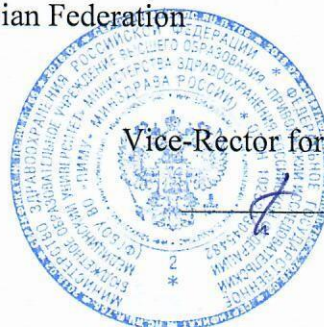


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **MORPHOLOGY OF THE ORAL CAVITY DISEASES**

Specialty: **31.05.03 DENTISTRY**

Qualification: **DENTIST**

Department: _____ **PATHOLOGICAL ANATOMY** _____

Mode of study: _____ **FULL-TIME** _____

Labor intensity of the academic discipline: _____ **36 academic hours** _____

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.03 DENTISTRY approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 984 of August 12, 2020.

Developers of the working program:


Orlinskaya N.Yu., Grande PhD Medical sciences, Associate Professor, the Head of the Pathological Anatomy Department

Yunusova K.E., PhD in Medical sciences, Associate Professor, Associate Professor of the Pathological Anatomy Department

The program was reviewed and approved at the department meeting (protocol No.5 20.04.21)


Head of the Department,

Grande PhD Medical sciences,

Associate Professor  (Orlinskaya N.Yu.)
(signature)

20.04.21

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.
(signature)

20.04.21

1. The purpose and objectives of mastering the academic discipline “Morphology of the oral cavity diseases”

1.1 The purpose and objectives of mastering the discipline "Pathological anatomy - pathological anatomy of the head and neck" (hereinafter referred to as the discipline).

The purpose of mastering the discipline: participation in the formation of competence of the GPC-9.

1.2 Objectives of the discipline:

The student should

know:

1. Basic medical terms reflecting the content of the curriculum.
2. Causes, morphological manifestations, complications, outcomes of general pathological processes, major human diseases.

be able to:

1. To recognize pathomorphological changes of organs in diseases of the human oral-maxillary system.
2. To describe morphological changes in the studied macro-preparations, micro-preparations and electronograms.
3. Formulate a conclusion about the pathological process according to the totality of pathomorphological changes.
4. To conduct a comparative assessment of morphological changes in various diseases of the oral cavity.

possess:

1. Skills of describing macroscopic changes in various diseases of the oral cavity.
2. Skills of microscopy of pathohistological preparations.
3. Skills of sketching pathohistological preparations.
4. Understanding of the mechanisms of formation of morphological changes occurring in organs and tissues in various diseases of the oral cavity, the importance for the body.

2. The place of the discipline in the structure of the Main professional educational program of higher education.

2.1 The discipline belongs to the basic part of block 1 "Disciplines (modules)" The main educational program of higher education. The discipline is studied from the third and fourth semesters.

2.2 To study the discipline, knowledge, skills and abilities formed by previous disciplines are required: biology, physics, chemistry, human anatomy – anatomy of the head and neck; histology, embryology, cytology – oral histology; biological chemistry – oral biochemistry; microbiology, virology; normal physiology – physiology of the maxillofacial region; propaedeutics and prevention of dental diseases.

2.3 The study of the discipline is necessary for the knowledge, skills and abilities formed by subsequent disciplines: internal diseases, clinical pharmacology, therapeutic dentistry, orthopedic dentistry, surgical diseases, outpatient surgical dentistry, radiation diagnostics, infectious diseases, phthisiology, neurology, otorhinolaryngology, ophthalmology, surgical dentistry.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition
Mastering the discipline aims at acquiring the following general professional (GPC)

competence

№	Compe tence 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
	GPC-9	Able to assess morphofunctional , physiological conditions and pathological processes in the human body to solve professional problems	AI-1 Knowledge of pathological anatomy and physiology of human organs and systems AI-2 the ability to evaluate the basic morphofunctional data, physiological states and pathological processes in the human body A.I-3 implementati on of practical experience: assessment of basic morphofuncti onal data, physiological conditions and pathological processes in the human body when	Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems	Able to: evaluate the basic morphological and functional data, physiological conditions and pathological processes in the human body	Has practical experience in: assessment of basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems

			solving professional tasks			
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4. Sections of the academic discipline and competencies that are formed when mastering them

