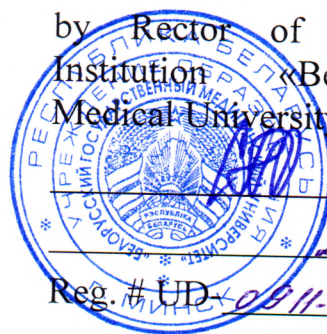


MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
Educational Institution
«BELARUSIAN STATE MEDICAL UNIVERSITY»

**Контрольный
экземпляр**

APPROVED

by Rector of the Educational
Institution «Belarusian State
Medical University»



S.P. Rubnikovich

25.06.2026

Reg. # UD- 0511-03-39/2623 edu.

PERIODONTOLOGY

**Curriculum of the educational institution
in the module for the specialty**

7-07-0911-03 «Dentistry»

Curriculum is based on the educational program of the module «Periodontology», approved 25.06.2026, registration # УД-0911-03-39/уч.; on the educational plan in the specialty 7-07-0911-03 «Dentistry», approved 15.04.2026, registration # 7-07-0911-03/2627mf

COMPILERS:

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RECOMMENDED FOR APPROVAL:

by the Department of Periodontology of the Educational Institution «Belarusian State Medical University»
(protocol # 18 of 09.04.2026);

by the Scientific and Methodological Council of the Educational Institution «Belarusian State Medical University»
(protocol # 10 of 25.06.2026)

EXPLANATORY NOTE

«Periodontology» is a module that includes academic disciplines «Clinical Periodontology», «Complex Periodontology», containing systematized scientific knowledge about the structure of periodontal tissues, development mechanisms, the clinical picture of periodontal diseases, methods of diagnosis, treatment and their prevention.

The aim of the module «Periodontology» is the development of specialized competency for providing medical care to patients with periodontal diseases based on the integration of fundamental knowledge, practical skills and modern digital technologies, including artificial intelligence tools.

The objectives of the module «Periodontology» are to form students' scientific knowledge about the biology of the periodontium, the concept of development and classification of periodontal diseases, the stages and methods of patient examination, risk factors, the mechanism of development and clinical manifestations of periodontal diseases, the skills and abilities necessary for:

- examining patients with periodontal diseases;
- diagnosing periodontal diseases;
- treating patients with periodontal diseases;
- conducting preventive measures;
- planning and implementing comprehensive treatment for patients with periodontal diseases;
- conducting maintenance therapy in periodontology;
- planning periodontal care for special patient categories;
- developing professional clinical thinking.

Relations to other academic disciplines

The knowledge, skills and abilities acquired during the study of the module «Periodontology» are necessary for successful mastering of the following academic disciplines: «Conservative Dentistry», «Endodontics», «Diseases of the Oral Mucosa», «Removable Prosthetics», «Maxillofacial Orthopedics and Orthopedic Dentistry», «Maxillofacial Surgery and Outpatient Maxillofacial Surgery», «Therapeutic Pediatric Dentistry», «Oral and Maxillofacial Pediatric Surgery», «Orthodontics».

Studying the module «Periodontology» should ensure the formation of students' specialized competency: apply basic and additional methods of diagnosis, prognosis, treatment and prevention of periodontal diseases based on knowledge about the mechanism of development, classification of periodontal diseases; define the final comprehensive plan of dental treatment and prevention of periodontal diseases in adults in cooperation with specialists from different dental and medical fields.

As a result of studying the module «Periodontology» the student should know:

- basic concepts in periodontology;
- structure of periodontal tissues;
- characteristics of healthy periodontium;
- factors influencing the condition of the periodontium;

classification of periodontal diseases;
 mechanism of development, clinical picture in patients with dental plaque, gingivitis, periodontitis, endoperiodontitis, gum recession;
 stages of examination and treatment planning for periodontal diseases;
 treatment protocols for patients with dental plaque, gingivitis, periodontitis, endoperiodontitis and gum recession;
 indications and contraindications for the use of drugs;
 methods of preventing periodontal diseases;
 medical documentation of a dental office, department, or clinic;
 modern directions of scientific research in the field of periodontology in the Republic of Belarus and abroad;
 modern areas of application of artificial intelligence and digital technologies in periodontology: automated interpretation of radiological data, prediction of the course of periodontal diseases, intelligent clinical decision support systems;
 principles of ethics and deontology in periodontology;

be able to:

