

SYLLABUS

Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery
Working training program of the discipline: «Neurology»
Educational program «General Medicine» 6B10101

1.	General information about the course		
1.1	Course Code:Neur 5306	1.6	Academic year: 2023-2024
1.2	Coursename:Neurology	1.7	Year:5
1.3	Prerequisites: morphology and physiology, pathology of organs and systems, introduction to the clinic, pharmacology, the basics of childhood diseases 1, 2, the basics of internal diseases 1, 2.	1.8	Term:9
1.4	Post-requisites: neurology in general practice	1.9	Number of credits (ECTS):5 150 hours
1.5	Cycle: PD	1.10	Component: HEIC
2.	Coursedescription (maximum 50 words)		
The discipline forms fundamental theoretical knowledge of the patterns of structure and functions of the nervous system, symptoms and syndromes of damage to its various departments, blood supply to the central nervous system, and also studies the etiology, pathogenesis, methods of diagnosis, treatment and prevention of neurovascular, neuromuscular, demyelinating diseases, motor disorders.			
3.	Summativeassessmentform		
3.1	Testing	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral ✓	3.7	Project
3.4	OSPE / OSCE or Practical Skills Acceptance	3.8	Other (specify)
4.	Discipline objectives		
The formation of knowledge, skills and practical skills necessary: for the early diagnosis of neurological, mental and narcological diseases in adults and children in the clinic and at home; for carrying out a complex of medical and preventive measures at the pre-hospital stage and in the treatment of neurological, mental and narcological diseases of patients at home; for the diagnosis of emergency conditions and the provision of medical care for neurological, mental and narcological diseases at the pre-hospital and hospital stage and the determination of forensic psychiatric and narcological examinations.			
5.	Learning outcomes (Course learning outcomes)		
CLO1.	Demonstrates knowledge of the basics of diagnosing neurological patients; clinical indications for hospitalization; home management rules		
CLO2.	Participates in the preparation of patients taking part in the implementation of laboratory and instrumental methods of research; applies safety principles when working with neurological patients, participates in the organization of preventive measures; applies methods of scientific research and academic writing in neurology; applying knowledge and understanding of facts, events, theories and complex dependencies between them in neurology; understands the importance of the principles and culture of academic integrity;		
CLO3.	Formulates a standard definition of urgent neurological, mental and drug addiction conditions; medical history in these patients;		
CLO4.	Observes the principles at work confidentially with neurological, psychiatric and substance abuse patients, independently solve problems in the field of professional activity. Forms positive relationships with colleagues		
CLO 5.	Uses of treatment protocols for selecting a drug		

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CLO 6.	Interprets, justifies the history data, prepares medical records					
CLO 7.	Aware of the need to maintain confidentiality in professional relationships when working with neurological, mental and narcological patients, is willing to work independently. Demonstrates commitment to professional ethics.					
5.1	Course learning outcomes	The learning outcomes of the EP, which are related to the learning outcomes of the course				
	CLO 1 CLO 2 CLO 3	CLO1 Provides patient-centered care in the field of biomedical, clinical, epidemiological and socio-behavioral sciences for the most common diseases.				
	CLO 4 CLO 5	CLO2 Carries out his/her activities within the framework of the legislation of the Republic of Kazakhstan in the field of healthcare, is guided by them in his/her practical activities to ensure optimal medical care.				
	CLO 7	CLO3 Adheres to the rules of ethics, deontology and subordination, demonstrates interpersonal and communication skills that lead to effective information exchange and cooperation with patients, their families and medical professionals.				
	CLO 6	CLO 4 Conducts effective measures aimed at the diagnosis, treatment, prevention of common and early forms of diseases.				
6.	Detailsofthecourse					
6.1	Location (building, auditorium): City hospital № 2, Zhandosov street 92. Email address: kafedranevrologii@bk.ru					
6.2	Number of hours	Lectures	Prac. Lessons	SIW	SIWT	Preparation and conduct of final certification
		15	35	56	30	14
7.	Information about teachers					
№	Full name	Degrees and title	Email address		Scientific interests, etc..	Achievements
1.	Mustapaeva Gulnara Abdymazhitovna	Candidate of Medical Sciences, associate professor	E-mail: gul_nara78@mail.ru Contact number: 87787886510		Research interests: angioneurology, neurology.	Author of more than 80 scientific articles, 1 textbook.
2.	Esetova Aynur Amirhanovna	Assistant	E-mail: esetova.aynura@mail.ru Contact number: 87789474404		Research interests: neurology.	Author of more than 30 scientific articles
3.	Abdraimova Saltanat Orynbasarovna	Assistant	E-mail: Salta1403@mail.ru Contact number: 87018820308		Research interests: angioneurology, neurology.	Author of over 10 scientific articles
4.	Suleimenov Murat	Assistant	E-mail:		Research	Author of more

