

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

APPROVED

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

S.P. Rubnikovich

15.11.2023

Reg. # UD- h. 07-16/2324 /edu.

Контрольный
экземпляр

PERIODONTOLOGY

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

1-79 01 07 «Dentistry»

Curriculum is based on the educational program «Periodontology», approved 17.05.2023, registration # УД-L.07-16/2324/уч.; on the educational plan in the specialty 1-79 01 07 «Dentistry», approved 17.05.2022, registration # L.79-1-004/ep/mf/C.

COMPILERS:

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RECOMMENDED FOR APPROVAL:

Department of Periodontology of the Educational Institution «Belarusian State Medical University»
(protocol # 16 of 27.04.2023);

by the Scientific and Methodological Council of the Educational Institution «Belarusian State Medical University»
(protocol # 11 of 15.11.2023)

EXPLANATORY NOTE

«Periodontology» is a module that includes the educational 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 purpose of the «Periodontology» module is the formation of specialized competencies, the basis of which is the ability to independently search for educational and information resources, mastery of the knowledge necessary for examining patients, diagnosis, treatment and comprehensive periodontal care for patients with periodontal diseases, carrying out preventive measures in periodontology, developing skills and clinical reasoning skills.

The objectives of the module «Periodontology» are to develop students' scientific knowledge about periodontal biology, the concept of development and classification of periodontal diseases, stages and methods of examining patients, risk factors, the mechanism of development and clinical manifestations of periodontal diseases, complex treatment using orthopedic, orthodontic, physiotherapeutic, surgical interventions and other methods, including cellular technologies, skills and abilities necessary for:

- examinations of patients in periodontology;
- diagnosis of periodontal diseases
- interpretation of the results of laboratory, functional and other additional examination methods;
- planning and carrying out complex treatment of patients with periodontal diseases;
- conducting maintenance therapy in periodontology;
- planning periodontal care for special categories of patients.

The knowledge, skills and abilities acquired during the study of the module «Periodontology» are necessary for the successful study of the 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», «Dental Public Health».

A student who has mastered the content of the educational material of the «Periodontology» module must have the following specialized competence: 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; determine the final comprehensive plan for dental treatment and prevention of periodontal disease in adults in collaboration with specialists from various 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 periodontal condition;
 classification of periodontal diseases;
 mechanism of development, clinical picture of periodontal diseases;
 stages of examination and treatment planning for periodontal diseases;
 treatment protocols for patients with periodontal diseases;
 indications and contraindications for the use of drugs;
 methods and means of complex periodontology, including physiotherapeutic, surgical and other methods of treating periodontal diseases;
 methods of preventing periodontal diseases;
 medical documentation of the dental office, department, clinic;
 modern directions of scientific research in the field of periodontology in the Republic of Belarus and abroad;

be able to:

create mutual understanding with the patient, observing medical ethical principles in communication and actions;
 organize the dentist's workplace taking into account ergonomics;
 monitor the periodontal biological system;
 assess risk factors for periodontal disease;
 examine a patient with periodontal disease;
 interpret the results of clinical, laboratory, functional, radiation and other examination methods in periodontology;
 justify the diagnosis of periodontal disease;
 apply treatment protocols for patients with periodontal disease;
 argue for the use of medicines, 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;

master:

methods of physical examination in periodontology;
 periodontal index diagnostics;
 planning and carrying out complex treatment of periodontal diseases;
 methods of preparatory treatment;
 integration methods of periodontology with other components of the patient treatment plan (restorative and endodontic dental treatment, orthodontics, orthopedics, surgery, etc.).

In total, 444 academic hours are allocated for studying the academic discipline. Classroom hours according to the types of studies: lectures - 32 hours, practical classes - 247 hours, student independent work (self-study) - 165 hours.

Intermediate assessment in the academic discipline «Clinical Periodontology» is carried out in accordance with the curriculum for the specialty in the form of a credit (semester 7) and exam (semester 8).

Intermediate assessment in the academic discipline «Complex Periodontology» is carried out in accordance with the curriculum for the specialty in the form of a credit (semester 10).

Form of education – full-time.

ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name of the specialty	semester	Number of academic hours					Academic disciplines of the module	Form of intermediate assessment
		total	in-class	из них		out-of-class self-studies		
				lectures	practical classes			
1-79 01 07 «Dentistry»	7	158	102	12	90	56	Clinical periodontology	credit
	8	138	78	12	66	60	Clinical periodontology	exam
	9	74	50	8	42	24	Complex periodontology	-
	10	74	49	-	49	25	Complex periodontology	credit

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

Section (topic) name	Number of class hours	
	lectures	practical
Academic discipline «Clinical periodontology»		
1. Basics of periodontal biology	2,66	6
1.1. The structure of periodontal tissues, terminology in periodontology. Factors influencing periodontal condition	1,33	6
1.2. Dynamics of the periodontal biological system. Concepts of the development of periodontal diseases	1,33	
2. Periodontal tissues, determination of their condition. Characteristics of healthy periodontium. Classification of periodontal diseases	1,33	12
3. Ergonomics. Principles of ergonomics. Ergonomic requirements in the process of performing periodontal manipulations	-	6
4. Diagnosis of periodontal diseases	2,66	24
4.1. Stages of examination. Primary visual characteristics of periodontium. Radiation diagnostics in periodontology	1,33	6
4.2. Detailed examination of periodontal tissues. Functional methods for studying periodontal tissues		6
4.3. Laboratory diagnosis of periodontal diseases	1,33	6
4.4. Index diagnostics. Characteristics of research methods		6
5. Chronic gingivitis	2,66	18
5.1. Chronic simple marginal gingivitis	1,33	6
5.2. Chronic gingivitis, ulcerative, hyperplastic, symptomatic	1,33	12
6. Chronic periodontitis. Development mechanism. Clinical manifestations of generalized periodontitis	2,66	18
7. Occlusal periodontal trauma. Development mechanism. Clinical picture. Occlusion therapy methods	1,33	6
8. Gum recession. Periodontal atrophy. Clinical picture, diagnosis of gum recession and periodontal atrophy. Treatment of gum recession using cellular technologic	1,33	6
9. Acute inflammatory diseases of periodontal tissues	1,33	12
9.1. Acute ulcerative gingivitis. Clinical manifestations, diagnosis, treatment methods	1,33	6
9.2. Acute periodontal abscess. Clinical manifestations, diagnosis, treatment methods		6
10. Prognosis and treatment planning for patients with periodontal disease	1,33	6
11. Preparatory treatment of patients with periodontal diseases: hygienic measures	2,66	24

Section (topic) name	Number of class hours	
	lectures	practical
11.1. Classification of dental deposits and their characteristics. Motivation and instruction in oral care	2,66	6
11.2. Professional mechanical removal of dental plaque		6
11.3. Professional removal of dental plaque using devices and chemicals		12
12. Medication treatment of periodontal diseases	1,33	6
13. Propaedeutics of periodontal surgery	1,33	6
14. Prevention of periodontal diseases. Oral hygiene products and methods	-	6
15. Maintenance therapy in patients with periodontal disease. Principles of maintenance therapy. Sequence of treatment and preventive measures	1,33	6
Total	24	156
Academic discipline «Complex periodontology»		
1. Principles of the peri-restorative complex in periodontology	1,33	7
1.1. Monitoring the clinical condition of the surroundings of the root and crown of the tooth being restored in the dynamics of the periodontal biological system	1,33	2
1.2. Stages of tooth shape restoration in patients with periodontal diseases		5
2. Endoperiodontitis. Mechanism of development, clinical manifestations. Complex treatment planning	1,33	7
3. Aesthetics in periodontology. Methods of therapeutic measures to improve the aesthetic condition of periodontal tissues	1,33	7
4. Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies	1,33	7
5. Orthodontic measures in patients with periodontal diseases	-	7
6. Plastic, resective, regenerative surgery in periodontology	1,33	14
6.1. Plastic surgery in periodontology	1,33	7
6.2. Resective, regenerative surgery in periodontology		7
7. Dental implantation in periodontology	-	7
7.1. Peri-implant tissues: anatomical and functional characteristics, their condition before and after orthopedic treatment	-	2
7.2. Methods and means of dental implantation. Errors and complications during dental implantation. Maintenance	-	5

