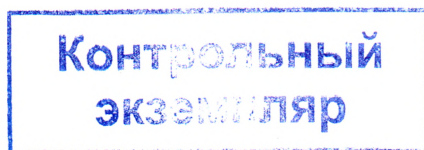


MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
Educational Institution
«BELARUSIAN STATE MEDICAL UNIVERSITY»



APPROVED
by Rector of the Educational Institution «Belarusian State Medical University»
S.P. Rubnikovich
01.12.2025
Reg. # UD- 0911-03-31/2526/edu.

THERAPEUTIC PEDIATRIC DENTISTRY

**Curriculum of the educational institution
in the academic discipline for the specialty**

7-07-0911-03 «Dentistry»

Curriculum is based on the educational program «Therapeutic Pediatric Dentistry», approved 01.12.2025, registration # УД-0911-03-31/2526/уч.; on the educational plan in the specialty 7-07-0911-03 «Dentistry», approved 16.04.2025, registration # 7-07-0911-03/2526/mf.

COMPILERS:

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RECOMMENDED FOR APPROVAL:

by the Department of Pediatric Dentistry of the Educational Institution «Belarusian State Medical University»

(protocol # 4 of 26.09.2025);

by the Scientific and Methodological Council of the Educational Institution «Belarusian State Medical University»

(protocol #3 of 19.11.2025)

EXPLANATORY NOTE

«Therapeutic Pediatric Dentistry» – the academic discipline of the module «Pediatric Dentistry», which contains systematized scientific knowledge about methods of treatment, medical prevention and diagnosis of dental diseases in children.

The aim of the academic discipline «Therapeutic Pediatric Dentistry» is the formation of specialized competencies for solving problems of professional activity in the field of prevention and treatment of main oral diseases in children, in the acquisition by students of the latest scientific knowledge about the patterns of growth and development of teeth, periodontium and the features of the development of main oral diseases at different age periods.

The objectives of the academic discipline «Therapeutic Pediatric Dentistry» are to form students' scientific knowledge about:

- etiology, pathogenesis, clinical manifestations of dental diseases in childhood;
- modern methods of diagnosis of main dental diseases in childhood;
- modern methods of prevention and treatment of dental diseases in children;
- behavioral reaction of children at a dental appointment;
- ways to minimize pain during therapeutic treatment of dental caries and its complications;
- clinical manifestations of viral and bacterial diseases in the oral cavity in children;
- traumatic dental injuries in children.
- skills and abilities necessary for:
- comprehensive examination of pediatric patients;
- interpretation of results of additional methods of examination;
- making a diagnosis;
- provision of comprehensive dental care.

Relations to other educational disciplines

The knowledge, skills and abilities acquired during the study of the academic discipline «Therapeutic Pediatric Dentistry» are necessary for successful mastering of the academic disciplines «Oral and Maxillofacial Pediatric Surgery», «Diseases of the Oral Mucosa».

Studying the academic discipline «Therapeutic Pediatric Dentistry» should ensure the formation of students' the following specialized competence: conduct examination, apply methods of diagnosis, prevention and treatment of major dental and surgical diseases of the maxillofacial region in children.

As a result of studying the academic discipline «Therapeutic Pediatric Dentistry» the student should

know:

methods of organization of medical care for children with therapeutic dental diseases;

basic principles of medical ethics and deontology for providing medical care to pediatric patients;

international classification of dental diseases, the procedure for examining children with diseases of the dental hard tissues, pulp and periapical tissues, periodontal tissues, oral mucosa, tongue, and labial border, as well as basic and additional diagnostic methods for diseases of the oral cavity;

features of local anesthesia in pediatric dentistry, medical indications for treatment under sedation, and specific manifestations of allergic reactions that pose a threat to the life and/or health of pediatric patients;

principles of intensive care for anaphylactic shock, algorithms for providing emergency medical care to children in a dental facility (department) in accordance with clinical protocols;

etiology, pathogenesis, features of clinical manifestations, methods of diagnosis, treatment and prevention of dental caries, diseases of the pulp and apical periodontium in children, dental trauma and non-carious lesions of dental hard tissues, diseases of periodontium and oral mucosa in children;

etiology, pathogenesis, features of clinical manifestations, methods of diagnosis, treatment and prevention of inflammatory diseases and traumatic injuries to teeth in children;

clinical picture and features of manifestations of allergic reactions which can be life and (or) health-threatening conditions for children;

methods to ensure epidemiological safety when providing medical care for pediatric patients;

be able to:

establish contact with children, adolescents and their parents, provide a positive psychological follow-up reaction when visiting a dentist;

carry out a complex of diagnostic procedures in children with dental caries, diseases of the pulp and apical periodontium, with non-carious lesions of dental hard tissues and traumatic injuries to the teeth, with diseases of the periodontium and oral mucosa;

formulate and justify the diagnosis according to the International Classification of Diseases, carry out differential diagnosis;

prepare carious cavities of primary and immature permanent teeth in children, select filling material depending on the depth and activity of the carious process;

perform the stages of vital and nonvital pulpotomy and pulpectomy;

carry out application, infiltration and nerve block anesthesia in the maxillofacial area in children;

carry out effective primary and secondary prevention of diseases of the hard tissues of teeth, periodontium, and oral mucosa;

provide medical care for children with allergic reactions which can be life and (or) health-threatening conditions;

apply clinical protocols in the diagnosis and treatment of oral diseases in pediatric patients;

master:

methods of primary and secondary prevention of diseases of the dental hard tissues, periodontium, and oral mucosa in children;

methods of performing application, infiltration and nerve block anesthesia of the maxillofacial region in pediatric patients with toothache, hyperesthesia, pathology of the periodontium and mucous membrane of the oral cavity, tongue, red border of the lips;

diagnostic methods (electroodontometry, staining with special dyes), evaluation and interpretation of intraoral, panoramic radiographs, cone-beam computed tomography and index assessment (DMFT, deft, DMFT+deft, OHI-S; PLI, GI, CPI);

methods of preparing carious cavities of primary and immature permanent teeth (including immature);

methods of restoration of primary and immature permanent teeth with different filling materials;

methods of endodontic treatment of primary and immature permanent teeth.