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	Anarbekovich		suleymenov_mura@mail.ru Contact number: 87754881848	interests: adult and pediatric neurology, instrumental research methods in neurology.	than 5 scientific articles
5.	Muminova Roza Kulmatovna	Assistant	E-mail: roza.muminova.94@mail.ru Contact number: 87753111114	Research interests: adult and pediatric neurology, instrumental research methods in neurology.	Author of more than 5 scientific articles

8. Thematic plan						
Week/ Day	Topic	Summary	Course learning outcomes	Number of hours	Forms / methods / learning technologies	Forms / assessment methods
1	Lecture. Theme: Introduction to the specialty. Structural elements of the nervous system. Transmission of information in the nervous system. Sensitivity, symptoms and syndromes of lesion, research methods.	Description and history of development of neurology. Transmission of information in the nervous system. Mediators and receptors. Ascending pathways of the spinal cord, classification of types of sensitivity, symptoms and syndromes of damage.	CLO 2	2	Review	Feedback
	Practical lesson. Theme: Sensitivity, symptoms and syndromes of lesion, research methods.	Peripheral and central sections of the somatosensory system. Anterior spinothalamic tract. Lateral spinothalamic tract.	CLO 1	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic

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		Sensory disorders depending on the level of damage to sensitive pathways. Superficial and deep sensitivity studies. Syndromes of disorders of superficial and deep sensitivity. Topical diagnosis of sensory lesions.				material
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Transverse myelitis 2. Multiple sclerosis 3. Guillain-Barré syndrome	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project topic: Clinical and demographic analysis of Parkinson's disease in the southern region of Kazakhstan Plan: 1) Identification and concretization of the problem and definition of the goal, objectives, hypothesis of the project. Development of the concept of the project. Selecting the type of project product; 2) Determination of methods for	CLO 1	3-5	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.

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		solving the problem, sources of information (databases, regulatory documentation, etc.), methods for collecting and analyzing it. 3) Determining how to present the result, project structure, content, drawing up a roadmap, distribution of roles in the project. 4) Working with information. Conducting research, calculations. Application of data processing methods, analysis methods and tools, etc. 5) Implementation of the developed action plan of the project. Project design. Collective analysis of project results and self-assessment. Project protection. Responsible for the project: Zharkinbekova N.A., Abdraimova S.O. - determination of the leaders of the project activities of students and the organization of project teams;				
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		- definition of the topic; - identifying one or more problems; - clarification of the goals of the final result; - getting advice from project participants on the use of the Trello board in project work.				
2.	Lecture. Theme The pyramidal system, symptoms and syndromes of lesion, research methods.	Central division pyramidal system and syndromes his defeat. Motor zones of the cortex. Cortico-spinal and cortico-nuclear pathways. Syndromes of the defeat of the central part of the pyramidal system. The peripheral division of the pyramidal system and syndromes of its defeat. Topical diagnosis of the defeat of the pyramidal system.	CLO 2	2	Review	Feedback
	Practical lesson. Theme Pyramidal system, symptoms and syndromes of lesion, research methods.	Central Components of the Motor System and Clinical Syndromes of lesions affecting them. Motor cortical areas. Corticospinal tract (Pyramidal tract) and Corticonuclear (Corticobulbar) Tract. Lesions of central motor pathways.	CLO 1	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material

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	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Amyotrophic lateral sclerosis 2. Stroke the spinal cord 3. Acute disseminated encephalomyelitis 4. The syndrome of infringement of the brachial plexus 5. Syndrome infringement of the radial nerve 6. infringement of the ulnar nerve syndrome 7. The median nerve syndrome infringement	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. For the selected nosology, the student must draw up a clinical case: complaints, anamnesis and general examination, diagnosis and differential. diagnosis, treatment tactics and prognosis. Project: - determination of the leaders of the project activities of students and the organization of project teams; - definition of the topic; - identifying one or more problems; - clarification of the goals of the final result; - getting advice from project participants on the use of the Trello board in project work.	CLO 1	3-5	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g
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3.	Lecture. Theme The extrapyramidal system symptoms and syndromes of lesion, research methods. Cerebellum. Afferent and efferent pathways of the cerebellum. Cerebellar function and syndromes of its defeat.	The structure and role of the extrapyramidal system in human motor function. Basic clinical syndromes of defeat extrapyramidal system: akinetic-rigid syndrome, hyperkinetic syndrome. Topical diagnosis of lesions of the extrapyramidal system.	CLO 2	2	Review	Feedback
	Practical lesson. Theme The extrapyramidal system symptoms and syndromes of lesion, research methods. Cerebellum. Afferent and efferent pathways of the cerebellum. Cerebellar function and syndromes of its defeat.	The structure and role of the extrapyramidal system in human motor function. The main clinical syndromes of extrapyramidal system lesion: akinetic-rigid syndrome, hyperkinetic syndrome. Topical diagnosis of extrapyramidal system lesions. Cerebellum. The internal structure of the cerebellum. Afferent and efferent projections of the cerebellar cortex. Cerebellar function and syndromes of its defeat: vestibulocerebellar, spinocerebellar and cerebrocerebellar syndrome. Methods	CLO 2	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material

