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

APPROVED BY

Director of the Institute
of Clinical Neurology and Medical
Rehabilitation
_____ / Shestopalov E.Yu./
"14th" of April 2025

SUBJECT GUIDE FOR TEACHERS AND STUDENTS FOR

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

Subject guide for teachers and students for **Б1.О.22 Neurology** is based on:

1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 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.

Subject guide for teachers and students for **Б1.О.22 Neurology** 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.

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1. GENERAL PROVISIONS

Subject guide for **Б1.О.22 Neurology** is a set of recommendations and explanations that facilitate to optimal organization of mastering this discipline.

Regular analysis of lecture materials and work with end-of-the-text questions are necessary for better understanding of the material and systematization of knowledge of **Б1.О.22 Neurology**. Particular attention should be paid to emerging questions, confusing terms, and conflicts of points of view during the independent review of the lecture material. If necessary, a student should contact the teacher for advice. Lecture material streamlines students' thinking, while practical classes provide deeper insight into the material of the discipline.

Special attention should be paid to the content of the main provisions and conclusions, explanation of phenomena and facts, and clarification of the practical application of theoretic aspects of topic when preparing for a practical class. During this process students should aim to understand and remember the main provisions of the material under consideration, examples provided, as well as understand the illustrative material.

Collections of assessment tools are used to organize independent study of topics of **Б1.О.22 Neurology.**

Independent work of students is facilitated by the following:

1.availability and accessibility of the necessary educational and reference material;

2. a system of regular quality control of completed independent work;

3. availability of teacher's advice.

Subject guides for self-study are presented as literary sources. Subject guides for independent work of students include a list of library resources of the educational institution and other materials accessible to students.

Independent work is a type of in-person extracurricular work of teachers and students of **Б1.О.22 Neurology**. Control of independent work is conducted by the leading teacher. Evaluation of independent work results is taken into account when conducting interim examination of students throughout **Б1.О.22 Neurology** course.

Continuous assessment during **Б1.О.22 Neurology** course is implemented in order to check indicators of achieving competencies, to stimulate students' academic work, and improve methods of mastering new knowledge. Continuous assessment during **Б1.О.22 Neurology** course is conducted during the semester to assess all types and sections of the academic discipline that encompass the competencies developed by the discipline: classroom questioning, working with tests, preparing reports. Continuous assessment of students' knowledge and results of their preparation for practical classes is conducted during every class session.

Interim assessment aims to determine the level of mastery of competency indicators. It is conducted in the pass/fail test format after the student has mastered all sections of **Б1.О.22 Neurology** and takes into account learning outcomes for all types of student work over the entire period of mastering **Б1.О.22 Neurology** course.

Time allotted for interim assessment is indicated in the schedule.

Assignments given during practical classes, as well as assignments aimed to prepare students for continuous and interim assessment, are included in the collection of assessment tools for **Б1.О.22 Neurology**. If necessary, students should contact the teacher for advice. It is necessary to thoroughly think over questions that need clarification before seeking teacher's advice.

2. SUBJECT GUIDES FOR LECTURE CLASSES

Table 1. Subject Guides for **Б1.О.22 Neurology** Lectures

Topic No.1 Sensation, movement, reflexes, and their impairment	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about the basic anatomy of the central neural system; types of sensitivity and associated neural pathways; signs of impaired sensitivity; anatomy of the neural pathways of surface and deep sensitivity; meningeal symptoms; classification of reflexes and their changes; neural pathways of movement; signs of impaired cortical-muscular neural pathway, clinical symptoms; clinical signs of central paralysis; clinical signs of peripheral paralysis; 2. define reflex, reflex arch, analyzator (sensory system), movement, paralysis, paresis; 3. analyze examine methods of assessing sensitivity, including in children; topical diagnostics of impaired sensitivity; methods of detecting meningeal symptoms; methods of examining head reflexes; clinical diagnostics of paralysis, paresis; topical diagnostics of movement disorders.	
Lecture plan, order of presentation of its sections: - CNS anatomy overview - Receptors; types of receptors. Sensation, types of sensation. Sensory neural pathways. Sensation assessment. Sensory impairment, topical diagnostics of sensory impairment - Pain, definition. Main types of pain. roles of the nociceptive and antinociceptive systems in the pain mechanism - Pathophysiological mechanisms behind pain	
Recommended reading: Essential reading: 1. Private neurology: study guide = Specialized Neurology: Educational Manual. S. M. Karpov, I.A. Vyshlova M.: GEOTAR-Media, 2025. Electronic Library System (ELS) «Student Consultant» URL: http://www.studentlibrary.ru/ 2. Topical diagnosis of diseases of the nervous system = Topical Diagnosis of Nervous System Diseases: a textbook in English and Russian languages. S. M. Karpov, I. N. Dolgova. - M. : GEOTAR-Media, 2018. Electronic Library System (ELS) «Student Consultant» URL: http://www.studentlibrary.ru/ Supplementary reading: 1. Neurology and neurosurgery. Vol. 1. Neurology : textbook : in 2 vol. E.I. Gusev, A.N. Konovalov, V.I. Skvortsova - M. : GEOTAR-Media, 2023. Electronic Library System (ELS) «Student Consultant» URL: http://www.studentlibrary.ru/	