Total number of hours for the study of the discipline is 548 academic hours, among them 297 classroom hours and 251 student independent work (self-study). Classroom hours according to the types of studies: lectures – 24 hours, practical classes – 273 hours.

Form of higher education – full-time.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of a credit (6th, 8th, 9th, 10th semesters), and examination (7th semester).

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	practical classes		
7-07-0911-03 «Dentistry»	6	120	74	9	65	46	credit
	7	120	75	9	66	45	examination
	8	102	33	3	30	69	credit
	9	98	45	3	42	53	credit
	10	108	70	-	70	38	credit
Total hours		548	297	24	273	251	

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
1. Age-related features of children's behavior at therapeutic dental appointments	-	5
2. Psychological, psychotherapeutic and pharmacological provision of the doctor – pediatric patient contact. Means and methods to minimize pain during dental treatment of children	3	10
3. Anatomical, physiological and radiological features of the primary and immature permanent teeth at different periods of development. The methods of dental caries diagnostic in children	-	5
4. Dental caries in primary teeth in children	1,5	10
5. Dental caries in permanent teeth in children	1,5	15
6. Pulpitis in primary teeth in children	1,5	10
7. Pulpitis in immature permanent teeth in children	1,5	10
8. Anatomical, physiological and radiological features of apical periodontium in primary and immature permanent teeth at different periods of their development	-	6
9. Apical periodontitis in primary teeth in children	1,5	12
10. Apical periodontitis in immature permanent teeth in children	1,5	12
11. Mistakes and complications during the treatment of pulpitis and apical periodontitis in children	-	6
12. Traumatic injuries of the teeth in children	3	12
13. Non-carious lesions of the teeth in children	3	18
14. Anatomical, physiological and radiological features of the periodontium in children at different ages	-	6
15. Gingivitis in children. Rapidly progressive periodontal diseases in children. Symptomatic periodontitis in children with systemic diseases	1,5	6
16. Anatomical and physiological features of the oral mucosa in children at different ages	-	6
17. Acute and chronic recurrent herpetic stomatitis	1,5	12
18. Oral mucosa lesions in children with infectious diseases	1,5	28
19. Oral manifestations of allergic reactions in children	1,5	14
20. Traumatic injuries of the oral mucosa in children	-	7
21. Diseases of the lips and tongue in children	-	14
22. Oral manifestations of somatic diseases in children	-	14
23. Features of providing dental care to children of different ages	-	35
Total hours	24	273

CONTENT OF THE EDUCATIONAL DISCIPLINE

1. Age-related features of children's behavior at therapeutic dental appointments

The objectives of pediatric dental treatment. Treatment participants: the role, relationships. Behavior of children and parents at the dental office in the process of treatment. Assessment of co-operation with the child and the choice of strategy to control dental patients' behavior. Using verbal and nonverbal means to stimulate positive behavior in a pediatric patient.

Fundamentals of ethics and deontology: compliance with ethical and deontological principles allows to prevent the emergence of conflict situations in the medical environment, achieve mutual understanding with the child and his parents and increase the level of service and the effectiveness of treatment.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Determining the type of behavior of the child and his parents.

2. Psychological, psychotherapeutic and pharmacological provision of the doctor - pediatric patient contact. Means and methods to minimize pain during dental treatment of children

Evaluation of behavioral responses of pediatric patients during dental appointment. The concept of the stimulus, the threshold of sensitivity needs of the child, emotional reactions, anxiety, coping strategies for children. Age and individual characteristics of children and adolescents, mental development and behavior. Formation of a positive attitude towards dentistry and appropriate behavior at the dental office of children and adolescents. Features of dental care for children with physical symptoms, with impaired mental development and disabilities.

Measures to minimize pain in children during dental treatment. Features of implementation of local anesthesia. Cognitive sedation. Physical immobilization, deep sedation and general anesthesia as a comprehensive anesthetic technique used to ensure patient immobilisation, complete unconsciousness and painlessness during dental procedures. Use of comprehensive anesthetic technique working with children who are unable to cooperate.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease. Evaluation of behavioral reactions of pediatric patients during dental appointment using the Frankl scale. Conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

3. Anatomical, physiological and radiological features of the primary and immature permanent teeth at different periods of development. The methods of dental caries diagnostic in children

Features of hard tissue structure in primary and permanent teeth during root formation in children and their relation to the features of dental caries in children. Tertiary mineralization: the terms and the factors influencing it. The stages of root

formation. Growth zone: structure, functions, features, normal and pathological conditions. The mechanism, types and terms of the primary teeth root resorption. Basic and additional methods of dental caries diagnosis: interview, examination, probing, transillumination, laser fluorescence, thermal probe, electrometry, electric pulp test, vital staining.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Conducting of basic and additional methods of dental caries diagnosis.

4. Dental caries in primary teeth in children

Clinical picture of dental caries in primary teeth on the level of a spot, moderate and deep caries depending on the clinical course; differential diagnosis.

The choice of methods of treatment and filling material depending on the caries activity, localization of cavity, age of the patient. Features of treatment of dental caries in primary teeth using of chemical agents, atraumaic restoration, minimal invasion.

Factors contributing to the development and progression/stabilization of dental caries in young children. Features of the course of dental caries in young children. The sequence of involvement of teeth in the pathological process depending on the group and the surface of the tooth crowns. Non-invasive, minimally invasive and surgical treatment of dental caries in young children, depending on the clinical situation and the activity of the carious process. Medical observation of children with early childhood caries.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Choosing a method and carrying out treatment.