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		for studying cerebellar function. Topical diagnosis of cerebellar lesions.				
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Disease of Wilson - Westphal - Konovalov 2. Chorea of Huntington. 3. Myasthenia Gravis	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - determination of the leaders of the project activities of students and the organization of project teams; - definition of the topic; - identifying one or more problems; - clarification of the goals of the final result; - getting advice from project participants on the use of the Trello board in project work.	CLO 2	3-5	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.
4.	Lecture. Theme Functions and methods of the examination 12 pairs of cranial nerves. I, II, III, IV, V, VI pairs of cranial nerves.	Brainstem: medulla, pons, midbrain. Topographic anatomy of the brain stem. Motor, sensory and mixed cranial nerves. CN: nuclei, composition and functions of 1-	CLO 2	2	Review	Feedback

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		6 pairs of cranial nerves.				
	Practical lesson. Theme Functions and methods of the examination 12 pairs of cranial nerves. I, II, III, IV, V, VI pairs of cranial nerves.	Brainstem: medulla, pons, midbrain. Topographic anatomy of the brain stem. Motor, sensory and mixed cranial nerves. CN: nuclei, composition and functions of 1-6 pairs of cranial nerves.	CLO 2	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Neuralgia of the trigeminal nerve 2. Refsum's disease	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - analysis of the problem, hypotheses, substantiation of each of the hypotheses; - selection of the optimal solution to the problem; - determination of sources of information, methods of its collection and analysis; - distribution of roles in the team; - setting goals and discussing the criteria for	CLO 3	3-5	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.

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		evaluating results; - determining how the results will be presented.				
5.	Lecture. Theme Functions and research methods of 12 pairs of cranial nerves. VII, VIII, IX, X, XI, XII pairs of cranial nerves	Brain stem: medulla oblongata, bridge, midbrain. Brain stem topographic anatomy. Motor, sensory and mixed cranial nerves. CN: nuclei, composition and functions of 7-12 pairs of cranial nerves. Alternating syndromes. Topical diagnosis of lesions of the cranial nerves. Methods for studying the function of the cranial nerves.	CLO 2	2	Review	Feedback
	Practical lesson. Theme Functions and research methods of 12 pairs of cranial nerves. VII, VIII, IX, X, XI, XII pairs of cranial nerves	Brain stem: medulla oblongata, bridge, midbrain. Brainstem topographic anatomy. Motor, sensory and mixed cranial nerves. CN: nuclei, composition and functions of 7-12 pairs of cranial nerves. Alternating syndromes. Topical diagnosis of lesions of the cranial nerves. Methods for studying the function of the cranial nerves	CLO 3	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of	Nosology to the selected student must make a	CLO 3	2-4	Format of delivery Microsoft	Assesment of the quality of

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	SIW 1. SIW task 1. Neuropathies and neuritis of the facial nerve. 2. Neuralgia of the glossopharyngeal nerve 3. Cochlear and vestibular neuropathies	clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - analysis of the problem, hypotheses, substantiation of each of the hypotheses; - selection of the optimal solution to the problem; - determination of sources of information, methods of its collection and analysis; - distribution of roles in the team; - setting goals and discussing the criteria for evaluating results; - determining how the results will be presented. Interim project report			PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	design, oral questionin g.
	Cross-border control 1				Testing, Oral survey.	Testing, Oral survey.
6.	Lecture. Theme Higher mental /cognitive functions, symptoms and syndromes of lesion. Research methods.	Brain. Projection, associative, commissural fibers. Localization of functions in the cerebral cortex. Higher mental functions and	CLO 1	2	Review	Feedback

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		syndromes of violation in the defeat of the cortex. Violations of gnosis, praxis, thinking, memory, speech, etc. Research methods of higher mental functions. Topical diagnosis of damage to higher mental functions.				
	Practical lesson. Theme Higher mental /cognitive functions, symptoms and syndromes of lesion. Research methods.	Brain. Projection, associative, commissural fibers. Localization of functions in the cerebral cortex. Higher mental functions and syndromes of violation in the defeat of the cortex. Violations of gnosis, praxis, thinking, memory, speech, etc. Research methods of higher mental functions. Topical diagnosis of damage to higher mental functions.	CLO 4	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Marie-Foix-Alajuanin's ataxia. 2. Pierre-Marie's ataxia. 3. Gilles de Tourette's syndrome	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project:	CLO 4	2-4	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.

