Syllabus of discipline			
"CURRENT PROBLEMS OF NEUROLOGY"BE 1.72			
2023-2024 academic year			
The name of the faculty	Dental		
Educational program (area,	22 Healthcare, 222 Medicine, second (master's) level of higher		
specialty, level of higher education,	education, full-time		
form of education)			
Academic year	2023-2024		
Name of discipline, code	Bb1.72 «Current problems of neurology»		
	Kaf_neurology@meduniv.Lviv.ua		
Department	79010, Lviv,LRCH, Y.Rufa str., 6		
	tel. +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	5th year, medical faculty		
study of the discipline is carried out)	0.10		
Semester (semester in which the	9-10 semesters		
study of the discipline is			
implemented)	Election discipline		
Type of course / module (mandatory	Elective discipline		
/ optional)	Nahmuch Totuono Dr. Mad Sci. Drofosson Hand of the		
Teachers (names, surnames,	Nehrych Tetyana, Dr Med Sci, Professor, Head of the		
scientific degrees and titles of	Department of Neurology		
teachers who teach the discipline,	Maryenko Lidiya, Dr Med Sci, Professor of the Department of Neurology		
contact e-mail)	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	Kaf_neurology@meduniv.Lviv.ua		
syllabus, contact e-mail)			
Number of ECTS credits	2		
Number of hours	60 hours - total:		
	26 hours - practical classes,		
	34 hours - independent work		
Language of instruction	Ukrainian		
Information about consultations	according to the schedule of consultations (presented at 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 "Actual problems of neurology" is designed to train specialists of the second (master's) level of higher education, field of knowledge 22 "Health", specialty 222 "Medicine". The program offers consideration of the main neurological diseases from the standpoint of evidence-based medicine, considers the basic principles of disease diagnosis using guidelines, offers the acquisition of practical skills for use in practice. The organization of the educational process is carried out according to the European credit transfer system ECTS. The program is designed for 60 study hours / 2 credits.

3. The purpose and objectives of the course

The purpose of teaching the discipline "Actual problems of 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.

Learning objectives: to determine the tactics of examination of the patient and formulate a clinical diagnosis (review of neurological status, prescribe the necessary laboratory and instrumental research methods, provide emergency care for major neurological diseases, develop rehabilitation and prevention of major neurological diseases from the standpoint of evidence-based medicine.

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

• ability to act socially responsibly and consciously;

• ability to apply knowledge in 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-oriented):
- determine the tactics of examination and management of the patient with various neurological diseases;
- interpret the results of laboratory and instrumental research methods;
- formulate a preliminary clinical diagnosis of the disease;
- formulate general treatment tactics;
- demonstrate the ability to keep medical records in a neurology clinic;

• demonstrate mastery of the principles of clinical deontology.

4. Course details

"Actual problems of neurology" – discipline consists of theoretical and practical sections.

The theoretical section has a professional and applied nature and is implemented in the form of explanations of educational material in the process of practical classes, independent study of special literature by students, writing essays and presenting multimedia presentations, participation in the scientific student group of neurology and is based on medical biology, biological and bioorganic chemistry, histology, physiology and pathological physiology, human anatomy and pathomorphology and integrates with these disciplines; as well as propaedeutic disciplines of therapeutic profile, pharmacology, radiology and integrated with these disciplines; integrates with other clinical disciplines (internal medicine, neurosurgery, oncology, psychiatry, medical genetics, etc.); is differentiated - the formation of certain areas of neurological science, which have independent international organizations: epileptology; cerebrovascular pathology; neuromuscular diseases; migraine and other types of headaches; parkinsonology; multiple sclerosis and other demyelinating diseases; degenerative - dystrophic diseases of the spine, somatoneurological syndromes and emergencies in these diseases.

Practical section - involves students mastering practical skills and abilities, the use of standards (protocols) for care in various nosologies, writing a medical history with the formation of knowledge about diagnosis and treatment from the standpoint of evidence-based medicine.