Section (topic) name	Number of class hours	
	lectures	practical
therapy		
8. Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning	1,33	7
9. The relationship between periodontal diseases and systemic diseases	-	7
10. Physiotherapy of periodontal diseases	-	7
11. Planning periodontal care for special categories of patients: after infection caused by Covid-19, pregnant women, disabled people, athletes	-	7
11.1. Features of the biological periodontal system in pregnant women	-	2
11.2. Features of therapeutic and diagnostic measures in patients with periodontal diseases who have had Covid-19	-	3
11.3. Features of periodontal care for disabled people, athletes and other categories of patients	-	2
12. Dentin sensitivity in patients with periodontal disease	-	7
12.1. Clinical picture, diagnosis of dentin sensitivity	-	3
12.2. Treatment methods for dentin sensitivity	-	4
Total	8	91

CONTENT OF THE EDUCATION MATERIAL

ACADEMIC DISCIPLINE «CLINICAL PERIODONTOLOGY»

1. Basics of periodontal biology

1.1. The structure of periodontal tissues, terminology in periodontology. Factors influencing periodontal condition

Features of the structure of the periodontium, gums, oral epithelium, sulcus epithelium, attachment epithelium, gingival sulcus, alveolar bone, interdental septum, cement, as well as the condition of the gingival fluid. Features of the influence of factors: microbial plaque, heterogeneous, occlusion, diet, psychosomatic state, systemic, habits, sugar, decreased physical activity.

1.2. Dynamics of the periodontal biological system. Concepts of the development of periodontal diseases

Features of homeostasis of healthy periodontal tissues. Barriers to tissue resistance: anatomy and physiology of the dentofacial system, saliva, epithelial attachment, local inflammatory response, microcirculation, innervation. Microorganisms of the oral cavity and their metabolic products. Endogenous agents. General risk factors. Theoretical concepts: vascular, neurodynamic, nonspecific development, autoimmune development, inflammatory-destructive development, cytokine theory.

2. Periodontal tissues, determination of their condition. Characteristics of healthy periodontium. Classification of periodontal diseases

Anatomy, physiology and clinical and functional features of periodontium. Features of vascularization and innervation of healthy periodontium. Saliva, its significance in the biological system of the periodontium. The influence of aging on the progression of periodontal diseases. Characteristics of classifications of periodontal diseases.

3. Ergonomics. Principles of ergonomics. Ergonomic requirements in the process of performing periodontal manipulations

The purpose and principles of ergonomics in periodontology. Ergonomic features of organizing a dentist's workplace. Position of the patient in the dental chair. Ergonomic posture when performing periodontal manipulations. Help from a qualified assistant.

4. Diagnosis of periodontal diseases

4.1. Stages of examination. Primary visual characteristics of periodontium. Radiation diagnostics in periodontology

First stage: getting to know the patient, anamnesis of somatic diseases, life history, complaints, determining the status of the oral cavity. Features of the primary visual characteristics of the periodontium. Methods and main criteria for radiological diagnostics. Preliminary diagnosis. Second stage: features of a detailed study of periodontal tissues.

4.2. Detailed examination of periodontal tissues. Functional methods for studying periodontal tissues

Detailed study of supra- and subgingival deposits, the level of gum involvement in the pathological process. Clinical research methods characterizing destructive processes in periodontal tissues. Types of periodontal pockets, their characteristics. Methods of functional diagnostics, their characteristics.

4.3. Laboratory diagnostics for periodontal diseases

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

4.4. Index diagnostics. Characteristics of research methods

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

5. Chronic gingivitis

5.1. Chronic simple marginal gingivitis

Mechanism of development, diagnosis, clinical picture, clinical protocols.

5.2. Chronic gingivitis, ulcerative, hyperplastic, symptomatic

Mechanism of development, diagnosis, clinical picture. The influence of endocrine discoordination on microorganisms and tissue barriers of the biological periodontal system in pregnant women.

6. Chronic periodontitis. Development mechanism. Clinical manifestations of generalized periodontitis

Clinical picture of chronic simple and complex periodontitis. Diagnostics. The mechanism of development of pathological periodontal pockets. Alveolar bone

changes. Basic clinical criteria in the diagnosis of chronic gingivitis and periodontitis. Clinical protocols.