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		- search for the necessary information, confirming or refuting the hypothesis; - adjustment of the algorithm of work on the project, taking into account intermediate results; - project implementation; - Interim report on project work.				
7.	Lecture. Theme The meninges of the brain. Liquor. Meningeal syndrome, intracranial hypertension syndrome. Modern laboratory instrumental, neuroimaging research methods in neurology	Dura mater. Arachnoid. Pia mater. The ventricular system of the brain. Functions of the cerebrospinal fluid. General cerebral symptoms. Shell symptoms. Diagnosis of diseases of the nervous system. Instrumental and laboratory methods in neurology. CT and MRI in neurology. Computed and magnetic resonance imaging in neurology. Angiography in neurology. Ultrasound in neurology. Myelography in neurology. Electroencephalography in neurology	CLO 1	1	Review	Feedback
	Practical lesson. Theme	Dura mater. Arachnoid. Pia	CLO 1	3	TBL, Case-study,	tests, oral and

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	The meninges of the brain. Liquor. Meningeal syndrome, intracranial hypertension syndrome. Modern laboratory instrumental, neuroimaging research methods in neurology	mater. The ventricular system of the brain. Functions of the cerebrospinal fluid. General cerebral symptoms. Shell symptoms. Diagnosis of diseases of the nervous system. Instrumental and laboratory methods in neurology. CT and MRI in neurology. Computed and magnetic resonance imaging in neurology. Angiography in neurology. Ultrasound in neurology. Myelography in neurology. Electroencephalography in neurology			thematic discussion.	written survey, working with didactic material
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Neurobrucellosis 2. Neurosyphilis	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - search for the necessary information, confirming or refuting the hypothesis;	CLO 1	2-4	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.

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		- adjustment of the algorithm of work on the project, taking into account intermediate results; - project implementation; - Interim report on project work.				
8.	Lecture. Theme Blood supply to the brain and spinal cord. Vascular diseases of the central nervous system.	Blood supply to the brain. Arteries, veins of the brain. Blood supply to the spinal cord. Ischemia of the brain and spinal cord. Intracranial hemorrhage. Topical diagnosis of damage to the vascular pools of the brain	CLO 1	1	Review	Feedback
	Practical lesson. Theme Blood supply to the brain and spinal cord. Vascular diseases of the central nervous system. Damage to the nervous system with Covid 19. Acute cerebrovascular accident. Acute meningencephalitis. Guillain-Barré syndrome. Features of diagnosis and treatment of neurological complications of coronavirus infection.	Blood supply to the brain. Arteries, veins of the brain. Blood supply to the spinal cord. Ischemia of the brain and spinal cord. Intracranial hemorrhage. Topical diagnosis of damage to the vascular pools of the brain. Damage to the nervous system with Covid 19. Acute cerebrovascular accident. Acute meningencephalitis. Guillain-Barré syndrome. Features of diagnosis and treatment of neurological complications of	CLO 1	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material

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		coronavirus infection.				
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Hemorrhagic stroke 2. Ischemic stroke 3. Aneurysm of cerebral vessels, cerebral hemorrhage	Collection of research information-literature (articles) published in scientific domestic and foreign journals (PubMed, MEDLINE, Web of Science and etc.) Project: - analysis of the obtained results; - project implementation; - preparation and presentation of the report.	CLO 1	2-4	Discussion, analysis and objective evaluation of scientific articles. Critical, stylistic and factor analysis.	Oral questionin g on the Checklist.
9.	Lecture. Theme The concept of epilepsy. Etiology, pathogenesis, classification of epilepsy	Etiology, pathogenesis, classification of epilepsy. Mechanisms for the development of seizures in epilepsy. Triggers of epilepsy. Epileptic focus. Epileptic status, emergency care.	CLO 1	1	Review	Feedback
	Practical lesson. Them The concept of epilepsy. Etiology, pathogenesis, classification of epilepsye	Etiology, pathogenesis, classification of epilepsy. Mechanisms for the development of seizures in epilepsy. Triggers of epilepsy. Epileptic focus. Epileptic status, emergency care.	CLO 6	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of	Nosology to the selected student must make a	CLO 6	2-4	Format of delivery Microsoft	Assesment of the quality of

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	SIW 1. SIW task 1. Photogenic primary generalized epilepsy 2. Traumatic brain injury 3. Spinal injury	clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - analysis of the obtained results; - project implementation; - preparation and presentation of the report.			PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	design, oral questionin g.
10	Practical lesson. Theme Project: Clinical and demographic analysis of Parkinson's disease in the southern region of Kazakhstan	Project: - collective protection of the project - analysis of project implementation, results achieved (successes and failures); - analysis of the achievement of the set goal; - evaluation of results, identification of new problems Project Protection		2		
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Amnestic syndrome 2. Broca's aphasia 3. Wernicke's aphasia 4. Paroxysmal disorders of consciousness	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project:	CLO 6	2-4	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.

