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SYLLABUS

Working training program of the discipline: «Neurology»

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

1.	General information about the course		
1.1	Course Code:Neur 5306	1.6	Academic year:2024-2025
1.2	Course name: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.	Course description (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.	Summative assessment form		
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

narcolog	ical 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

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«Онтустік Қазақстан медицина академиясы» АҚ	(27/4/2)	АО «Южно-Казахстанская медицинская академия»

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	I									
CLO 5.	Uses of treatment protocols for selecting a drug Interprets, justifies the history data, prepares medical records									
CLO6.										
CLO 7.		he need to maintain confidentiality in professional relationships when working								
			gical, mental and narcological patients, is willing to work independently.							
			commitment to professional ethics.							
5.1	Course		-	mes of the EP, w	hich a	are re	elated to the lea	arni	ng outcomes	
	learning	of the	course							
	outcomes									
	CLO 1		-	tient-centered ca						
	CLO 2	epidem	niological an	d socio-behavior	ral scie	ence	s for the most of	con	nmon diseases.	
	CLO 3	GT 0.44	~							
	CLO 4			nis/her activities						
	CLO5	_	•	zakhstan in the f			_	ed	by them in	
	CL O 7			tivities to ensure					•	
	CLO 7			he rules of ethics						
			-	personal and con						
				nge and cooperat	ion wi	ıtn pa	itients, their fai	m11	ies and	
	CLO 6		l profession		oim o	d 04 4	ha diaanasia t	***	tmant	
	CLO			fective measures			_	rea	imeni,	
6.	Details of th			mon and early fo	11118 01	uise	ases.			
6.1				Medical Centre	" A i N	11107 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	microdistrict /	1 2	2/2	
0.1	Email address				AIN	ury	,iiiiciouistiict 2	+, ∠		
6.2	Number of h	ours	Lectures	Prac. Lessons	SIW		SIWT	Pr	reparation and	
									onduct of final	
								ce	ertification	
			15	35	56	5	30		14	
7.	Information					ı		1		
№	Full nai	me	Degrees	Email addre	ess		Scientific	Α	Achievements	
			and title				terests, etc			
1.	Polukchi Tat	tyana	PhD	E-mail:			search interests		Author of	
	Vasilyevna		doctor,	tatyana polukc	<u>hi@</u>		lt and pediatric	2	more than 70	
			assistant	mail.ru			rology,		scientific	
				Contact numbe	r:		rumental		articles	
				87479838388			earch methods			
							eurology.			
2.			Assistant	E-mail:			search interests	:	Author of	
	Esetova Ayn		esetova.aynura@n		<u>@m</u>	neu	rology.		more than 30	
	Amirhanovn	a						scientific		
				87789474404	Contact number: articles					
3.	Abdraimova		Assistant	87789474404 E-mail:		Das	search interests		Author of	
3.	Saltanat		Assistant		1 m		ioneurology,	•	over 10	
		mo		salta1403@mai Contact numbe			•		scientific	
	Orynbasarov	11a		87018820308	1.	neu	rology.		articles	
				67016620308					articies	

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4.	Alyeva Ainaz	Assistant	nt E-mail:		Research interests:		Author of
	Shasidinovna	salta1403@n			angioneurology,		over 7
			Contact num		neurolo	gy.	scientific
			8775631096	6			articles
8.	Thematic plan				ı	I	
Week/	Topic	Summary	7	Cours	Num	Forms /	Forms /
Day				e	ber of	methods /	assessmen
				learni	hours	learning	t methods
				ng outco		technologie	S
				mes			
1	Lecture. Theme:	Descriptio	n and	CLO	2	Review	Feedback
1	Introduction to the	history of	ii uiid	2	_	Review	recubuck
	specialty.	developme	ent of	_			
	Structural elements	neurology					
	of the nervous	Transmiss					
	system.	informatio	on in the				
	Transmission of	nervous sy	stem.				
	information in the	Mediators	and				
	nervous system.	receptors.					
	Sensitivity,	_	gpathways				
	symptoms and	of the spin					
	syndromes of		ion of types				
	lesion, research methods.	of sensitiv	-				
	methods.	symptoms					
	Practical lesson.		s of damage.	CLO	3	TBL, Case-	tests, oral
	Theme:	sections of		1	3	study,	and
	Sensitivity,	somatosen		1		thematic	written
	symptoms and	system. A	•			discussion.	survey,
	syndromes of	spinotalon					working
	lesion, research	*	inotalomic				with
	methods.	tract. Sens	ory				didactic
		disorders of	depending				material
			el of damage				
			e pathways.				
			l and deep				
		sensitivity					
		Syndrome					
		disorders of					
		superficial sensitivity	_				
			of sensory				
		lesions.	or sensory				
	SIWT.	Nosology	to the	CLO	3-5	Format of	Assesment
	Consultation on		udent must	1		delivery	of the
	the		nical case:			Microsoft	quality of

