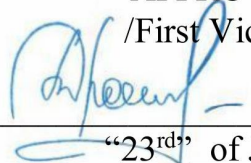


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Federal State Budget Educational Institution
of Higher Education
"Pacific State Medical University"
Ministry of Health of the Russian Federation

APPROVED BY

/First Vice-Rector

 / Dvoynikova E.R./
"23rd" of June 2026

WORK PROGRAM OF THE DISCIPLINE

B1.C.15 Pathological Anatomy — Head and Neck Pathology

	(discipline (module) name)
Specialty	31.05.03 Dentistry (for international students,)
Level of training	specialty
Training focus	02 Healthcare (providing medical care for dental diseases)
Form of education	full-time
Period to completion BEP	5 years (standard period of study)
Institute/Department	Department of Pathological Anatomy and Forensic Medicine

Vladivostok 2026

During development of the work program of the discipline B1.C.15 Pathological Anatomy — Head and Neck Pathology, the following foundational documents were used:

1) Federal State Educational Standards of Higher Education (FSES HE) for specialty 31.05.03 Dentistry, approved by the Ministry of Higher Education and Science of the Russian Federation on August 12, 2020, No. 984

2) Curriculum for the 31.05.03 Dentistry for foreign students (English-language program), 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. 1-7/25-26 dated March 27, 2026.

The work program of the discipline was developed by the author team of the Department of Pathological Anatomy and Forensic Medicine at FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of acting head of the department, PhD Kotsyurbiy Evgeny Anatolyevich.

Developers:

<u>Associate Professor</u> (position)	<u>PhD, Associate Professor</u> (academic degree and academic title)	<u>Oleksenko Olesya Mikhaylovna</u> (full name)
<u>Assistant department of Department of Pathological Anatomy and Forensic Medicine</u> (position)	<u>Assistant department of Department of Pathological Anatomy and Forensic Medicine</u> (academic degree and academic title)	<u>Norzhilova Erzhena Erdemovna</u> (full name)

1. GENERAL PROVISIONS

1.1. Purpose and objectives of mastering the discipline B1.C.15 Pathological Anatomy — Head and Neck Pathology

The purpose of mastering this discipline is to develop students' systematic knowledge about the causes and conditions of occurrence, mechanisms of development, morphological manifestations, complications, and outcomes of pathological processes and diseases. This knowledge is essential for performing professional duties of a dentist, particularly regarding the medical aspects of their activity

Objectives of mastering discipline B1.C.15 Pathological Anatomy — Head and Neck Pathology:

1. To acquire students' knowledge about cell pathology and pathological processes, which determine the morphological manifestations of various diseases;
2. To acquire knowledge about the etiology, pathogenesis, and morphology of diseases at different stages of their development (morphogenesis of diseases), structural basis of recovery, complications, outcomes, and long-term consequences;
3. To master students' understanding of the morphology and mechanisms of adaptation and compensation processes in the organism in response to pathogenic factors and changing environmental conditions;
4. To familiarize students with methodological foundations of morphological analysis of biopsy and surgical material;
5. To teach students the most important methods of pathological anatomy (autopsy, biopsy, working with a microscope), enabling them to achieve the set objectives;
6. To develop students' ability to identify pathological changes in organs and tissues at both microscopic and macroscopic levels.

2. PLACE OF THE DISCIPLINE (MODULE) IN THE STRUCTURE OF THE BASIC EDUCATION PROGRAM

Discipline B1.C.15 Pathological Anatomy — Head and Neck Pathology belongs to the foundational part of the main educational program 31.05.03 Dentistry and is studied in semesters 3 and 4.

3. EXPECTED LEARNING OUTCOMES FOR THE DISCIPLINE (MODULE)

3.1. Mastering discipline B1.C.15 Pathological Anatomy — Head and Neck Pathology aimed to develop students' competencies. The discipline ensures the formation of competencies depending on the types of tasks in the professional field.

Code of competency	Formulation of Competency	Indicators for Achieving Competency
General Professional Competencies		
GPC-9	Able to assess morpho-functional, physiological states, and pathological processes in the body	IAC.GPC-91- evaluates the morphofunctional state of organs IAC.GPC-92- differentiates between pathological and physiological processes; determines etiology of changes IAC.GPC-93- provides diagnostic assessment of identified changes

3.2. Types of professional activities based on the competencies developed during the implementation of discipline B1.C.15 "Pathological Anatomy — Head and Neck Pathology":

Type of tasks of professional activity:

1. Medical

Type of forms of professional activity

1. Diagnostic

3.3. The expected learning outcomes for the discipline are expressed in knowledge, skills, abilities, and/or activity experience, characterizing the stages of competency formation and ensuring the achievement of the expected results of mastering the basic educational program. The learning outcomes are correlated with indicators for achievement competency.