7. Occlusal periodontal trauma. Development mechanism. Clinical picture. Occlusion therapy methods

Clinical picture of primary and secondary occlusal trauma. Condition of the alveolar bone. Orthodontic, orthopedic events.

8. Gum recession. Periodontal atrophy. Clinical picture, diagnosis of gum recession and periodontal atrophy. Treatment of gum recession using cellular technologies

Determination of gum recession. Classification. Risk factors in the development of gum recession. Clinical picture, diagnosis, treatment of gum recession. Clinical protocols.

9. Acute inflammatory diseases of periodontal tissues

9.1. Acute ulcerative gingivitis. Clinical manifestations, diagnosis, treatment methods

Microbiology. Risk factors. Clinical manifestations, diagnosis. Emergency medical care.

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

Microbiology. Factors causing periodontal abscess. Clinical picture, diagnosis. Emergency medical care.

10. Prognosis and treatment planning for patients with periodontal disease

Types of forecast, meaning. Factors that determine prognosis. Stages of treatment planning, their characteristics.

11. Preparatory treatment of patients with periodontal diseases: hygienic measures

11.1. Classification of dental deposits and their characteristics. Motivation and instruction in oral care

Classification of dental deposits and their characteristics. Features of patient motivation. The main stages of acquiring healthy habits in patients with periodontal disease. Oral care instructions.

11.2. Professional mechanical removal of dental plaque

Features of removing dental plaque. Stages, methods and means of professional mechanical removal of dental plaque. Classification of tools for scaling and root smoothing.

11.3. Professional removal of dental plaque using devices and chemicals

Methods for removing dental plaque using devices and chemicals. Features of sound, laser, hydroaerosol, ultrasonic, chemical methods of removing dental plaque. Clinical protocols.

12. Medication treatment of periodontal disease

Principles of drug therapy in periodontology. Forms and methods of using drugs in periodontology. Errors and complications when using medications.

13. Propaedeutics of periodontal surgery

History of the development of periodontal surgery. Indications and contraindications for periodontal surgery. Features of diagnosis and treatment plan. Means of periodontal surgery.

14. Prevention of periodontal diseases. Oral hygiene products and methods

Prevention methods. Means and methods of oral hygiene. Features of hygienic measures during the period of complex treatment.

15. Maintenance therapy in patients with periodontal diseases. Principles of maintenance therapy. Sequence of treatment and preventive measures

Principles of maintenance therapy. Sequence of therapeutic and diagnostic measures. The effectiveness of maintenance therapy.

ACADEMIC DISCIPLINE «COMPLEX PERIODONTOLOGY»**1. Principles of the peri-restorative complex in periodontology****1.1. Monitoring the clinical condition of the surroundings of the root and crown of the tooth being restored in the dynamics of the periodontal biological system**

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.

1.2. Stages of tooth shape restoration in patients with periodontal diseases

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

2. Endoperiodontitis. Mechanism of development, clinical manifestations. Complex treatment planning

Morphofunctional characteristics of endoperiodontium. Unfavorable factors leading to endoperiodontitis. Classification. Clinical manifestations, diagnosis and treatment of simple, complex, symptomatic endoperiodontitis. Clinical protocols.

3. Aesthetics in periodontology. Methods of therapeutic measures to improve the aesthetic condition of periodontal tissues

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

4. 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.

5. 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.

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

6. Plastic, resective, regenerative surgery in periodontology

6.1. Plastic surgery in periodontology

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

6.2. Resective, regenerative surgery in periodontology

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

7. Dental implantation in periodontology

7.1. Peri-implant tissues: anatomical and functional characteristics, their condition before and after orthopedic treatment

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

7.2. Methods and means of dental implantation. Errors and complications during dental implantation. Maintenance therapy

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

8. Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning

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

9. The 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.

10. Physiotherapy of periodontal diseases

Principles of physiotherapeutic treatment of periodontal diseases. Methods and means.