No	Competence code	Section name of the discipline	The content of the section in teaching units
1.	GPC-9	Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion. Inflammatory diseases of the dental system: pulpitis.	The concept of caries, plaque and tartar, fluorosis: risk factors, modern ideas about pathogenesis, the role of disorders of general and local metabolism, morphology, outcomes, complications, pathomorphosis.
2.	GPC-9	Inflammatory diseases of the dental system: pulpitis, periodontitis, gingivitis, periodontitis, periostitis, osteomyelitis, stomatitis, sialoadenitis. Cysts of the jaw bones. Periodontal disease.	The most common inflammatory diseases of the maxillary system: risk factors, current understanding of pathogenesis, morphology, outcomes, complications, pathomorphosis.
3.	GPC-9	Odontogenic infection and odontogenic sepsis.	Odontogenic sepsis and odontogenic infection: modern classifications and ideas about the etiopathogenesis of these clinical forms, morphological changes, complications, causes of death, pathomorphosis. Features of odontogenic infection and sepsis.
4.	GPC-9	Precancerous and tumor diseases of the mucous membranes of the oral cavity, lips, tongue (leukoplakia, dysplasia, cancer). Odontogenic tumors. Epulid (epulis). Tumors of the salivary glands.	Tumor-like processes and tumors of the dental and maxillary apparatus: frequency, localization, structure, outcomes, principles of morphological diagnosis.

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters	
	volume in credit units (CU)	volume in academic hours (AH)	3	4
Classroom work, including				
Lectures (L)	0,16	6	6	
Laboratory practicum (LP)*				
Practicals (P)	0,4	16	16	
Clinic practicals (CP)				
Seminars (S)				
Student's individual work (SIW)	0,4	14	14	
Student's Research work (R&D)				

Mid-term assessment				
credit/exam (<i>specify the type</i>)				
TOTAL LABOR INTENSITY	1	36	36	

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Semester	Name of the section of the academic discipline	Types of academic work* (in AH)							
			L	LP	P	CP	S	SIW	total	
1.	3	Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion. Inflammatory diseases of the dental system: pulpitis.	1		3				2,5	7,5
2.	3	Inflammatory diseases of the dental system: pulpitis, periodontitis, gingivitis, periodontitis, periostitis, osteomyelitis, stomatitis, sialoadenitis. Cysts of the jaw bones. Periodontal disease.	1		6				4	12
3.	3	Odontogenic infection and odontogenic sepsis.	2		3				2,5	7,5
4.	3	Precancerous and tumor diseases of the mucous membranes of the oral cavity, lips, tongue (leukoplakia, dysplasia, cancer). Odontogenic tumors. Epulid (epulis). Tumors of the salivary glands.	2		4				3	9
		TOTAL	6		16				14	36

L- lectures

LP – Laboratory practicum

P – practicals

Clinic practicals (CP)

Seminars (S)

Student's individual work (SIW)

6.2. Thematic schedule of lectures

п/№	Наименование тем лекций	Объем в АЧ	
		Семестр3	Семестр4
1	Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion. Inflammatory diseases of the dental system: pulpitis.	1	
2	Inflammatory diseases of the dental system: pulpitis, periodontitis, gingivitis, periodontitis, periostitis, osteomyelitis, stomatitis, sialoadenitis. Cysts of the jaw bones. Periodontal disease.	1	
3	Odontogenic infection and odontogenic sepsis.	2	
4	Precancerous and tumor diseases of the mucous membranes of the oral cavity, lips, tongue (leukoplakia, dysplasia, cancer). Odontogenic tumors. Epulid (epulis). Tumors of the salivary glands.	2	
	ИТОГО (АЧ)	6	

6.3. The thematic plan of laboratory practicums is not provided by the federal state educational standard

6.4. Thematic plan of practicals

п/№	Наименование тем практических занятий	Объем в АЧ	
		Семестр3	Семестр4
1	Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion. Inflammatory diseases of the dental system: pulpitis.	3	
2	Inflammatory diseases of the dental system: pulpitis, periodontitis, gingivitis, periodontitis, periostitis, osteomyelitis, stomatitis, sialoadenitis. Cysts of the jaw bones. Periodontal disease.	6	
3	Odontogenic infection and odontogenic sepsis.	3	
4	Precancerous and tumor diseases of the mucous membranes of the oral cavity, lips, tongue (leukoplakia, dysplasia, cancer). Odontogenic tumors. Epulid (epulis). Tumors of the salivary glands.	4	
	TOTAL (всего - 51 АЧ)	16	