5. Program learning outcomes

The study of the discipline **"Actual problems of neurology"** provides the following program learning outcomes:

Knowledge: the main modern methods of diagnosis and treatment, their purpose according to

treatment protocols from the standpoint of evidence-based medicine; demonstrate knowledge of systematization and diagnosis; to analyze instrumental and laboratory methods of examination, treatment protocols and examinations of patients that are accepted and implemented in the state.

Skills: to master the principles of classification of vascular diseases of the brain; analyze clinical forms of ischemic strokes; principles of undifferentiated and differentiated treatment of strokes; prevention of acute cerebrovascular disorders.

-interpret the modern classification of epileptic and non-epileptic paroxysmal states; diagnose status epilepticus and provide emergency care.

-interpret the main types of cephalgia and their treatment.

-master the principles of classification of infectious diseases of the nervous system; clinic of the main nosological forms of infectious diseases; interpret forms of neurosyphilis; to analyze the lesions of the nervous system in the presence of HIV infection.

-master modern aspects of etiopathogenesis, clinical forms, treatment of demyelinating diseases.

-master the principles of vertebrogenic and nonvertebrogenic diseases of the peripheral nervous system.

-analyze the neurological manifestations of hereditary and degenerative diseases of the neuromuscular, extrapyramidal, pyramidal, cerebellar systems.

-interpret neurological syndromes in diseases of internal organs, paraneoplastic syndromes.

-to assimilate drugs used in patients of neurological profile from the standpoint of evidence-based medicine;

-to conduct examinations of patients, to formulate a preliminary and to make a differential diagnosis of neurological diseases.

Communication: Establish appropriate connections to achieve goals. To form a communication strategy in professional activity. Use information and communication technologies in professional activities. Adhere to the provisions of the Doctor's Code of Ethics when communicating with patients and colleagues. Adhere to the current legal norms of the "doctor" \rightarrow patient relationship during professional activity. Maintain a healthy psychological microclimate in the team. Interact with medical staff at 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; a sense of responsibility for the correctness and timeliness of care to the patient. Adhere to the requirements of ethics, bioethics and deontology in their professional activities. Adhere to the relevant ethical and legal norms.

6. Course format and scope				
Course format	Full-time			
Kind of classes	Number of hours	Number of groups		
Lectures	-	(according to the schedule)		
Practical classes	26			
Seminars	-			
Independent	34			
	7 Tanias and contant of the cours	as (ann an dire attached)		

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

In the process of studying the discipline "Actual problems of 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;

generalization, formation of skins, 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

Learning outcome code	Code type of	Method of verifying	Acception criteria
	the class	learning outcomes	
Зн-1-15, Ум-1-15,	П-26,	Test control:	Test control:
K-1, AB-1	<i>CPC-34</i>	the student receives 10	from 5-6 (50-60%) -
		tests, answers and receives	satisfactory;
		the result in points (from 0	7-8 (70-80%) - good;
		to 10) and percent (from 0	9-10 (90-100%) -
		to 100).	excellent.
		Individual oral examination	Demonstration of practica
		of theoretical material,	skills: the student must be
		which is included in	able to demonstrate all the
		methodological	structures that are in the
		developments on relevant	list of practical skills.
		topics;	Answer to the teacher's
		- solving situational	question: the student
		problems;	answered all the teacher's
		- ability to differentiate	questions, demonstrated
		different forms and	the ability to think
		manifestations of diseases;	logically - excellent.
		- demonstration of practical	The student answered all
		skills: the student must be	the questions of the
		able to demonstrate	teacher, demonstrated the
		practical skills in	ability to think logically,
		neurological status, which	made 1-2 mistakes or
		is listed.	inaccuracies - well. The
		- drawing up a protocol of	student answered some
		medical history	questions of the teacher,
			demonstrated the ability t
			think logically, but is
			confused in the conduct of
			topical diagnostics -
			satisfactory.

Final control

The evaluation is conducted on a 200-point scale.

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.

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.

Grade "5" - 200-170 points;

Grade "4" - 169-140 points;

Scores "3" - 139-120 points.

Assessment of independent work:

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.

10. References:

- 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.
- 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 с.
- 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 Services LLC (August 8, 2019)
- 6. Pietro Mazzoni, Toni Pearson, Lewis P Rowland. Merritt's Neurology Handbook (Hardcover) LWW; Thirteenth edition (October 3, 2015).