5. Dental caries in permanent teeth in children

Characteristics of the first period after eruption of permanent teeth. The clinical course of caries in the period of immature enamel. The clinical course of dental caries in first permanent molars during enamel mineralization in children with different levels of caries activity and enamel mineralization. Remineralizing therapy (medications, procedures, course, monitoring of the treatment effectiveness). Invasive sealing as a method of treatment of occlusal initial caries (stages, filling materials). Minimally invasive methods for treatment of caries of permanent teeth. The techniques of preventive and delayed filling. Modern approaches to the choice of filling materials in permanent teeth in children depending on the stage of tooth formation, caries activity. Medical observation of children with caries of permanent teeth.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. The choice of treatment

method, the use of modern methods of non-invasive, minimally invasive and surgical treatment of dental caries and medical prevention.

6. Pulpitis in primary teeth in children

Features of the primary teeth pulp structure during the root formation, the period of formed root and the period of root resorption. Morphological structure and functional properties of the pulp depending on the stage of development of primary teeth. Stages and terms of the root formation of primary teeth.

Features of etiology and pathogenesis of pulpitis of primary teeth in children. Methods of diagnosis of pulpitis of primary teeth in children. The clinical course of acute, chronic pulpitis and exacerbation of chronic pulpitis in children. The differential diagnosis of various forms of pulpitis.

The indications for the choice of method of treatment of primary teeth pulpitis. Planning of treatment, techniques, analysis of the treatment effectiveness, prevention of periodontitis as a complication of treatment of pulpitis. Medications used in the treatment of pulpitis using conservative methods. Indications and contraindications to conservative methods. Stages of the conservative methods. Indications for surgical methods of treatment Stages of the vital and non-vital pulpotomy. Features of pulpectomy in primary teeth. Medications for pulp devitalization. Criteria for treatment results evaluation. Pastes for root canal filling. Prognosis of outcome of treatment of primary teeth pulpitis. Medical observation of children with pulpitis of primary teeth.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Choosing a treatment method for pulpitis of primary teeth and carrying out treatment. Filling out medical documentation.

7. Pulpitis in immature permanent teeth

Features of the structure of the pulp of permanent teeth during the root formation. Morphological structure and functional properties of the pulp depending on the stage of development of permanent teeth. The concept of «growth zone»: structure, functions. Radiological picture of teeth at various stages of root formation. Stages and terms of the formation of roots of permanent teeth.

Features of the etiology and pathogenesis of pulpitis of permanent teeth during the period of root formation. Methods for diagnosing pulpitis of permanent teeth during root formation. Features of the clinical course of acute, chronic pulpitis and chronic pulpitis of permanent teeth during the period of root formation in the acute stage. Differential diagnosis of various forms of pulpitis.

Indications and contraindications to conservative methods of treatment of pulpitis of permanent teeth in children. The method of indirect and direct pulp capping, the biological method. Calcium-containing medications: composition, properties and indications for use. Stages of the conservative methods of treatment of pulpitis of permanent teeth in children. Indications for surgical methods of treatment of pulpitis of permanent teeth in children. Stages of the vital pulpotomy. Stages of the pulpectomy. Criteria for evaluation of short-and long-term results of treatment of

pulpitis of permanent teeth in children. Prevention of complications. Medical observation of children with pulpitis of permanent teeth.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Interpretation of the results of radiological examination of primary and permanent teeth at different periods of development. Choosing a treatment method for pulpitis of permanent teeth and carrying out treatment. Filling out medical documentation.

8. Anatomical, physiological and radiological features of apical periodontium in primary and immature permanent teeth at different periods of their development

Features of the structure of the apical periodontium in children. Radiological characteristics of the apical periodontium of teeth at different periods of their development. Types of physiological and pathological resorption of the roots of primary teeth. The influence of pathogenic factors on the development of the tooth germ at various stages of its formation, outcomes.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

9. Apical periodontitis in primary teeth in children

Features of the etiology and pathogenesis of apical periodontitis in primary teeth. Features of clinical course of acute and chronic apical periodontitis in primary teeth.

Radiographic examination of a child with apical periodontitis, radiological signs of pathological changes in apical periodontium. Diagnosis, differential diagnosis of acute and chronic periodontitis in primary teeth.

The influence of chronic periodontitis on the condition of germ of the permanent tooth.

Emergency care for children with apical periodontitis in primary teeth. Stages of treatment, technique, necessary tools and medications. Indications for extraction of primary teeth. The criteria for the assessment of effectiveness of treatment of periodontitis in primary teeth. Prediction of disease outcome. Prevention of apical periodontitis in primary teeth. Medical observation of children after treatment of apical periodontitis of primary teeth, purpose, terms of observation.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Choice of the method of treatment of apical periodontitis in primary teeth, treatment procedure. Filling out medical documentation.

10. Apical periodontitis in immature permanent teeth in children

Features of etiology and pathogenesis of apical periodontitis in immature permanent teeth. The clinical course of acute and chronic apical periodontitis in immature permanent teeth. Radiographic diagnosis of pathological changes in apical

periodontium. Diagnosis, differential diagnosis of apical periodontitis in immature permanent teeth. Modern approaches to treatment of apical periodontitis in immature permanent teeth. Features of the endodontic treatment of immature permanent teeth. The outcome of treatment of apical periodontitis in immature permanent teeth in children. Prediction of outcome of treatment of apical periodontitis in immature permanent teeth in children. Emergency care and treatment of acute periodontitis in immature permanent teeth. Medical observation of children after treatment of apical periodontitis in immature permanent teeth, purpose, terms of observation.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Choice of the method of treatment of apical periodontitis of primary teeth, treatment procedure. Filling out medical documentation.