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		- analysis of the obtained results; - project implementation; - preparation and presentation of the report.				
11	Practical lesson. Theme Autonomic nervous system, symptoms and syndromes of damage, research methods.	Hypothalamus. Afferent and efferent connections of the hypothalamus. Functions of the hypothalamus. The autonomic nervous system. Sympathetic and parasympathetic nervous system. Symptoms and syndromes of the lesion. Visceral and reflected pain. Research methods of the autonomic nervous system. Topical diagnosis of damage to the autonomic nervous system	CLO 6	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Meningococcal meningitis 2. Tuberculous meningitis 3. Tick-borne encephalitis	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - analysis of the obtained results; - project implementation;	CLO 6	3-5	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.

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		- preparation and presentation of the report.				
12	Practical lesson. Theme Peripheral nervous system, symptoms and syndromes of damage, research methods.	Peripheral components of the motor system and clinical syndromes of lesions affecting them. Topical diagnosis clinical syndromes of lesions pyramidal tracts.	CLO 6	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of SIW 1. SIW task 1. Transient ischemic attack 2. Neuroinvasiveness and neurovirality of the SARS CoV virus. Cavernous sinus thrombosis associated with Covid-19.	Nosology to the selected student must make a clinical case: complaints, history and general examination, diagnosis and differential. diagnostics, treatment tactics and prognosis. Project: - analysis of the obtained results; - project implementation; - preparation and presentation of the report.	CLO 6	3-5	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Case-study, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.
13	Cross-border control 2				Testing, Oral survey.	Testing, Oral survey.
	Preparation and conduct of intermediate certification			14		
9.	Training and Teaching Methods					
9.1	Lectures	Review, thematic.				
9.2	Practical lessons	Theme discussion, TBL, Case-study, a standardized method of patient-based clinical case (CBL), working with the medical literature. Testing, oral and written survey, interviewing, essays, working with didactic material, solving situational problems.				
9.3	SIW / SIWT	working with educational and additional literature, solving and				

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		preparing test tasks for a clinical case developed by a student, analyzing scientific medical articles, working with a search database (PubMed, MEDLINE, Web of Science, etc.), self-supervision of patients, writing an educational case history, science project. preparation of essay to check for plagiarism; preparation and defense of the presentation; essay; preparation of first aid algorithms;
9.4	Mid-term examination	Decision of situational tasks. Demonstration of practical skills. testing.
10.	Evaluation criteria	

10.1 Criteria for evaluating the results of discipline training

№ RT	Name of learning outcomes	Unsatisfactory	Satisfactory	Well	Excellent
RT 1	Demonstrates knowledge of the basics of diagnosis of neurological diseases of adults and children; clinical indications for hospitalization; rules for the management of patients at home	Does not demonstrate the basics of the diagnosis of neurological diseases and clinical indications of adults and children;	Understands the basics of diagnosis of neurological diseases of adults and children	Applies knowledge in the diagnosis of neurological diseases and clinical indications in adults and children;	Analyzes and demonstrates knowledge of the basics of diagnosis of neurological diseases of adults and children; clinical indications for hospitalization; rules for managing patients at home
RT 2	Participates in the preparation of patients, participates in the implementation of laboratory and instrumental research methods; applies safety principles when working with mental and drug-related patients, participates in the organization of	Does not name the basics of performing laboratory and instrumental research methods and does not apply the methods of	Understands the importance of work in the preparation of patients and the implementation of laboratory and instrumental research methods.	Applies knowledge in the preparation of patients and participates in the organization of preventive measures;	Analyzes regulatory documents

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	preventive measures; applies the methods of scientific research and academic writing in neurology, psychiatry and psychology; applies knowledge and understanding of facts, phenomena, theories and complex dependencies between them in neurology, psychiatry and psychology; understands the importance of the principles and culture of academic integrity;	scientific research and academic writing in neurology, psychiatry and psychology; does not apply knowledge and understanding of facts, phenomena, theories and complex dependencies between them in neurology, psychiatry and psychology; does not understand the importance of principles and culture of academic honesty;			
RT 3	Formulates a standard definition of acute neurological, mental and narcological conditions;	Does not know how to determine acute neurological, mental	Does not fully know how to determine acute neurological, mental and narcological conditions. He does not fully	Determines acute neurological, mental and narcological conditions. Names the	Formulates the definition of acute neurological, mental and narcological conditions.

