№ ЛД-21 ИН

Federal State Budgetary Educational Institution of Higher Education
"NORTH OSSETIAN STATE MEDICAL ACADEMY"
of the Ministry of Health of the Russian Federation

TRAINING PRACTICE PROGRAM
general medical practice (the basics of practical training for the professional activity of a general practitioner for the provision of primary health care)

"CEREBROVASCULAR DISEASES, COGNITIVE DISORDERS, PAIN SYNDROMES, VISIBILITY AND SLEEP DISORDERS IN THE PRACTICE OF A PRIMARY HEALTH LINE DOCTOR"

the main professional educational program of higher education – specialty program in the specialty 31.05.01 General Medicine, approved on May 24, 2023

Form of education: Full-time

The period of development: 6 years

Department of Psychiatry with Neurology, Neurosurgery and Medical Rehabilitation

Vladikavkaz, 2023

When developing the main professional educational program of higher education (MPEP HE) - specialty programs in the specialty 31.05.01 General Medicine are based on:

1) Federal State Educational Standard No. 988 on specialty 31.05.01 General Medicine, approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020

2) Educational plan of the MPEP HE in NOSMA in the specialty 31.05.01 General Medicine (№ ЛД-21):

ЛД-21-01-21-ИН
ЛД-21-02-22-ИН
ЛД-21-03-23-ИН, approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education NOSMA of the Ministry of Health of Russia dated May 24, 2023, protocol No. 8

The work program of the discipline was approved at a meeting of the Department of Psychiatry with Neurology, Neurosurgery and Medical Rehabilitation on May 19, 2023, Protocol No. 9

The work program of the discipline was approved at the meeting of the Central Committee for Medical Education of the Federal State Budgetary Educational Institution of Higher Education of the NOSMA of the Ministry of Health of Russia dated May 23, 2023, protocol No. 5

The work program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education NOSMA of the Ministry of Health of Russia dated May 24, 2023, protocol No. 8

Program developers: Professor d.m.s. I. A. Torchinov 

Reviewers:

Dzugaeva F.K. - Professor, Doctor of Medical Sciences, Chief Neurologist of the Ministry of Health of the Republic of North Ossetia-Alania, Head of the Department of Neurology, Federal State Budgetary Institution "North Caucasian Multidisciplinary Medical Center" of the Ministry of Health of the Russian Federation

Bazaev V.T. - Professor, Doctor of Medical Sciences Head of the Department of Dermatovenereology, Federal State Budgetary Educational Institution of Higher Education, NOSMA, Ministry of Health of Russia

The content of the work program of the discipline

1. Indication of the type of practice, method and form (forms) of its implementation
2. a list of planned learning outcomes during internship, correlated with the planned results of mastering the educational program;
3. indication of the place of practice in the structure of the educational program;
4. an indication of the amount of practice in credit units and its duration in weeks, indicating the number of academic or astronomical hours;
5. practice content
6. indication of reporting forms for practice;
7. 7. Evaluation materials for intermediate certification of students in practice;
8. list of basic and additional educational literature required for internship
9. a list of resources of the information and telecommunication network "Internet" (hereinafter referred to as the "Internet" network), necessary for mastering the practice;
10. methodological instructions for students to master the practice
11. a list of information technologies used in the practice, including a list of software and information reference systems (if necessary);
12. description of the material and technical base necessary for the implementation of the educational process in the discipline.
13. conducting educational activities using e-learning and distance learning technologies