11. Mistakes and complications during the treatment of pulpitis and apical periodontitis in children

Mistakes and complications during performing of conservative and surgical methods of treatment of pulpitis in primary teeth and immature permanent teeth, the causes of their occurrence and methods of elimination.

Diagnostic mistakes in the treatment of apical periodontitis. Mistakes of choosing a method and conducting treatment techniques for periodontitis in primary teeth and immature permanent teeth, the causes of their occurrence and methods of elimination.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Use basic and additional methods of diagnostics of apical periodontitis of immature permanent teeth; choice of the method of treatment of apical periodontitis of primary teeth, treatment procedure. Filling out medical documentation.

12. Traumatic injuries of the teeth in children

Features of examination of children with traumatic injuries of the teeth.

Crown fracture: clinical picture, diagnosis, methods of treatment of crown fractures depending on the child age, complications, treatment outcome.

Root fracture: clinical picture, diagnosis, differential diagnosis, methods of treatment, complications.

Luxation of the tooth: clinical picture, diagnosis, differential diagnosis, methods of treatment depending on the age, complications.

Stages of rehabilitation of children with dental trauma. Prevention of traumatic injuries of teeth in children. Medical observation of children with traumatic injuries of teeth.

Examination of the patients with dental diseases: clarification of complaints and anamnesis of the disease; a clinical examination; interpretation of the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out the medical documentation. Usage of the basic and additional methods of diagnostics of traumatic in teeth, interpreting examination

results. Making a diagnosis, choosing a treatment method and carrying out the stages of treatment. Organization of medical observation of a child with traumatic injuries of teeth.

13. Non-carious lesions of the teeth in children

Classification of non-carious lesions of dental hard tissues. The etiology, clinical picture, differential diagnosis, treatment and prevention of violations of tooth formation during the period of follicular development. Non-endemic mottling, endemic mottling, prenatal, neonatal hypoplasia. Diagnosis, possibilities of treatment and medical prevention in children.

Molar-incisal hypomineralization. Etiology, clinical picture, diagnosis, treatment and possibilities of prevention in children.

Hereditary non-carious lesions of hard dental tissues (amelogenesis imperfecta, dentinogenesis imperfecta, odontogenesis imperfecta, dentin dysplasia, shell teeth), other disorders of dental development (changes in the color of teeth occurring during the teeth formation). Clinical picture, diagnosis, treatment and possibilities of prevention in children. Medical observation of children with non-carious dental lesions.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Use basic and additional methods of diagnostics of non-carious lesions of teeth; interpretation of examination results. Differential diagnosis, diagnosis. Choice of treatment method. Organization of medical observation of a child with non-carious lesions of teeth.

14. Anatomical, physiological and radiological features of the periodontium in children at different ages

Features of the structure of the gingiva, ligaments, periosteum, bone of the alveolar process and cement covering the root of the tooth at different age periods in children. Clinical characteristics of mature periodontium. Radiological age-related features of the periodontium in children during the period of primary, mixed and permanent dentition.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

15. Gingivitis in children. Rapidly progressive periodontal diseases in children. Symptomatic periodontitis in children with systemic diseases

Features of the clinical course of acute and chronic gingivitis in children. Treatment of acute and chronic simple marginal, hyperplastic and desquamative gingivitis in children. Gum recession in childhood, etiology, clinical manifestations, differential diagnosis, treatment.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Use basic and additional

methods of diagnostics of gingivitis and gingival recession, interpreting examination results. Diagnosis, choice of treatment method and conducting treatment. Organization of medical observation of a child with gingivitis and gingival recession.

Etiology, pathogenesis, clinical and radiological signs of pubertal and prepubertal periodontitis. The role of microbial factor in the aggressive periodontitis development in children and adolescents. Treatment and prevention of prepubertal and pubertal periodontitis in children and adolescents. Symptomatic periodontitis (periodontal syndrome) in diabetes mellitus, X-histiocytosis, Papillons-Lefevre syndrome, hypoglobulinemia, hypophosphatasia, hereditary neutropenia in children. Clinical manifestations of symptomatic periodontitis. The role of the dentist in diagnosis and treatment of symptomatic periodontitis.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Use clinical and additional methods for diagnosing rapidly progressing periodontitis, interpreting examination results. Diagnosis, choice of method and treatment. Organization of medical observation of a child with rapidly progressive and symptomatic periodontitis.

16. Anatomical and physiological features of the oral mucosa in children at different ages

Features of the structure of the oral mucosa during the neonatal period, early childhood, primary and secondary childhood periods. Types of oral mucosa according to morphofunctional characteristics. The role of histological and histochemical features of the structure of the oral mucosa in the development of diseases in children.

Examination of patients with diseases the oral mucosa: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results Identification of risk factors for pathology of oral mucosa; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

17. Acute and chronic recurrent herpetic stomatitis

Etiology, pathogenesis, clinical manifestations of acute and chronic recurrent herpetic stomatitis in children. Modern methods of diagnosis. Features of the clinical picture and treatment of acute herpetic stomatitis in children «at risk» and in newborns. Prediction and prevention of acute herpetic stomatitis transition to a chronic recurrent form. Anti-epidemic measures at acute herpetic stomatitis in children. Treatment and prevention of chronic recurrent forms of herpes infection in children in the acute and interrecurrent period. Medical observation of children with acute herpetic and chronic recurrent herpetic stomatitis.

Examination of patients with diseases the oral mucosa: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors for pathology of oral mucosa; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation. Prediction and prevention of the transition of acute herpetic stomatitis to a chronic recurrent form, treatment.