Information resources:

Internet sources

- http://meduniv.lviv.ua/index.php?option=com_content&view=article&id=137&Itemid=173&lang=uk Nevrologi.com.ua
- 1. http://www.mif-ua.com/archive/mezhdunarodnyij-nevrologicheskij-zhurnal/numbers

2. <u>http://neuronews.com.ua</u>

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 scientific student group: Lecturer Ass. Bozhenko Myroslav

Responsible for safety at the department: Lecturer Ass. Wiwchar Roman

Syllable's author Malyarska Nataliya, PhD, Associate Professor

(Signature)

(Signature)

Head of Department Nehrych Tetyana, Dr Med Sci, professor

ADDITION

scheme of the discipline "Actual problems of neurology"

Class type	Торіс	Learning content	Learning	Teacher
code			outcome	
			code	

Assessment of independent work:

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12. Additional Information

Head of Department

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Syllable's author Malyarska Nataliya, PhD, Associate Professor

Nehrych Tetyana, Dr Med Sci, professor

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(Signature)

(Signature)

ADDITION

scheme of the discipline "Actual problems of neurology"

Class type code	Topic	Learning content	Learning outcome code	Teacher
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П-1	Vascular diseases of	Classification. Acute	Зн -1	According to
2 hours	the brain and spinal	cerebrovascular disorders: strokes	Зн -2	the schedule
2 110015	cord.	and transient ischemic attacks and	Ум-1	<u>ine scheduie</u>
	cord.	cerebral hypertensive crises.	Ум-1 Ум-2	
		Vascular dementia.	Ум-2 Ум-3	
		Etiological factors and	Ум-4	
		pathogenesis of acute	K-1	
		cerebrovascular disorders.	К-2	
		Symptoms of damage to the		
		anterior, middle, posterior cerebral		
		arteries. Syndromes of occlusion		
		and stenosis of the main vessels of		
		the brain. General cerebral and		
		focal syndromes.		
		Differential diagnosis of different		
		types of acute cerebral circulatory		
		disorders.		
		Modern methods of		
		undifferentiated and differentiated		
		therapy. The period of the		
		"therapeutic window". Indications		
		and contraindications to surgical		
		treatment. Spinal strokes. Rehabilitation and examination of		
		able-bodied patients.		
		Prevention of vascular diseases of		
		the brain and spinal cord.		
П-2	Epilepsy and non-	The pathogenetic essence of the	Зн-1	According to
1 hour	epileptic paroxysmal	epileptic focus in the development	3н-2	the schedule
	conditions.	of the disease. Significance of	Ум-1	
		endogenous and exogenous factors	Ум-2	
		involved in the formation of the	Ум-3	
		epitope. Classification of epileptic	Ум-4	
		seizures. Status epilepticus	K-1	
		(diagnosis, emergency care).	<i>K</i> -2	
		Non-epileptic paroxysmal states		
		Differential diagnosis of epilepsy		
		and non-epileptic paroxysmal		
		states. Treatment of paroxysm and		
П-3	Perinatal pathology.	treatment in the interictal period. Perinatal risk factors and the	Зн-1	According to
11-3 1 hour	r crinatar patilology.	formation of pre-perinatal	3н-1 3н-2	the schedule
1 11001		pathology. Assessment of physical	Ум-1	me seneune
		development of newborns.	Ум-2	
		Vaccination of newborns according	Ум-2 Ум-3	
		to the vaccination calendar and	Ум-4	
		regulations of the Ministry of	К-1	
		Health of Ukraine. Fetal hypoxia	К-2	
		and neonatal asphyxia. CNS birth		
		trauma. Spinal birth injury.		
П-4	Infectious diseases	Meningitis. Classification of	Зн-1	<u>According to</u>
1 hour	of the nervous	meningitis: primary and secondary,	Зн-2	<u>the schedule</u>
	of the nervous system.	meningitis: primary and secondary, purulent and serous. Clinic, diagnosis, cerebrospinal fluid	Зн-2 Ум-1 Ум-2	<u>the schedule</u>