establish rapport with a patient, observing principles of medical ethic and deontology in communication and actions;
 organize the dentist's workplace taking into account ergonomics;
 monitor the biological system of the periodontium;
 assess risk factors for periodontal diseases;
 examine a patient with periodontal diseases;
 interpret the results of clinical, laboratory, functional, radiological and other examination methods in periodontology;
 substantiate the diagnosis of periodontal diseases;
 apply treatment protocols to patients with dental plaque, gingivitis, periodontitis, endoperiodontitis and gum recession;
 justify the use of drugs, orthopedic, orthodontic, surgical, physiotherapeutic and other measures with the inclusion of cellular technologies in periodontology;
 analyze the course of periodontal diseases;
 monitor the effectiveness of treatment and preventive measures;
 predict the outcome of treatment of periodontal diseases;
 prepare medical documentation;
 apply digital technologies and artificial intelligence to predict the risk of development and progression of periodontal diseases;

master:

methods of physical examination in periodontology;
 periodontal index diagnostics;
 planning and conducting treatment for patients with dental plaque, gingivitis, periodontitis, endoperiodontitis and gum recession;
 methods of conducting preparatory treatment.
 skills in working with AI-assisted diagnostic tools in periodontology (automated analysis of CBCT images, assessment of hygiene status)

Total number of hours for the study of the module is 444 academic hours, including 280 classroom hours and 164 hours of independent student work. Classroom

hours are distributed among the following: 33 hours of lectures (including 15 hours of supervised independent work (SSIW)), 247 hours of practical classes.

Form of higher education – full-time.

Intermediate assessment for the academic discipline «Clinical Periodontology» is conducted according to the syllabus of the specialty in the form of a credit (semester 7) and an exam (semester 8).

Intermediate assessment for the academic discipline «Complex Periodontology» is conducted out according to the syllabus of the specialty in the form of a credit (semester 10).

ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name of the specialty	Semester	Total number of academic hours	Number of classroom hours				Out-of-class self-studies	Form of intermediate assessment
			Number of classroom hours	including				
				class lectures	SSIW	practicals		
7-07-0911-03 «Dentistry»	7	158	103	6	6	91	55	credit
	8	138	77	6	6	65	61	examination
	9	74	48	3	3	42	26	-
	10	74	52	3	-	49	22	credit
Total hours		444	280	18	15	247	164	

**THEMATIC PLAN
FOR THE «PERIODONTOLOGY» MODULE**

Section (topic) name	Number of class hours	
	lectures (incl. SSIW)	practical
ACADEMIC DISCIPLINE «CLINICAL PERIODONTOLOGY» OF THE MODULE «PERIODONTOLOGY»		
1. Biological basis and clinical and functional features of periodontal tissues	-	7
2. Periodontal tissues and their condition	-	7
3. Diagnosis of periodontal diseases	3	21
3.1. Periodontal examination stages for patients with periodontal diseases. Primary visual characteristics of the periodontium	1,5	7
3.2. Evaluation of the structural condition of the alveolar process and skeletal system. Detailed examination of periodontal tissues. Digital and AI technologies in the diagnosis of periodontal diseases	1,5	7
3.3. Functional methods for examining periodontal tissues. Laboratory diagnostics for periodontal diseases. Index diagnostics. Characteristics of research methods		7
4. Chronic gingivitis	3	14
4.1. Chronic simple marginal gingivitis	1,5	7
4.2. Chronic ulcerative, hyperplastic, symptomatic gingivitis	1,5	7
5. Chronic periodontitis. Mechanism of development of chronic periodontitis. Clinical manifestations of generalized periodontitis	3	21
5.1. Classification, development mechanism, histopathology, microbiology, diagnostic methods of chronic periodontitis	1,5	7
5.2. Clinical manifestations of forms, course, prevalence and severity of generalized periodontitis. Periodontal pocket	1,5	7
5.3. Differential diagnosis of chronic periodontitis. Clinical protocol for patient diagnosis and treatment		7
6. Gum recession. Periodontal atrophy	-	6
7. Acute inflammatory diseases of the periodontal tissues	3	6
8. Prognosis and treatment planning for patients with periodontal diseases	1,5	7
9. Ergonomics	-	7
10. Preparatory treatment of patients with periodontal diseases: hygiene measures	3	14
10.1. Classification and characteristics of dental plaque. Motivation and instruction on oral care	3	7
10.2. Professional removal of dental plaque using mechanical		7