18. Oral mucosa lesions in children with infectious diseases

Etiology, clinical manifestations, diagnosis of the oral mucosa lesions in children with viral infections: acute respiratory viral infections (influenza, parainfluenza, adenovirus), enterovirus infection with oral manifestations, oral mucosa lesions caused by the virus varicella-zoster, COVID-19, measles, rubella, infectious mononucleosis, with acquired immunodeficiency syndrome. The role of a dentist in treatment oral mucosa lesions in the children with viral diseases. Prevention of HIV infections in practical work of pediatric dentist.

Etiology, clinical manifestations, diagnosis and treatment of necrotizing ulcerative gingivostomatitis in children. Treatment and prevention of recurrence of necrotizing ulcerative gingivostomatitis. Regular check-ups of children with necrotizing ulcerative gingivostomatitis.

Etiology, clinical manifestations, diagnosis of lesions of the oral mucosa in children with bacterial infections: necrotizing ulcerative gingivostomatitis, diphtheria, scarlet fever, syphilis. Treatment and prevention of recurrence of necrotizing ulcerative gingivostomatitis. Medical observation of children with necrotizing ulcerative gingivostomatitis. The role of a dentist in treatment of lesions of the oral mucosa in children with bacterial infection.

Etiology, clinical manifestations, diagnosis of the oral mucosa lesions in children with fungal diseases. Physiological characteristics of the structure of the oral mucosa in children and the factors contributing to the development of candidiasis in children and adolescents, the ways of infection transmission. Features of clinical course of oral mucosa candidiasis in children with diabetes mellitus, acute leukemia, HIV-infection. Prevention and treatment of fungal infections in children.

Examination of patients with diseases the oral mucosa: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors for pathology of oral mucosa; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

19. Oral manifestations of allergic reactions in children

Features of etiology, pathogenesis, clinical manifestations, diagnosis and treatment of chronic recurrent aphthous stomatitis in children, exudative erythema multiforme, Stevens-Johnson syndrome and Lyell's disease, Behçet's syndrome, drug stomatitis. Prevention of allergic diseases in children.

Features of etiology, pathogenesis, clinical manifestations, diagnosis and treatment of allergic reactions of immediate and delayed types: Quincke's edema, urticaria, anaphylactic shock, chronic recurrent aphthous stomatitis in children, exudative erythema multiforme, Stevens-Johnson's syndrome and Lyell's disease, Behçet's syndrome, medication stomatitis. Prevention of allergic reactions in children. Emergency care for allergic reactions in children.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

20. Traumatic injuries of the oral mucosa in children

Features of clinical manifestations, diagnosis and treatment of acute and chronic mechanical trauma, thermal and electrical, chemical and radiation oral mucosa injuries in children. Urgent care in chemical burns and poisoning. Antidotal therapy.

Examination of patients with diseases the oral mucosa: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors for pathology of oral mucosa; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

21. Diseases of the lips and tongue in children

Features of etiology, pathogenesis, clinical manifestations, diagnosis and treatment of atopic and eczematous, actinic and weather induced, exfoliative and glandular cheilitis in children.

Features of etiology, pathogenesis, clinical manifestations, diagnosis and treatment of desquamative, folded, diamond-shaped and «hairy» glossitis in children.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

22. Oral manifestations of somatic diseases in children

Features of the oral manifestations of diseases of the gastrointestinal tract, excretory system, blood diseases, pathologies of the cardiovascular and endocrine systems. Features of providing dental care to children with somatic diseases.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

23. Features of providing dental care to children of different ages

Identification of risk factors for major dental diseases, conduction of preventive and therapeutic measures in children at the age from 0 to 3 years. Early childhood caries: prevention, treatment methods, the choice of filling materials. Features of clinical work with children at the age from 3 to 6 years: diagnosis of developing disease, choice of means and methods of oral care, prevention and treatment of diseases of the dental hard tissues, periodontal tissues and oral mucosa. Features of clinical work with children at the age from 6 to 12 years and adolescents from 12 to 18 years depending on risk factors for oral diseases and health groups.

Examination of patients with dental diseases: clarification of complaints and anamnesis of the disease; conducting a clinical examination; interpretation the results. Identification of risk factors and oral pathology; drawing up a plan of preventive and therapeutic measures. Filling out medical documentation.

ACADEMIC DISCIPLINE «THERAPEUTIC PEDIATRIC DENTISTRY» CURRICULAR CHART

Section, topic #	Section (topic) name	Number of hours		Literature	Practical skills	Form of control	
		lectures	practical			of practical skills	of current / intermediate assessment
6 th semester							
	Lectures	9	-				
1.	Psychological, psychotherapeutic and pharmacological provision of the contact between the doctor and child	1,5	-	15			
2.	Means and methods to minimize pain during dental treatment of children	1,5	-	15			
3.	Features of the clinical course, diagnosis and treatment of caries in primary teeth	1,5	-	15			
4.	Features of the clinical course, diagnosis and treatment of dental caries in permanent teeth in children	1,5	-	15			
5.	Features of the clinical course, diagnosis and treatment of pulpitis in primary teeth	1,5	-	15			
6.	Features of the clinical course, diagnosis and treatment of pulpitis of immature permanent teeth	1,5	-	15			
	Practical lessons	-	65				
1.	Age-related features of children’s behavior at therapeutic dental appointments	-	5	1, 2, 10, 15	1. Filling out medical documentation. 2. Organization of the workplace	Filling in the patient's dental outpatient card.	Electronic tests, interview, filling out a patient's dental