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			1	
implementation of	complaints, history		PowerPoint	design,
SIW 1. SIW task	and general		presentation,	oral
1. Transverse	examination,		glossary,	questionin
myelitis	diagnosis and		TVL, Case-	g.
2. Multiple	differential.		study,	5.
sclerosis			•	
	diagnostics, treatment		analysis of	
3. Guillain-Barré	tactics and prognosis.		scientific	
syndrome			medical	
	Project topic:		articles.	
	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 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,			

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ОНТҮСТІК ҚАЗАҚСТАН МЕДИЦИНСКАЯ АКАДЕМИЯ

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						,
		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;				
		- 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	Central division	CLO	2	Review	Feedback
2.	The pyramidal	pyramidal system and	2	<i>2</i>	TC VIC W	1 ccdback
		1	2			
	system, symptoms	syndromes his defeat.				
	and syndromes of	Motor zones of the				
	lesion, research	cortex. Cortico-spinal				
	methods.	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.				

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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, Casestudy, thematic discussion.	tests, oral and written survey, working with didactic material
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;	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.	- getting advice from project participants on the use of the Trello board in project work. 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 2yndrome. 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 for studying cerebellar function. Topical diagnosis of cerebellar lesions.	CLO 2	3	TBL, Case-study, thematic discussion.	tests, oral and written survey, working with didactic material

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	SIWT.	Nosology to the	CLO	3-5	Format of	Assesment
	Consultation on	selected student must	2		delivery	of the
	the	make a clinical case:			Microsoft	quality of
	implementation of	complaints, history			PowerPoint	design,
	SIW 1. SIW task	and general			presentation,	oral
	1. Disease of	examination,			glossary,	questionin
	Wilson - Westphal	diagnosis and			TVL, Case-	g.
	- Konovalov	differential.			study,	
	2. Chorea of	diagnostics, treatment			analysis of	
	Huntington.	tactics and prognosis.			scientific	
	3. Myasthenia	Project:			medical	
	Gravis	- determination of the			articles.	
		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.				
4.	Lecture. Theme	Brainstem: medulla,	CLO	2	Review	Feedback
T.	Functions and	pons, midbrain.	2	2	Review	1 cedback
	methods of the	Topographic anatomy				
	examination 12	of the brain stem.				
	pairs of cranial	Motor, sensory and				
	nerves. I, II, III, IV,	mixed cranial nerves.				
	V, VI pairs of	CN: nuclei,				
	cranial nerves.	composition and				
	Cramar nerves.	functions of 1-6 pairs				
		of cranial nerves.				
	Practical lesson.	Brainstem: medulla,	CLO	3	TBL, Case-	tests, oral
	Theme	pons, midbrain.	2	3	1	and
	Functions and	Topographic anatomy			study, thematic	written
	methods of the	of the brain stem.			discussion.	
	examination 12	Motor, sensory and			uiscussiuli.	survey,
		mixed cranial nerves.				working with
	pairs of cranial					didactic
	nerves. I, II, III, IV,	CN: nuclei,				material
	V, VI pairs of	composition and				material
	cranial nerves.	functions of 1-6 pairs				
		of cranial nerves.				