4. DURATION AND CONTENT OF THE DISCIPLINE (MODULE)

4.1. Duration of the discipline and types of educational work

Type of educational work		Total hours	Semesters	
			4	5
			hours	hours
1		2	3	4
Classroom sessions (total), including:				
Lectures (L)		36	20	14
Practical classes (PC)		126	52	36
Electronic educational resource (EER): including prerecorded video lectures		-	-	-
Self-studying (SS), including:		90	54	36
<i>Electronic educational resource (EER)</i>				
<i>Preparation for classes (PC)</i>		66	42	24
<i>Preparation for current assessment (PCA)</i>		12	12	
<i>Preparation for intermediate assessment (PIA)</i>		12		12
Intermediate assessment		36		36
Type of intermediate assessment	credit test (CT)			
	exam (E)			E
TOTAL: Overall workload	hour	288	144	144
	Credit units	8	4	4

4.2. Content of the discipline

4.2.1. Thematic plan of lectures and the number of hours per semester for studying the discipline

№	Thematic plan of lectures	Hours
1	2	3
4 semester		
1.	Introduction to pathological anatomy. History of pathological anatomy. Injury and death of cells and tissues. Thanatology.	2
2.	Metabolic disorders in cells and tissues (dystrophies).	2
3.	Morphological aspects of blood circulation pathology.	2
4.	Inflammation, general features. Morphology of exudative inflammation.	2
5.	Morphology of proliferative inflammation. Granulomatous diseases.	2
6.	Diseases of the Immune System.	2
7.	Regeneration and adaptation processes.	2

8.	Tumors, general features. Morphology of mesenchymal tissues tumors.	2
9.	Morphology of tumors of epithelial, nervous and melaniferous tissues.	2
	Total hours	20
	5 semester	
1.	Atherosclerosis and Hypertensive vascular disease. Diseases of the Cardiovascular System	2
2.	Acute and chronic diseases of the Respiratory System.	2
3.	Gastrointestinal tract and Liver diseases.	2
4.	Diseases of the Kidney and Endocrine System.	2
5.	Infectious diseases.	2
6.	Introduction to Orofacial Pathology. Congenital anomalies. Histological examination of biopsy in dentistry. Caries. Pulpitis, periodontitis. Periodontal tissues diseases.	2
7.	Infectious and non-infectious diseases of the mucous membrane and soft tissues of oral cavity.	2
8.	Diseases and tumors of the jaw bones.	2
9.	Infectious and non-infectious diseases of the neck organs and salivary glands. Congenital anomalies and tumors.	2
	Total hours	14

4.2.2. Thematic plan of practical classes and the number of hours per semester for studying the discipline

№	Thematic plan of practical classes	Hours
1	2	3
	4 semester	
1.	Subject matter, subject objectives and methods of study.	4
2.	Intracellular accumulations (parenchymatous dystrophies).	4
3.	Extracellular accumulations (stromal dystrophies).	4
4.	Extra- and intracellular accumulations (mixed dystrophies). Pigments and minerals metabolism disorder.	4
5.	Module test №1. Topics: «Dystrophies».	4
6.	Necrosis. Apoptosis. General features of death.	4
7.	Pathology of blood circulation I (hyperemia, ischemia, hemorrhage, plasmorrhagia, blood and lymph stasis).	4
8.	Pathology of blood circulation II (thrombosis, infarction, embolism, DIC syndrome, shock).	4
9.	Module test №2. Topics: «Necrosis» and «Pathology of blood circulation».	4
10.	Inflammation I (general features, exudative inflammation).	4
11.	Inflammation II (proliferative inflammation, granulomatous diseases).	4
12.	Diseases of the Immune System. AIDS.	4
13.	Module test №3. Topics: «Inflammation» and «Diseases of the Immune System».	4
14.	Compensation. Regeneration. Adaptation.	4
15.	Tumors I (general features, mesenchymal tissues tumors).	4
16.	Tumors II (tumors of epithelial, nervous and melaniferous tissues).	4
17.	Module test №4. Topics: «Compensation. Regeneration. Adaptation» и «Tumors».	4
18.	Diseases of Hematopoietic and Lymphoid Systems: hemoblastosis, lymphomas, anemia.	4

