ОЙТÚSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



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 co	ourse			
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	1.8	Term:9		
	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.				
1.4	Post-requisites: neurology in	1.9	Number of	f credits (ECTS):5	
	general practice		150 hours		
1.5	Cycle: PD	1.10	Componer	nt: HEIC	
2.	Coursedescription (maximum	50 words)			
The di	scipline forms fundamental theore	etical knowledge	of the patterns	of structure and functions of	
the ne	rvous system, symptoms and synd	romes of damage	e to its various o	lepartments, blood supply to	
the cer	ntral nervous system, and also stu	dies the etiology,	pathogenesis, 1	nethods of diagnosis,	
treatm	ent and prevention of neurovascu	lar, neuromuscul	ar, demyelinatir	ng diseases, motor disorders.	
3.	Summativeassessmentform				
3.1	Testing		3.5	Coursework	
3.2	Writing		3.6	Essay	
3.3	Oral ✓		3.7	Project	
34	3.4OSPE / OSCE or Practical Skills Acceptance3.8Other (specify)				
J. T	OSI E/ OSCE OF Fractical Skins	Receptance	5.0	Ouler (speeny)	
4.	Discipline objectives		5.0		
4. The fo	Discipline objectives prmation of knowledge, skills and	practical skills n	ecessary: for the	e early diagnosis of	
4. The fo	Discipline objectives ormation of knowledge, skills and ogical, mental and narcological di	practical skills not seases in adults a	ecessary: for the	e early diagnosis of the clinic and at home; for	
4. The for neurol carryin	Discipline objectives ormation of knowledge, skills and ogical, mental and narcological ding out a complex of medical and p	practical skills n iseases in adults preventive measu	ecessary: for the and children in res at the pre-he	e early diagnosis of the clinic and at home; for ospital stage and in the	
4. The for neurol carryin treatm	Discipline objectives ormation of knowledge, skills and ogical, mental and narcological ding out a complex of medical and pent of neurological, mental and narcological,	practical skills no iseases in adults preventive measu arcological diseas	ecessary: for the and children in res at the pre-ho ses of patients a	e early diagnosis of the clinic and at home; for ospital stage and in the t home; for the diagnosis of	
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4. The for neurol carryin treatm emerg diseas	Discipline objectives ormation of knowledge, skills and ogical, mental and narcological di ng out a complex of medical and p ent of neurological, mental and na ency conditions and the provision es at the pre-hospital and hospital ogical examinations	practical skills no iseases in adults preventive measu arcological diseas of medical care stage and the det	ecessary: for the and children in res at the pre-ho ses of patients a for neurological termination of fo	e early diagnosis of the clinic and at home; for ospital stage and in the t home; for the diagnosis of l, mental and narcological orensic psychiatric and	
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4. The fc neurol carryin treatm emerg diseas narcol 5. CLO2 CLO2	Discipline objectives prmation of knowledge, skills and ogical, mental and narcological ding out a complex of medical and prent of neurological, mental and narcological, mental and narcological, mental and narcological examinations. Learning outcomes (Course 1. Demonstrates knowledge of transition 2. Participates in the preparation and instrumental methods of reurological patients, particip methods of scientific research understanding of facts, events neurology; understands the in 3. Formulates a standard definitit conditions; medical history in 4. Observes the principles at wo abuse patients, independently positive relationships with comparisonal states and states	practical skills masses in adults a preventive measure arcological diseases of medical care stage and the det learning outcor he basics of diages; home managen of patients taking research; applies ates in the organ and academic way, theories and comportance of the patients; rk confidentially solve problems in the agues	ecessary: for the and children in res at the pre-ho ses of patients a for neurological termination of fer nes) nosing neurolog nent rules or part in the im safety principle ization of preve writing in neurological mplex dependent principles and c rological, mental with neurological	e early diagnosis of the clinic and at home; for ospital stage and in the t home; for the diagnosis of l, mental and narcological orensic psychiatric and cical patients; clinical plementation of laboratory s when working with ntive measures; applies ogy; applying knowledge and ncies between them in <u>ulture of academic integrity;</u> al and drug addiction cal, psychiatric and substance rofessional activity. Forms	

ΟΝΤΙΣΤΙΚ-ΟΑΖΑΟSTAN ~2005 SOUTH ΚΑΖΑΚΗSTAN	
MEDISINA AVADEMIASY SKMA -1977- ACADEMIX	
АКАДЕМІАЗТ «Оңтүстік Қазақстан медицина академиясы» АҚ АО «Южно-Казахстанская меди	цинская академия»
Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery	044/56-11b
Working training program of the discipline: «Neurology»	2 page out of 21