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	collection of anamnesis in this category of patients;	and narcologic al conditions . He does not name the symptoms of acute neurologic al, mental and narcologic al conditions . Does not know the principles and features of collecting anamnesis in neurologic al, mental and narcologic al patients with acute conditions .	name the symptoms of acute neurological, mental and narcological conditions. Does not fully know the principles and features of the collection of anamnesis in neurological, mental and narcological patients with acute conditions.	symptoms of acute neurological, mental and narcological conditions. Knows and applies the principles and features of anamnesis collection in neurological, mental and narcological patients with acute conditions.	Interprets and classifies symptoms and syndromes of neurological, mental and narcological conditions. Demonstrates the principles and analyzes the features of anamnesis collection in patients with acute neurological, mental and narcological conditions.
RT 4	Adheres to the principles of confidentiality when working with neurological, mental and narcological patients, independently solves problems in the field of professional activity. Forms positive	Does not comply with the principles of confidentiality when working with neurological, mental and narcologic al patients.	Makes mistakes in maintaining confidentiality when working with neurological, mental and narcological patients. Does not fully solve problems in the field of professional activity independently. Does not fully understand the importance of the	Adheres to the principles of confidentiality when working with neurological, mental and narcological patients. Independently solves problems in the field of professional activity. Knows	Demonstrates and adheres to the principles of confidentiality when working with neurological, mental and narcological patients. Independently makes decisions in problems in the field of

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	relationships with colleagues.	Does not know how to solve problems independently in the field of professional activity. Does not know the principles of forming positive relationships with colleagues.	principles of forming positive relationships with colleagues.	the principles of forming positive relationships with colleagues.	professional activity. Analyzes the principles of forming positive relationships with colleagues.
RT 5	Uses treatment protocols to select a drug	Does not demonstrate knowledge of treatment protocols for neurological, mental and drug-related diseases. Does not know how to choose the necessary medicines.	Does not have sufficient confidence in the use of treatment protocols. Does not show a properly reasoned position in the choice of a drug.	In accordance with the requirements, he uses treatment protocols, but does not show independence of thinking. With inaccuracies, he argues his own position in the choice of a drug.	Demonstrates a complete understanding and knowledge of protocols, drugs of choice for a certain nosology. He shows independence of thinking and argues his own position in choosing a drug.
RT 6	Interprets, substantiates anamnesis data, draws up medical documentation	Does not know the technique of patient management, cannot justify and link the data of the conducted	Allows inaccuracies and violates the logical sequence when filling out medical documentation.	Correctly describes the sequence of examinations and results, judgments differ in a comprehensive study of the patient's	Demonstrates a comprehensive in-depth analysis and evaluation of data in the implementation of monitoring and patient care, competently fills

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		examinations		condition, small stylistic errors are made.	in patient management diaries. Has its own reasoned position.
RT 7	He is aware of the need to maintain confidentiality in professional relationships when working with neurological, mental and narcological patients, and is willing to work independently. Demonstrates commitment to professional ethical standards.	Does not know the principles of confidentiality in professional relations when working with neurological, mental and narcological patients. Does not know how to work independently. Does not show adherence to professional ethical standards.	He cannot single out the main thing in the principles of confidentiality in professional relations when working with neurological, mental and narcological patients. Does not know how to fully exercise independence. It does not sufficiently demonstrate adherence to professional ethical standards.	Is aware of the need to maintain confidentiality in professional relationships when working with neurological, mental and narcological patients. Shows willingness to work independently. Demonstrates commitment to professional ethical standards	Analyzes and justifies the need for confidentiality in professional relationships when working with neurological, mental and drug-related patients. Demonstrates independence in decision-making. Has its own position regarding adherence to professional ethical standards.

10.2

Evaluation criteria

Checklist for practical lessons

Form of control	Evaluation	Evaluation criteria
Oral and written response	Excellent Corresponds to the ratings: A (4,0; 95-100%); A- (3,67; 90-94%)	It is put in the event that the student did not make a mistakes or inaccuracies during the answer. Focuses the theories, concepts and directions of the study discipline and gives them a critical assessment, uses scientific achievements of other disciplines.

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	Good Corresponds to estimates: B+ (3,33; 85-89%); B (3,0; 80-84%); B- (2,67; 75-79%); C+ (2,33; 70-74%);	It is put in the event that the student during the answer did not make gross errors in the answer, made unprincipled inaccuracies or fundamental errors corrected by the student himself, managed to systematize the program material with the help of the teacher.	
	Satisfactory Corresponds to estimates C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%); D (1,0; 50-54%)	It is put in the event that the student made inaccuracies and unprincipled mistakes during the answer, was limited only to the educational literature specified by the teacher, and experienced great difficulties in systematizing the material.	
	Unsatisfactory FX(0,5; 25-49%) F(0; 0-24%)	Placed in the case if student during the answer has made a fundamental error, not worked the basic literature on the topic; not able to use scientific terminology of discipline, answers with rough stylistic and logical errors.	