11. Planning periodontal care for special categories of patients: after infection caused by Covid-19, pregnant women, disabled people, athletes

11.1. Features of the biological periodontal system in pregnant women

Characteristics of microflora, microcirculation, changes in collagen synthesis of the periodontal biological system.

11.2. Features of therapeutic and diagnostic measures in patients with periodontal diseases who have had Covid-19

Basic and additional methods of diagnosis and treatment.

11.3. Features of periodontal care for disabled people, athletes and other categories of patients

Principles and sequence of diagnostic and treatment measures.

12. Dentin sensitivity in patients with periodontal disease

12.1. Clinical picture, diagnosis of dentin sensitivity

Predisposing factors to dentin sensitivity. Classification. Survey plan.

12.2. Treatment methods for dentin sensitivity

Initial measures to eliminate dentin sensitivity. Clinical protocols.

EDUCATIONAL AND METHODOLOGICAL MODULE CARD «PERIODONTOLOGY»

Section, topic #	Section (topic) name	Number of academic hours		Self-studies	Form of control
		Lectures	practical		
Academic discipline «Clinical Periodontology»					
7 semester					
1.	Basics of periodontal biology	2,66	6		
1.1.	The structure of periodontal tissues, terminology in periodontology. Factors influencing periodontal condition	1,33	6	4	Interview, electronic tests, abstracting of additional literature
1.2.	Dynamics of the periodontal biological system. Concepts of the development of periodontal diseases	1,33			
2.	Periodontal tissues, determination of their condition. Characteristics of healthy periodontium. Classification of periodontal diseases	1,33	12	8	Interview, electronic tests, abstracting of additional literature
	Periodontal tissues. Criteria and means for determining the normal state of periodontal tissues		6	4	Interview, electronic tests, demonstration of practical skills, reviewing additional literature
	Classification of periodontal diseases: gingivitis, periodontitis, endoperiodontitis, gum recession, periodontal atrophy, gingival hypertrophy	1,33	6	4	Interview, electronic tests, abstracting of additional literature
3.	Ergonomics. Principles of ergonomics. Ergonomic requirements in the process of performing periodontal manipulations	-	6	4	Interview, electronic tests, demonstration of practical skills, reviewing additional literature
4.	Diagnosis of periodontal diseases	2,66	24	14	
4.1.	Stages of examination Primary visual characteristics of the periodontium. Radiation diagnostics in periodontology	1,33	6	2	Interview, electronic tests, demonstration of practical skills, reviewing additional literature

Section, topic #	Section (topic) name	Number of academic hours		Self-studies	Form of control
		Lectures	practical		
4.2.	Detailed examination of periodontal tissues. Functional methods for studying periodontal tissues		6	4	Interview, electronic demonstration of practical tests, skills, reviewing additional literature
4.3	Laboratory diagnostics for periodontal diseases		6	4	Interview, electronic demonstration of practical tests, skills, reviewing additional literature
4.4.	Index diagnostics. Characteristics of research methods	1, 3, 3	6	4	Interview, electronic demonstration of practical tests, skills, reviewing additional literature
5.	Chronic gingivitis	2, 6, 6	18	11	
5.1.	Chronic simple marginal gingivitis. Development mechanism. Clinical picture, treatment	1, 3, 3	6	3	Interview, electronic demonstration of practical tests, skills, solving clinical problems, reviewing additional literature
5.2.	Chronic ulcerative gingivitis Development mechanism. Clinical picture. Treatment		6	4	Interview, electronic demonstration of practical tests, skills, solving clinical problems, reviewing additional literature
	Chronic hyperplastic, symptomatic gingivitis. Development mechanism. Clinical picture. Treatment	1, 3, 3	6	4	Interview, electronic demonstration of practical tests, skills, solving clinical problems, reviewing additional literature
6	Chronic periodontitis. Development mechanism. Clinical manifestations of generalized periodontitis	2, 6, 6	18	10	