6.5. Thematic plan of seminars is not provided by the federal state educational standard

6.6. Types and topics of student's individual work (SIW)

п/№	Наименование вида	Объем в АЧ
	СРС*	

		Семестр 3	Семестр 4
1	Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion. Inflammatory diseases of the dental system: pulpitis.	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal. – 2,5	
2	Inflammatory diseases of the dental system: pulpitis, periodontitis, gingivitis, periodontitis, periostitis, osteomyelitis, stomatitis, sialoadenitis. Cysts of the jaw bones. Periodontal disease.	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal – 4	
3	Odontogenic infection and odontogenic sepsis.	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal. – 2,5	
4	Precancerous and tumor diseases of the mucous membranes of the oral cavity, lips, tongue (leukoplakia, dysplasia, cancer). Odontogenic tumors. Epulid (epulis). Tumors of the salivary glands.	Preparation for practical classes, testing, current control with the help of lecture materials, textbooks, including work with electronic educational resources on the university portal. -3	
	TOTAL (AH)	12	

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control	Name of section of academic discipline	Assessment formats		
				types	number of test questions	number of test task options
1	2	3	4	5	6	7
1.	3	Current monitoring	Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion. Inflammatory diseases of the dental system: pulpitis.	multiple choice questions	10	Not limited
		Midterm assessment		situational cases	10	10
2.	3	Current monitoring	Inflammatory diseases of the dental system: pulpitis, periodontitis, gingivitis, periodontitis, periostitis,	multiple choice questions	10	Not limited

		Midterm assessment	osteomyelitis, stomatitis, sialoadenitis. Cysts of the jaw bones. Periodontal disease.	situational cases	10	10
3.	3	Current monitoring	Odontogenic infection and odontogenic sepsis.	multiple choice questions	10	Not limited
		Midterm assessment		situational cases	10	10
4.	3	Current monitoring	Precancerous and tumor diseases of the mucous membranes of the oral cavity, lips, tongue (leukoplakia, dysplasia, cancer). Odontogenic tumors. Epulid (epulis). Tumors of the salivary glands.	multiple choice questions	10	Not limited
		Midterm assessment		situational cases	10	10

Examples of evaluation tools :

Exudative inflammation:

1. Highlight the phase of the inflammatory reaction
 - 1) fullness of blood 4) repair
 - 2) dystrophy 5) regeneration
 - 3) exudation
2. The main cells in the focus of acute inflammation are
 - 1) monocytes 4) neutrophilic leukocytes
 - 2) macrophages 5) fibroblasts
 - 3) histiocytes
3. What is exudate?
 - 1) edematous fluid
 - 2) inflammatory fluid
 - 3) abnormal fluid containing protein
 - 4) inflammatory fluid with the addition of red blood cells 5) any pathological fluid
4. Specify the type of exudative inflammation
 - 1) serous 4) mucosal
 - 2) granulomatous 5) chronic
 - 3) interstitial
5. Highlight the erroneous name of the type of exudative inflammation
 - 1) serous 4) fibrous
 - 2) purulent 5) putrid
 - 3) fibrinous
6. Localization, in which only diphtheria inflammation develops and there is no croup
 - 1) pleura 4) palatine tonsils
 - 2) peritoneum 5) large intestine
 - 3) pericardium
7. The following type of fibrinous inflammation develops on the oral mucosa:

- 1) phlegmonous;
- 2) interstitial;
- 3) hemorrhagic;
- 4) putrefactive;
- 5) diphtheria.
8. With microscopy, purulent exudate is diagnosed by a large number of
 - 1) fibrin 4) lymphocytes
 - 2) neutrophilic white blood cells 5) red blood cells
 - 3) macrophages
9. Specify the name of the purulent inflammation
 - 1) abscess 4) cyst
 - 2) granuloma 5) hematoma
 - 3) anasarka
10. Specify the types of acute catarrhal inflammation
 - 1) serous 4) purulent
 - 2) mucus 5) all of the listed
 - 3) mucopurulent