Section (topic) name	Number of class hours	
	lectures (incl. SSIW)	practical
and combined methods		
11. Drug treatment of periodontal diseases	1,5	6
12. Propaedeutics of periodontal surgery	1,5	6
13. Endoperiodontitis: mechanism of development, clinical manifestations, patient treatment planning	1,5	7
14. Rapidly progressive periodontitis. Predisposing factors for development	1,5	6
15. Maintenance therapy in patients with periodontal diseases	1,5	7
16. Prevention of periodontal diseases	-	7
17. Specific features of the periodontal biological system in special patient categories: COVID-19 survivors, individuals with disabilities, athletes, and others	-	7
Total hours for the academic discipline	24	156
ACADEMIC DISCIPLINE «COMPLEX PERIODONTOLOGY» OF THE MODULE «PERIODONTOLOGY»		
18. Endoperiodontitis: clinical protocol for patient diagnosis and treatment	1,5	7
19. Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning for rapidly progressive periodontitis	-	7
20. The relationship between periodontal diseases and systemic diseases	1,5	7
21. Principles of the peri-restorative complex in periodontology	1,5	7
22. Orthodontic measures in patients with periodontal diseases	1,5	7
23. Plastic, resective, regenerative surgery in periodontology	-	14
23.1. Plastic surgery in periodontology	-	7
23.2. Resective, regenerative surgery in periodontology	-	7
24. Dental implantation in periodontology	-	7
25. Aesthetics in periodontology	1,5	7
26. Dentin sensitivity in patients with periodontal disease	-	7
27. Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies	1,5	14
28. Digital technologies and artificial intelligence in periodontology	-	7

Section (topic) name	Number of class hours	
	lectures (incl. SSIW)	practical
Total hours for the academic discipline	9	91
Total hours for module «Periodontology»	33	247

CONTENT OF THE MODULE

ACADEMIC DISCIPLINE «CLINICAL PERIODONTOLOGY» OF THE MODULE «PERIODONTOLOGY»

1. Biological basis and clinical and functional features of periodontal tissues

Periodontological terminology. Factors influencing periodontal health.

Structural features of the periodontium, gingiva, oral epithelium, sulcular epithelium, attachment epithelium, gingival sulcus, alveolar bone, interdental septum, cementum and the state of gingival fluid. Influence of factors: microbial plaque, heterogeneous tissues, occlusion, diet, psychosomatic state, systemic factors, habits, sugar and decreased physical activity.

Dynamics of the biological system of the periodontium. Conceptual theory of the biological system of the periodontium.

Homeostasis of healthy periodontal tissues. Barriers to tissue resistance: anatomy and physiology of the dental system, saliva, epithelial attachment, local inflammatory response, microcirculation and innervation. Oral microorganisms and their metabolic products. Endogenous agents. General risk factors.

2. Periodontal tissues and their condition

Characteristics of a healthy periodontium. Classification of periodontal diseases. Determining the condition of normal periodontal tissues using essential diagnostic methods.

3. Diagnosis of periodontal diseases

3.1. Periodontal examination stages for patients with periodontal diseases.

Primary visual characteristics of the periodontium

Stage one: acquaintance with the patient, history of somatic diseases, medical history, complaints, determination of oral cavity status. Features of the primary visual characterization of the periodontium. Methods and main criteria of radiographic diagnostics. Preliminary diagnosis. Stage two: features of a detailed examination of periodontal tissues.

3.2. Evaluation of the structural condition of the alveolar process and skeletal system. Detailed examination of periodontal tissues. Digital and AI technologies in the diagnosis of periodontal diseases

Digital characterization of the condition of periodontal tissues using indices (hygienic, gingival, periodontal).

Detailed examination of supra- and subgingival deposits, the level of gingival involvement in the pathological process. Clinical examination methods characterizing destructive processes in periodontal tissues. Types of periodontal pockets and their characteristics.

3.3. Functional methods for examining periodontal tissues. Laboratory diagnostics for periodontal diseases. Index diagnostics. Characteristics of research methods

Functional diagnostic methods and their characteristics. Laboratory diagnostic methods and their characteristics: cytological, microbiological, immunological, biochemical, morphological and biophysical.

4. Chronic gingivitis

4.1. Chronic simple marginal gingivitis

Chronic simple marginal gingivitis: mechanism of development, diagnosis, clinical manifestations, clinical protocols for patient diagnosis and treatment.

4.2. Chronic ulcerative, hyperplastic, symptomatic gingivitis

Chronic ulcerative, hyperplastic, symptomatic gingivitis: mechanism of development, diagnosis, clinical manifestations. Features of the biological periodontal system in pregnant women.

5. Chronic periodontitis. Mechanism of development of chronic periodontitis. Clinical manifestations of generalized periodontitis

5.1. Classification, development mechanism, histopathology, microbiology, diagnostic methods of chronic periodontitis

Classification characteristics of periodontal diseases. Systematization of the course, forms, prevalence and severity of periodontitis.

5.2. Clinical manifestations of forms, course, prevalence and severity of generalized periodontitis. Periodontal pocket

Characteristics of the mechanism of development and clinical manifestations of generalized periodontitis. Mechanism of development of pathological periodontal pockets.