Form of control	Evaluation	Evaluation criteria
Performing test tasks	Excellent Corresponds to the ratings: A (4,0; 95-100%); A- (3,67; 90-94%)	90-100% correct answers
	Good Corresponds to estimates: B+ (3,33; 85-89%); B (3,0; 80-84%); B- (2,67; 75-79%); C+ (2,33; 70-74%);	70-89% correct answers
	Satisfactory Corresponds to estimates C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%); D (1,0; 50-54%)	50-69% correct answers
	Unsatisfactory FX(0,5; 25-49%) F(0; 0-24%)	Less than 25% correct answers

Form of control	Evaluation	Evaluation criteria
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Preparation and defense of the essay	Excellent Corresponds to the ratings: A (4,0; 95-100%); A- (3,67; 90-94%)	The problem formulated by the student is commented on based on the source text. The student gave at least 2 examples from the read text that are important for understanding the problem. There are no actual errors related to understanding the problem of the source text in the comment.	
	Good Corresponds to estimates: B+ (3,33; 85-89%); B (3,0; 80-84%); B- (2,67; 75-79%); C+ (2,33; 70-74%);	The problem formulated by the student is commented on based on the source text. The student gave 1 example from the read text, which is important for understanding the problem. There are no actual errors related to the source text in the comment.	
	Satisfactory Corresponds to estimates C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%); D (1,0; 50-54%)	The problem of the text formulated by the student is commented based on the source text, but the student did not give any examples from the read text that are important for understanding the problem, or the comment made one factual error related to understanding the problem of the source text.	
	Unsatisfactory FX(0,5; 25-49%); F(0; 0-24%)	The problem formulated by the student is not commented on or commented on without reference to the source text, or there is more than one factual error in the comment related to the understanding of the source text.	

Form of control	Evaluation	Evaluation criteria
Filling in didactic material	Excellent Corresponds to the ratings: A (4,0; 95-100%); A- (3,67; 90-94%)	The didactic material is filled in carefully, at the appointed time, filled in independently using at least 5 literary sources. Diagrams, tables and figures corresponding to the topic are filled in. Confidently and accurately answers all the questions asked.
	Good Corresponds to estimates: B+ (3,33; 85-89%); B (3,0; 80-84%); B- (2,67; 75-79%); C+ (2,33; 70-74%);	The didactic material is filled in carefully, at the appointed time, filled in independently using at least 5 literary sources. Diagrams, tables and figures corresponding to the topic are filled in. When answering questions, he makes unprincipled mistakes.
	Satisfactory Corresponds to estimates C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%); D (1,0; 50-54%)	The didactic material was filled in sloppily and not delivered on time, filled in independently using less than 5 literary sources. When answering questions, he makes gross mistakes, does not Orient himself in the material.
	Unsatisfactory FX(0,5; 25-49%)	The job is not done.

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	F(0; 0-24%)		
Multi-point knowledge assessment system			
Grade by letter system	Numeric equivalent of points	Percentage	Grade by traditional system
A	4,0	95-100	Excellent
A-	3,67	90-94	
B+	3,33	85-89	Good
B	3,0	80-84	
B-	2,67	75-79	
C+	2,33	70-74	
C	2,0	65-69	Satisfactorily
C-	1,67	60-64	
D+	1,33	55-59	
D-	1,0	50-54	
FX	0,5	25-49	Unsatisfactory
F	0	0-24	
11. Learning resources			
Electronic resources, including, but not limited to: databases, animation simulators, professional blogs, websites, other electronic reference materials (for example: video, audio, digests)	Атлас по неврологии.Киспаева Т.Т., 2015/https://aknurpress.kz/login Неврологиялық науқастарды оңалтудың заманауи принциптері. Абдрахманова М.Г., Епифанцева Е.В., Шайкенов Д.С. , 2019https://aknurpress.kz/login Неврология туралы дәрістер.Киспаева Т.Т., 2014https://aknurpress.kz/login Анарбаева А.А.Амбулаторлық деңгейде неврологиялық науқастарды диспансерлеу: Оқу құралы. . - Түркістан: Тұран, 2018. - 119 б. - ISBN 978-601-243-899-4.http://rmebrk.kz/ Дущанова Г.А. «Неврология в таблицах и алгоритмах». – Алматы: «Эверо», 2020. – 104 с/ https://www.elib.kz/ru/search/read_book/3129/ Б 78 Бокебаев Т.Т, Бокебаев Ж.Т. Неврология (Основы Топической Диагностики). - Учебное Пособие Для Студентов. – Алматы, Издательство «Эверо», 2020. – 136 https://www.elib.kz/ru/search/read_book/134/ Д 64 Дущанова. «Неврология. I-бөлім, оқу құралы». - Алматы, Эверо, 2020. - 105 бет/ https://www.elib.kz/ru/search/read_book/179/ Д64 Дущанова. «Неврология. II-бөлім, оқу құралы». – Алматы, Эверо баспасы, 2020. – 188 бет./ https://www.elib.kz/ru/search/read_book/181/ Т65 Төлеусаринов А.М. Жалпы неврология / А.М. Төлеусаринов, е.С. Нұрғожаев. – Алматы: «Эверо» баспасы, 2020. – 374 б/ https://www.elib.kz/ru/search/read_book/457/		
Electronic textbooks	Основная: 1.Е.И. Гусев Неврология и нейрохирургия. В 2 т. Т. 1. Неврология.: учебник / Е. И. Гусев, А. Н. Коновалов, В. И.Скворцова. - 4-е изд.		