	Total hours	52
5 semester		
1.	Diseases of the Cardiovascular System. Atherosclerosis. Hypertensive vascular disease.	4
2.	Rheumatological diseases: rheumatism, systemic lupus erythematosus, rheumatoid arthritis, polyarteritis nodosa, systemic scleroderma, dermatomyositis. Vasculitis.	4
3.	Diseases and tumors of the Respiratory System.	4
4.	Diseases and tumors of the Gastrointestinal Tract.	4
5.	Diseases of the liver, gallbladder, bile ducts and exocrine pancreas.	
6.	Diseases and tumors of the Kidney.	4
7.	Diseases and tumors of the Endocrine System.	4
8.	Infectious diseases.	4
9.	Introduction to Orofacial Pathology. Congenital anomalies. Histological examination of biopsy in dentistry.	2
10.	Caries. Pulpitis, periodontitis. Periodontal tissues diseases.	4
11.	Infectious diseases of the mucous membrane and soft tissues of oral cavity. Sepsis in the practice of a dentist.	4
12.	Non-infectious diseases of the mucous membrane and soft tissues of oral cavity.	4
13.	Diseases and tumors of the neck organs and salivary glands. Tumors.	4
14.	Diseases and tumors of the jaw bones.	4
	Total hours	36

4.2.3. Self-studying

№ п/п	Name of the section of the academic discipline (module)	Types of SS	Total hours
1	3	4	5
3 semester			
1.	General Pathological Anatomy	Preparation for practical classes	30
2.		Preparation for current assessment	12
3.		Preparation for intermediate assessment (PIA)	12
	Total hours		54
4 semester			
4.	Special Pathological Anatomy	Preparation for practical classes (PC)	6
5.		Preparation for current assessment (PCA)	6
6.			
7.	Head and Neck Pathology	Preparation for practical classes (PC)	6
8.		Preparation for current assessment (PCA)	6
9.	Intermediate assessment	Preparation for intermediate assessment	12
	Total hours		36

5. CONDITIONS FOR THE IMPLEMENTATION OF THE DISCIPLINE (MODULE)

5.1. Educational, Methodological, and Informational Support for the Academic Discipline

Core literature

n/ №	Name of Resource, Type of Resource	Author(s)/Editor	Output Data, Email Address	Number of Copies (Accesses) in LIC
1	2	3	4	5
1.	Патологическая анатомия: учебник (electronic resource)	под ред. В. С. Паукова	М. : ГЭОТАР-Медиа, 2023. - 832 с. URL: http://www.studntlibrary.ru	Unlimited access
2.	Патологическая анатомия: учебник (electronic resource)	А. И. Струков, В. В. Серов ; под ред. В. С. Паукова	М. : ГЭОТАР-Медиа, 2023. - 880 с. URL: http://www.studntlibrary.ru	Unlimited access
3.	Патологическая анатомия: атлас (electronic resource)	А. И. Струков, В. В. Серов, Н.Е. Ярыгин	М. : ООО «Издательство «Медицинское информационное агентство», 2022. - 392 с. URL: https://www.medlib.ru/	Unlimited access

Additional Literature

n/ №	Name of Resource, Type of Resource	Author(s)/Editor	Output Data, Email Address	Number of Copies (Accesses) in LIC
1	2	3	4	5
1.	Патологическая анатомия : руководство к практическим занятиям : учеб. пособие (Электронный ресурс)	под ред. О. В. Зайратьянца, Л. Б. Тарасовой	М. : ГЭОТАР-Медиа, 2021. - 696 с. URL: http://www.studntlibrary.ru	Unlimited access
2.	Основы патологии заболеваний по Роббинсу и Котрану В 3 т. Т. 1: главы 1-10.	В. Кумар, А.К. Аббас, Н. Фаусто; пер. с англ.; под ред. Е.А. Коган .	М.: Логосфера, 2014. - 624 с. URL: http://books-up.ru	Unlimited access
3.	Основы патологии заболеваний по Роббинсу и Котрану В 3 т. Т. 2: главы 11-20.	В. Кумар, А.К. Аббас, Н. Фаусто; пер. с англ.; под ред. Е.А. Коган.	М.: Логосфера, 2016. - 616 с. URL: http://books-up.ru	Unlimited access
4.	Основы патологии заболеваний по Роббинсу и Котрану. В 3 т.	В. Кумар, А.К. Аббас, Н. Фаусто; пер. с англ.; под ред. Е.А.	М.: Логосфера, 2016. - 500 с. URL: http://books-up.ru	Unlimited access

	Т. 3: главы 21-29.	Коган.		
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Internet resources