5.3 Differential diagnosis of chronic periodontitis. Clinical protocol for patient diagnosis and treatment

Diagnosis. Alveolar bone changes. Key clinical criteria in the diagnosis of chronic gingivitis and periodontitis. Clinical protocols for patient diagnosis and treatment.

6. Gum recession. Periodontal atrophy

Clinical manifestations and diagnosis of gum recession and periodontal atrophy. Treatment using cellular technologies.

7. Acute inflammatory diseases of the periodontal tissue

Acute ulcerative gingivitis. clinical manifestations, diagnosis and treatment methods.

Acute periodontal abscess. Clinical manifestations, diagnosis and treatment methods.

8. Prognosis and treatment planning for patients with periodontal diseases

Types of prognosis and its importance. Factors determining prognosis. treatment planning stages and their characteristics.

9. Ergonomics

Principles of ergonomics, medical ethics and deontology in periodontology. Ergonomic requirements for periodontal procedures.

10. Preparatory treatment of patients with periodontal diseases: hygiene measures

10.1. Classification and characteristics of dental plaque. Motivation and instruction on oral care

Classification of dental plaques and their characteristics. Patient motivation. Key stages of acquiring healthy habits in patients with periodontal diseases. Instructions for oral care.

10.2. Professional removal of dental plaque by mechanical and combined methods

Characteristics of dental plaque removal. Stages, methods and tools for professional mechanical plaque removal. Classification of instruments for scaling and root planing. The «Dial» method for manual sharpening of periodontal instruments.

Methods of scaling using devices and chemicals. Specific features of sonic, laser, hydroaerosol, ultrasonic and chemical scaling methods. Clinical protocols for patient diagnosis and treatment.

11. Drug treatment of periodontal diseases

Principles of drug therapy in periodontology. Drug therapy methods and tools.

12. Propaedeutics of periodontal surgery

History of the development of periodontal surgery. Indications and contraindications for periodontal surgery. Features of diagnosis and treatment planning. Periodontal surgical tools.

13. Endoperiodontitis: mechanism of development, clinical manifestations, patient treatment planning

Endoperiodontitis: pathogenesis, clinical manifestations, patient treatment planning. Characteristics of the clinical manifestations of simple and complex periodontitis.

14. Rapidly progressive periodontitis. Predisposing factors for development

Rapidly progressive periodontitis: predisposing factors and pathogenesis, diagnosis and treatment of rapidly progressive periodontitis.

15. Maintenance therapy in patients with periodontal diseases

Principles of maintenance therapy. Sequence of treatment and diagnostic measures. Effectiveness of maintenance therapy.

16. Prevention of periodontal diseases

Periodontal diseases prevention methods. Oral hygiene products and methods. Specific features of hygiene measures during comprehensive treatment.

17. Specific features of the periodontal biological system in special patient categories: COVID-19 survivors, individuals with disabilities, athletes, and others

Characteristics of the microbiota and tissue barriers of the periodontal biological system in special patient categories.

ACADEMIC DISCIPLINES «COMPLEX PERIODONTOLOGY» OF THE MODULE «PERIODONTOLOGY»

18. Endoperiodontitis: clinical protocol for patient diagnosis and treatment

Morphofunctional characteristics of endoperiodontium. Unfavorable factors leading to endoperiodontitis. Classification. Clinical manifestations, diagnosis and

treatment of simple, complex, symptomatic endodontitis. Clinical protocols for patient diagnosis and treatment.

19. Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning for rapidly progressive periodontitis

Predisposing factors for the development of rapidly progressive periodontitis. Diagnosis, clinical picture, planning and treatment for rapidly progressive periodontitis.

20. Relationship between periodontal diseases and systemic diseases

Multimorbid approaches to complex diagnosis and treatment planning for patients with systemic diseases. Characteristics of symptomatic periodontitis in the comorbid and multimorbid concept.

21. Principles of the peri-restorative complex in periodontology

Features of control of tissue stability of the periodontal biological system during tooth restoration. Priority of implementation of activities in the field of peri-restoration complex. Providing conditions for effective hygienic measures in the peri-restoration complex.

Pre-restoration preparation. Direct and indirect tooth root restoration. Professional preventive measures in the oral cavity at the stages of restoration.

22. Orthodontic measures in patients with periodontal diseases

The role of orthodontic measures in the complex treatment of patients with periodontal diseases. Features of orthodontic treatment in adult patients. Prognosis and planning of orthodontic treatment.

23. Plastic, resective, regenerative surgery in periodontology

23.1. Plastic surgery in periodontology

Methods and means of plastic surgery. Indications and contraindications for plastic surgery in periodontology. Treatment planning.