CLO 6.	Interprets, justifies th	he history da	ata, prepares med	lical recor	ds				
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 The learning outcomes of the EP, which are related to the								
	outcomes	learning outcomes of the course							
	CLO 1	CLO1	CLO1 Provides patient-centered care in the field of biomedical,						
	CLO 2	clinica	clinical, epidemiological and socio-behavioral sciences for the						
	CLO 3	most c	CLO2 Carries out his/her activities within the framework of the						
	CLO 4	Legisle	tion of the Penu	blic of Ka	res within the fi	field of			
	CLO J	health	care is guided by	v them in	his/her practice	al activities to			
		ensure	optimal medica	l care.	ms/ner practice				
	CLO 7	CLO3	Adheres to the r	ules of etl	hics, deontolog	v and			
		subor	lination, demons	trates inte	rpersonal and c	communication			
		skills	that lead to effec	tive inform	nation exchang	e and cooperation			
		with p	atients, their fam	ilies and a	medical profess	sionals.			
	CLO 6	CLO 4	4 Conducts effec	tive measu	ures aimed at th	ne diagnosis,			
		treatm	ent, prevention of	of commo	n and early form	ns of diseases.			
6.	Detailsofthecourse		~	<u> </u>					
6.1	Location (building, a	uditorium):	City hospital №	2, Zhando	osov street 92.				
60	Email address: <u>kafed</u>	ranevrologi	<u>1@bk.ru</u>	CIW	CINT	Dran anotion and			
0.2	Number of nours	Lectures	Prac. Lessons	21 M	51W I	conduct of final			
						certification			
		15	35	56	30	14			
7.	Information about	teachers							
N⁰	Full name	Degrees	Email add	lress	Scientific	Achievements			
		and title			interests,				
					etc				
1.	Mustapaeva	Candidat	E-mail:		Research	Author of more			
	Gulnara	e of	gul_nara78@m	ail.ru	interests:	than 80			
	Abdymazhitovna	Medical	Contact numbe	r:	angioneurol	scientific			
		Sciences,	8//8/886510		ogy,	articles, I			
		associate			neurology.	textbook.			
2		Assistant	F_mail:		Research	Author of more			
2.	Esetova Avnur	Assistant	esetova avnura	@mail r	interests.	than 30			
	Amirhanovna			<u>e munn</u>	neurology.	scientific			
	1 minute vita		Contact numbe	r:	neurorogy.	articles			
			87789474404						
3.	Abdraimova	Assistant	E-mail:		Research	Author of over			
	Saltanat		Salta1403@ma	<u>il.ru</u>	interests:	10 scientific			
	Orynbasarovna		Contact numbe	r:	angioneurol	articles			
			87018820308		ogy,				
	0.1.1		.		neurology.				
4.	Suleimenov Murat	Assistant	E-mail:		Research	Author of more			

	ойти́зтік-QazaQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ								
-	Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery Working training program of the discipline: «Neurology»							044/5 3 page	66-11b e out of 21
5	Anarbekovich . Muminova Roza Kulmatovna	Assistant	suleymeno il.ru Contact nu 877548818 E-mail: roza.mumi il.ru Contact nu 877531111	w mura@ umber: 848 anova.94@ umber: 114	ma ma	inter adu ped neu inst reso adu ped neu inst reso me	erests: ilt and liatric urology, trumental earch thods in urology. search erests: ilt and liatric urology, trumental earch thods in urology, trumental	than artic Auth than artic	5 scientific les nor of more 5 scientific les
8	. Thematic plan					neu	irology.		
Wee Day	ek/ Topic	Summa	ry	Course learnin g outcom es	Nur ber hou	m of irs	Forms / methods learning technolo	/ gies	Forms / assessmen t 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.	Descript history of developr neurolog Transmis informat nervous Mediator receptors Ascendin pathway spinal co classifica types of sympton syndrom damage.	ion and of ment of gy. ssion of ion in the system. rs and s. ng s of the ord, ation of sensitivity, ns and es of	CLO 2	2		Review		Feedback
	Practical lesson. Theme: Sensitivity, symptoms and syndromes of lesion, research methods.	Peripher central so the soma system. A spinotalo Lateral spinotalo	al and ections of ttosensory Anterior omic tract.	CLO 1	3		TBL, Cas study, thematic discussio	se- n.	tests, oral and written survey, working with didactic



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery Working training program of the discipline: «Neurology»

044/56-11b 4 page out of 21

	Sensory disorders				material
	depending on the				material
	level of domono to				
	level of damage to				
	sensitive pathways.				
	Superficial and				
	deep sensitivity				
	studies. Syndromes				
	of disorders of				
	superficial and				
	deep sensitivity.				
	Topical diagnosis				
	of sensory lesions				
SIWT	Nosology to the	CLO 1	35	Format of	Assessment
SIWI. Congultation on the	nosology to the	CLU I	5-5	dolivor	Assesment
Consultation on the	selected student			derivery	of the
implementation of	must make a			Microsoft	quality of
SIW I. SIW task	clinical case:			PowerPoint	design,
1. Transverse	complaints, history			presentation,	oral
myelitis	and general			glossary,	questionin
2. Multiple sclerosis	examination,			TVL, Case-	g.
Guillain-Barré	diagnosis and			study,	
syndrome	differential.			analysis of	
	diagnostics,			scientific	
	treatment tactics			medical	
	and prognosis			articles	
	and prognosis.			urticies.	
	Project tonic.				
	Clinical and				
	domographia				
	analysis of				
	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				
	concent of the				
	project Scleeting				
	the type of project				
	the type of project				
	product;				
	2) Determination of				
	methods for				



