«NEUROLOGY»

General Educational Program of higher education (<u>specialist's degree programs</u>) 31.05.01 General Medicine

Department: Nervous Diseases

1. The purpose of mastering the discipline (*participation in the formation of relevant competencies – specify the codes*): UK4, GPC8, GPC9, PC1, PC5, PC6, PC8, PC9, PC 10, PC11, PC14, PC16

2. Position of the academic discipline in the structure of the General Educational Program (GEP).

2.1. The discipline refers to the core part (or *the part formed by the participants of educational relations*) of Block 1 of GEP HE.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

<u> </u>	professional (GPC) or/and professional (PC) competencies					
			Code and		nastering the di	scipline, the
	Competence The content of		name of the	students should:		
№	code	the competence	competence			
	couc	(or its part)	acquisition	know	be able to	possess
			metric			
1.	UC-4	Able to apply modern communication		the basics of oral and written	express thoughts in	writing texts in
		technologies, including		communication in	Russian and a foreign language in	Russian and
		the use of a foreign language(s), for		Russian and foreign languages, functional	business	foreign languages
		academic and		styles of the native	communication	related to the
		professional interaction		language, requirements to		professional
				business communication,		activity;
				modern means of		experience in
				information and communication		translating
				technologies		medical texts
						from a foreign language into
						Russian:
						experience in
						speaking Russian
						and foreign
						languages
2.	GPC-8	Able to implement and		procedures for the organization of	develop an action plan for the medical	drawing up a plan of measures for
		realize monitoring the		medical	rehabilitation of	medical
		effectiveness of the		rehabilitation, including the	patients including the implementation	rehabilitation of a patient, including
		patient's medical		implementation of	of individual	when
		rehabilitation including		individual rehabilitation and	rehabilitation and habilitation	implementing individual
		in the implementation of		habilitation programs for disabled people;	programs for the disabled people in	rehabilitation and habilitation
		individual rehabilitation		methods of medical	accordance with the	programs for
		and habilitation		rehabilitation of a patient including	current procedure for the organization	disabled people, in accordance
		programs for the		when implementing	of medical	with the current
		disabled people, assess		individual rehabilitation and	rehabilitation, clinical	procedure for medical
		the patient's ability to		and and		

		carry out work activitie	habilitation programs for the disabled, medical indications and medical contraindications for their implementation taking into account the diagnosis in accordance with current procedures of the organization of medical rehabilitation, clinical recommendations taking into account the standards of medical care; ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, arising as a result of medical rehabilitation measures; procedure for examination of temporary disability of a patient; signs of persistent impairment of body functions caused by diseases, consequences of injuries or defects	recommendations taking into account the standards of medical care; determine medical indications for medical rehabilitation measures in accordance with the current procedure for the organization of medical rehabilitation, clinical recommendations taking into account the standards of medical care; evaluate the effectiveness and safety of medical rehabilitation measures for patients including when implementing individual rehabilitation and habilitation programs for disabled people in accordance with the current procedure for organizing medical rehabilitation, clinical recommendation taking into account the standards of medical care; identify signs of temporary disability and signs of persistent impairment of body functions caused by diseases,	rehabilitation, clinical recommendations, taking into account medical care standards; carrying out medical rehabilitation measures for patients including when implementing individual rehabilitation and habilitation programs for disabled people, in accordance with the current procedure for the organization of medical rehabilitation, clinical recommendations, taking into account the standards of medical care; evaluation of the effectiveness and safety of measures for medical rehabilitation of patients, including the implementation of individual rehabilitation and habilitation programs for disabled people
3.	GPC-9	Able to implement the principles of quality management in the professional activity	the basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities	injuries or defects analyze the quality of medical care to dental patients; ensure internal quality control and safety of medical activities; organize work and monitor the performance of official duties of the	carrying out work to ensure internal quality control of medical care for dental patients and the safety of medical activities
4.	PC-1	Able to assess the condition of a patient requiring medical treatment in the emergency form	etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of	medical personnel identify clinical signs of conditions requiring medical treatment in the emergency form	