1. ESL «Консультант студента» <http://studmedlib.ru/>
2. ESL «Университетская библиотека online» <http://www.biblioclub.ru/>
3. ESL «Юрайт» <https://urait.ru/>
4. ESL «BookUp» <https://www.books-up.ru/>
5. Own resources of the LIC FSBEI HE PSMU of the Ministry of Health of Russia
<https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/>

Internet resources and instructions for their use are available on the Library and Information Center page. [Библиотечно-информационный центр — ТГМУ \(tgmu.ru\)](https://tgmu.ru)



5.2. Material and technical support for the academic discipline

Information about the material and technical support of the discipline is available on the official university website [Материально-техническое обеспечение и оснащённость образовательного процесса. Тихоокеанский государственный медицинский университет Министерства здравоохранения Российской Федерации \(tgmu.ru\)](https://tgmu.ru)



5.3. List of information technologies used for implementing the educational process in the discipline, including information and reference systems, licensed and freely distributed software, including domestically produced software:

1. PolycomTelepresence M100 Desktop Conferencing Application (BKC)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. Система онлайн-тестирования INDIGO
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1С:Университет
10. Гарант
11. MOODLE (modular object-oriented dynamic learning environment)

6. FEATURES OF IMPLEMENTING THE DISCIPLINE FOR STUDENTS WITH LIMITED HEALTH CAPABILITIES AND DISABILITIES

6.1. Availability of appropriate conditions for the implementation of the discipline

For students with disabilities and limited health capabilities (LHC), the discipline is implemented based on a written application, taking into account psychophysical development features,

individual abilities, and health status (hereinafter - individual features). The following general requirements are ensured: use of special technical teaching aids for collective and individual use, provision of an assistant (helper) who provides necessary technical assistance to the student, ensuring access to buildings and premises where classes are held, and other conditions that facilitate or are necessary for studying the discipline.

6.2. Ensuring compliance with general requirements

When implementing the discipline based on a student's written application, the following general requirements are met: conducting classes for students with disabilities and LHC together with students without health limitations in one classroom, if it does not create difficulties for any students; presence of an assistant (or assistants) in the classroom who provide necessary technical support considering individual needs; use of necessary technical devices by students with disabilities, considering their individual characteristics.

6.3. Informing students with limited health capabilities about all local regulatory acts of FSBEI HE PSMU of the Ministry of Health of Russia in an accessible form

All local regulatory acts of FSBEI HE PSMU of the Ministry of Health of Russia regarding the implementation of the discipline are communicated to students with LHC in an accessible way.

6.4. Extending the duration of intermediate assessments for students with limited health capabilities

The form of conducting current and intermediate assessments for students with disabilities and LHC is determined considering their individual psychophysical features (orally, in writing on paper, in writing on a computer, in testing format, etc.). The duration of passing intermediate assessments is increased upon a written request from the student with LHC. The preparation time for exams or tests is increased by at least 0.5 hours compared to standard durations.

7. STAFFING OF THE DISCIPLINE

The composition of scientific and pedagogical staff responsible for implementing the educational process for the discipline complies with the requirements of the Federal State Educational Standards (FSSES) of higher education for specialty 31.05.03 Dentistry and is posted on the educational organization's website.



8. EDUCATIONAL AND UPBRINGING WORK

Type	Forms and Areas	Evaluation Criteria
Personal Development Support	Open Forms Discipline 'Pathological Anatomy — Head and Neck Pathology' Conversations and problem-based discussions promoting a healthy lifestyle Participation in interdepartmental conferences on fostering a culture of healthy living and developing the ability to preserve and strengthen health Hidden Forms— Creating an atmosphere and infrastructure conducive to personal development Discipline 'Pathological Anatomy — Head and Neck Pathology' Cultivating a culture of healthy living and enhancing the ability to maintain and improve health Creating a friendly and respectful environment with high communication skills during the discipline implementation	Portfolio
Civic Values	Open Forms Discipline 'Pathological Anatomy — Head and Neck Pathology' Conducting events that promote civic-legal culture (round tables, debates, discussions)	Portfolio

	Relevant short debates on special occasions	
	Hidden Forms Discipline 'Pathological Anatomy — Head and Neck Pathology' Emphasizing general civic values and legal culture orientation Developing a conscious civic stance in professional activities	
Social Values	Open Forms Discipline 'Pathological Anatomy — Head and Neck Pathology' Addressing issues related to organizing a healthy lifestyle based on health-saving technologies Discussing ecological issues as factors affecting public health and individual population risks	Portfolio
	Hidden Forms Discipline 'Pathological Anatomy — Head and Neck Pathology' Identifying social roles during education and professional activities	