	
		Modern methods of		
		undifferentiated and		
		differentiated therapy of		
		acute cerebrovascular		
		disorders. The period of		
		the "therapeutic		
		window". Indications and		
		contraindications for		
		surgical treatment of cerebrovascular		
П- 11	Enilancy and non	disorders. Epilepsy. Pathogenesis of	3н-1	Current control
11- 11	Epilepsy and non- epileptic paroxysmal	the disease.	3н-1 3н-2	
	conditions.	Classification of epileptic	Ум-1	in practical classes
	conditions.	seizures. Principles of	y_{M-1}	ciusses
		differentiated treatment	y_{M-2}	
		of epilepsy. Status	y_{M-4}	
		epilepticus (diagnosis,	K-1	
		emergency care). Non-	K-2	
		epileptic paroxysmal	10.2	
		conditions.		
П -12	Neurological aspects of	Modern aspects of	Ум-1	Current control
11 12	traumatic brain injury.	classification of	Ум-2	in practical
	Spinal	craniocerebral trauma.	Ум-3	classes
	trauma. Occupational	Complications of	Ум-4	
	and domestic	traumatic brain injury.	K-1	
	neurointoxication.	Emergency care for	K-2	
	Defeat	traumatic brain injury.		
	nervous system under			
	the influence of			
	physical factors.			
П -13	Meningitis.	Meningitis.	Зн-1	Current control
	Classification.	Classification of	Зн-2	in practical
	Etiology. Clinic,	meningitis: primary and	Ум-1	classes
	diagnosis,	secondary, purulent and	Ум-2	
	treatment.	serous. Purulent	Ум-3	
	Encephalitis.	meningitis. Clinic,	Ум-4	
	Poliomyelitis. Acute	diagnosis, cerebrospinal	K-1	
	myelitis. Classification.	fluid indicators,	K-2	
	Etiology. Clinic,	treatment, prevention.		
	diagnosis, treatment.	Serous meningitis.		
	Acute viral COVID	Clinic, diagnosis, the		
	infection of the nervous	importance of		

	evetom	corobrogning! flyid		
	system.	cerebrospinal fluid		
		research in differential		
		diagnosis, treatment,		
		prevention. Features of		
		acute disorders of the		
		nervous system in		
		COVID infection.		
П -13	Neurosyphilis.	Neurosyphilis. Early	Зн-1	Current control
	Neurological	neurosyphilis. Late	Зн-2	in practical
	manifestations of	neurosyphilis. Diagnosis,	Ум-1	classes
	polymyositis.	treatment methods.	Ум-2	
	Neuroborreliosis.	Neurological disorders of	Ум-3	
	Lesions of the nervous	polymyositis-	Ум-4	
	system in the of HIV	dermatomyositis:	K-1	
	infection. Tuberculosis	etiology, pathogenesis,	К-2	
	of the nervous system.	clinical manifestations,		
	Neurological	additional methods of		
	manifestations of	examination, differential		
	COVID infection in the	diagnosis, treatment,		
	lesion of CNS and	prevention.		
	PNS.			
П -13	Amyotrophic lateral	Amyotrophic lateral	Зн-1	Current control
	sclerosis.	sclerosis. Etiology	Зн-2	<u>in practical</u>
	Demyelinating diseases	Pathogenesis.	Ум-1	<u>classes</u>
	nervous system.	Pathomorphology.	Ум-2	
		Clinic. Differential	Ум-3	
		diagnosis. Treatment.	Ум-4	
		Acute disseminated	К-1	
		encephalomyelitis.	К-2	
		Multiple sclerosis.		
		Modern theory of		
		pathogenesis.		
		Pathomorphology. Early		
		symptoms. Charcot		
		Triad. Marburg pentad.		
		Forms of the disease.		
		Differential diagnosis.		
П -13	Diseases of the	Vertebrogenic lesions of	Зн-1	Current control
	peripheral nervous	the peripheral nervous	3н-2	in practical
	system. Practical	system. Lesions of the	Ум-1	classes
	skills.	cranial nerves. Infectious	Ум-2	-
		polyneuropathy,	Ум-3	
		polyradiculoneuropathy	Ум-4	
		(Landry, Guillain-Barre).	K-1	
		(Land), Gainain Banc).	K-2	
П -14	Perinatal lesions of the	Etiological factors.	3н-1	Current control
11 17	nervous system.	Hypoxic-ischemic	3н-1	in practical
	Congenital defects of	encephalopathy.	Ум-1	classes
	the spinal cord.	Cerebral palsy.	y_{M-2}	CIMBBOD
	Syringomyelia.	Diagnosis. Treatment.	y_{M-2} y_{M-3}	
	Syringomyena.	Prevention.	y_{M-3} y_{M-4}	
		1 TO VOILLOII.	K-1	
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П -14	Hereditary	Modern principles of	3н-1	
11-14	i icicuital y	Modern principles of	OH-I	<u> </u>