		• • •	<i>M</i> 2	1
		indicators, treatment, prevention.	Ум-3	
		Encephalitis. Classification.	Ум-4	
		Primary encephalitis: epidemic,	К-1	
		tick-borne spring-summer, herpetic.	К-2	
		Secondary encephalitis. Clinic,		
		course, forms of the disease,		
		diagnosis.		
		Acute COVID-infection, clinic,		
		course, diagnosis.		
		Neurological manifestations of		
		COVID infection.		
		Acute myelitis. Liquor diagnostics.		
		Differential diagnosis. Treatment.		
		Neurosyphilis. Early neurosyphilis		
		(mesodermal), late neurosyphilis		
		(parenchymal). Diagnosis,		
		treatment methods.		
		NeuroAIDS. Etiology,		
		pathogenesis, key clinical		
		manifestations: dementia, acute		
		meningoencephalitis and atypical		
		aseptic meningitis, myelopathy,		
		lesions of the peripheral nervous		
		system.		
		Tuberculous meningitis (clinic,		
		course, cerebrospinal fluid).		
		Diagnosis, modern methods of		
		treatment, prevention.		
П-5	Headache: primary,	Etiology and mechanisms of	Зн-1	<u>According to</u>
2 hours	secondary. Other	headache: vascular, cerebrospinal	Зн-2	<u>the schedule</u>
	types of headaches.	fluid, neuralgic, muscle tension,	Ум-1	
		psychalgic, mixed. Classification.	Ум-2	
		Nosological forms of headache:	Ум-3	
		migraine, muscle tension pain,	Ум-4	
		beam pain. Differential diagnosis,	К-1	
		principles of treatment.	К-2	
		Migraine etiology, modern		
		mechanisms of pathogenesis.		
		Headache in intracranial		
		hypotension syndrome and		
		intracranial hypertension syndrome		
		(etiopathogenetic factors, clinical		
		and instrumental data).		
П-6	Pathology of the	Neurological manifestations of	Зн-1	<u>According to</u>
1 hour	ANS.	asthenic syndrome, psycho-	Зн-2	<u>the schedule</u>
		vegetative syndrome, panic attacks,	Ум-1	
		peripheral syndromes: vegetative-	Ум-2	
		vascular and vegetative-trophic	Ум-3	
		syndromes, Raynaud's syndrome);	Ум-4	
		CNS lesions, (hypothalamic	K-1	
1			К-2	
		dysfunction), additional methods of	K-2	
		examination, differential diagnosis,	K-2	
П-7	Diseases of the		3н-1	According to

1 hour	peripheral nervous	the peripheral nervous system.	Зн-2	the schedule
	system.	Vertebrogenic lesions of the	Ум-1	
	~	peripheral nervous system.	Ум-2	
		Cervical level: reflex syndromes	Ум-3	
		(cervicago, cervicalgia;	Ум-4	
		cervicocranioalgia or posterior	K-1	
		vertebral artery syndrome and	К-2	
		cervicobrachialgia with muscular,		
		vegetative-vascular or neuro-		
		dystrophic manifestations).		
		Radiculal syndromes (discogenic		
		lesions of radiculopathy roots).		
		Radicular and vascular syndromes		
		(radiculoischemia).		
		Chest level; reflex syndromes		
		(thoracic, thoracalgia with		
		muscular-tonic vegetative-visceral		
		or neurodystrophic manifestations).		
		Radiculal syndromes (discogenic		
		lesions of the roots -		
		radiculopathy).		
		Lumbosacral level: reflex		
		syndromes (lumbago, lumbalgia,		
		lumboischialgia with muscular,		
		vegetative-vascular or		
		neurodystrophic manifestations).		
		Radiculal syndromes (discogenic		
		lesions of the roots - radicopathy).		
		Radicular and vascular syndromes (radiculoischemia).		
П-8	Hereditary and	Progressive muscular dystrophies.	Зн-1	According to
1 hour	degenerative	Myopathies. Myotonia.	Зн-1 Зн-2	the schedule
1 nour	diseases of the	Myasthenia. Myasthenic	Ум-1	<u>ine seneune</u>
	nervous system.	syndromes. Paroxysmal myoplegia.	Ум-2	
		Paroxysmal myoplegia syndrome.	Ум-3	
		Extrapyramidal degeneration.	Ум-4	
		Hepatocerebral degeneration.	К-1	
		Huntington's disease.	К-2	
		Modern biochemical aspects of		
		Parkinson's disease and its		
		treatment. Spinocerebellar ataxias.		
		Pyramidal degeneration. Principles		
		of treatment.		
П-9	Demyelinating	Acute disseminated	Зн-1	<u>According to</u>
1 hour	diseases of the	encephalomyelitis. Multiple	Зн-2	<u>the schedule</u>
	nervous system.	sclerosis. Modern theory of	Ум-1	
		pathogenesis. Pathomorphology.	Ум-2	
		Early symptoms. The main clinical	Ум-3 Ум-4	
		forms of the Charcot's triad.	Ум-4 И 1	
		Marburg's pentad. Differential	К-1 К-2	
		diagnosis. Treatment (in the period of exacerbation, in the period of	N-2	
		remission: interferon drugs,		
		stimulants of interferon production,		
	1	summants of interferon production,		