					of a pediatric dentist, taking into account the requirements of ergonomics. 3. Hand hygiene	Performing practical skills during an outpatient appointment. Visual assessment of skill performance	outpatient card, solving situational tasks
2.	Psychological, psychotherapeutic and pharmacological provision of the contact between the doctor and child	-	5	1, 2, 10, 15	Evaluation of the behavioral response of pediatric patients in a dental appointment using the Frankl scale	Performing practical skills during an outpatient appointment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
2.	Means and methods to minimize pain during dental treatment of children	-	5	1, 2, 10, 15	Conducting application/ infiltration, nerve block anesthesia in a pediatric patient	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, solving situational tasks
3.	Anatomical, physiological and radiological features of the primary and immature permanent teeth at different periods of development. The methods of dental caries diagnostic in children	-	5	1, 2, 3, 6, 7, 15			Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
4.	Features of the clinical course and diagnosis of caries in primary teeth in children	-	5	1, 2, 3, 6, 7, 15	Conducting differential diagnostics and choosing a treatment method of caries in a primary tooth in children	Performing practical skills during an outpatient appointment / on simulation equipment*	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
4.	Treatment of caries in primary teeth in children	-	5	1, 2, 3, 6, 7, 15	1. Preparation of a carious cavity (ART technique, chemical-mechanical preparation, using burs) in children. 2. Selection of a filling material	Performing practical skills during an outpatient appointment / on simulation	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational

					and filling of a carious cavity in a primary tooth. 3. Evaluation of the quality of filling of a carious cavity in a primary tooth	equipment	tasks
5.	Early childhood caries	-	5	1, 2, 3, 6, 7, 15	Conducting remineralizing therapy in children	Performing practical skills during an outpatient appointment / on simulation equipment	Filling out a patient's dental outpatient card, solving situational tasks
5.	Patterns of the clinical course of dental caries in immature permanent teeth in children	-	5	1, 2, 3, 6, 7, 15	Conducting differential diagnostics and choosing a treatment method of dental caries in immature permanent teeth in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
5.	Treatment of caries in immature permanent teeth in children	-	5	1, 2, 3, 6, 7, 15	1. Preparation of a carious cavity (ART technique, chemical-mechanical preparation, using burs) in a pediatric patient. 2. Selection of a filling material and filling of a carious cavity in immature permanent teeth. 3. Evaluation of the quality of filling of a carious cavity in immature permanent teeth	Performing practical skills during an outpatient appointment / on simulation equipment	Control work*
6.	Anatomical, physiological and radiological features of the structure of the pulp in primary teeth. Diagnosis and features of the clinical course of pulpitis in primary teeth	-	5	1, 2, 9, 15	Conducting differential diagnostics and choosing a treatment method of pulpitis in primary teeth in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks

6.	Treatment of pulpitis in primary teeth	-	5	1, 2, 9, 15	Nonvital pulpotomy in a primary tooth: opening the pulp chamber in primary tooth and applying a devitalizing paste; deroofting the pulp chamber in primary tooth, amputating the coronal pulp; applying a paste with an antiseptic and/or mummifying effect to the root canal orifices of the primary tooth; restoration of the primary tooth crown using dental filling materials in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
7.	Anatomical, physiological and radiological features of the structure of the pulp in immature permanent teeth at different periods of their development. Patterns of clinical course, methods for diagnosis of pulpitis in immature permanent teeth	-	5	1, 2, 9, 15	Conducting differential diagnostics and choosing a treatment method pulpitis of pulpitis in primary teeth in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
7.	Treatment of pulpitis in immature permanent teeth	-	5	1, 2, 9, 15	1. Vital pulpotomy in a permanent tooth with incomplete root formation. Administering application/infiltration and conduction anesthesia to a pediatric patient. 2. Opening the pulp chamber of a permanent tooth with incomplete root formation, hemostasis; 3. Applying MTA/calcium-containing paste for direct pulp capping to the root canal orifices of a permanent tooth with incomplete root formation.	Performing practical skills during an outpatient appointment / on simulation equipment	Control work*. Credit

					4. Applying a zinc oxide eugenol cement liner; Restoring the crown of a permanent tooth with incomplete root formation using dental filling materials		
7th semester							
	Lectures	9					
1.	Features of diagnosis, clinical course and treatment of apical periodontitis in primary teeth. Prognosis. Outcomes	1,5	-	16			
2.	Features of diagnosis, clinical course and treatment of apical periodontitis of immature permanent teeth. Prognosis. Outcomes	1,5	-	16			
3.	Traumatic injuries of primary teeth in children	1,5	-	16			
4.	Traumatic injuries of permanent teeth in children	1,5	-	16			
5.	Non-carious lesions of dental hard tissues occurring during the period of follicular development. Etiology, pathogenesis, clinical manifestations, diagnosis, possibilities of treatment	1,5	-	16			
6.	Hereditary non-carious lesions of dental hard tissues. Diagnosis, possibilities of treatment and prevention in children	1,5	-	16			
	Practical lessons		66				
8.	Anatomical, physiological and radiological features of apical periodontium in primary and permanent teeth at different periods of their development	-	6	1, 2, 16			Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
9.	Methods of diagnosis of apical periodontitis in primary teeth. Patterns of clinical course	-	6	1, 2, 16	Diagnosis of the disease of apical periodontium according to	Performing practical skills during an	Electronic tests, interview, filling out

					the classification provided by the clinical protocol (pediatric population)	outpatient appointment / on simulation equipment	a patient's dental outpatient card, solving situational tasks
9.	Treatment of apical periodontitis in primary teeth	-	6	1, 2, 16	1. Preparation of the carious cavity, opening the pulp chamber in primary tooth creation of access, identification and widening of the root canals. 2. Removal of necrotic pulp in the primary tooth. 3. Determining the root canal length of the primary tooth. 4. Instrumentation of the root canal (selection of preparation technique, instruments, antiseptics) of the primary tooth. 5. Filling of the root canals of the primary tooth with pastes for temporary obturation	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
10.	Methods of diagnosis of apical periodontitis in immature permanent teeth. Patterns of clinical course	-	6	1, 2, 16	Diagnosis of the disease of apical periodontium according to the classification provided by the clinical protocol (pediatric population)	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
10.	Treatment of apical periodontitis in immature permanent teeth	-	6	1, 2, 16	1. Preparation of a carious cavity, opening the pulp chamber of a permanent tooth with incomplete root formation, creating access, identifying and widening the root canals. 2. Removal of necrotic pulp in a permanent tooth with incomplete	Performing practical skills during an outpatient appointment	Electronic tests, control work*