2. The list of planned learning outcomes during internship, correlated with the results of the educational program

No. p/p	Computer number / index tendencies	Content of the competence (or part of it)	Topic of the lesson (section)	Achievement indicators competence	Development results		
					know	be able to	own
1	2	3	4		5	6	7
1.	Uc-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy (systemic and critical thinking	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system 2. Symptoms, clinical presentation of major neurological diseases that may be encountered by a primary care physician 3. Basic and additional methods for the diagnosis of neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia. 4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.	ID-1 UC-1 Be able to identify problem situations and search for the necessary information to solve problems in the professional field	Ways to solve problem situations, the laws of the Russian Federation on the provision of medical care.	Analyze a problem situation as a system, identifying its components and connections between them	Solving a problem situation
2	UC-6	Able to determine and implement the priorities of his own activities and ways to improve it based on self-esteem and education (self-organization and self-development (including health, saving)	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system 2. Symptoms, clinical presentation of major neurological diseases that may be encountered by a primary care physician 3. Basic and additional methods for the diagnosis of neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia. 4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.	ID-2 UC-6 To be able to choose the most effective ways and means of improving one's own professional activity on the basis of self-esteem	personality development, signs of maturity: self-control and self-regulation, critical self-esteem, motivation and value orientations	be able to build a hierarchy of value orientations in accordance with professional activity	self-control, self-regulation, personal planning

3	OPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system 2. Symptoms, clinical presentation of major neurological diseases that may be encountered by a primary care physician 3. Basic and additional methods for the diagnosis of neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia. 4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.	ID-1 OPC-1 Be able to comply with moral and legal standards in professional activities	Moral and ethical norms, rules and principles of professional medical behavior, ethical foundations of a modern doctor and patient. The need to maintain secrecy and confidentiality.	Apply basic legal regulations. Communicate with patients, medical personnel, observing the rules of medical ethics and medical deontology.	Moral and ethical argumentation
4	OPC-4	Able to use medical devices provided for by the procedure for the provision of medical care, as well as conduct examinations of the patient in order to establish a diagnosis	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system 2. Symptoms, clinical presentation of major neurological diseases that may be encountered by a primary care physician 3. Basic and additional methods for the diagnosis of neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia. 4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.	ID-1 OPC-4 Own the algorithm for the clinical examination of the patient ID-2 OPC-4 Be able to draw up a plan for laboratory and instrumental diagnostics	Basic medical devices used in neurology, basic diagnostic research methods, stages of patient examination	Use methods of neurological examination of the patient	Apply methods of neurological examination and interpret the results of laboratory and instrumental research
5	OPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system 2. Symptoms, clinical presentation of major neurological diseases that may be encountered by a primary care physician 3. Basic and additional methods for the diagnosis of	ID-3 OPC-5 To be able to determine the morphofunctional, physiological states and pathological processes of the human body	The main morphofunctional, physiological and pathological conditions and processes v organism human	Apply knowledge about the morphofunctional structure of organs and systems the human body for	Medical and functional conceptual apparatus; methods for assessing morphofunctional, physiological and

			neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia. 4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.		on individual, group and population levels	solving professional problems	pathological states and processes in the human body on an individual, group and population levels for solving professional problems
6	OPC-7	Able to prescribe treatment and monitor its effectiveness and safety	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system 2. Symptoms, clinical presentation of major neurological diseases that may be encountered by a primary care physician 3. Basic and additional methods for the diagnosis of neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia. 4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.	ID-1 OPC-7 Conducts effective safe therapy based on the clinical guidelines of the Russian Ministry of Health.	Methods and methods of treating neurological patients. the mechanism of action of the main groups of drugs. Medical indications and contraindications for their use; complications caused by their use.	Draw up a plan for the examination and treatment of major neurological conditions in the practice of a primary care physician. Draw up indications for treatment, determine doses, routes of drug administration	Drawing up an algorithm for the examination and determination of tactics for managing patients with neurological diseases.

3. Place of discipline in the structure of the educational program

The educational practice "Cerebrovascular diseases, cognitive impairments, pain syndromes, dizziness and sleep disorders in the practice of a primary care physician" refers to the compulsory part of Block 2 of the Federal State Educational Standard of Higher Education in the specialty 31.05.01 "General Medicine"

4. Scope of the discipline

N / a	**Type of work**	**Total credits**	**Total hours**	**Semesters**
				XII
				hours
1	**2**	**3**	**4**	**5**
1	**Contact work of students with teacher (total), including:**		24	24

2	Clinical Practices (CL)		-	24	24
3	**Student independent work (SR)**			12	12
4	**Type of intermediate certification**	credit (C)			
		exam (E)			
5	**TOTAL: General labor intensity**	hours		36	36
		credit units	1		1