Section, topic #	Section (topic) name	Number of academic hours		Self-studies	Form of control
		lectures	practical		
	Development mechanism. Clinical manifestation of forms, course, prevalence, severity of chronic periodontitis	1,33	6	5	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
	Differential diagnosis of chronic periodontitis		6	2	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
	Periodontal pocket. Classification, development mechanism, histopathology, microbiology, diagnostic methods	1,33	6	3	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
7	Gum recession. Periodontal atrophy. Clinical picture, diagnosis of gum recession and periodontal atrophy. Treatment of gum recession using cellular technologies	-	6	5	Interview, electronic tests, demonstration of practical skills, reviewing additional literature. Credit
8 semester					
7	Occlusal periodontal trauma. Development mechanism. Clinical picture. Occlusion therapy methods	1,33	6	5	Interview, electronic tests, demonstration of practical skills, reviewing additional literature
8	Gum recession. Periodontal atrophy. Clinical picture, diagnosis of gum recession and periodontal atrophy. Treatment of gum recession using cellular technologies	1,33	6	4	Interview, electronic tests, demonstration of practical skills, reviewing additional literature
9	Acute inflammatory diseases of periodontal tissues	1,33	12	10	

Section, topic #	Section (topic) name	Number of academic hours		Self-studies	Form of control
		lectures	practical		
9.1	Acute ulcerative gingivitis. Clinical picture, diagnosis, treatment methods		6	5	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
9.2	Acute periodontal abscess. Clinical picture, diagnosis, treatment methods	1,33	6	5	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
10.	Prognosis and treatment planning for patients with periodontal disease	1,33	6	5	Interview, tests, solving clinical problems, reviewing additional literature
11.	Preparatory treatment of patients with periodontal diseases: hygienic measures	2,66	24	20	
11.1	Classification, characteristics and diagnosis of dental plaque. Motivation and instruction in oral care		6	5	Interview, electronic tests, reviewing additional literature
11.2	Professional mechanical removal of dental plaque	1,33	6	5	Interview, electronic tests, demonstration of practical skills, solving clinical problems
11.3	Professional removal of dental plaque using devices and chemicals	1,33	6	5	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature

Section, topic #	Section (topic) name	Number of academic hours		Self-studies	Form of control
		lectures	practical		
11.3	Professional removal of dental plaque using a combined method	-	6	5	Interview, electronic tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
12.	Medication treatment of periodontal diseases	1,33	6	5	Interview, electronic tests, reviewing additional literature
13.	Propaedeutics of periodontal surgery	1,33	6	5	Interview, electronic tests, demonstration of practical skills, reviewing additional literature
14.	Prevention of periodontal diseases. Oral hygiene products and methods	-	6	5	Interview, electronic tests, solving clinical problems, reviewing additional literature
15.	Maintenance therapy in patients with periodontal disease. Principles of maintenance therapy. Sequence of treatment and preventive measures	1,33	6	6	Interview, electronic tests, abstracting of additional literature, demonstration of practical skills. Protection of medical history. OSCE. Exam
		24	156	116	

Code, name of the specialty	Section (topic) name	Number of academic hours		Individual work for students	Form of control
		lectures	practical		
Academic discipline «Complex periodontology»					
9 semester					
1.	Principles of the peri-restorative complex in periodontology	1,33	7	6	
1.1	Monitoring the clinical condition of the surroundings of the root and crown of the tooth being restored in the dynamics of the periodontal biological system	1,33	2	6	Interview, electronic tests, demonstration of practical skills, reviewing additional literature
1.2	Stages of tooth shape restoration in patients with periodontal diseases		5		
2.	Endoperiodontitis. Mechanism of development, clinical manifestations. Complex treatment planning	1,33	7	4	Interview, tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
3.	Aesthetics in periodontology. Methods of therapeutic measures to improve the aesthetic condition of periodontal tissues	1,33	7	4	Interview, electronic tests, reviewing of additional literature
4.	Planning complex treatment of patients with periodontal diseases using orthopedic, orthodontic, implantological measures, cellular technologies	1,33	7	4	Interview, tests, demonstration of practical skills, solving clinical problems, reviewing additional literature
5	Orthodontic measures in patients with periodontal diseases	-	7	4	