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery 044/56-11b $5\ page \ out \ of \ 21$ Working training program of the discipline: «Neurology»

solving the		
problem, sources of		
information		
(databases		
regulatory		
documentation		
ata) mathada for		
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, unarysis		
etc		
5) Implementation		
of the developed		
action plan of the		
project Project		
project. Project		
Gelle etime en elemie		
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:		
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;		

	ОЙТÚSTIK-QAZAQSTAN МЕДІЗІЛА АКАДЕМІАЗҮ «Оңтүстік Қазақстан медицина академиясы» АҚ							
	Department of Neuro Working traini	logy, Psychiatry, Rehabilite ng program of the discipl	ology and Neine: «Neurol	eurosurger logy»	y	044/5 6 page	6-11b out of 21	
		 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	



7 page out of 21

Working training program of the discipline: «Neurology»

I	CITIZED			0.7		· ·
	SIWT.	Nosology to the	CLO 1	3-5	Format of	Assesment
	Consultation on the	selected student			delivery	of the
	implementation of	must make a			Microsoft	quality of
	SIW 1. SIW task	clinical case:			PowerPoint	design,
	1. Amyotrophic	complaints, history			presentation,	oral
	lateral sclerosis	and general			glossary.	auestionin
	2. Stroke the spinal	examination.			TVL. Case-	σ
	cord	diagnosis and			study	ъ
	3 Acute	differential			analysis of	
	disseminated	diagnostics			scientific	
	anconholomyolitic	trastmant tastias			madical	
	4. The sum drame of	and mean again				
	4. The syndrome of	and prognosis.			articles.	
	infringement of the					
	brachial plexus	For the selected				
	5. Syndrome	nosology, the				
	infringement of the	student must draw				
	radial nerve	up a clinical case:				
	6. infringement of	complaints,				
	the ulnar nerve	anamnesis and				
	syndrome	general				
	7. The median nerve	examination,				
	syndrome	diagnosis and				
	infringement	differential.				
	C	diagnosis,				
		treatment tactics				
		and prognosis.				
		Project:				
		- determination of				
		the leaders of the				
		project activities of				
		students and the				
		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				
		WUIK.				



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery Working training program of the discipline: «Neurology»

044/56-11b $8 \ page \ out \ of \ 21$

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 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 syndrome. Methods	CLO 2	3	TBL, Case- study, thematic discussion.	tests, oral and written survey, working with didactic material





Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery	044/56-11b
Working training program of the discipline: «Neurology»	9 page out of 21

		for studying cerebellar function. Topical diagnosis of cerebellar				
	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.	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.
		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.				
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





Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery Working training program of the discipline: «Neurology»

044/56-11b 10 page out of 21

	6 pairs of cranial				
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.



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery 044/56-11b 11 page out of 21 Working training program of the discipline: «Neurology»

		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.	Nosology to the	CLO 3	2-4	Format of	Assesment
	implementation of	must make a			Microsoft	quality of



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery 044/56-11b 12 page out of 21 Working training program of the discipline: «Neurology»

	SIW 1. SIW task	clinical case:			PowerPoint	design,
	1. Neuropathies and	complaints, history			presentation,	oral
	neuritis of the facial	and general			glossary,	questionin
	nerve.	examination,			TVL, Case-	g.
	2. Neuralgia of the	diagnosis and			study,	C
	glossopharyngeal	differential.			analysis of	
	nerve	diagnostics.			scientific	
	3. Cochlear and	treatment factics			medical	
	vestibular	and prognosis			articles	
	neuropathies	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				
		critoria for				
		ovaluating results:				
		dotormining how				
		the regults will be				
		nreconted				
		Interim project				
		report				
	Cross-bordor	Tepott			Testing Oral	Testing
	cross-border				Testing, Orai	Orol
					survey.	SURVAY
6	Lactura Thoma	Brain Projection	CIO1	2	Review	Feedback
0.	Higher mental	associative		2	INT VIEW	I COUDACK
	/cognitive functions	commissural fibers				
	symptoms and	L ocalization of				
	symptoms and	functions in the				
	legion Research	correbral corter				
	mothoda	Uighor montal				
	methous.	functions				
		runctions and		1		



 Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery

 Working training program of the discipline: «Neurology»