23.2. Resective, regenerative surgery in periodontology

Indications and contraindications, methods and means of resective, regenerative surgery in periodontology.

24. Dental implantation in periodontology

Comparative characteristics of anatomy, diagnosis of periodontal and peri-implant tissues.

Indications and contraindications for dental implantation. Treatment planning. The concept of mucositis and reimplantitis. Principles of maintenance therapy.

25. Aesthetics in periodontology

Aesthetic criteria in periodontology. Methods of therapeutic measures to improve the aesthetic condition of periodontal tissues.

26. Dentin sensitivity in patients with periodontal disease

Predisposing factors for dentin sensitivity. Classification of dentin sensitivity. Planning and treatment of dentin sensitivity in patients with periodontal disease.

Initial measures for eliminating dentin sensitivity. Clinical protocols for diagnosis and treatment of patients.

27. Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies

Features of planning orthopedic, orthodontic, implantological measures, cellular technologies in the complex treatment of patients with periodontal diseases.

The main directions of orthodontic measures in patients with periodontal diseases.

28. Digital technologies and artificial intelligence in periodontology

Digital modeling of dental arches, simplified analysis based on the evaluation of digitized data from patients with periodontal diseases.

ACADEMIC DISCIPLINE «CLINICAL PERIODONTOLOGY» CURRICULAR CHART

Section, topic #	Section title, topic	Number of classroom hours		Supervised student independent work	Literature	Practical skill	Forms of control	
		lectures	practical				of practical skill	of current / intermediate assessment
7th semester								
	Lectures	6	-	6				
3.	Diagnosis of periodontal diseases	1, 5	-	1, 5	1, 3-5, 9-11			Survey; tests
4.	Chronic gingivitis	1, 5	-	1, 5	1, 3-5, 9-11			Survey; tests
8.	Prognosis and treatment planning for patients with periodontal diseases	1, 5	-	-	1, 3-5, 9-11			Survey; tests
10.	Preparatory treatment of patients with periodontal diseases: hygiene measures	1, 5	-	1, 5	1, 3-5, 9-11			Survey; tests
15.	Maintenance therapy in patients with periodontal diseases	-	-	1,5	1, 4, 5 11			Survey; tests
	Practical classes	-	91	-				
1.	Biological basis and clinical and functional features of periodontal tissues	-	7	-	1-5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
2.	Periodontal tissues and their condition	-	7	-	1-5, 10, 11	Possession of communication skills when interacting with patients, observing medical	Performing practical skills during an outpatient appointment.	Survey, tests, review of additional literature,

						ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Completing a dental patient's educational medical record	filling out practical skills diaries
9.	Ergonomics	-	7	-	1, 3-5, 9-11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
3.1.	Periodontal examination stages for patients with periodontal disease. Primary visual characteristics of the periodontium	-	7	-	1-5, 10, 11	Conducting periodontal probing of a pathological periodontal pocket (determining bleeding, depth, subgingival calculus and the state of the periodontal attachment)	Visual assessment of skill performance	Survey, tests, review of additional literature, filling out practical skills diaries
3.2	Evaluation of the structural condition of the alveolar process and skeletal system. Detailed examination of periodontal tissues. Digital and AI technologies in the diagnosis of periodontal diseases	-	7	-	1-5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
3.3.	Functional methods for examining periodontal tissues. Laboratory diagnostics for periodontal diseases. Index diagnostics. Characteristics of research methods	-	7	-	1-5, 10, 11	Carrying out an assessment of the resistance of gingival capillaries (vacuum test for the resistance of gingival capillaries)	Visual assessment of skill performance	Survey, tests, review of additional literature, filling out practical skills diaries
4.1.	Chronic simple marginal gingivitis	-	7	-	1-5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting	Performing practical skills during an outpatient appointment. Completing a dental	Survey, tests, review of additional literature, filling out practical skills diaries

						documentation for patients with periodontal diseases	patient's educational medical record	
4.2.	Chronic ulcerative, hyperplastic, symptomatic gingivitis	-	7	-	1-5, 10, 11	Evaluation of the gum response to mechanical pressure (gum vasoparesis symptom)	Visual assessment of skill performance	Survey, tests, review of additional literature, filling out practical skills diaries
8.	Prognosis and treatment planning for patients with periodontal diseases	-	7	-	1, 3-5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
10.1.	Classification and characteristics of dental plaque. Motivation and instruction on oral care	-	7	-	1-5, 9-11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
10.2.	Professional removal of dental plaque using mechanical and combined methods	-	7	-	1-5, 9-11	Sharpening of periodontal instruments	Performing practical skills during an outpatient appointment / using simulation equipment	Survey, tests, review of additional literature, filling out practical skills diaries
15.	Maintenance therapy in patients with periodontal disease	-	7	-	1, 3-5, 9-11	Determining the patient's follow-up group	Visual assessment of skill performance	Survey, tests, review of additional literature, filling out practical skills diaries, control work*
16.	Prevention of periodontal diseases	-	7	-	1, 3-5, 9-11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation	Performing practical skills during an outpatient appointment.	Survey, tests, review of additional literature,