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	degenerative nervous	classification.	Зн-2	
	diseases	Neuromuscular diseases.	Ум-1	
	systems.	Myotonia. Paroxysmal	Ум-2	
	Somatoneurological	myoplegia.	Ум-3	
	syndromes. Practical	Extrapyramidal	Ум-4	
	experience.	degeneration. Muscular	K-1	
		dystonia.	K-2	
C-1	The main stages of	The first studies of	Ум-1	Current control
	development of	diseases of the nervous	Ум-2	in practical
	neurological science.	system (Hippocrates,	Ум-3	classes
		Galen, Avicenna). The	Ум-4	
		study of neurology in the	K-1	
		universities of the Middle	K-2	
		Ages and the		
		Renaissance.		
		Organization of the first		
		departments of neurology		
		at universities (Moscow,		
		Kharkiv, St. Petersburg,		
		Kyiv, Lviv, etc.).		
		Domestic and foreign		
		neurological schools.		
		Modern directions of		
		neurology development:		
		differentiation of		
		neurological science		
		(creation of separate		
		centers and scientific		
		subdivisions for the study		
		of cerebrovascular,		
		demyelinating diseases,		
		epilepsy, neuromuscular		
		pathology, etc.) and		
		integration with other		
		sciences		
		(somatoneurology,		
		vertebral neurology).		
C-2	Principles of structure	The concept of reception.	Зн-1	Current control
	and functioning of the	Types of receptors.	3н-2	in practical
	nervous system.	Extraceptive,	Ум-1	classes
	Functional unit of the	proprioceptive,	Ум-2	
	nervous system.	interoceptive sensitivity.	Ум-3	
	Clinical classification	Clinical classification of	Ум-4	
	of sensitivity. Anatomy	sensitivity. Leading ways	К-1	
	of sensitive pathways.	of sensitivity. Research	К-2	
	Research methodology.	methodology. Types of		
	Types and types of	sensitive disorders:		
	sensitive disorders	anesthesia, hypoesthesia,		
	(symptom complexes	hyperesthesia,		
	of sensitive disorders in	hyperpathy, dysesthesia.		
	the defeat of different	Synesthesia, dissociated		
	levels of sensitive	disorders, polysthesia,		
	pathways).	paresthesia. Pain and its		
	paurways).	classification. The		
	1	Classification.		

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		concept of nociceptive and antinociceptive systems of the brain. Topical types of sensitive disorders: mononeuritic, polyneuritic, radicular, posterior horny, conductive (in the defeat of the leading sensitive pathways at the level of the spinal cord, medial loop, visual hump, inner capsule); cortical type (irritation and prolapse syndromes). Half-spinal cord injury syndrome (Brown-Sequard syndrome).		
C-3	Representation of reflex and reflex arc. Pathological reflexes, research methods.	Levels of closing of reflex arcs, physiological reflexes, pathological reflexes. Research methodology.	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4	Current control in practical classes
C-4	Arbitrary movements and their violations. Pyramid system. Cortico-nuclear and cortico-spinal pathways. Symptoms of central and peripheral paresis, pathogenesis of symptoms.	The structure of the pyramid path. Pareses, their manifestations depending on the level of damage to the pyramidal pathway.	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -5	Symptom complexes of movement disorders at defeat of various levels of a cortico-muscular way.	Pathological syndromes at defeat of a pyramidal way at different levels.	3H-1 3H-2 Ум-1 Ум-2 Ум-3 Ум-4 K-1 K-2	Current control in practical classes
C-6	Extrapyramidal system and syndromes of its defeat.	Biochemical theory of extrapyramidal rigidity. Differential diagnostics at different levels of CNS.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C – 7	Cerebellum. Syndromes of cerebellar lesions. Types of ataxia.	Differential diagnosis of ataxia. Types of hyperkinesis.	Ум-1 Ум-2 Ум-3 Ум-4 К-1	Current control in practical classes