044/56-11b 13 page out of 21

	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 lasson	Brain Projection	CIO4	3	TRI Case	tests oral
Thome	associative		5	study	and
Higher montal	associative,			thematic	writton
laganitivo functiona	Localization of			discussion	wittell
/cognitive functions,	functions in the			uiscussion.	survey,
symptoms and	iuncuons in the				working
Syndromes of lesion.	Uichen montal				with didactic
Research methods.	functions and				didactic motorial
	iunctions and				material
	syndromes of				
	violation in the				
	defeat of the				
	cortex. Violations				
	of gnosis, praxis,				
	uninking, memory,				
	speech, etc.				
	Research methods				
	of nigher mental				
	functions. Topical				
	damage to high				
	uamage to nigner				
CIWT	Negele set of		2.4	Earner at a C	A and a t
SIW1.	inosology to the	CLU 4	2-4	Format of	Assesment
Consultation on the	selected student			delivery	of the
implementation of	must make a			IVIICIOSOIT	quality of
SIW I. SIW task	clinical case:			PowerPoint	design,
1.Marie-Foix-	complaints, history			presentation,	oral
Alajuanin's ataxia.	and general			glossary,	questionin
2. Pierre-Marie's	examination,			IVL, Case-	g.
ataxia.	differential			study,	
5. Gilles de	differential.			analysis of	
I ourette's syndrome	diagnostics,			scientific	
	treatment tactics			medical	
	and prognosis.			articles.	
	Ducients				
	rroject:				

			MA MEDICA	AL MY				
	«Оңтүстік Қазақстан мед	ицина академиясы» АҚ 🛛 🏹	у чо «Ю:	жно-Казахс	танская медиі	цинская	академия»	
	Department of Neurol	logy, Psychiatry, Rehabilite	ology and Ne	eurosurger	у	044/5	6-11b	
	Working training program of the discipline: «Neurology»							
	search for the							
		- search for the						
		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	1	Review		Feedback	
	The meninges of the	Arachnoid. Pia						
	brain. Liquor.	mater. The						
	Meningeal	ventricular system						
	syndrome,	of the brain.						
	intracranial	Functions of the						
	hypertension	cerebrospinal fluid.						
	syndrome. Modern	General cerebral						
	laboratory	symptoms. Shell						
	instrumental,	symptoms.						
	neuroimaging	Diagnosis of						
	research methods in	diseases of the						
	neurology	nervous system.						
		Instrumental and						
		in nourology CT						
		and MPI in						
		neurology						
		Computed and						
		magnetic resonance						
		imaging in						
	neurology							
		Angiography in						
	neurology.							
		Ultrasound in						
		neurology.						
		Myelography in						
		neurology.						
		Electroencephalogr						
		aphy in neurology						
	Practical lesson.	Dura mater.	CLO 1	3	TBL, Cas	se-	tests, oral	
	Theme	Arachnoid. Pia			study.		and	



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery044/56-11bWorking training program of the discipline: «Neurology»15 page out of 21

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. 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. Electroencephalogr			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.



SOUTH KAZAKHSTAN MEDICAL

мерісае АСАРЕМҮ АО «Южно-Казахстанская медицинская академия»

Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery 044/56-11b 16 page out of 21 Working training program of the discipline: «Neurology»

- 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 1 Feedback Review Blood supply to the Arteries. brain. brain and spinal veins of the brain. cord. Vascular Blood supply to the diseases of the spinal cord. central nervous Ischemia of the brain and spinal system. cord. Intracranial hemorrhage. Topical diagnosis of damage to the vascular pools of the brain Practical lesson. Blood supply to the CLO₁ 3 TBL, Casetests. oral Theme brain. Arteries. study, and veins of the brain. thematic Blood supply to the written brain and spinal Blood supply to the discussion. survey, cord. Vascular working spinal cord. diseases of the Ischemia of the with didactic central nervous brain and spinal Intracranial material system. Damage to cord. the nervous system hemorrhage. with Covid 19. Topical diagnosis of damage to the Acute cerebrovascular vascular pools of accident. Acute the brain. Damage meningiencephalitis. the nervous to Guillain-Barré system with Covid 19. syndrome. Features Acute of diagnosis and cerebrovascular treatment of accident. Acute meningiencephaliti neurological complications of Guillain-Barré s. coronavirus syndrome. Features infection. of diagnosis and treatment of neurological complications of





Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery Working training program of the discipline: «Neurology»

044/56-11b	
17 page out of 21	

		coronavirus				
		infection.				
	SIWT.	Collection of	CLO 1	2-4	Discussion,	Oral
	Consultation on the	research			analysis and	questionin
	implementation of	information-			objective	g on the
	SIW 1. SIW task	literature (articles)			evaluation of	Checklist.
	1. Hemorrhagic	published in			scientific	
	stroke	scientific domestic			articles.	
	2. Ischemic stroke	and foreign			Critical.	
	3. Aneurysm of	journals (PubMed.			stylistic and	
	cerebral vessels.	MEDLINE, Web of			factor	
	cerebral hemorrhage	Science and etc.)			analysis.	
		Project:				
		- analysis of the				
		obtained results:				
		- project				
		implementation:				
		- preparation and				
		presentation of the				
		report.				
9.	Lecture. Theme	Etiology.	CLO 1	1	Review	Feedback
	The concept of	pathogenesis.	0201	-		1.00000000
	epilepsy. Etiology.	classification of				
	pathogenesis.	epilepsy.				
	classification of	Mechanisms for the				
	epilepsy	development of				
	-FF-2	seizures in				
		epilepsy. Triggers				
		of epilepsy.				
		Epileptic focus.				
		Epileptic status.				
		emergency care.				
	Practical lesson.	Etiology,	CLO 6	3	TBL, Case-	tests, oral
	Them	pathogenesis,			study,	and
	The concept of	classification of			thematic	written
	epilepsy. Etiology,	epilepsy.			discussion.	survey,
	pathogenesis,	Mechanisms for the				working
	classification of	development of				with
	epilepsy e	seizures in				didactic
		epilepsy. Triggers				material
		of epilepsy.				
		Epileptic focus.				
		Epileptic status,				
		emergency care.				
	SIWT.	Nosology to the	CLO 6	2-4	Format of	Assesment
	Consultation on the	selected student			delivery	of the
	implementation of	must make a			Microsoft	quality of