3. SUBJECT GUIDES FOR PRACTICAL CLASSES

Table 2. Subject Guides for Practical **Б1.О.22 Neurology** Classes

Topic No.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	
Duration of the practical class (in academic hours):	6

Purpose of the practical class: 1. consolidate acquired knowledge on the anatomy of blood circulation in the brain, classification of cerebrovascular diseases, etiology of cerebrovascular diseases; etiopathogenesis, clinical manifestation, treatment, and prevention of cerebrovascular diseases; infectious diseases of the nervous system (encephalitis, myelitis. acute poliomyelitis, meningitis); 2. during the discussion, outline the main aspects of detecting and identifying central and peripheral paralysis and paresis, sensory impairments; diagnosing ataxia; conducting preventive measures against cerebral vascular accidents, tick-borne encephalitis, and Lyme disease in the population; 3. thoroughly go over definitions and concepts of nervous system examination methods; neurological syndrome and topical diagnosis; additional examinations plan for a patient with a neurological disease; principles of assessing the severity of the condition of a patient in the acute period of a cerebral vascular accident; transient ischemic attack diagnostic criteria; patient treatment plan; 4. study patterns of diagnostic measures during the acute period of a cerebral vascular accident; determining the status of a patient with a cerebrovascular disease or an infectious disease of the nervous system; 5. develop knowledge and skills corresponding to GPC-5 (Is able to assess morphofunctional status, physiological states, and pathological processes in the human body when working to achieve objectives of professional activity) and 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).
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, subject guides for the discipline.
Independent work of the student: writing a medical record, creating a structure diagram of the disease(s), preparing slides presentations, and working with study materials.
Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.
Recommended reading: Essential reading: 1. Private neurology: study guide = Specialized Neurology: Educational Manual. S. M. Karpov, I.A. Vyshlova M.: GEOTAR-Media, 2025. Electronic Library System (ELS) «Student Consultant» URL: http://www.studentlibrary.ru/ 2. Topical diagnosis of diseases of the nervous system = Topical Diagnosis of Nervous System Diseases: a textbook in English and Russian languages. S. M. Karpov, I. N. Dolgova. - M. : GEOTAR-Media, 2018. Electronic Library System (ELS) «Student Consultant» URL: http://www.studentlibrary.ru/ Supplementary reading: 1. Neurology and neurosurgery. Vol. 1. Neurology : textbook : in 2 vol. E.I. Gusev, A.N. Konovalov, V.I. Skvortsova - M. : GEOTAR-Media, 2023. Electronic Library System (ELS) «Student Consultant» URL: http://www.studentlibrary.ru/

4. GUIDELINES FOR CONTINOUS AND INTERIM ASSESSMENT

Table 3. Guidelines for Conducting Continuous and Interim Assessment during **Б1.О.22 Neurology** Course

Type of assessment	Assessment format

Continuous assessment	- conducting and evaluating oral or written quizzes during lectures and practical classes; - assessment and evaluation of completion and results of assignments given during practical classes; - assess and evaluate completion and results of individual assignments and exam tasks given during practical classes; - assessment and evaluation of lecture notes quality.
Interim certification	is conducted in written/oral pass/fail test format; it allows to assess the development of students' competencies correlating with types of professional activity.

5 ASPECTS OF THE IMPLEMENTATION OF THE COURSE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

5.1. 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.

5.2. 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.

5.3. Availability of the internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia to students with disabilities in a form 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 form accessible to them.

5.4. Increase in the duration of interim assessment of 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 for students with disabilities and special needs is selected taking into account individual characteristics (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

6. 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.