			laboratory and		
			instrumental research		
			methods for assessing the condition, the		
			main medical		
			indications for		
			conducting research		
			and interpreting the		
			results of patients		
			requiring medical care in the emergency		
			form		
5.	PC-5	Able to collect	the legislation of	collect complaints,	
~		complaints, anamnesis	the Russian	anamnesis of life	
		of the patient's life and	Federation in the	and disease of the	
		illness, conduct a complete physical	field of health care, regulations	patient and analyze the information	
		examination of the	and other	received; conduct a	
		patient (examination,	documents that	complete physical	
		palpation,	determine the	examination of the	
		percussion,	activities of	patient	
		auscultation), formulate a preliminary diagnosis	medical organizations and	(examination, palpation,	
		and draw up a plan for	healthcare	percussion,	
		laboratory and	workers; method	auscultation) and	
		instrumental	of collecting	interpret its results;	
		examinations of the	complaints, anamnesis of life	determine the sequence of	
		patient	and disease of the	volume, content	
			patient; a	and sequence of	
			technique for a	diagnostic	
			complete physical	measures incl.	
			examination of	modern digital	
			the patient (examination,	technologies	
			palpation,		
			percussion,		
			auscultation);		
			etiology, pathogenesis and		
			pathomorphology,		
			clinical aspect,		
			differential		
			diagnosis, clinical		
			features, complications and		
			outcomes of		
			diseases of		
			internal organs;		
			patterns of functioning of a		
			healthy human		
			body and		
			mechanisms for		
			ensuring health		
			from the standpoint of the		
			theory of		
			functional		
			systems; features		
			of the regulation of the functional		
			systems of the		
			human body in		
			pathological		
			processes;		
			methods of laboratory and		
			instrumental		
			examinations for		
			assessing the state		
			of health, medical indications for		
			conducting		
			investigations,		
			rules for		
			interpreting their		
			results		

6.	PC-6	Able to send a	general issues of	justify the need	
v .		patient to laboratory,	organizing medical	and scope of	
		instrumental	care for the	laboratory	
		examination, to a	population, methods	examination of the	
		consultation with specialist doctors if	of laboratory and instrumental	patient; justify the need and scope of	
		there are	examinations to	instrumental	
		medical indications in	assess the state of	examination of the	
		accordance with the	health, medical	patient; justify the	
		current procedures for	indications for	need to refer the	
		the provision of medical	conducting	patient for	
		care, clinical	examinations, rules	consultations with	
		recommendations	for interpreting their	specialist doctors;	
		(treatment protocols) on	results; procedures for the provision of	determine medical indications for the	
		providing medical care taking into account the	medical care, clinical	provision of	
		standards of medical	recommendations	emergency,	
		care, and also refer the	(treatment protocols)	including	
		patient for providing	on the provision of	emergency	
		specialized medical care	medical care,	specialized,	
		in an inpatient setting or	standards of medical	medical care	
		in a day hospital if there	care		
		are medical indications in accordance with the			
		current procedures for			
		the medical care			
		delivery, clinical			
		recommendations			
		(treatment protocols) on			
		the medical care			
		delivery taking into			
		account the standards of			
7	PC- 8	medical care Able to: develop a	modern methods	draw up a	
7.	10-0	treatment plan for a	of using	treatment plan for	
		disease or condition	medicines,	the disease and	
		and prescribe	medical devices	the patient's	
		medicine, medical	and therapeutic	condition taking	
		devices, therapeutic	nutrition in	into account the	
		nutrition and non-	diseases and	diagnosis, the	
		drug treatment taking into account the	conditions of the patient in	patient's age, the clinical picture of	
		diagnosis, age and	accordance with	the disease in	
		clinical picture in	the current	accordance with	
		accordance with	procedures for	the current	
		current procedures	medical care,	procedures for	
		for the medical care	clinical	providing medical	
		delivery, clinical	recommendations	care, clinical	
		recommendations (treatment protocols)	(treatment protocols) on the	recommendations (treatment	
		on the provision of	provision of	protocols) on the	
		medical care taking	medical care	provision of	
		into account the	taking into account	medical care,	
		standards of	the standards of	taking into	
		medical care and to	medical care; the	account the	
		evaluate the effectiveness and	mechanism of action of	standards of medical care;	
		safety of the use of	medicines,	prescribe	
		medicines, medical	medical devices	medications,	
		devices, therapeutic	and therapeutic	medical devices	
		nutrition and other	nutrition, medical	and therapeutic	
		methods of treatment	indications and	nutrition taking	
			contraindications	into account the	
			to their use; complications	diagnosis, age and clinical	
			caused by their	picture of the	
			use; modern	disease in	
			methods of non-	accordance with	
			drug treatment of	the current	
			diseases and	medical care	
			conditions of the	procedures,	
			patient in accordance with	clinical recommendations	
			current medical	(treatment	
			care procedures,	protocols) on the	
			clinical	provision of	
			recommendations	medical care	
			(treatment	taking into	
			protocols) on the	account the	