	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:			PowerPoint presentation, glossary, TVL, Case- study, analysis of scientific medical articles.	design, oral questionin g.
		obtained results; - project implementation; - preparation and presentation of the report.				
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.	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.



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery 044/56-11b 19 page out of 21 $\,$ Working training program of the discipline: «Neurology»

		 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.	





Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery 044/56-11b 20 page out of 21 Working training program of the discipline: «Neurology»

		- preparation and					
		presentation of the					
10	D	report.	CI O C	2		1	
12	Thomas Thomas	Peripheral	CLU 6	3	IBL, Case-	tests, oral	
	I neme Dominhanol nomyour	components of the			study,	and	
	Peripheral hervous	alinical system and			discussion	written	
	system, symptoms	clinical syndromes			discussion.	survey,	
	domogo record	them. Torical				working	
	mathada	diagnosis alinical				didaatia	
	memous.	syndromes of				material	
		lesions nyramidal				material	
		tracts					
	SIWT.	Nosology to the	CLO 6	3-5	Format of	Assesment	
	Consultation on the	selected student	CLO 0	5.5	delivery	of the	
	implementation of	must make a			Microsoft	quality of	
	SIW 1. SIW task	clinical case:			PowerPoint	design,	
	1. Transient	complaints, history			presentation,	oral	
	ischemic attack	and general			glossary,	questionin	
	2.	examination,			TVL, Case-	g.	
	Neuroinvasiveness	diagnosis and			study,		
	and neurovirality of	differential.			analysis of		
	the SARS CoV	diagnostics,			scientific		
	virus. Cavernous	treatment tactics			medical		
	sinus thrombosis associated with	and prognosis.			articles.		
	Covid-19.	Project:					
		- analysis of the					
		obtained results;					
		- project					
		implementation;					
		- preparation and					
		presentation of the					
12	Care as hearden	report.			Testine Oral	Testine	
15	Cross-Dorder				Testing, Oral	Testing,	
	control 2				survey.	Olal	
	Preparation and condu	ct of intermediate cert	ification	14		survey.	
9.	Training and Teachin	gMethods	meation	117			
9.1	Lectures	Review, thematic.					
9.2	Practicallessons	Theme discussion, TBL, Case-study, a standardized method of					
		patient-based clinical case (CBL), working with the medical					
		literature.					
		Testing, oral and w	ritten surv	ey,			
		interviewing, essay	s, working	g with dic	lactic material, s	olving	
		situational problem	s.				
9.3	SIW / SIWT	working with educational and additional literature, solving and					

		«Оңтүстік Қазақстан	ONTÚSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ							
		Department of N Working tr	eurolog aining	gy, Psych ; progra r	iatry, Rehabilitology and Neu n of the discipline: «Neurolo	gy»	044/56-11b 21 page out of 21			
		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;Mid-termexaminationDecision of situational tasks. Demonstration of practical skills.								
9	9.4 Mid-termexamination Decision of situational tasks. Demonstration of practical skills.									
1	0.	Evaluation criter	ia		,					
10	<u>).1 Cr</u>	riteria for evaluatin	ng the	e results	s of discipline training					
J	№ RT	Name of learning outcomes	Uns ct	atisfa ory	Satisfactory	Well	Excellent			
	RT	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 demote te basic the diag of neur al di and clini indic s of and chilo	s not onstra the cs of nosis ologic seases cal cation adults lren;	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 name basic perfo g labor and instr al re meth and not the meth of	s not e the cs of ormin ratory ument search nods does apply nods	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			



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery	044/56-11b
Working training program of the discipline: «Neurology»	22 page out of 21

		preventive	scientific			
		measures;	research			
		applies the	and			
		methods of	academic			
		scientific research	writing in			
		and academic	neurology,			
		writing in	psychiatry			
		neurology,	and			
		psychiatry and	psycholog			
		psychology;	y; does			
		applies	not apply			
		knowledge and	knowledg			
		understanding of	e and			
		facts, phenomena,	understan			
		theories and	ding of			
		complex	facts,			
		dependencies	phenomen			
		between them in	a, theories			
		neurology,	and			
		psychiatry and	complex			
		psychology;	dependenc			
		understands the	ies			
		importance of the	between			
		principles and	them in			
		culture of	neurology,			
		academic	psychiatry			
		integrity;	and			
			psycholog			
			y; does			
			not			
			understan			
			d the			
			importanc			
			e of			
			principles			
			and			
			culture of			
			academic			
			honesty;			
	DT		D			T
	KI 2	Formulates a	Does not	Does not fully know	Determines	Formulates the
	3	standard	KNOW NOW	now to determine	acute	uerimition of
		neurological	iu dotormino	montal acute incuroiogical,	montol and	nourological
$\left \right $		montal and		nemai and	nercological	montol and
		nercological	nourologia	andition	anditiona	nemai and
$\left \right $		anditional	al montal	Un door not full-	Nomos the	anditions
		conditions;	ai, mental	He does not fully	inames the	conditions.



Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery Working training program of the discipline: «Neurology» 044/56-11b 23 page out of 21

	collection of	and	name the symptoms	symptoms of	Interprets and
	anamnesis in this	narcologic	of acute neurological	acute	classifies
	category of	al	mental and	neurological	symptoms and
	nationts:	conditions	narcological	mental and	symptoms and
	patients,	He does	anditions	nercological	synurological
		. He does			neurological,
		not name	Does not fully know	conditions.Know	mental and
		the	the principles and	s and applies the	narcological
		symptoms	features of the	principles and	conditions.
		of acute	collection of	features of	Demonstrates
		neurologic	anamnesis in	anamnesis	the principles
		al, mental	neurological, mental	collection in	and analyzes the
		and	and narcological	neurological,	features of
		narcologic	patients with acute	mental and	anamnesis
		al	conditions.	narcological	collection in
		conditions		patients with	patients with
		201010110		acute conditions	acute
		Does not		usute conditions.	neurological
		know the			montal and
		minoinlos			
		principles			narcological
		and			conditions.
		features of			
		collecting			
		anamnesis			
		in			
		neurologic			
		al, mental			
		and			
		narcologic			
		al patients			
		with acute			
		conditions			
		•			
RT	Adheres to the	Does not	Makes mistakes in	Adheres to the	Demonstrates
4	principles of	comply	maintaining	principles of	and adheres to
	confidentiality	with the	confidentiality when	confidentiality	the principles of
	when working	nrinciples	working with	when working	confidentiality
	with neurological	of	neurological mental	with	when working
	montal and	confidenti	and percological	neurological	with
		olity when	notionto nalcological	montol or 1	with nourological
	narcological	anty when	patients.	mentar and	neurological,
	patients,	working	Does not fully solve	narcological	mental and
	independently	with	problems in the field	patients.	narcological
	solves problems	neurologic	ot professional	Independently	patients.
	in the field of	al, mental	activity	solves problems	Independently
	professional	and	independently. Does	in the field of	makes decisions
	activity. Forms	narcologic	not fully understand	professional	in problems in
	positive	al patients.	the importance of the	activity. Knows	the field of

ойти́รтік-оаzаоsтан MEDISINA АКАDEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская меди	цинская академия»
Department of Neurology, Psychiatry, Rehabilito	044/56-11b	
Working training program of the disciplin	24 page out of 21	

	relationships with colleagues.	Does not know how to solve problems independe ntly in the field of profession al activity. Does not know the principles of forming positive relationshi	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	ps with colleagues Does not demonstra te knowledg e of treatment protocols for neurologic al, 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 manageme nt, 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





Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery044/56-11bWorking training program of the discipline: «Neurology»25 page out of 21

			examinati				condition,	small	in	patie	nt
			ons				stylistic	errors	manager	nent	
							are made.		diaries.	Has i	ts
									own 1	reasone	:d
							_		position.		-
RT	He is aware	e of the	Does not	He c	annot si	ngle out	Is aware	of the	Analyze	s ar	ıd
7	need to m	aintain	know the	the r	nain thin	g in the	need to m	aintain	justifies	th	ie
	confidentia	lity in	principles	princ	ples	ot	confidentia	ality in	need	10	or
	professiona	1	of	confi	dentiality	/ 1n	profession	al	confiden	tiality	
	relationship	DS	confidenti	profe	essional	relations	relationshi	ps	in prot	tession	al
	when w	orking	ality in	when	1 WORKII	ng with	when w	orking	relations	hips	
	with neuro	logical,	profession	neuro	ological,	mental	with	1	when	WORK1	ıg
	mental	and		and	narc	cological	neurologic	al,	with 1	• 1	
	narcologica	11 	relations	patie	nts.	1	mental	and	neurolog	gical,	.1
	patients, a	ind 1s	when	Does	f not kn	ow now	narcologic		mental	ar	a
	willing to	WOIK	working	l0 inder	Iully	exercise	patients.	Snows	drug-rei	ated	
	Domonstrat	tuy.	with	maer T+	door	not	winnignes	s to	Domons	tratas	
	Demoistrat	ies	al montal	n	aiontly	not	indopondo	ntly	indopon	donco i	in
	professiona	1 10	and drug	demo	onstrate		Demonstra	nny. Mas	decision		.11
	ethical stan	dards	related	adhe	rence	to	commitme	ent to	making	-	
	etinear stan	uarus.	natients	nrofe	essional	ethical	profession	al to	Has it	s 014	'n
			Does not	stand	lards	etinear	ethical star	ndards	position	5 01	
			know how	Stante	uius.		ethieur stu	ildul ub	regardin	σ	
			to work						adherend	e 1	to
			independe						professio	onal	
			ntly. Does						ethical		
			not show						standard	s.	
			adherence								
			to								
			profession								
			al ethical								
			standards.								
10.2	2 Evaluati	on crite	ria								
Checklist for pra		ctical le	essons		[_		_		
Form of		-	Evaluation				Evaluatio	on crite	ria		
control					T . •	, • .4			. 1. 1	, ,	
Oral and		0	Excellent		It is pu	t in the e	event that the	ne stude	ent did no	ot make	e a
writ	uen	Cor	responds to th	ie	mistakes or inaccuracies during the answer. Focuses						
rest	Jolise	Λ ()	raungs:) .	disciplin	ones, co	voc them a	oritical		ule st	uui
		A (2	+,0, 93-100% 3 67· 00 0/0/), .)	scientifi	c achieve	ves ments of other	onucal	assessine	in, use	-8
		A- (3,07, 70-94%)	scicitui				pinies.		