						of medical and reporting documentation for patients with periodontal diseases	Completing a dental patient's educational medical record	filling out practical skills diaries. Credit
8th semester								
	Lectures	6	-	6				
5.1.	Classification, mechanism of development, histopathology, diagnosis of chronic periodontitis	1,5	-	-	1, 3-5, 9-11			
13.	Endoperiodontitis: mechanism of development, clinical manifestations, treatment planning for patients	1,5	-	-	1, 4, 5 11			
14.	Rapidly Progressive Periodontitis. Predisposing factors for development	1,5	-	-	1, 4, 5 11			
7.	Acute inflammatory diseases of periodontal tissues	1,5	-	1,5	1, 4, 5 11			Survey; tests
12.	Propaedeutics of periodontal surgery	-	-	1,5	1, 4, 5 11			Survey; tests
5.2 5.3.	Differential diagnosis of chronic periodontitis. Clinical protocol for diagnosis and treatment of patients	-	-	1,5	1, 3-5, 9-11			Survey; tests
11.	Drug treatment of periodontal diseases	-	-	1,5	1, 4, 5 11			Survey; tests
	Practical classes	-	65	-				
5.1.	Classification, development mechanism, histopathology, microbiology, diagnostic methods of chronic periodontitis	-	7	-	1, 4, 5 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
5.2.	Clinical manifestations of forms, course, prevalence and severity of	-	7	-	1, 4, 5 10, 11	Possession of communication skills when interacting with	Performing practical skills during an	Survey, tests, review of additional literature,

	generalized periodontitis. Periodontal pocket					patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	outpatient appointment. Completing a dental patient's educational medical record	filling out practical skills diaries
5.3.	Differential diagnosis of chronic periodontitis. Clinical protocol for patient diagnosis and treatment	-	7	-	5, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment.	Survey, tests, review of additional literature, filling out practical skills diaries
17.	Specific features of the periodontal biological system in special patient categories: COVID-19 survivors, individuals with disabilities, athletes, and others	-	7	-	11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
13.	Endoperiodontitis: mechanism of development, clinical manifestations, patient treatment planning	-	7	-	4, 5, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
7.	Acute inflammatory diseases of periodontal tissues	-	6	-	1-5, 10, 11	Carrying out hygienic measures in patients with periodontal diseases to achieve $OHIS \leq 0.3-0.6$. Conducting periodontal probing of a pathological periodontal pocket. Applying a medicinal dressing to the gums	Visual assessment of skill performance Performing practical skills during an outpatient	Survey, tests, review of additional literature, filling out practical skills diaries

							appointment / using simulation equipment	
14.	Rapidly progressive periodontitis. Predisposing factors for development	-	6	-	1, 4, 5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
6.	Gum recession. Periodontal atrophy	-	6	-	1, 3-8, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment	Survey, tests, review of additional literature, filling out practical skills diaries
11.	Drug treatment of periodontal diseases	-	6	-	1, 4, 5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
12.	Propaedeutics of periodontal surgery	-	6	-	1, 4, 5, 10, 11	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries, control work*
	Total hours for the academic discipline	12	156	12				Examination

*This is a mandatory form of current certification.

ACADEMIC DISCIPLINE «COMPLEX PERIODONTOLOGY» CURRICULAR CHART

Section, topic #	Section title, topic	Number of classroom hours		Supervised student independent work	Literature	Practical skill	Forms of control	
		lectures	practical				of practical skills	of current / intermediate assessment
9th semester								
	Lectures	3		3				
18.	Endoperiodontitis: clinical protocol for patient diagnosis and treatment	1, 5	-	-	1, 12			
20.	The relationship between periodontal diseases and systemic diseases	-	-	1,5	1, 12			Survey; tests
21.	Principles of the peri-restorative complex in periodontology	-	-	1,5	1, 12			Survey; tests
25.	Aesthetics in periodontology	1, 5	-	-	1, 7, 12			
	Practical classes	-	42	-				
19.	Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
18.	Endoperiodontitis: clinical protocol for patient diagnosis and treatment	-	7	-	1, 12	Sampling periodontal pocket contents	Performing practical skills during an outpatient appointment/using simulation equipment	Survey, tests, review of additional literature, filling out practical skills diaries