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	доп.; Мин. образования и науки РФ. Рекомендовано ГБОУ ВПО "Первый Московский гос. мед.ун-т им. И.М. Сеченова". - М.: ГЭОТАР - Медиа, 2015. 2.Ахметова Ж.Б. Семиотика поражения черепно-мозговых нервов : учебное пособие / Ж. Б. Ахметова. - 2-е изд. - Караганда : АҚНҰР, 2019. - 162 с. Экземпляры: всего:15 - ЧЗ-2(2), ЧЗ-3(1), АУЛ(12) 3.Киспаева Т. Т. Атлас по неврологии : учебное пособие / Т. Т. Киспаева. - 2-е изд. - Караганда : АҚНҰР, 2019. - 126 с. Экземпляры: всего:25 - ЧЗ-2(2), ЧЗ-3(1), АУЛ(22) Дополнительная: 1.Неврология. Национальное руководство. Краткое издание: руководство / под ред. Е. И. Гусева. - М. : ГЭОТАР - Медиа, 2016.в) 2.Абдрахманова, М. Г. Современные принципы реабилитации неврологических больных :учебно методическое пособие / М. Г. Абдрахманова, Е. В. Епифанцева, Д. С. Шайкенов ; М-во здравоохранения и социального развития РК. КГМУ. - Караганда : ИП "Ақнұр", 2015
Laboratory physical resources	http://lib.ukma.kz
Special programs	http://10.10.202.52 http://89.218.155.74
Journals (electronic journals)	http://rmebrk.kz/
Literature	http://www.studmedlib.ru

12. Course policy

Student requirements, attendance, behavior, grading policies, penalties, incentives, etc..

- in the classroom, be in special clothing (white coats, caps);
- compulsory attendance of lectures and seminars according to the schedule;
- not be late for classes;
- do not miss classes, in case of illness, provide a certificate;
- work missed classes for a good reason at the time specified by the teacher;
- for each missed lecture, the penalty point is 1 point from the result of the RC for each lecture;
- for each pass of the SRO, the penalty point is 2 points from the result of passing the SRO;
- fulfill the SRO according to the schedule;
- visiting the SROP according to the schedule is obligatory !;
- each student is responsible for the sanitary condition of his workplace, for the observance of personal hygiene;
- the student should actively participate in the discussion of the topic of the lesson; be able to work in a team; must comply with medical ethics and deontology when working with patients and colleagues;
- the student must comply with the internal regulations of SKMA and the clinical base and safety rules; take good care of the property and equipment of the department and the clinical base.

If the sections of work are not completed, penalties are applied to students:

- if you miss lectures without a valid reason, the assessment of midterm control decreases - 1

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point for each missed lecture;

- if an SRO is missed without a valid reason, the SRO score decreases - 2 points for each missed lesson;
- in case of untimely delivery of the SRO without a valid reason (later than the specified week), the SRO is not accepted;
- in case of a single violation of the discipline policy, the student is give a warning;
- in case of a systematic violation of the discipline policy, information about the student's behavior is transferred to the dean's office of the faculty;
- a student who has received an unsatisfactory mark for one of the types of control (midterm control 1, midterm control 2, average grade of current control) is not allowed to take the exam in the discipline

13.	Academic policy based on the moral and ethical values of the academy		
	Academic policy. P. 4 Code of Honor Student		
	Policy issuing evaluations on discipline		
14.	Approval and revision		
Approval date	Protocol No. <u>11</u>	Full name of Head of the Department	Signature
<u>12.08.2023</u>		<u>Zhas kinbekova N.A</u>	<u>[Signature]</u>
Date of examination	Protocol No. <u>11</u>	Full name of a member of the CEP	Signature
<u>12.08.2023</u>		<u>Sadykova A.Sh</u>	<u>[Signature]</u>
Revision date	Protocol No. <u>11</u>	Full name of Head of the Department	Signature
<u>12.08.2023</u>		<u>Zhas kinbekova N.A</u>	<u>[Signature]</u>