«Оңт	ОÑTÚSTIK-QAZAQ: MEDIS АКАDEMI үстік Қазақстан медицина академиясы:	STAN SINA ASY AK	SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская меди	цинская академия»	
Dep	artment of Neurology, Psychiatry, F Working training program of the	Rehabilit e discipl	ology and Neurosurgery ine: «Neurology»	044/56-11b 26 page out of 21	
$\begin{array}{r} \textbf{Good} \\ \textbf{Corresponds to} \\ \textbf{estimates:} \\ \textbf{B} + (3,33; 85-89\%); \\ \textbf{B} (3,0; 80-84\%); \\ \textbf{B} (2,67; 75-79\%) \\ \textbf{C} + (2,33; 70-74\%); \\ \hline \textbf{Satisfactory} \\ \textbf{Corresponds to estimates} \\ \textbf{C} (2,0; 65-69\%); \\ \textbf{C} - (1,67; 60-64\%); \\ \textbf{D} + (1,33; 55-59\%) \\ \textbf{D} (1,0; 50-54\%) \\ \hline \textbf{Unsatisfactory} \\ FX(0,5; 25-49\%) \\ F(0; 0-24\%) \end{array}$			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. 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 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 Evaluation control			Evaluation c	riteria	
Performin g test tasks	Excellent Corresponds to the rating A (4,0; 95-100%); A- (3,67; 90-94%)	s:	90-100% correct answers		
	Good Corresponds to estimates: $B+(3,33; 85-89\%);$ $B(3,0; 80-84\%);$ $B-(2,67; 75-79\%)$ $C+(2,33; 70-74\%);$ Satisfactory Corresponds to estimates C (2,0; 65-69\%); $C-(1,67; 60-64\%);$ $D+(1,33; 55-59\%)$ $D(1,0: 50-54\%)$		70-89% correct answers		
			50-69% correct answers		
	Unsatisfactory FX(0,5; 25-49%) F(0; 0-24%)		Less than 25% correct answ	ers	
Form of control	Evaluation		Evaluation	criteria	

ОЙТÚSTIК-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	SKMA -1579- 	SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медии	цинская академия»
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Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery044/56-11bWorking training program of the discipline: «Neurology»27 page out of 21

Preparation		The problem formul	ated by the student is	
and defense	Excellent	commented on based	on the source text. The	
of the essay	Corresponds to the ratin	student gave at least 2	examples from the read text	
	A (4,0; 95-100%);	that are important for	understanding the problem.	
	A- (3,67; 90-94%)	There are no actual err	ors related to understanding	
		the problem of the sour	ce text in the comment.	
	Good	The problem formul	ated by the student is	
	Corresponds to estimate	commented on based	on the source text. The	
	B+(3,33; 85-89%);	student gave 1 example from the read text, which i		
	B (3,0; 80-84%);	important for understan	ding the problem. There are	
	B- (2,67; 75-79%)	no actual errors related to the source text in		
	C+(2,33; 70-74%);	comment.		
Satisfactory		The problem of the tex	t formulated by the student	
Corresponds to estimates C		,0; is commented based of	on the source text, but the	
65-69%);		student did not give a	ny examples from the read	
C- (1,67; 60-64%);		text that are important for understanding		
D+ (1,33; 55-59%)		problem, or the comment made one factual e		
D (1,0: 50-54%)		related to understanding the problem of the sou		
		text.		
	Unsatisfactory	The problem formulated by the student is he		
	FX(0,5; 25-49%)	commented on or comm	nented on without reference	
	F(0; 0-24%)	to the source text, or th	ere is more than one factual	
		error in the comment related to the understandin		
		of the source text.		
	_			
Form of control	Evaluation	Evaluation	criteria	
		he didactic material is filled in	n carefully, at the	
Filling in	Excellent	ppointed time, filled in indepe	ndently using at least 5	
didactic Corresponds to the litera		literary sources. Diagrams, tables and figures		
material	ratings: $A (4.0, 05, 1000)$	prresponding to the topic are f	illed in. Confidently and	
	A $(4,0; 95-100\%);$	curately answers all the quest	ions asked.	
	A- (3,0/; 90-94%)			
	Good	he didactic material is fil	led in carefully, at th	
	Corresponds to estimates:	ppointed time, filled in indep	pendently using at least	
	B+(3,33; 85-89%);	erary sources. Diagrams	, tables and figure	
	B(3.0, 80, 84%)	prresponding to the topic are f	illed in	