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	SIWT.	Nosology to the	CLO	3-5	Format of	Assesment
	Consultation on	selected student must	3		delivery	of the
	the	make a clinical case:			Microsoft	quality of
	implementation of	complaints, history			PowerPoint	design,
	SIW 1. SIW task	and general			presentation,	oral
	1. Neuralgia of the	examination,			glossary,	questionin
	trigeminal nerve	diagnosis and			TVL, Case-	g.
	2. Refsum's disease	differential.			study,	8.
	2. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	diagnostics, treatment			analysis of	
		tactics and prognosis.			scientific	
		Project:			medical	
		- analysis of the			articles.	
		problem, hypotheses,			articles.	
		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.				
5.	Lecture. Theme	Brain stem: medulla	CLO	2	Review	Feedback
	Functions and	oblongata, bridge,	2			
	research methods	midbrain. Brain stem				
	of 12 pairs of	topographic anatomy.				
	cranial nerves. VII,	Motor, sensory and				
	VIII, IX, X, XI, XII	mixed cranial nerves.				
	pairs of cranial	CN: nuclei,				
	nerves	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.				
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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, Casestudy, thematic discussion.	tests, oral and written survey, working with didactic material
SIWT. Consultation on the implementation of SIW 1. SIW task 1. Neuropathies and neuritis of the facial nerve. 2. Neuralgia of the glossopharyngeal nerve 3. Cochlear and vestibular neuropathies	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 evaluating results; - determining how the results will be presented.	CLO 3	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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		Interim project report				
	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 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 1	2	Review	Feedback
	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, Casestudy, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on the implementation of SIW 1. SIW task	Nosology to the selected student must make a clinical case: complaints, history and general	CLO 4	2-4	Format of delivery Microsoft PowerPoint presentation,	Assesment of the quality of design, oral

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	1.Marie-Foix-	examination,			glossary,	questionin
	Alajuanin's ataxia.	diagnosis and			TVL, Case-	g.
	2. Pierre-Marie's	differential.			study,	
	ataxia.	diagnostics, treatment			analysis of	
	3. Gilles de	tactics and prognosis.			scientific	
	Tourette's	Project:			medical	
	syndrome	- search for the			articles.	
	Syndrome				articles.	
		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	Dura mater.	CLO	1	Review	Feedback
' .		Arachnoid. Pia mater.		1	Review	recuback
	The meninges of		1			
	the brain. Liquor.	The ventricular				
	Meningeal	system of the brain.				
	syndrome,	Functions of the				
	intracranial	cerebrospinal fluid.				
	hypertension	General cerebral				
	syndrome. Modern	symptoms. Shell				
	laboratory	symptoms. Diagnosis				
	instrumental,	of diseases of the				
	neuroimaging	nervous system.				
	research methods	Instrumental and				
	in neurology	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.				
		Electroencephalograp				
		hy in neurology				
	Practical lesson.	Dura mater.	CLO	3	TBL, Case-	tests, oral
	Theme	Arachnoid. Pia mater.	1		study,	and
	The meninges of	The ventricular			thematic	written
	the brain. Liquor.	system of the brain.			discussion.	survey,
	tne brain. Liquor.	system of the brain.]		discussion.	survey,

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ОНТУСТІК ҚАЗАҚСТАН МЕДИЦИНА АКАДЕМИЯСЫ» АҚ

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	36 . 1	I D	I	T		1.
	Meningeal	Functions of the				working
	syndrome,	cerebrospinal fluid.				with
	intracranial	General cerebral				didactic
	hypertension	symptoms. Shell				material
	syndrome. Modern	symptoms. Diagnosis				
	laboratory	of diseases of the				
	instrumental,	nervous system.				
	neuroimaging	Instrumental and				
	research methods	laboratory methods in				
	in neurology	neurology. CT and				
		MRI in neurology.				
		Computed and				
		magnetic resonance				
		imaging in neurology.				
		Angiography in				
		neurology. Ultrasound				
		in neurology.				
		Myelography in				
		neurology.				
		Electroencephalograp				
		hy in neurology				
	SIWT.	Nosology to the	CLO	2-4	Format of	Assesment
	Consultation on	selected student must	1	2 1	delivery	of the
	the	make a clinical case:	1		Microsoft	quality of
	implementation of	complaints, history			PowerPoint	design,
	SIW 1. SIW task	and general			presentation,	oral
	1. Neurobrucellosis	examination,			glossary,	questionin
	2. Neurosyphilis	diagnosis and			TVL, Case-	-
	2. Incurosyphins	differential.			study,	g.
		diagnostics, treatment			analysis of	
		tactics and prognosis.			scientific	
		1 0			medical	
		Project: - search for the			articles.	
					articles.	
		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.				
8.	Lecture. Theme	Blood supply to the	CLO	1	Review	Feedback
	Blood supply to the	brain. Arteries, veins	1			
	brain and spinal	of the brain. Blood				