5. Content of the discipline

L - lectures; PE - practical exercises; SIW - student's independent work; OQ - oral questioning; TC - test control; ST - situational tasks; WR - written works

No./P	**Semester No.**	**The name of the topic (section) of the discipline**	**Learning activities in hours**				**Forms of monitoring of progress**
			L	**PE**	**SIW**	**Total**	
1	**2**	**3**	**4**	**5**	**6**	**7**	**eight**
1	**XII**	1. Normative legal documentation for the provision of medical care to the population with diseases of the nervous system		**6**	**3**	**nine**	**OQ, TC, ST, WR, supervision of patients**
2	**XII**	2. Symptoms, clinic of major neurological diseases in the practice of a primary care physician.		**6**	**3**	**nine**	**OQ, TC, ST, WR, supervision of patients**
3	**XII**	3. Basic and additional methods for the diagnosis of neurological diseases, in particular cerebrovascular pathology, cognitive impairment, pain syndromes, dizziness, insomnia.		**6**	**3**	**nine**	**OQ, TC, ST, WR, supervision of patients**
4	**XII**	4. Algorithm for the treatment of these neurological conditions, provision of primary health care, tactics of managing patients with concomitant neurological symptoms.		**6**	**3**	**nine**	**OQ, TC, ST, WR, supervision of patients**
Total				**24**	**12**	**36**	

6. The list of educational and methodological support for independent work of students in practice

No./n	**Semester No.**	Name of educational and methodological development
1	**XII**	Methodological development on topical diagnostics for self-training of students in Neurology, neurosurgery
2	**XII**	Methodical development for independent extracurricular work in private

		neurology
3	**XII**	Situational tasks and tests in Neurology, neurosurgery for independent work
4	**XII**	Teaching aid for writing case histories in Neurology

7. Evaluation materials for intermediate certification of students in practice

No./n	List of competencies	Semester	Indicator (s) Evaluations	Evaluation criterion (s)	Grading scale	Evaluation materials
1	**2**	**3**	**4**	**5**	**6**	**7**
1	UC-1 UC-6 OPC-1 OPC -4 OPC -5 OPC -7	XII	See the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education of the SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264 / o	Exam tickets for the exam, test assignments, control tasks

8. The list of basic and additional educational literature necessary for mastering the discipline

№ №	Name	Author(s)	Year, place of publication	Number of copies		Site name
				in library	At the department	Site Link
1	2	3	4	5	6	7
Main literature						

1.	Neurology and neurosurgery : textbook: in 2 vol. Vol.1. Neurology	Gusev E. I.	Moscow : GEOTAR-Media, 2023	5		«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970429013.html
2.	Неврология и нейрохирургия в 2 т.: учебник. Т.2. Нейрохирургия	Гусев Е.И., Коновалов А.Н., Скворцова В.И.	М. : ГЭОТАР-Медиа, 2010, 2015	100		«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970429020.html
3.	Топическая диагностика заболеваний нервной системы: руководство для врачей	Скоромец А.А., Скоромец Т. А.	СПб. : Политехника, 2002, 2007, 2012	3 1		«Консультант студента» http://www.studmedlib.ru/book/ISBN9785732510096.html
4.	Топическая диагностика заболеваний нервной системы : краткое руководство	Триумфов А. В.	М. : МЕДпресс-информ, 2000, 2009, 2015	85 4 50		
5.	Детская неврология : учебник в 2 т. Т.1	Петрухин А. С.	М. : ГЭОТАР-Медиа, 2012	45		
6.	Детская неврология : учебник в 2 т. Т.2	Петрухин А. С.	М. : ГЭОТАР-Медиа, 2012	45		
7.	Руководство по детской неврологии	ред. В.И. Гузеева	СПб. : Фолиант, 2004	30		
additional literature						
1.	Неврология: национальное	ред. Е. И. Гусев	М. : ГЭОТАР-	2		

