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Информация о владельце:
ФИО: Стегний Кирилл Владимирович
Должность: И.о. ректора
Дата подписания: 21.07.2026 17:40:24
Уникальный программный ключ:
d59234ba928aea5c04c54eb9013e367220b6b2ae

Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector
_____ / Trankovskaya L.V./
"9" июня 2025

DISCIPLINE WORK PROGRAM

Б1.О.22 Neurology

(name of discipline)

Specialty	**31.05.03 Dentistry for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing health care in patients with dental pathology)
Mode of study	Full-time
Period of mastering the BEP	**5 years** (nominal length of study)
Institute	of Clinical Neurology and Medical Rehabilitation

Vladivostok, 2025

Program of the discipline **Б1.О.22 Neurology** is based on:
1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 984 of Ministry of Science and Higher Education of the Russian Federation
dated August 12, 2020.

2) Curriculum for the 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology),
approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia
Report No. 8/24-25 dated March 31, 2025.

Work program for the discipline was developed by the writing team of the Institute of Clinical Neurology and Medical Rehabilitation of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the institute, Candidate of Medical Sciences Shestopalov E.Yu.

Developed by:

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1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.22 Neurology

The purpose of mastering the discipline is to develop competencies that provide theoretical and fundamental knowledge of the basics and patterns of the normal and pathological functioning of the nervous system; master of skills and abilities required to solve professional problems necessary for a dentist.

Objectives of mastering the discipline:

1. Developing the skill of basic clinical and neurological examination and description of the neurological status of the patient;
2. Learning to identify neurological syndromes and make a tentative topical diagnosis according to the results of clinical and neurological examination;
3. Studying basics of epidemiology, social significance, etiology, pathogenesis, clinical picture and diagnosis of the main and most common diseases of the nervous system, including medical emergencies, necessary for making a preliminary diagnosis, determining the plan of further examination and differential diagnosis;
4. Learning to formulate a clinical diagnosis taking into account the current International Statistical Classification of Diseases and Health-Related Problems (ICD);
5. Learning to choose the tactics of patient management, determine the indications for emergency hospitalization, prescribe basic treatment, including in collaboration with specialist doctors, plan and conduct rehabilitation measures for the most common diseases and emergency conditions associated with damage to the nervous system, in accordance with the current procedures of providing medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of providing medical care;
6. Developing the ability to identify risk factors, conduct primary and secondary prevention of the most common diseases of the nervous system and their complications.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.22 Neurology** is included in the Mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), and is part of the 7th semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.22 Neurology** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

Name of competency category (group)	**Code and Name of competency of the graduate**	**Competency Indicators**
General Professional Competencies		
Diagnosis and treatment of diseases	GPC-5. Is able to perform a patient examination in order to make a diagnosis when working to achieve objectives of professional activity	CI.GPC-5_1- performs medical examination of a patient using basic and general clinical skills, laboratory tests and diagnostic procedures CI.GPC-5_2- preemptively assesses the somatic state of all organs and systems in order to determine presence or absence of contraindications for complex and reconstructive dental procedures CI.GPC-5_3- evaluates medical examination results in order to make a diagnosis

	GPC-6. Is able to prescribe, monitor the efficacy and safety of non-pharmacological and pharmacological treatment when working to achieve objectives of professional activity	CI.GPC-6_1- prescribes pharmacological treatment, selects dosage of medications and treatment regimens, as well as non-pharmacological procedures in accordance with existing guidelines with no outside help CI.GPC-6_2- monitors the efficacy of treatment, adjusts the treatment regimen if necessary; uses medications in different pharmaceutical form taking into account aspects of dental treatment CI.GPC-6_3- considers contraindications when prescribing treatment and identifies adverse drug reaction

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.22 Neurology**:

Types of professional activity objectives

1. *Medical*

Kinds of professional activity objectives

1. *Examination of the patient in order to make a diagnosis*
2. *Prescribing pharmacological and non-pharmacological treatment and monitoring its efficiency and safety*

3.3. Planned learning outcomes of mastering the discipline are represented by knowledge, skills, abilities and/or experience, characterize the stages of developing competencies and ensure achievement of the planned outcomes of mastering the basic educational program. Learning outcomes of a discipline are correlated with competency indicators.