			provision of medical care taking into account the standards of medical care; action mechanism of non-drug treatment; medical indications and contraindications to its prescription; side effects, complications caused by its use	standards of medical care; prescribe non- drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on issues related to the provision of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition	
8.	PC- 9	Able to provide palliative care in cooperation with specialist doctors and other medical professionals	the procedure for providing palliative care	prescribe medicines, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care; prescribe non- drug treatment taking into account the standards of medical care; prescribe non- drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical picture of the disease in accordance with the current procedures for the provision of medical care taking into account the disease in accordance with the current protocols) on the provision of medical care taking into account the disease for the provision of medical care taking into account the standards of	

medical	care;
evaluate	the
effectiveness	
safety of th	
	cines,
medical de and m	edical
nutrition	edical
9. PC-10 Able to: organize modern methods of prescribe	
personalized using medicines, medicines,	medical
treatment of the medical devices and devices	and
	utrition
pregnant women, elderly and senile in diseases and taking into conditions of the the diagnos	
patients, evaluate patient in accordance and clinical	
the effectiveness and with the current of the disc	-
safety of treatment procedures for accordance	with the
medical care, clinical current pro	
	oviding
(treatment protocols) medical on the provision of clinical	care,
medical care taking recommenda	tions
into account the (treatment	
standards of medical protocols)	on the
care; the mechanism provision	of
of action of medical care	e
medicines, medical into accou devices and standards	nt the of
therapeutic nutrition, medical	care;
medical indications prescribe n	
and contraindications treatment	taking
to their use; into accou	
complications caused diagnosis, a	-
by their use; modern clinical pic methods of non-drug the disease	
treatment of diseases accordance	
and conditions of the current pro	
patient in accordance for the prov	ision of
with current medical medical	care,
care procedures, clinical recommendation	tions
clinical recommendations (treatment	utons
(treatment protocols) protocols)	on the
on the provision of provision	of
medical care taking medical care	-
into account the into accou	
standards of medical standards care; mechanism of medical	of care;
action of non-drug evaluate	the
treatment; medical effectiveness	
indications and safety of the	
contraindications to medicines,	
its prescription; side devices effects, complications medical nutr	and
caused by its use	
10 PC-11 Able to carry out an the procedure for identify signature in the procedure in	gns of
examination of the examination of temporary	, .
temporary disability and work as a part of and signs of of pe	d signs prsistent
a medical and signs of of performance of the signs of the	
commission carrying of the patient; the functions ca	
out an examination rules for registration diseases,	the
of temporary and issue of medical consequence	
disability documents when injuries or do	efects
referring patients for specialized	
medical care,	
sanatorium	
treatment, medical	
and social	
Image: PC - 14 Able to assess the measures for the monitor	the
11 PC - 14 Able to assess the effectiveness and measures for the monitor implementation implementation medical rehabilitation medical r	
safety of medical of the patient, evaluate	the
rehabilitation medical indications effectiveness	
	allu
measures of the and contraindications safety	of
patient in accordance with the implementation measures, in	of

	current procedures for providing medical care, clinical recommendations (treatment protocols) on the providing medical care taking into account the standards of medical care	taking into account the diagnosis in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; medical care; medical indications and contraindications for sanatorium-spa treatment as a stage of medical rehabilitation of the patient; features of medical rehabilitation of elderly and senile patients	when implementing an individual rehabilitation program or habilitation of disabled people taking into account the diagnosis in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care
12 PC - 16	Able to: organize and monitor the immunoprophylaxis of infectious diseases in the adult population, prescribe preventive measures to patients taking into account risk factors in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care and monitor compliance with preventive measures	principles of application of specific and non- specific prevention of infectious diseases, the national calendar of preventive vaccinations and the calendar of preventive vaccinations for epidemic indications; legislation of the Russian Federation in the field of health protection, sanitary rules and regulations; preventive measures taking into account the diagnosis in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) about medical care	organize and carry out immunoprophylaxis of infectious diseases in the adult population in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account standards of medical care; prescribe preventive measures to patients taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases

4. Volume of the academic discipline and types of academic work Total labor intensity of the discipline is 216 CU (6AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semesters	
	volume in	volume in		
	credit units	academic		
	(CU)	hours (AH)	7	8
Classroom work, including				
Lectures (L)	0,7		10	10
Laboratory practicum (LP)*				
Practicals (P)				
Seminars (S)	2,3		34	56
Student's individual work (SIW)				
Mid-term assessment	2		28	42
credit/exam (specify the type)	1	36		36

TOTAL LABOR INTENSITY	6	216	72	144

N⁰	Competence code	Section name of the discipline
1.	GPC-9 PC – 5 PC - 6	Motor system. Motor paralysis
2.	GPC-9 PC - 5 PC - 6	Extrapyramidal system. Parkinsonian syndrome. Dyskinesias. Cerebellar anatomy. Cerebellar disorders symptoms
3.	GPC-9 PC – 5 PC - 6	Sensory system
4.	GPC-9 PC - 5 PC - 6	Cranial nerves
5.	GPC-9 PC - 5 PC - 6	Autonomic nervous system
6.	GPC-9 PC - 5 PC - 6	Higher mental functions. Gnosis, praxis, speech, consciousness
7.	GPC-9 PC – 5 PC - 6	Topical diagnosis of brain and spinal cord injury
8.	GPC-9 PC – 5 PC - 6	Ophthalmoscopy in neurology. Cerebrospinal fluid analysis. Instrumental methods in the diagnostic of neurological disorders.
9.	UC-4 GPC-8 GPC-9 PC $- 1$ PC $- 5$ PC $- 6$ PC $- 8$ PC $- 10$ PC $- 11$ PC $- 14$ PC $- 16$	Ischemic stroke. Hemorrhagic stroke and subarachnoid hemorrhage.
10.	UC-4 GPC-8 GPC-9 PC-1 PC-5 PC-6 PC-8 PC-10 PC-11	Meningitis, encephalitis, brain abscess. Neurological complications of HIV/AIDS

5. Sections of the academic discipline and competencies that are formed

1 1	PC – 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC - 1	
	PC - 5	
11.	PC - 6	Multiple sclerosis.
	PC - 8	Wuttiple seletosis.
	PC - 10	
	PC - 11	
	PC - 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC - 1	
	PC - 5	
12.	PC - 6	Epilepsy. Migraine.
12.	PC - 8	Ephopsy. Wigitino.
	PC - 10	
	PC - 11	
	PC - 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC - 1	
	PC - 5	
13.	PC - 6	Tumors of the brain and spinal cord.
	PC - 8	
	PC - 10	
	PC – 11	
	PC - 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC – 1	
	PC - 5	
14.	PC – 6	Brain and spinal cord injuries.
	PC - 8	
	PC - 10	
	PC - 11	
	PC – 14	
	PC - 16	
]	UC-4	
	GPC-8	
15.	GPC-9	Diseases of the peripheral nervous system.
1.5.	PC – 1	Discuses of the peripheral hervous system.
	PC – 5	
	PC - 6	

1 1		
	PC - 8	
	PC - 10	
	PC - 11	
	PC - 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC – 1	
	PC – 5	
16.	PC – 6	Back pain.
	PC – 8	
	PC - 10	
	PC – 11	
	PC – 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC – 1	
	PC – 5	
17.	PC – 6	Hereditary neuromuscular diseases. Myasthenia gravis.
	PC – 8	
	PC - 10	
	PC – 11	
	PC – 14	
	PC - 16	
	UC-4	
	GPC-8	
	GPC-9	
	PC - 1	
	PC - 5	
18.	PC - 6	Disorders of consciousness. Fainting. Comas
	PC - 8	<i>G</i>
	PC - 10	
	PC - 11	
	PC - 14	
	PC - 16	
L	10 10	