	руководство		Медиа, 2010			
2.	Неврология и нейрохирургия. Клинические рекомендации	ред. Е. И. Гусев	М. : ГЭОТАР-Медиа, 2007	16		
3.	Неврология: руководство для врачей	Карлов В.А.	М. : МИА, 1999	2		
4.	Неврологические симптомы, синдромы и болезни: энциклопедический справочник	Гусев Е.И., Никифоров А.С	М. : ГЭОТАР-Медиа, 2006	3		
5.	Немедикаментозные методы лечения и образ жизни при рассеянном склерозе	Бойко А.Н. Гусева М.Е. Сиверцева С. А.	М. : ГЭОТАР-Медиа, 2015	3		
6.	Церебральный инсульт: нейровизуализация в диагностике и оценке эффективности различных методов лечения. Атлас исследований	Новикова Л.Б., Сайфуллина Э.И., Скоромец А.А.	М. : ГЭОТАР-Медиа, 2012			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970421871.html
7.	Рассеянный склероз	Т. Е. Шмидт, Н. Н. Яхно	М. : Медицина, 2003, 2016	2		
8.	Нейрореаниматология : практическое руководство	В. В. Крылов и др.	М. : ГЭОТАР-Медиа, 2016	1		
9.	Нейрореанимация. Практическое руководство	Крылов В.В., Петриков С.С.	М. : ГЭОТАР-Медиа, 2010			«Консультант студента» http://www.studmedlib.ru/book/ISBN97

						85970416655.html
10.	Сосудистый паркинсонизм	Левин О.С.	М. : МЕДпресс-информ, 2015	1		
11.	Общая неврология : учеб. пособие	Никифоров А. С., Гусев Е. И.	М. : ГЭОТАР-Медиа, 2007, 2013	7		«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970426616.html
12.	Частная неврология : учеб. пособие	Никифоров А. С., Гусев Е. И.	М. : ГЭОТАР-Медиа, 2007	7		
13.	Нервные болезни : учеб. пособие	Скоромец А.А., Скоромец А.П., Скоромец Т.А.	М. : МЕДпресс-информ, 2010	3		
14.	Магнитно-резонансная томография: руководство для врачей	ред. Г. Е. Труфанов	СПб. : Фолиант, 2007	1		
15.	Жизнь после инсульта : руководство для врачей	ред. В. И. Скворцова	М. : ГЭОТАР-Медиа, 2008	1		
16.	Практическая неврология : руководство для врачей	ред. А. С. Кадыков	М. : ГЭОТАР-Медиа, 2011	1		«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970417119.html
17.	Неврологические осложнения остеохондроза	Никифоров А.С., Авакян Г.Н.,	М. : ГЭОТАР-Медиа, 2015			«Консультант студента» http://www.studmedlib.ru/

	позвоночника	Мендель О.И.				book/ISBN9785970433331.html
18.	Боковой амиотрофический склероз	ред. И.А. Завалишин	М. : ГЭОТАР-Медиа, 2009			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970412572.html
19.	Рациональная фармакотерапия в неврологии	ред. Е. И. Гусев	М. : Литтерра, 2014			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785423501150.html
20.	Реабилитация в неврологии	Епифанов В.А., Епифанов А.В.	М. : ГЭОТАР-Медиа, 2015	1		«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970434420.html
21.	Миастения и миастенические синдромы	Санадзе А.Г.	М. : Литтерра, 2012			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785423500542.html
22.	Эпилепсия и ее лечение	Гусев Е.И., Авакян Г.Н., Никифоров А.С.	М. : ГЭОТАР-Медиа, 2014			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970431276.html
23.	Туннельные компрессионно-ишемические моно- и	А. А. Скоромец и др.	М. : ГЭОТАР-Медиа,			«Консультант студента» http://www.st

	мультиневропатии		2013			udmedlib.ru/book/ISBN9785970423660.html
24.	Руководство к практическим занятиям по топической диагностике заболеваний нервной системы: учеб.-метод. пособие	ред. В.И. Скворцова	М. : Литтерра, 2012			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785423500948.html
25.	Хронические нейроинфекции	ред. И.А. Завалишин	М. : ГЭОТАР-Медиа, 2011			«Консультант студента» http://www.studmedlib.ru/book/ISBN9785970418987.html
26.	Учебно-методическое пособие по написанию учебной истории болезни по курсу неврологии и нейрохирургии		Владикавказ, 2008	28		
27.	Ситуационные задачи и тесты по пропедевтике нервных болезней	Ф.К. Дзугаева и др.	Владикавказ, 2010	18		

9. The list of resources of the information and telecommunication network "Internet" necessary for the development of practice

1. http://www.elibrary.ru - scientific electronic library, search is carried out by the thematic section, the name of the journal, the author. Contains a catalog of Russian-language and foreign publications.