20.	The relationship between periodontal diseases and systemic diseases	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
21.	Principles of the peri-restorative complex in periodontology	-	7	-	1, 8, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
26.	Dentin sensitivity in patients with periodontal disease	-	7	-	1, 12	Determination and interpretation of the Comprehensive Index of Differential Tooth Sensitivity (CIDS) in a patient with dentin sensitivity	Performing practical skills during an outpatient appointment	Survey, tests, review of additional literature, filling out practical skills diaries
25.	Aesthetics in periodontology	-	7	-	1, 7, 10, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries, control work*

10th semester								
	Lectures	3	-	-				
22.	Orthodontic measures in patients with periodontal diseases	1, 5	-	-	1, 6, 10, 12			
27.	Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies	1, 5	-	-	1, 12			
	Practical classes	-	49	-				
22.	Orthodontic measures in patients with periodontal diseases	-	7	-	1, 6, 10, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
27.	Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
27.	Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
28.	Digital technologies and artificial intelligence in periodontology	-	7	-	1, 12	Evaluation of diagnostic recommendations generated by artificial intelligence systems	Implementation of practical skills using a clinical example	Survey, tests, review of additional literature, filling out practical skills diaries

23.1.	Plastic surgery in periodontology	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries
23.2.	Resective, regenerative surgery in periodontology	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries, control work*
24.	Dental implantation in periodontology	-	7	-	1, 12	Possession of communication skills when interacting with patients, observing medical ethical principles. Preparation of medical and reporting documentation for patients with periodontal diseases	Performing practical skills during an outpatient appointment. Completing a dental patient's educational medical record	Survey, tests, review of additional literature, filling out practical skills diaries. Credit
	Total hours for the academic discipline	6	91	3				

*This is a mandatory form of current certification.

INFORMATION AND INSTRUCTIONAL UNIT

LITERATURE

Basic (relevant):

1. Newman and Carranza's clinical periodontology and implantology / Newman, Michael G. [et al.]; ed. by F. A. Carranza, H. H. Takei. – 14th ed. – St. Louis : Elsevier, 2024. – 1087 p.

Additional:

2. Therapeutic dentistry : textbook / O. O. Yanushevich, [et al.]. – Moscow : Geotar-Media, 2021. – 661 p.

3. Periodontal diseases 4th year : educational and methodological manual. – In 2 parts. Part 1 / L. N. Dedova et al. – Minsk : BSMU, 2015. – 162 p.

4. Periodontal diseases 4th year : educational and methodological manual. – In 2 parts. Part 2 / L. N. Dedova [et al.]. – Minsk : BSMU, 2015. – 151 p.

5. Clinical periodontology 4th year : educational and methodological manual / L. N. Dedova [et al.] – Minsk : BSMU, 2024. – 160 p.

6. Denisova, Yu. L. Orthodontic treatment of adult patients with periodontal diseases : educational and methodological manual – Minsk : BSMU, 2015. – 24 p.

7. Aesthetic Periodontology : educational and methodological manual / Yu. L. Denisova [et al.] – Minsk : BSMU, 2015. – 20 p.

8. Denisova, Yu. L. Restoration of dental hard tissues in patients with periodontal diseases : educational and methodological manual. – Minsk : BSMU, 2023. – 26 p.

9. Dedova, L. N. Preparatory treatment of patients with periodontal diseases : hygienic measures : educational and methodological manual. – Minsk : BSMU, 2026. – 55 p.

10. Clinical Periodontology / M. G. Newman [et al.]. – 13-th ed. – Saunders Elsevier, 2018. – 944 p.

Electronic courseware for the educational discipline «Clinical periodontology»

11. <https://etest.bsmu.by/course/view.php?id=1540>.

Electronic courseware for the educational discipline «Complex periodontology»

12. <https://etest.bsmu.by/course/view.php?id=1542>.

METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF STUDENT INDEPENDENT WORK IN THE ACADEMIC DISCIPLINE

The time allocated for independent work can be used by students to:

- preparation for lectures and practical classes;
- study of topics (questions) submitted for independent study;
- solving situational problems;
- completion of practical assignments;
- taking notes on educational literature;
- compiling a review of scientific literature on a given topic;
- compilation of a thematic selection of literary sources and Internet sources.

METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF SUPERVISED STUDENT INDEPENDENT WORK IN THE ACADEMIC DISCIPLINE

APPROXIMATE LIST OF TASKS FOR SUPERVISED STUDENT INDEPENDENT WORK:

taking notes from primary sources (collections of documents, monographs, educational publications, etc.).