			K-2	
C -8	Pathology of olfactory	Symptoms of the	Ум-1	Current control
	and visual analyzers.	olfactory analyzer.	Ум-2	in practical
	Syndromes of	Symptoms of a visual	Ум-3	classes
	oculomotor nerve	analyzer. Symptoms of	Ум-4	
	damage.	oculomotor nerves.	K-1	
			K-2	
C -9	Trigeminal, facial,	Symptoms of a ternary	Ум-1	Current control
- 1	vestibulo-cochlear	analyzer. Symptoms of	Ум-2	in practical
	nerves and syndromes	parietal-curly analyzer.	Ум-3	classes
	of their defeat.	Symptoms of the facial	Ум-4	
		nerve, diagnosis at	K-1	
		different levels of the	K-2	
		analyzer.		
C -10	Pathology of IX-XII	Symptoms of the bulbar	Ум-1	Current control
	pairs of cranial nerves.	group of cranial nerves,	Ум-2	in practical
	Bulbar and	diagnosis at different	Ум-3	classes
	pseudobulbar	levels of the analyzer.	Ум-4	
	syndromes.	Features of	K-1	
		manifestations of	K-2	
		peripheral and central		
		paresis.		
C -11	Anatomical and	Modern notions about the	Ум-1	Current control
	physiological data,	pathology of the ANS.	Ум-2	in practical
	pathology and methods	Pathological syndromes	Ум-3	classes
	of research of the	of the limbic-reticular	Ум-4	
	autonomic nervous	complex.	К-1	
	system.	-	К-2	
C -12	Anatomical and	Hemispheric asymmetry	Ум-1	Current control
	physiological data,	of the brain. Disorders of	Ум-2	in practical
	methods of studying	speech, movement,	Ум-3	classes
	cortical functions.	arithmetic, reading and	Ум-4	
	Syndromes of lesions	others with lesions of the	K-1	
	and irritation of the	cerebral cortex. Left and	K-2	
	cortex. Disorders of	right hemisphere		
	higher brain functions	syndromes.		
	(aphasia, agnosia,			
	apraxia and others).			
C - 13	Liquor diagnostics.	Normal cerebrospinal	Ум-1	Current control
	Meningeal syndrome.	fluid content. Liquor	Ум-2	in practical
	Functional diagnosis of	diagnosis in various	Ум-3	classes
	diseases of the nervous	pathological conditions.	Ум-4	
	system.	Diagnostic methods in	K-1	
		neurology.	K-2	
C -14	Practical experience.	Neurological status.	Ум-1	Current control
		Situational tasks, test	Ум-2	in practical
		tasks, description of the	Ум-3	classes
		presented research results	Ум-4	
		for preliminary	K-1	
		diagnosis. Treatment	K-2	
		protocols.		
C -15	Headache. Sleep	Types of headache,	Ум-1	Current control
	disorders.	diagnostic algorithm and	Ум-2	in practical
		modern approaches to	Ум-3	classes

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		treatment. Polysomnography as a method of diagnosing sleep pathology.	Ум-4 К-1 К-2	
C -16	Vascular diseases of the brain and spinal cord. Transient ischemic attacks.	Protocols for diagnosis, treatment, prevention and rehabilitation after stroke.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -17	Epilepsy and non- epileptic paroxysmal conditions.	Modern classification of epilepsy, diagnosis, first- and second-line drugs. Outcome.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -18	Occupational and domestic neurointoxication. Defeat of the nervous system under the influence of physical factors.	Influence of ionizing radiation on NS	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -19	Neurological aspects of traumatic brain injury. Spinal cord injury.	Algorithm for diagnostics of closed TBI. Assistance at the trauma center according to the protocol.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -20	Meningitis. Encephalitis. Acute viral COVID infection.	Diagnosis of primary and secondary meningitis.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -21	Poliomyelitis. Acute myelitis. Neurosyphilis. Neurological manifestations of polymyositis-dermatomyositis.	Differental diagnosis of inflammatory conditions in the defeat of peripheral structures, spinal cord, connective tissue structures.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -22	Lesions of the nervous system in the of HIV infection. Tuberculosis of the nervous system. Neuroberelliosis. Neurological manifestations of acute COVID infection on its consequences for the nervous system.	Complications (opportunistic) diseases in AIDS; complications of neurotuberculosis; neurological manifestations of neuroborreliosis.	Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	Current control in practical classes
C -23	Parasitic diseases of the nervous system, prion	Modern theories of prion diseases, diagnostics at	Ум-1 Ум-2	Current control in practical

C -24 Amyotrophic lateral sclerosis. C -24		infections.	the present stage.	Ум-3	classes
C -24 Amyotrophic lateral sclerosis. C -24 Amyotrophic lateral sclerosis. C -25 Demyelinating diseases of the nervous system. C -26 Diseases of the peripheral nervous system. C -27 Perinatal lesions of the nervous system. C -28 C -27 Perinatal lesions of the nervous system. C -29 Somatoneurological syndromes. C -29 Somatoneurological syndromes. C -30 Hereditary and degenerative diseases of the nervous system. C -30 Drugs used in neurology. C -31 Drugs used in neurology. C -31 Drugs used in neurology. D -25 Modern theories of ym-1 wh-2 current control in practical classes ym-4 k-1 k-2 wh-4 k-1 k-2		in consist	are present stage.		ciusses
C -24					
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in various conditions. Prescription. ym-1 ym-2 ym-3 ym-4			drugs used in neurology	Зн-2	in practical
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Ум-3 Ум-4			Prescription.	Ум-2	
				Ум-3	
				Ум-4	
K-1				K-1	
К-2				K-2	

C -32	Practical experience.	Examination of the	3н-1
		patient, registration of	Зн-2
		medical history,	Ум-1
		algorithm of diagnostics,	Ум-2
		treatment with use of	Ум-3
		instructions (protocols)	Ум-4
		on each nosology.	K-1
		Drawing up a	K-2
		rehabilitation plan for the	
		patient. Secondary	
		prevention.	

Total:

Lectures - 12 hours.

Practical classes - 56 hours.

Independent students' work - 67 hours.