		combination drugs, monoclonal antibodies).		
П-10 1 hour	Somato- neurological syndromes.	Somatoneurological syndromes that occur as a result of metabolic disorders of the nervous system, hypoxia, pathological reflex impulses in somatic diseases. Somatoneurological syndromes in diseases of the lungs, heart, blood system, digestive tract, liver, kidneys, endocrine system, collagenosis. Paraneoplastic syndrome. Treatment. Prevention.	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	<u>According to</u> <u>the schedule</u>
П-11 2 hour	Emergencies.	Cerebral crises. Disorders of consciousness and comatose states, Epileptic and non-epileptic paroxysmal disorders, status epilepticus, hypertensive crisis, asphyxia (perinatal), myasthenic crisis.	Зн-1 Зн-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	<u>According to</u> <u>the schedule</u>
C-1 18 hours	Independent elaboration of topics that are not included in the plan of classroom classes.	 Vertebrogenic syndromes in pathology of the spine. Prevention of vascular diseases of the brain and spinal cord. Rehabilitation of patients after a stroke: modern aspects to improve the quality of life of the patient. 	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	
П-12 2 hours	Functional diagnosis of diseases of the nervous system.	X-ray (cranio-, spondylography), Contrast X-ray examinations (myelography, angiography, ventriculography), Ultrasound (echoencephalography, Doppler), Electrophysiological (electroencephalography, rheoencephalography, echo- encephalography). Methods of neuroimaging (computed tomography, magnetic resonance imaging, including in the vascular mode), positron emission tomography.	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	<u>According to</u> <u>the schedule</u>
C-2 4 hours	Functional diagnosis of diseases of the nervous system.	Cerebrospinal fluid diagnosis in various neurological diseases.	Зн-1 Зн-2	
П-13 1 hours	Drugs used in neurology.	Groups of drugs used to treat neurological diseases: neuroprotectors; drugs that improve cerebral hemodynamics; antiparkinsonian drugs; anticonvulsants; antimigraine, vegetotropic, antiatherosclerotic, biogenic stimulants; neuroleptics;	3н-1 3н-2 Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	<u>Згідно</u> графіку

		anti-stress drugs; interferons; drugs used in neuromuscular diseases, autoimmune and demyelinating diseases, herpetic lesions, muscular dystonias and hyperkinesias and		
		others.		
C-3 4 hours	Drugs used in neurology.		Зн-1 Зн-2	
П-14 2 hours	Practical experience. Analysis of patients.		Ум-1 Ум-2 Ум-3 Ум-4 К-1 К-2	<u>According to</u> <u>the schedule</u>
C-4 2 hours	Individual independent work.			
C-5 during the year	Participation in a scientific student group, interuniversity competitions			
П-15 2 hours	Preparation for the test		Зн-1 Зн-2	<u>According to</u> <u>the schedule</u>
C-6 10 hours	Theoretical training and mastering of practical skills.		Зн-1 Зн-2	
П-16 2 hours	Test.			<u>According to</u> <u>the schedule</u>
	Totally: Practical classes - 26 Independent work - 3		1	