D(3,0, 00-0470),	corresponding to the topic are fined in.
B- (2,67; 75-79%)	When answering questions, he makes unprinciple
C+(2,33; 70-74%);	mistakes.
Satisfactory	The didactic material was filled in sloppily and ne

Corresponds to estimates
C (2,0; 65-69%);
C- (1,67; 60-64%);
D (1,0: 50-54%)International was finded in stopping and in
delivered on time, filled in independently using less than
literary sources. When answering questions, he make
gross mistakes, does not Orient himself in the material.D (1,0: 50-54%)
UnsatisfactoryThe job is not done.

FX(0,5; 25-49%)





Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery

Working training program of the discipline: «Neurology»

044/56-11b $28 \ page \ out \ of \ 21$

		F(0; 0-24%)					
	Multi-point knowledg	ge assessment sys	tem				
	Grade by letter	Numeric	Percentage	Grade by traditional system			
	system	equivalent of	_				
	-	points					
	А	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 resour	ces					
E ir tc si b e l m v	lectronic resources, acluding, but not limited o: databases, animation mulators, professional logs, websites, other lectronic reference haterials (for example: ideo, audio, digests)	Атлас по нен Неврологиял Абдрахманоо 2019https://al Неврология 2014https://al Анарбаева науқастарды - 119 б ISB Дущанова Г. «Эверо», 202 https://www.c Б 78 Бокебас Диагностики Издательство https://www.c Д 64 Дущано Эверо, 2020. https://www.c Д64 Дущано Эверо https://www.c Т65 Төлеуса e.C. Нұрғоя	 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. 1-бөлім, оку құралы» Алматы, Эверо, 2020 105 бет/ https://www.elib.kz/ru/search/read_book/179/ Д64 Дущанова. «Неврология. 11-бөлім, оку құралы». – Алматы, Эверо баспасы, 2020. – 188 бет., https://www.elib.kz/ru/search/read_book/181/ То 5 Телеусаринов А.М. Жалпы неврология / А.М. Төлеусаринов 				
Е	lectronic textbooks	Основная:					
		1.Е.И. Гусев	Неврология и нейрохирур	гия. В 2 т. Т. 1. Неврология.:			
	учебник / Е. И. Гусев, А. Н. Коновалов, В. И.Скворцова 4-е изд.						

ONTÚSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ					
Department of	f Neurology, Psychiatry, Rehabilitology and Neurosurgery	044/56-11b			
Working	g training program of the discipline: «Neurology»	29 page out of 21			
	доп.; Мин. ооразования и науки РФ. Рекомен	довано ГБОУ ВПО			
	Первыи Московскии гос. мед.ун-т им. И.М	. Сеченова" М.:			
	1901АР - Медиа, 2015.				
	2.Ахметова Ж.Б. Семиотика поражения черепно	о-мозговых нервов :			
	учеоное пособие / ж. Б. Ахметова 2-е изд К	Aараганда : АҚН $+$ Р,			
	2019 102 C. Экземпляры: всего:15 - 43-2(2), 43	-3(1), Ay JI(12)			
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	Киспасва 2-с изд Караганда . Аң Π - Экроминисти: роого 25 Π - 2(2) Π - 2(1) Λ V Π (2)	r, 2019 120 c.			
	π	.)			
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	пикоролство / под ред Е И Гусера - М : ГЭОТ	$\Delta P = Menua 2016 P$			
	2 Аблрахманова М Г Современные прини	ипы реабилитации			
	неврологических больных учебно метолическо	ре пособие / М. Г.			
	Аблрахманова. Е. В. Епифанцева. Л. С.	Шайкенов : М-во			
	здравоохранения и социального развития РК. К	ГМУ Караганда :			
	ИП "Ақнұр", 2015	1 7			
Laboratory physical	http://lib.ukma.kz				
resources	resources				
Special programs	Special programs http://10.10.202.52				
	http://89.218.155.74				
Journals (electronic	http://rmebrk.kz/				
journals)					
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

ойтúзтік-Qаzaostan MEDISINA АКАДЕМІАSY «Оңтүстік Қазақстан медицина академиясы» АҚ	цинская академия»
Department of Neurology, Psychiatry, Rehabilitology and Neurosurgery	044/56-11b
Working training program of the discipline: «Neurology»	30 page out of 21

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
12.08.2023			Tharkin Berova N.M.	- A
Date of examination		Protocol No. <u>44</u>	Full name of a member of the CEP	Signature
12-08 2023			Sady Kova A.Sh	(fin)-
Revision date		Protocol No. <u>11</u>	Full name of Head of the Department	Signature
12-08.2023			That Kinsero by N.A.	B