Code, name of the specialty	Section (topic) name	Number of academic hours		Individual work for students	Form of control
		lectures	practical		
6.	Plastic, resective, regenerative surgery in periodontology	1,33	7	4	
6.1	Plastic surgery in periodontology	1,33	7	2	Interview, electronic tests, reviewing literature
8.	Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning	1,33	-		
10 cemectp					
6.2.	Resective, regenerative surgery in periodontology	-	7	2	Interview, electronic tests, reviewing of additional literature
7.	Dental implantation in periodontology	-	7	4	
7.1	Peri-implant tissues: anatomical and functional characteristics, their condition before and after orthopedic treatment	-	2		Interview, electronic tests, reviewing of additional literature
7.2.	Methods and means of dental implantation. Errors and complications during dental implantation. Maintenance therapy	-	5	4	
8.	Rapidly progressive periodontitis. Diagnosis, clinical picture, treatment planning	-	7	3	Interview, electronic tests, solving clinical problems, reviewing additional literature
9.	The relationship between periodontal diseases and systemic diseases	-	7	2	Interview, electronic tests, solving clinical problems, reviewing additional literature
10.	Physiotherapy of periodontal diseases	-	7	4	Interview, electronic tests, solving

Code, name of the specialty	Section (topic) name	Number of academic hours		Individual work for students	Form of control
		Lectures	Practical		
					clinical problems, reviewing additional literature
11.	Planning periodontal care for special categories of patients: after infection caused by Covid-19, pregnant women, disabled people, athletes	-	7	3	
11.1	Features of the biological periodontal system in pregnant women	-	2		Interview, electronic tests, reviewing of additional literature
11.2	Features of therapeutic and diagnostic measures in patients with periodontal diseases who have had Covid-19	-	3	3	
11.3	Features of periodontal care for disabled people, athletes and other categories of patients	-	2		
12.	Dentin sensitivity in patients with periodontal disease	-	7	7	
12.1	Clinical picture, diagnosis of dentin sensitivity	-	3		Interview, electronic tests, demonstration of practical skills,
12.2	Treatment methods for dentin sensitivity	-	4	7	solving clinical problems, reviewing additional literature. Credit
	Total	8	91	49	

INFORMATION AND INSTRUCTIONAL UNIT

LITERATURE

Basic (relevant):

1. Newman and Carranza's clinical periodontology and implantology / Newman, Michael G. [и др.]; ed. by F. A. Carranza, H. H. Takei. - 14th ed. - St. Louis : Elsevier, 2024. - 1087 p. = Клиническая пародонтология и имплантология Ньюмана и Каррансы.

2. Therapeutic dentistry : textbook / Yanushevich, Oleg Olegovich [и др.]. - Moscow : Geotar-Media, 2021. - 661 p. = Терапевтическая стоматология.

3. Periodontal and oral mucosa diseases : textbook. In 2 vol. Vol. 2 / A. V. Borysenko [и др.]; ed. by A. V. Borysenko. - Kyiv : AUS Medicine Publishing, 2018. - 624 p. = Заболевания пародонта и слизистой оболочки полости рта.

4. Dental caries. Pulpitis. Apical periodontitis / A. V. Borysenko [и др.]; ed. by A. V. Borysenko. - Киев: Книга-плюс, 2020. - 579 p. = Дентальный кариес. Пульпит. Верхушечный периодонтит.

Additional:

5. Болезни пародонта 4 курс = Periodontal diseases 4th year: учеб.-метод. пособие. В 2 частях. Часть 1. / Л. Н. Дедова и др. – Минск: БГМУ, 2015.- 162 с.

6. Болезни пародонта 4 курс = Periodontal diseases 4th year: учеб.-метод. пособие. В 2 частях. Часть 2. / Л. Н. Дедова и др. – Минск: БГМУ, 2015.- 151 с.

7. Денисова, Ю. Л. Особенности ортодонтического лечения взрослых с патологией пародонта = Orthodontic treatment of adult patients with periodontal diseases: учеб.-метод. пособие .- Минск: БГМУ, 2015.- 24 с.

8. Эстетическая пародонтология = Aesthetic Periodontology : учеб.-метод. пособие / Ю. Л. Денисова и др. – Минск: БГМУ, 2015. - 20 с.

9. Денисова, Ю.Л. Реставрация твердых тканей зубов у пациентов с болезнями пародонта = Restoration of dental hard tissues in patients with periodontal diseases: учеб.-метод. пособие. – Минск: БГМУ, 2023. – 26 с.