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ОНТОСТІК ҚАЗАҚСТАН МЕДИЦИНА АКАДЕМИЯСЫ АСАДЕМУ
АО «Южно-Казахстанская медицинская академия»

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cord. Vascular diseases of the central nervous system.	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				
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 meningiencephaliti s. 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 meningiencephalitis. Guillain-Barré syndrome. Features of diagnosis and treatment of neurological complications	CLO 1	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. Hemorrhagic stroke 2. Ischemic stroke 3. Aneurysm of cerebral vessels, cerebral hemorrhage	coronavirus infection. 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.

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9.	Lecture. Theme	Etiology,	CLO	1	Review	Feedback
	The concept of	pathogenesis,	1			
	epilepsy. Etiology,	classification of				
	pathogenesis,	epilepsy. Mechanisms				
	classification of	for the development				
	epilepsy	of seizures in				
	cpnopsy	epilepsy. Triggers of				
		epilepsy. Epileptic				
		focus. Epileptic status,				
		emergency care.				
	Practical lesson.	Etiology,	CLO	3	TBL, Case-	tests, oral
	Them	pathogenesis,	6		study,	and
	The concept of	classification of			thematic	written
	epilepsy. Etiology,	epilepsy. Mechanisms			discussion.	survey,
	pathogenesis,	for the development			discussion.	working
	classification of	of seizures in				with
	epilepsy e	epilepsy. Triggers of				didactic
	ephepsye	1 1 0 00				material
		epilepsy. Epileptic focus. Epileptic status,				materiai
		1 1				
	SIWT.	emergency care.	CLO	2-4	Format of	A
		Nosology to the selected student must		2-4		Assesment of the
	Consultation on		6		delivery Microsoft	
	the	make a clinical case:			PowerPoint	quality of
	implementation of	complaints, history				design,
	SIW 1. SIW task	and general			presentation,	oral
	1. Photogenic	examination,			glossary,	questionin
	primary	diagnosis and differential.			TVL, Case-	g.
	generalized				study,	
	epilepsy	diagnostics, treatment			analysis of	
	2. Traumatic brain	tactics and prognosis.			scientific	
	injury	Project:			medical	
	3. Spinal injury	- analysis of the			articles.	
		obtained results;				
		- project				
		implementation;				
		- preparation and				
		presentation of the				
10	7	report.				
10	Practical lesson.	Project:		2		
	Theme	- collective protection				
	Project: Clinical	of the project				
	and demographic	- analysis of project				
	analysis of	implementation,				
	Parkinson's disease	results achieved				
	in the southern	(successes and				
	region of	failures);				
	Kazakhstan					

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	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	- analysis of the achievement of the set goal; - evaluation of results, identification of new problems Project Protection 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	2-4	Format of delivery Microsoft PowerPoint presentation, glossary, TVL, Casestudy, analysis of scientific medical articles.	Assesment of the quality of design, oral questionin g.
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, Casestudy, thematic discussion.	tests, oral and written survey, working with didactic material
	SIWT. Consultation on	Nosology to the selected student must	CLO 6	3-5	Format of delivery	Assesment of the
			~		1 J	

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	the implementation of SIW 1. SIW task 1. Meningococcal meningitis 2. Tuberculous meningitis 3. Tick-borne encephalitis	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.			Microsoft PowerPoint presentation, glossary, TVL, Case- study, analysis of scientific medical articles.	quality of design, oral questionin g.
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, Casestudy, 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 cond	luct of intermediate certif	ication	14		

9.	Training and Teaching	g 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
9.3	SIW / SIWT	working with educational and additional literature, solving and 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	Unsatisfactor	ry	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	demonstrate basics of diagnosis neurological diseases clinical indications	not the the of and of and	Understands the basics of diagnosis of neurological diseases of adults and children	diagnosis of neurological diseases and clinical	of knowledge of the basics of diagnosis of neurological n diseases of

