

Summary of the working program of the academic discipline

«NEUROLOGY»

General Educational Program of higher education (specialist's degree programs) 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

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

		carry out work activities		<p>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 and signs of temporary disability of a patient; signs of persistent impairment of body functions caused by diseases, consequences of injuries or defects</p>	<p>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, consequences of injuries or defects</p>	<p>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</p>
3.	GPC-9	Able to implement the principles of quality management in the professional activity		<p>the basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities</p>	<p>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 medical personnel</p>	<p>carrying out work to ensure internal quality control of medical care for dental patients and the safety of medical activities</p>
4.	PC-1	Able to assess the condition of a patient requiring medical treatment in the emergency form		<p>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</p>	<p>identify clinical signs of conditions requiring medical treatment in the emergency form</p>	

				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 complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient		the legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and healthcare workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, 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	collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures incl. modern digital technologies

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

				<p>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</p>	<p>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 taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition</p>
8.	PC- 9	<p>Able to provide palliative care in cooperation with specialist doctors and other medical professionals</p>		<p>the procedure for providing palliative care</p>	<p>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 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 recommendations (treatment protocols) on the provision of medical care taking into account the standards of</p>

					medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and medical nutrition	
9.	PC- 10	Able to: organize personalized treatment of the patient including pregnant women, elderly and senile patients, evaluate the effectiveness and safety of treatment		modern methods of using medicines, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; the mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions of the patient in accordance with current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; mechanism of action of non-drug treatment; medical indications and contraindications to its prescription; side effects, complications caused by its use	prescribe medicines, medical devices and medical 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 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 recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and medical nutrition	
10	PC-11	Able to carry out an examination of temporary disability and work as a part of a medical commission carrying out an examination of temporary disability		the procedure for the examination of temporary disability and signs of temporary disability of the patient; the rules for registration and issue of medical documents when referring patients for specialized medical care, sanatorium treatment, medical and social examination	identify signs of temporary disability and signs of persistent impairment of body functions caused by diseases, the consequences of injuries or defects	
11	PC - 14	Able to assess the effectiveness and safety of medical rehabilitation measures of the patient in accordance with the		measures for the medical rehabilitation of the patient, medical indications and contraindications for their implementation	monitor the implementation and evaluate the effectiveness and safety of rehabilitation measures, including	

		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 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 delivery taking into account the standards of 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 credit units (CU)	volume in academic 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 (<i>specify the type</i>)	1	36		36

TOTAL LABOR INTENSITY	6	216	72	144
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5. Sections of the academic discipline and competencies that are formed

№	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

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

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