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

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 (issues) submitted for independent study;
- problem solving;
- performing research and creative tasks;
- preparation of thematic reports, abstracts, presentations;
- performing practical tasks;
- taking notes of educational literature;
- preparation of reports;
- compiling a review of scientific literature on a given topic;

design of information and demonstration materials (stands, posters, graphs, tables, newspapers, etc.);
 compiling a thematic selection of literary sources and Internet sources;
 compiling tests for students to organize mutual control.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms are used to diagnose competencies:

Oral form:

interview;
 demonstration of practical skill;
 reviewing additional literature.

Written form:

tests;
 abstracting of additional literature.

Oral and written form:

solving clinical problems;
 protection of medical history;
 credit;
 exam.

Technical form:

electronic tests.

Simulation form:

objective structured clinical examination.

LIST OF AVAILABLE TEACHING METHODS

Linear (traditional) method (lecture, practical exercises);
 active (interactive) methods:

problem-based learning PBL (Problem-Based Learning);
 case-based learning CBL (Case-Based Learning);
 research-based learning RBL (Research-Based Learning);
 training based on simulation technologies.

LIST OF PASSPORTS (EXAMPLE) OF EXAMINATION STATIONS OF AN OBJECTIVE STRUCTURED CLINICAL EXAMINATION USED FOR CERTIFICATION OF STUDENTS

Passport (approximate) of the examination station «Periodontology» of the objective structured clinical examination (OSCE), approved 28.06.2022, registration # ПЭС/2022.

LIST OF PRACTICAL SKILLS

1. Possession of communication skills when interacting with a patient, observing medical ethical principles.
2. Preparation of medical documentation established at the appointment of patients with periodontal diseases.
3. Drawing up a plan for examining a patient with periodontal disease.
4. Use of mandatory and additional diagnostic methods provided for by clinical protocols
5. Carrying out clinical and radiological characteristics of gingivitis, periodontitis, endoperiodontitis, gum recession, periodontal atrophy.
6. Carrying out periodontal probing of the pathological periodontal pocket.
7. Making a diagnosis of «gingivitis», «periodontitis», «endoperiodontitis», «gingival recession» in accordance with the classification provided by clinical protocols.
8. Drawing up a treatment plan for a patient with periodontal disease.
9. Carrying out hygienic measures in patients with periodontal diseases up to OHI-S indicators $\leq 0.3-0.6$.
10. Re-evaluation of periodontal tissues.
11. Determination of indications and contraindications for medication therapy in accordance with clinical protocols for patients with periodontal diseases
12. Application of a therapeutic bandage for periodontal diseases.
13. Determination of indications and contraindications for physiotherapeutic treatment.
14. Determination of indications and contraindications for surgical interventions in patients with periodontal diseases.
15. Determination of indications and contraindications for orthodontic measures in patients with periodontal diseases.
16. Determination of indications and contraindications for orthopedic measures in patients with periodontal diseases.
17. Determination of indications for the use of a biomedical cell product based on cultured autologous mesenchymal stem cells of adipose tissue induced to differentiate in the osteogenic direction.
18. Planning periodontal care for special categories of patients: after infection caused by Covid-19, pregnant women, disabled people, athletes.
19. Assessing the peri-restorative complex in patients with periodontal diseases.
20. Determination of the patient's dynamic observation group.
21. Use of evaluation criteria for the effectiveness of maintenance therapy.
22. Determination and interpretation of the complex index of differentiated tooth sensitivity (CIDTS) in a patient with dentin sensitivity.

COMPILERS:

Head of the Department of Periodontology
of the Educational Institution «Belarusian
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Professor

L.N.Dedova

Professor of the Department of
Periodontology of the Educational
Institution «Belarusian State Medical
University», PhD, DSc, Professor

Yu.L.Denisova

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

Dean of the Medical Faculty for
International Students of the educational
institution «Belarusian State Medical
University»

13. 11. 2023

O.S.Ishutin

Methodologist of the educational institution
«Belarusian State Medical University»

13. 11. 2023

S.V.Zaturanova