PRECANCEROUS AND TUMOR DISEASES OF THE MUCOUS MEMBRANE OF THE ORAL CAVITY, LIPS, TONGUE (leukoplakia, dysplasia, cancer)

1. Define epithelial dysplasia. P=1
2. List the most frequent precancerous processes. (diseases) of the mucous membrane of the oral cavity, lips, tongue. P=4
3. Indicate microscopic (histological) changes in leukoplakia. P=5
4. What is the frequency of malignancy of leukoplakia of the oral cavity. P=1
5. What is the frequency of erythroplakia malignancy. P=1
6. A patient with a diagnosis of tongue cancer is being treated at the city oncological dispensary. The tumor was discovered during an examination of the oral cavity by a dentist. The diagnosis was confirmed by histological examination of the biopsy material.
 1. What macroscopic forms of tongue cancer distinguish P=3
 2. What could the dentist see when examining the oral cavity P=2
 3. Name the most frequent localization of tongue cancer P=2
 4. Specify the histological variant of cancer typical for the language P=1
 5. Describe his histological (microscopic) picture P = 2
 6. How and where does the cancer of the tongue metastasize P=2
 7. What opportunities for cancer diagnosis does a biopsy P = 1 provide

Caries. Fluorosis. Wedge-shaped defects. Pathological tooth abrasion.

1. Define dental caries. P=1
2. What stages of tooth decay are distinguished by the depth of enamel and dentin lesions. P=4 3. What microscopic (histological) changes develop with superficial caries P=4
4. Which teeth are most often affected by caries P=4
5. In what forms (stages) of fluorosis do defects of the hard tissues of the tooth appear P= 2
6. During the examination of the oral cavity, an opaque white spot was found on the chewing surface of a 12-year-old child [6. When probing, the enamel in the spot area is smooth. The diagnosis of caries was made, therapeutic measures were prescribed according to the revealed pathology.
 1. Specify the stage of caries in the child. P=1
 2. Describe in detail the microscopic (histological) changes in this stage of caries. P=4
 3. What is remineralization and how it happens. P=3
 4. What are the main parameters used to classify dental caries.P=4

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1 Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Robbins Basic Pathology / edited by Vinay Kumar, Abul K. Abbas, Jon C.Aster. - 9 th ed, Elsevier Saunders, 2015, 924 p.	0	100

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Pathological anatomy of general part: manual / A.Artifeksova et al. – Nizhny Novgorod: Publishing House of NNSMA, 2011. – 76 p.	0	50
2.	Pathological anatomy of systemic and infectious diseases: manual / A.Artifeksova et al. – Nizhny Novgorod: Publishing House of NNSMA, 2011. – 48 p.	0	50

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
Internal Electronic Library System (ELS)	The works of the academic staff of the Academy: textbooks and manuals, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents.	from any computer located on the Internet, using an individual login and password [Electronic resource] – Access mode: http://95.79.46.206/login.php	Not limited

8.3.2. Electronic educational resources acquired by the University

<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
Electronic database "Student Consultant"	Educational literature + additional materials (audio, video, interactive materials, test tasks) for higher medical and pharmaceutical education. Publications are structured by specialties and disciplines in accordance with the current federal state educational standards	from any computer located on the Internet, using an individual login and password [Electronic resource] – Access mode: http://www.studmedlib.ru/	General PIMU subscription

Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishers, including translations of foreign publications.	from any computer located on the Internet by login and password, from the computers of the academy. The subscription editions are available for reading. [Electronic resource] – Access mode: http://www.books-up.ru/	General PIMU subscription
«Bibliopisk»	Integrated single window search service for electronic catalogs, electronic library system and full-text databases. The results of a single search in the demo version include documents from domestic and foreign electronic libraries and databases available to the university as part of a subscription, as well as from open access databases.	PIMU has access to the demo version of the Bibliopisk search engine: http://bibliosearch.ru/pimu .	General PIMU subscription
Domestic electronic periodicals	Periodicals on medical subjects and on higher school issues	- from the computers of the academy on the platform of the electronic library eLibrary.RU -journals of the Media Sphere publishing house - from library computers or provided by the library at the request of the user [Electronic resource] – Access mode: https://elibrary.ru/	
International scientometric database "The main collection of Web of Science"	Web of Science covers materials on natural, technical, social, and humanitarian sciences; takes into account the mutual citation of publications developed and provided by Thomson Reuters; has built-in capabilities for searching, analyzing, and managing bibliographic information.	Access is free from PIMU computers [Electronic resource] – Access to the resource at: http://apps.webofknowledge.com	Access is free from PIMU computers

8.3.3 Open access resources

<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
Federal Electronic Medical Library	Includes electronic analogues of printed publications and original electronic publications that have no analogues recorded on other media (dissertations, abstracts, books, journals, etc.).	from any computer located on the Internet

	[Electronic resource] – Access mode: http://нэб.рф/	
Scientific Electronic Library eLIBRARY.RU	The largest Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of scientific articles and publications. [Electronic resource] – Access mode: https://elibrary.ru/	from any computer located on the Internet.
Open Access Scientific Electronic Library CyberLeninka	Full texts of scientific articles with annotations published in scientific journals of Russia and neighboring countries. [Electronic resource] – Access mode: https://cyberleninka.ru/	from any computer located on the Internet
Russian State Library (RSL)	Abstracts for which there are copyright agreements with permission for their open publication [Electronic resource] – Access mode: http://www.rsl.ru/	from any computer located on the Internet
Legal reference system "Consultant Plus"	Federal and regional legislation, judicial practice, financial advice, comments on legislation, etc. [Electronic resource] – Access mode: http://www.consultant.ru/	from any computer located on the Internet
Official website of the Ministry of Health of the Russian Federation	National clinical guidelines [Electronic resource] – Access mode: cr.rosminzdrav.ru - Clinical recommendations	from any computer located on the Internet
Official website of the Russian Respiratory Society	Modern materials and clinical recommendations for the diagnosis and treatment of respiratory diseases [Electronic resource] – Access mode: www.spulmo.ru – Russian Respiratory Society	from any computer located on the Internet
Official website of the Russian Scientific Society of Therapists	Современные материалы и клинические рекомендации по диагностике и лечению заболеваний внутренних органов [Электронный ресурс] – Режим доступа: www.rnmot.ru – Российское научное общество терапевтов Modern materials and clinical recommendations for the diagnosis and treatment of diseases of internal organs [Electronic resource] – Access mode: www.rnmot.ru – Russian Scientific Society of Therapists	from any computer located on the Internet

9. Material and technical support for mastering an academic discipline.

9.1. List of premises for classroom activities for the discipline

1. 6 study rooms
2. Conference room
3. Museum of Macropreparations

*specially equipped rooms (classrooms, offices, laboratories, etc.) for lectures, seminars, practical and clinical-practical classes in the study of disciplines, including:

anatomical hall, anatomical museum, corpse storage;
classrooms equipped with simulation equipment;
offices for working with patients receiving medical care.

9.2. List of equipment for classroom activities for the discipline

Multimedia complex (laptop, projector, screen), personal computers in classrooms – 90 pcs, 6 binocular microscopes, monitors, printers. Also 6 binocular microscopes, 1 cryostat, 1 freezing microtome, 1 refrigerator, a set of chemical reagents for the preparation of drugs.

Sets of multimedia visual materials on various sections of the discipline.

Wood boards.

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program (to be filled out by the template)

№	Date of changes	No. of the minutes of the meeting of the department, date	Content of the change	Signature

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of
Pathological anatomy

CHANGE REGISTRATION SHEET

working program for the academic discipline
PATHOLOGICAL ANATOMY – CLINICAL PATHOLOGICAL ANATOMY

Field of study / specialty / scientific specialty: _____
(code, name)

Training profile: _____
(name) - for master's degree programs

Mode of study: _____
full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____ of _____ 20__

Head of the Department

department name, academic title

signature

/ N.Y.Orlinskaya
print name