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RT	Participates in the	Does not name the	Understands	Applies	Analyzesregulat
2	preparation of	basics of	the importance	knowledge in the	orydocuments
	patients,	performing	of work in the	preparation of	
	participates in the	laboratory and	preparation of	patients and	
	implementation of	instrumental	patients and	participates in	
	laboratory and	research methods	the	the organization	
	instrumental	and does not	implementatio	of preventive	
	research methods;	apply the methods	n of laboratory	measures;	
	applies safety	of scientific	and	measures,	
	principles when	research and	instrumental		
	working with	academic writing	research		
	mental and drug-	in neurology,	methods.		
	related patients,	psychiatry and	memous.		
	participates in the	* *			
		psychology; does			
	U	not apply			
	preventive	knowledge and			
	measures;	understanding of			
	applies the	facts, phenomena,			
	methods of	theories and			
	scientific research	complex			
	and academic	dependencies			
	writing in	between them in			
	neurology,	neurology,			
	psychiatry and	psychiatry and			
	psychology;	psychology; does			
	applies	not understand the			
	knowledge and	importance of			
	understanding of	principles and			
	facts, phenomena,	culture of			
	theories and	academic			
	complex	honesty;			
	dependencies				
	between them in				
	neurology,				
	psychiatry and				
	psychology;				
	understands the				
	importance of the				
	principles and				
	culture of				
	academic				
	integrity;				
RT		Does not know	Does not fully	Determines acute	Formulates the
3	standard	how to determine	know how to	neurological,	definition of
	definition of acute	acute	determine	mental and	acute
	neurological,	neurological,	acute	narcological	neurological,
	mental and	mental and	neurological,	conditions.	mental and
\Box	and			- 31101101101	



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	narcological conditions; collection of anamnesis in this category of patients;	narcological conditions. He does not name the symptoms of acute neurological, mental and narcological conditions. Does not know the principles and features of collecting anamnesis in neurological, mental and narcological patients with acute conditions.	mental and narcological conditions. He does not fully 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.	Names the symptoms of acute neurological, mental and narcological conditions. Know s and applies the principles and features of anamnesis collection in neurological, mental and narcological patients with acute conditions.	narcological 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. Formspositiverela tionshipswithcolle agues.	Does not comply with the principles of confidentiality when working with neurological, mental and narcological patients. 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.	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 principles of forming positive relationships	Adheres to the principles of confidentiality when working with neurological, mental and narcological patients. Independently solves problems in the field of professional activity. Knows the principles of forming positive relationships with colleagues.	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 professional activity. Analyzestheprin ciplesofforming positiverelations hipswithcolleag ues.

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			with		
			colleagues.		
RT 5	Uses treatment protocols to select a drug	Does not demonstrate knowledge of treatment protocols for neurological, mental and drugrelated 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 examinations	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 condition, small stylistic errors are made.	Demonstrates a comprehensive in-depth analysis and evaluation of data in the implementation of monitoring and patient care, competently fills in patient
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. Demonstratescom mitmenttoprofessi onalethicalstandar ds.	Does not know the principles of confidentiality in professional relations when working with neurological, mental and drugrelated 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.	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	Analyzes and

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	It does not sufficiently demonstrate adherence to professional ethical standards.	professional ethical standards	regarding adherence professional ethical standards.	to
10.2 Evaluation criteria Checklist for practical lessons				

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Form of Evolu-

Form contro		Evaluation	Evaluation criteria	
Oral written response	and	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 an instakes or inaccuracies during the answer. Focuses on the theories, concepts and directions of the studied disciplinant gives them a critical assessment, uses the scientification achievements of other disciplines.	e e
		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 studen himself, managed to systematize the program material with the help of the teacher.	d it
		Satisfactory Corresponds to estimates C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,33; 55-59%) D (1,0: 50-54%) Unsatisfactory FX(0,5; 25-49%) F(0; 0-24%)	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 Placed in the case if student during the answer has made 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.	y d l. a e

Form of control	Evaluation	Evaluationcriteria
Performin gtesttasks	Excellent Corresponds to the ratings: A (4,0; 95-100%); A- (3,67; 90-94%)	90-100% correctanswers

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Good	70-89% correct answers	
Corresponds to estimates:		
B+ (3,33; 85-89%);		
B (3,0; 80-84%);		
B- (2,67; 75-79%)		
C+ (2,33; 70-74%);		
Satisfactory	50-69% correct answers	
Corresponds to estimates C (2,0;		
65-69%);		
C- (1,67; 60-64%);		
D+ (1,33; 55-59%)		
D (1,0: 50-54%)		
Unsatisfactory	Less than 25% correct answers	
FX(0,5; 25-49%)		
F(0; 0-24%)		

Form of control	Evaluation	Evaluation criteria
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 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.