4. SCOPE AND CONTENT OF THE DISCIPLINE

4.1. Scope of the Discipline and Types of Academic Work

Type of Academic Work		**Total Hours**	**Semesters**
			7
			hours
1		2	3
Classroom hours (total), including:		**48**	**48**
Lectures (L)		12	12
Practical classes (C)		36	36
Independent work of the student (IW), including:		**24**	**24**
Preparing for classes (CP)		14	14
Preparing for continuous assessment (CAP)		6	6
Preparation for interim assessment (IAP)		4	4
Interim assessment			
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	**72**	**72**
	credits	**2**	**2**

4.2. Contents of the Discipline

4.2.1. Topics of Discipline Lectures and Academic Hours per Semester

No.	Lecture Topic	Hours
1	2	3
	Semester No. 7	
1.	Sensation, movement, reflexes, and their impairment	2
2.	Symptoms and syndromes of brainstem and cranial nerve damage	2
3.	Spinal cord, peripheral nervous system, and their impairment. Cerebellum, extrapyramidal system. Topical diagnostics and clinical manifestation	2
4.	Cerebral cortex and autonomic nervous system. Symptoms of their impairment. Non-penetrating TBI (closed head injury): clinical manifestation, diagnosis, treatment, preventive measures	2
5.	Cerebrovascular diseases: clinical manifestations, diagnostics, treatment, prevention. Infectious and parasitic diseases of the nervous system, neurodegenerative diseases	2
6.	Injuries and diseases of the peripheral nervous system: clinical manifestation, diagnosis, treatment, prevention. Neurological diseases associated with diseases of internal organs	2
	Hours per semester total	**12**

4.2.2. Topics of Discipline Practical Classes and Academic Hours per Semester

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 7	
1	Principles of structure and function of the nervous system. Nervous system examination methods. Principles of topical diagnosis in neurology. Sensation and sensory impairment. Voluntary movements and movement disorders. Symptoms of cortical-muscular pathway damage at different levels	6
2	Cerebellum, movement coordination and coordination disorders; extrapyramidal system, symptoms of its impairment. Symptoms and syndromes of brainstem and cranial nerve damage. Higher nervous function and its disorders: aphasia, apraxia, agnosia, amnesia, dementia. Syndromes of damage to individual lobes and hemispheres of the brain	6
3	Symptoms and syndromes of spinal cord and spinal roots damage. Autonomic nervous system and autonomic disorders	6
4	Injuries and diseases of the peripheral nervous system: clinical manifestation, diagnosis, treatment, prevention. Non-penetrating TBI (closed head injury): clinical manifestation, diagnosis, treatment, preventive measures	6
5	Demyelinating diseases. Diseases of the peripheral nervous system. Hereditary neuromuscular diseases. Infectious and parasitic diseases of the nervous system, neurodegenerative diseases	6
6	Cerebrovascular diseases: clinical manifestations, diagnostics, treatment, prevention. Cerebral vascular accidents. Chronic cerebral circulation insufficiency. Infectious diseases of the nervous system: encephalitis, myelitis. Acute poliomyelitis. Infectious diseases of the nervous system: meningitis	6
	Hours per semester total	**36**

4.2.3. Independent Work of the Student

No.	Name of the Discipline Section	Type of IW	Total Hours
1	3	4	5
	Semester No. 7		
1	General neurology, topical diagnostics	Preparing for practical classes, preparing for tests, preparing for continuous assessment	12
2	Specialty neurology	Preparing for practical classes, preparing for tests, preparing for continuous assessment, preparing for interim assessment (pass/fail test)	12
	Hours per semester total		**24**