2. http://www.studmedlib.ru - electronic library of the medical university "Student's Consultant".

3. ru.wikipedia.org - search for articles of the free universal encyclopedia written in Russian. Selected articles, interesting facts, the current day in history, links to thematic portals and related projects.

4. https: //pubmed.ncbi.nlm.nih.gov- English-language text database of medical and biological publications, created by the National Center for Biotechnology Information (NCBI). You can get

acquainted with the latest scientific works of famous authors, find new useful information for self-development, not only in the neurological direction, but also in other specialties.

5. Cyberleninka.ru - Scientific articles, new information, monographs on all topics, useful data for students.

10. Methodical instructions for students on mastering the discipline

The training program of educational practice consists of practical exercises, and independent work. When studying practice - use the main and additional literature and master practical skills.

Independent work of students implies preparation for practical classes and includes the study of basic and additional literature, the implementation of assignments for extracurricular independent work, writing essays, drawing up monothematic folders, tables.

Work with educational literature is considered as a type of educational work and is carried out within the hours allotted for its study (in the CDS section). Each student is provided with access to the library funds of the Academy and departments. For each section of the discipline, guidelines for students and guidelines for teachers have been developed. During the study of the discipline, students independently conduct an examination of the patient and draw up medical documentation and submit an essay on the topic, which contributes to the formation of clinical thinking and practical skills (abilities).

The student's work in a group forms a sense of collectivism and sociability. Teaching students helps them develop the skills of communicating with the patient, taking into account the ethical and deontological characteristics of pathology and patients. Independent work with patients contributes to the formation of professional behavior, accuracy, and discipline.

The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral questioning during classes, during clinical analyzes, when solving typical situational tasks. In the process of studying the discipline, intermediate control of knowledge is carried out using test control, testing of practical skills, solving situational problems, interviews on questions.

11. The list of information technologies used in the implementation of the educational process in the discipline

Semester	Type of occupation L, Pr, Wed	Educational technologies used (active, interactive)	% classes in interactive form	Scroll software
XII	Practical lesson	A set of questions and tasks for a practical lesson, a set of situational tasks, a set of case histories for the analysis of clinical cases. Videos of operations.	5% -10%	Microsoft Office, Power Point; Windows Media Player, Acrobat Reader; Internet Explorer
XII	Independent work	Online resources, questions and assignments for self-study	-	Microsoft Office, Internet Explorer Mozilla Firefox

12. Description of the material and technical base required for the implementation of the educational process in the discipline

No. / NS	equipment identification	Quantity	Technical condition
1	**2**	**3**	**4**
Special equipment			
1.	Thematic set of illustrations for sections of the discipline	1 copy	satisfactory
2.	Sets of multimedia visual materials for various sections subject	1 set	satisfactory
3.	Posters, slides	13	Satisfactory
4.	Audio lectures	1 disc	Satisfactory
Dummies			
5.	Cervical and lumbosacral spine	3	satisfactory
6.	Brain and nerves of the extremities	2	satisfactory
7.	A computer	1	Satisfactory
8.	a printer	1	Satisfactory

13. **Conducting educational activities using e-learning and distance learning technologies**
In the context of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow full-time training, it is possible to study this discipline or part of it using e-learning and distance educational technologies. Teaching the discipline in the above situations will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various tasks. When conducting training sessions, monitoring progress, as well as intermediate certification of students, platforms of the electronic information and educational environment of the academy and / or other e-learning systems recommended for use in the academy, such as Moodle, Zoom, Webinar and others, can be used. Lectures can be presented in the form of audio, video files, "live lectures". Conducting seminars and practical classes is possible in on-line mode both in synchronous and asynchronous modes. Seminars can be held in the form of web conferences.