			ш.
Form of	Evaluation	Evaluationcriteria	
control			

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Filling didactic material	in	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	The didactic material is filled in carefully, at the appointed
		Corresponds to estimates:	time, filled in independently using at least 4 literary
		B+ (3,33; 85-89%);	sources. Diagrams, tables and figures corresponding to the
		B (3,0; 80-84%);	topic are filled in.
		B- (2,67; 75-79%)	When answering questions, he makes unprincipled
		C+ (2,33; 70-74%);	mistakes.
		Satisfactory	The didactic material was filled in sloppily and not
		Corresponds to estimates	delivered on time, filled in independently using less than 3
		C (2,0; 65-69%);	literary sources. When answering questions, he makes
		C- (1,67; 60-64%);	gross mistakes, does not Orient himself in the material.
		D+ (1,33; 55-59%)	
		D (1,0: 50-54%)	
		Unsatisfactory	The job is not done.
		FX(0,5; 25-49%)	
		F(0; 0-24%)	
Multi-point knowledge assessment system			

Grade by letter system	Numeric equivalent of	Percentage	Grade by traditional system
	points		
A	4,0	95-100	Excellent
A-	3,67	90-94	
B+	3,33	85-89	Good
В	3,0	80-84	
B-	2,67	75-79	
C+	2,33	70-74	
С	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)

- 1. Electronic library SKMA- https://e-lib.skma.edu.kz/genres
- 2. Republican Interuniversity Electronic Library (RMEB) http://rmebrk.kz/
 - 3. Digital library "Aknurpress" https://www.aknurpress.kz//
- 4. Electronic library "Epigraph" http://www.elib.kz/
- 5. Epigraph portal of multimedia textbooks https://mbook.kz/ru/index/
- 6. 9EC IPR SMART https://www.iprbookshop.ru/auth
- 7. Information and legal system "Law" https://zan.kz/ru