5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

5.1. Discipline Requirements for Educational Materials and Provided Information

Essential reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Private neurology: study guide = Частная неврология : учеб. пособие [Электронный ресурс]	С. М. Карпов, И. А. Вышлова	М.:ГЭОТАР-Медиа, 2025. – 712 с. - ЭБС «Консультант студента» URL: http://www.studentlibrary.ru	Unlimited access
2	Topical diagnosis of diseases of the nervous system = Топическая диагностика заболеваний нервной системы : учебник на английском и русском языках [Электронный ресурс]	С. М. Карпов, И. Н. Долгова	. - М. : ГЭОТАР-Медиа, 2018. - 896 с. - ЭБС «Консультант студента» URL: http://www.studentlibrary.ru	Unlimited access

Supplementary reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Neurology and neurosurgery. Vol. 1. Neurology : textbook : in 2 vol. [Электронный ресурс]	E.I. Gusev, A.N. Konovalov, V.I. Skvortsova	- М. : ГЭОТАР-Медиа, 2023. - 560 с. - ЭБС «Консультант студента» URL: http://www.studentlibrary.ru/	Unlimited access

2	Neurology and neurosurgery. Vol. 2. Neurosurgery : textbook : in 2 vol. [Электронный ресурс]	ed. by A. N. Konovalov, A. V. Kozlov	- M. : ГЭОТАР-Медиа, 2023. - 320 с. - ЭБС «Консультант студента». http://www.studentlibrary.ru	Unlimited access

Online resources

1. Electronic library system "Student Consultant" http://studmedlib.ru/
2. Electronic library system "University Library Online"http://www.biblioclub.ru/
3. Electronic library system "Urait" https://urait.ru/
4. Electronic library system "BookUp" https://www.books-up.ru/
5. Resources owned by the Library and Information Center of FSBEI HE PSMU of the Ministry of Health of Russia https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/

Online resources and respective user guides are available on the Library and Information Center website Library and Information Center — PSMU (tgmu.ru)

5.2. Discipline Requirements for Facilities and Resources

Information on the facility and resource availability and requirements of the discipline is available on the Facility and resource availability and requirements. FSBEI HE PSMU of the Ministry of Health of Russia (tgmu.ru)" page of the official website of the university.

5.3. List of Information Technologies, Information and Reference Systems, Licensed and Free Software (Including Domestically-developed Software):

1. PolycomTelepresence M100 Desktop Conferencing Application (Videoconference system)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. INDIGO online testing system
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C:University
10. GARANT system
11. MOODLE (Modular Object-Oriented Dynamic Learning Environment)

6. ASPECTS OF THE IMPLEMENTATION OF THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

6.1. Availability of Accessible Environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant; buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

6.2. Ensuring Compliance with General Requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

6.3. Availability of the Internal Policies and Procedures of FSBEI HE PSMU of the Ministry of Health of Russia to Students with Disabilities in a Format Accessible to Them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a format accessible to them.

6.4. Increase in the Time Limit of Interim Assessment for Students with Disabilities and Special Needs in Relation to the Established duration

Format of the interim assessment of academic performance within the scope of the discipline conducted for students with disabilities and special needs is selected taking into account individual characteristics of the students (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours.

7. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the 31.05.03 Dentistry for international students (in English) specialty; list of the aforementioned personnel is available on the website of the educational organization.



8. TUTORIAL WORK

Type of tutorial work	Forms and approaches to tutorial work	Assessment criteria
Assistance in personal growth	Overt Participation in Student Research Society: 1. Student Research Society workplan 2. Student research activity plan 3. Participation in events aimed at promoting healthy lifestyle 4. Talks and problem-centric debates on ethics and deontology 5. Participation in academic workshops	Portfolio
	Covert – creating atmosphere and infrastructure. Developing a culture of healthy lifestyle, the ability to preserve and improve health.	

	Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline.	
Civic position and values	Overt Short discussions on current significant events in case the latter occur.	Portfolio
	Covert Cultivating mindful social position during professional activity.	
Social values	Overt Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies.	Portfolio
	Covert Identification in social structure and professional community during period of education and in professional activity.	