FORMS OF CONTROL OF SUPERVISED STUDENT INDEPENDENT WORK:

survey;
tests.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms of current certification are used to diagnose competencies:

survey;
tests;
review of additional literature;
filling out educational medical records of dental patients;
filling out practical skills diaries;
control work.

LIST OF AVAILABLE TEACHING METHODS

Traditional method;
active (interactive) methods:
 training based on simulation technologies;
 Problem-Based Learning (PBL);
 Team-Based Learning (TBL);
 Case-Based Learning (CBL);
 Research-Based Learning (RBL).

LIST OF PRACTICAL SKILLS

Name of the practical skill	Practical skill assessment form
1. Possession of communication skills when interacting with patients, observing medical ethical principles	Performing practical skills during an outpatient appointment
2. Preparation of medical and reporting documentation for patients with periodontal diseases	Completing a dental patient's educational medical record
3. Evaluation of the gum response to mechanical pressure (gum vasoparesis symptom)	Visual assessment of skill performance
4. Carrying out an assessment of the resistance of gingival capillaries (vacuum test for the resistance of gingival capillaries)	Visual assessment of skill performance

Name of the practical skill	Practical skill assessment form
5. Conducting periodontal probing of a pathological periodontal pocket (determining bleeding, depth, subgingival calculus and the state of the periodontal attachment)	Visual assessment of skill performance
6. Carrying out hygienic measures in patients with periodontal diseases to achieve $\text{OHIS} \leq 0.3-0.6$	Visual assessment of skill performance
7. Applying a medicinal dressing to the gums	Performing practical skills during an outpatient appointment/using simulation equipment
8. Determining the patient's follow-up group	Visual assessment of skill performance
9. Determination and interpretation of the Comprehensive Index of Differential Tooth Sensitivity (CIDS) in a patient with dentin sensitivity	Performing practical skills during an outpatient appointment
10. Sampling periodontal pocket contents	Performing practical skills during an outpatient appointment/using simulation equipment
11. Sharpening of periodontal instruments	Performing practical skills during an outpatient appointment/using simulation equipment
12. Evaluation of diagnostic recommendations generated by artificial intelligence systems	Implementation of practical skills using a clinical example

LIST OF SIMULATION EQUIPMENT USED

Simulation equipment located at the department:

1. jaw model with periodontal pathology;
2. dental kit,
3. periodontal probe;
4. universal periodontal curettes;
5. gauze napkin; imitation ointment, powder and protective dressing.

List of SAC equipment:

1. jaw model with periodontal pathology;
2. dental kit;
3. periodontal probe;
4. universal periodontal curettes;
5. gauze napkin; imitation ointment, powder, protective dressing.

**PROTOCOL OF THE CURRICULUM APPROVAL
BY OTHER DEPARTMENTS**

Title of the discipline requiring approval	Department	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum
Conservative Dentistry	Conservative dentistry	No additions or changes	Protocol # 18 of 09.04.2026
Diseases of the Oral Mucosa	Conservative dentistry	No additions or changes	Protocol # 18 of 09.04.2026
Endodontics	Endodontics	No additions or changes	Protocol # 18 of 09.04.2026
Therapeutic Pediatric Dentistry	Pediatric dentistry	No additions or changes	Protocol # 18 of 09.04.2026
Oral and Maxillofacial Pediatric Surgery	Pediatric dentistry	No additions or changes	Protocol # 18 of 09.04.2026
Removable Dentures	Orthopedic dentistry and orthodontics	No additions or changes	Protocol # 18 of 09.04.2026
Maxillofacial Orthopedics and Orthopedic Dentistry	Orthopedic dentistry and orthodontics	No additions or changes	Protocol # 18 of 09.04.2026
Orthodontics	Orthopedic dentistry and orthodontics	No additions or changes	Protocol # 18 of 09.04.2026
Maxillofacial Surgery and Outpatient Maxillofacial Surgery	Maxillofacial Surgery and facial plastic surgery with a course for advanced training and retraining	No additions or changes	Protocol # 18 of 09.04.2026

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 L.N.Dedova

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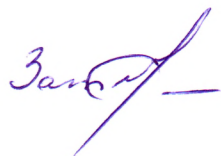
 Yu. L.Denisova

Curriculum content, composition and the accompanying documents comply with the established requirements.

Head of the Office of Educational Activities of the Educational Institution «Belarusian State Medical University»

 I.L.Kotovich

Methodologist of the Educational and Methodological Department of the Office of Educational Activities of the Educational Institution «Belarusian State Medical University»

 S.V.Zaturanova