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	8. Cochrane Library - https://www.cochranelibrary.com/
	1. Atlas of Neurology by Kispayeva T.T., 2015.
Electronic textbooks	https://www.aknurpress.kz/reader/web/1412
	2. Modern Principles of Rehabilitation for Neurological Patients by
	Abdrakhmanova M.G., Epifantseva E.V., Shaikenov D.S., 2019.
	https://www.aknurpress.kz/reader/web/1410
	3. Lectures on Neurology by Kispayeva T.T., 2014. Link
	https://www.aknurpress.kz/reader/web/1408
	4. Dispensary Monitoring of Neurological Patients at the Outpatient
	Level: Study Guide by Anarbaeva A.A Turkestan: Turan, 2018
	119 pages ISBN 978-601-243-899-4. Link http://rmebrk.kz/
	5. Neurology in Tables and Algorithms by Dushanova G.A Almaty:
	"Evero," 2020 104 pages. https://www.elib.kz/ru/search/read_book/3129/
	6. Neurology (Fundamentals of Topical Diagnosis) by Bokebaev T.T.,
	Bokebaev Zh.T Textbook for Students Almaty: "Evero"
	Table
	https://www.elib.kz/ru/search/read_book/3129/
	7. Neurology. Part 1, Study Guide by Dushanova Almaty: Evero, 2020 105 pages. Linkhttps:
	https://www.elib.kz/ru/search/read_book/790/
	8. Neurology. Part II, Study Guide by Dushanova Almaty: Evero
	Publishing House, 2020 188 pages. Link
	https://www.elib.kz/ru/search/read_book/179/
	9. General Neurology by Toleusarov A.M., Nurgozhaev E.S Almaty:
	"Evero" Publishing House, 2020 374 pages. Linkhttps:
	https://www.elib.kz/ru/search/read_book/181/
	10. Markova, M. P. The basis of neurology: educational and
	methodological manual / M. P. Markova, E. A. Homeland. — Tula:
	Tula State Pedagogical University named after L.N. Tolstoy, 2021.
	— 97 c. // Digital educational resource
	IPR SMART: [сайт]. — URL:
	https://www.iprbookshop.ru/119692.html
	11. Ponomarev, V. V. Rare clinical cases in neurology (cases from
	practice): a guide for doctors / V. V. Ponomarev. — St. Petersburg:
	Foliant, 2020. — 364 c. // Digital educational resource IPR SMART:
	[сайт]. — URL: https://www.iprbookshop.ru/120017.html
	12. Emergency neurology: early surgical prevention of atherothrombotic
	stroke in carotid artery stenosis and occlusion (decision-making
	algorithm): methodological recommendations / I. A. Vozniuk, P. V.
	Chechulov, S. Sh. Zabirov [and others]; edited by I. M. Barsukova.
	— St. Petersburg: Styx Firm, 2019. // Digital educational resource
	IPR SMART: [сайт]. — URL:
	https://www.iprbookshop.ru/120562.html
Laboratory physical	<u> </u>
resources	
Special programs	http://10.10.202.52
	http://89.218.155.74
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Journa	ls (e-journals)	
Literature		 Main References: Kaishibaev, S. Neurology. 1 - book. Basics of topical and syndrological diagnosis: textbook / S. Kaishibaev Almaty: Evero, 2016 Kaishibaev, S. Neurology. Book 2. Special neuropathology [Text]: textbook / S. Kaishibaev Almaty: Evero, 2016 484 pages. s Kispaeva, T. T. Lectures on neurology [Text]: educational tool / Vol. T. Kispaeva 3rd head Karaganda: AKNUR, 2019 168 p. s. Akhmetova J.B. Semiotics of cranial nerve damage: textbook / Zh. B. Akhmetova 2nd research Karaganda: AKNUR, 2019 162 p. Akhmetova, Zh.B Karaganda: AKNYR, 2016 Kispaeva T. T. Atlas of neurology: textbook / T. T. Kispaeva 2nd ed Karaganda: AKHYP, 2019 126 p. Gusev, E. I. Neurology and neurosurgery. In 2 volumes. T. 1. Neurology: textbook 4th ed. extra; Min. education and science of the Russian Federation. Recommended by the State Budgetary Educational Institution of Higher Professional Education "First Moscow State Medical University named after I.M. Sechenov." - M.: GEOTAR - Media, 2015. Gusev, E. I. Neurology and neurosurgery. 2 volumes. 1 vol. Neurology [Text]: textbook / E. I. Gusev, A. N. Konovalov, V. I. Skvortsova; Kazakh language. aud. Sh. K. Omarova M.: GEOTAR - Media, 2016 488 pages. +people Opt. disk (CD-ROM) Gusev, E. I. Neurology and neurosurgery. 2 volumes. 2 t. Neurosurgery textbook / Kazakh language. aud. Sh. K. Omarova
12.	Course policy	 M.: GEOTAR - Media, 2016 312 pages. s. Additional literature Neurology. National leadership. Short version: manual / pod ed. E. I. Guseva M.: GEOTAR - Media, 2016. Abdrakhmanova, M. G. Modern principles of rehabilitation of neurological patients: educational and methodological tool / M. G. Abdrakhmanova, E. V. Epifantseva, D. S. Shaikenov; Ministry of Health and Social Development of the Republic of Kazakhstan. KMSU Karaganda: AKNUR, 2015. Abdrakhmanova, M. G. Modern principles of rehabilitation of neurological patients: teaching manual / M. G. Abdrakhmanova, E. V. Epifantseva, D. S. Shaikenov; Master of Health and Social Development of the Republic of Kazakhstan. KSMU Karaganda: IP "Aknur", 2015
14.	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 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				

Date of approval with the Library and Information Center	Protocol № 9 18.06.1014	Head of the LIC Darbicheva R.Y	Signature
Date of approval by the Department	Protocol № 10 10.06.2014	Head of Department professor Zharkynbekova N.A.	Signature
Date of approval by the AC of the EP	Protocol № 11 14.06, 2014	Head of CEP Kalmenov N.ZH	Signature