					root formation. 3. Determining the root canal length of a permanent tooth with incomplete root formation. 4. Instrumentation of the root canal (selection of preparation technique, instruments, and antiseptics) of a permanent tooth with incomplete root formation. 5. Filling the root canals of a permanent tooth with incomplete root formation with pasts for temporary obturation. 6. Filling the root canals of a permanent tooth with incomplete root formation with gutta-percha pins after apexification		
11.	Mistakes and complications in the treatment of pulpitis and apical periodontitis in children	-	6	1, 2, 16	Evaluation of the quality of root canal filling of a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment* / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
12.	Features of diagnosis, clinical course and treatment of traumatic injuries of primary teeth. Prognosis, outcomes, medical follow-up	-	6	1, 2, 8, 16	Conducting diagnostics of traumatic dental injuries in primary teeth in children	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
12.	Features of diagnosis, clinical course and treatment of traumatic injuries of permanent teeth in children. Prognosis, outcomes, medical follow-up	-	6	1, 2, 8, 16	Conducting diagnostics of traumatic dental injuries in permanent teeth with incomplete root formation in children	Performing practical skills during an outpatient appointment / on simulation	Electronic tests, control work*

						equipment	
13.	Non-carious lesions of dental hard tissues occurring during the period of follicular development: non-endemic mottling, endemic mottling, hypoplasia. Diagnosis, possibilities of treatment and prevention in children	-	6	1, 2, 5, 16	Conducting differential diagnostics of non-carious lesions occurring during the period of follicular development in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
13.	Molar-incisal hypomineralization. Diagnosis, possibilities of treatment and prevention in children	-	6	1, 2, 5, 16	Conducting differential diagnostics of non-carious lesions occurring during the period of follicular development in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
13.	Hereditary non-carious lesions of dental hard tissues. Diagnosis, possibilities of treatment and prevention in children	-	6	1, 2, 5, 16	Conducting differential diagnostics of non-carious lesions occurring during the period of follicular development in children	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
							Exam
8th semester							
	Lectures	3					
1.	Gingivitis in children. Features of clinical course and treatment. Rapidly progressive periodontal diseases in children. Symptomatic periodontitis in children with systemic diseases	1,5	-	16			
2.	Acute herpetic and chronic recurrent herpetic stomatitis. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment, medical prevention	1,5	-	16			
	Practical lessons		30				
14.	Anatomical, physiological and radiological features of the periodontium in children at	-	6	1, 2, 11, 16			Interview, filling out a patient's dental

	different ages						outpatient card, solving situational tasks
15.	Gingivitis in children. Gingival recession. Rapidly progressive periodontal diseases in children. Symptomatic periodontitis in children with systemic diseases	-	6	1, 2, 11, 16	Diagnosis and treatment of a children with acute or chronic gingivitis according to the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
16.	Anatomical and physiological features of the oral mucosa in children at different ages	-	6	1, 2, 13, 16			Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
17.	Acute herpetic stomatitis. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment, medical prevention	-	6	1, 2, 13, 16	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
17.	Recurrent herpetic stomatitis. Pathogenesis, clinical manifestations, diagnosis, treatment, medical prevention	-	6	1, 2, 13, 16	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests*, control work. Credit
9th semester							
	Lectures	3					
1.	Oral mucosa lesions in children with infectious diseases. The role of a pediatric dentist in diagnosis, organization of treatment and prevention	1,5	-	17			
2.	Oral manifestations of allergic reactions in	1,5	-	17			

	children. The role of a pediatric dentist in diagnosis, organization of treatment and prevention						
	Practical lessons		42				
18.	Oral mucosa lesions in children with viral diseases (ARVI, enterovirus infection, chicken pox, herpes zoster). The role of a pediatric dentist in diagnosis, treatment, prevention	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
18.	Oral mucosa lesions in children with viral diseases (coronavirus infection, measles, rubella, infectious mononucleosis, AIDS). The role of a pediatric dentist in diagnosis, treatment, prevention	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
18.	Oral manifestations of bacterial diseases. The role of a pediatric dentist in diagnosis, treatment, prevention	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with stomatitis and related lesions, with immediate and delayed allergic reactions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
18.	Fungal infections of the oral mucosa in children. Clinical manifestations, diagnosis, treatment	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
19.	Oral manifestations of immediate allergic reactions in the oral cavity. Clinical manifestations, diagnosis. The role of a pediatric dentist in complex treatment. Providing medical care for allergic reactions	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with immediate and delayed allergic reactions in accordance with the classification provided by the	Performing practical skills during an outpatient appointment / on simulation	Electronic tests*, solving situational tasks

	that pose a threat to the life and health of the child				clinical protocol	equipment	
19.	Oral manifestations of delayed type allergic reactions in the oral cavity. Clinical manifestations, diagnosis. The role of a pediatric dentist in complex treatment	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with immediate and delayed allergic reactions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment / on simulation equipment	Solving situational tasks. Credit
10th semester							
	Practical lessons		70				
20.	Traumatic injuries of the oral mucosa in children	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
21.	Diseases of lips in children. Clinical manifestations, diagnosis. Role of the dentist in complex treatment	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with diseases of the lips and tongue in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
21.	Diseases of the tongue in children. Clinical manifestations, diagnosis. Role of the dentist in complex treatment	-	7	1, 2, 12, 17	Diagnosis and treatment of a children with diseases of the lips and tongue in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
22.	Oral manifestation of somatic diseases of children (hemopathy, cardio-vascular, endocrine pathology). Role of the dentist in complex treatment	-	7	1, 2, 17	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks

22.	Oral manifestation of somatic diseases of children (chronic diseases of the excretory system and gastrointestinal tract). Role of the dentist in complex treatment	-	7	1, 2, 17	Diagnosis and treatment of a children with stomatitis and related lesions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, solving situational tasks
23.	Features of dental treatment for children from 0 to 3 years old with pathology of hard dental tissues	-	7	1, 2, 17	1. Preparation of a carious cavity (ART technique, chemical-mechanical preparation, using burs) in children. 2. Selection of a filling material and filling of a carious cavity in a primary tooth. 3. Evaluation of the quality of filling of a carious cavity in a primary tooth	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
23.	Features of dental treatment for children from 0 to 3 years old with the oral mucosa diseases	-	7	1, 2, 17	Diagnosis and treatment of a children with stomatitis and related lesions, with immediate and delayed allergic reactions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests*, interview, filling out a patient's dental outpatient card, solving situational tasks
23.	Features of dental treatment for children from 3 to 6 years old with pathology of hard dental tissues, with the oral mucosa diseases, and with periodontal diseases	-	7	1, 2, 17	1. Preparation of a carious cavity (ART technique, chemical-mechanical preparation, using burs) in children. 2. Selection of a filling material and filling a carious cavity in a primary and/or permanent tooth with incomplete root formation. 3. Evaluation of the quality of filling of a carious cavity in a primary and / or permanent tooth	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks

					with incomplete root formation		
23.	Features of dental treatment for children from 6 to 12 years old with pathology of hard dental tissues, with the oral mucosa diseases, and with periodontal diseases	-	7	1, 2, 17	1. Preparation of a carious cavity (using burs) in children. 2. Selection of a filling material and filling a carious cavity in a primary and/or permanent tooth with incomplete root formation. 3. Evaluation of the quality of filling of a carious cavity in a primary and/or permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, interview, filling out a patient's dental outpatient card, solving situational tasks
23.	Features of dental treatment for children from 12 to 18 years old with pathology of hard dental tissues, with the oral mucosa diseases, and with periodontal diseases	-	7	1, 2, 17	Evaluation of the quality of filling of a carious cavity in a primary and /or permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment	Electronic tests, control work*. Credit
	Total hours	24	273				

*This is a mandatory form of current certification

INFORMATION AND INSTRUCTIONAL UNIT

LITERATURE

Basic (relevant):

1. Pediatric Therapeutic Dentistry / ed. L. A. Khomenko. – Kiev : Book-plus, 2015. – 175 p.

Additional:

2. Dean, J., Avery, D., McDonald, R. McDonald and Avery's dentistry for the child and adolescent / J. Dean, D. Avery, R. McDonald. – Elsevier, 2022. – 734 p.

3. Primary prevention of dental caries : textbook for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, M. I. Klenovskaya, D. N. Naumovich, Zh. M. Burak – Minsk : BSMU, 2023. – 172 p.

4. Primary prevention of oral diseases : textbook for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, M. I. Klenovskaya, D. N. Naumovich, Zh. M. Burak – Minsk : BSMU, 2024. – 136 p.

5. Noncarious tooth lesions : manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, Zh. M. Burak – Minsk : BSMU, 2018. – 27 p.

6. Caries of primary and immature permanent teeth : manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, M. I. Klenovskaya, Zh. M. Burak – Minsk : BSMU, 2017. – 27 p.

7. Caries of primary and immature permanent teeth : manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, M. I. Klenovskaya, Zh. M. Burak – Minsk : BSMU, 2018. – 27 p.

8. Traumatic dental injuries in children and adolescence: manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, D. N. Naumovich, N. D. Cherniavskaya – Minsk : BSMU, 2018. – 40 p.

9. Treatment of pulpitis in primary and immature permanent teeth : manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, O.S. Romanova – Minsk : BSMU, 2018. – 32 p.

10. Behavior management and pain control in children : manual for foreign students of higher education institutions in the specialty «Dentistry» / M. I. Klenovskaya, Zh. M. Burak, O.M. Leonovich – Minsk : BSMU, 2019. – 39 p.

11. Periodontal pathology in children : manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, Zh. M. Burak, M. I. Klenovskaya – Minsk : BSMU, 2019. – 43 p.

12. Pathology of oral mucosa in children : manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, M. I. Klenovskaya, – Minsk : BSMU, 2020. – 56 p.

13. Herpetic stomatitis in children: manual for foreign students of higher education institutions in the specialty «Dentistry» / N. V. Shakovets, O. S. Romanova – Minsk : BSMU, 2021. – 28 p.

Electronic courseware for the educational discipline «Therapeutic Pediatric Dentistry»:

14. <https://etest.bsmu.by/course/view.php?id=1518>;

15. <https://etest.bsmu.by/course/view.php?id=1532>;
16. <https://etest.bsmu.by/course/view.php?id=1533>.

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:
 studying topics and problems that are not covered in lectures;
 taking notes from primary sources (sections of anthologies, collections of documents, monographs, textbooks);
 computer testing.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms of current certification are used to diagnose competencies:
 interview;
 filling out a patient's dental outpatient card;
 control work;
 electronic tests;
 solving situational task.

LIST OF AVAILABLE TEACHING METHODS

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

LIST OF PRACTICAL SKILLS

Name of practical skills	Form of practical skills control
1. Filling out medical documentation	Filling in the patient's dental outpatient card
2. Organization of the workplace of a pediatric dentist, taking into account the requirements of ergonomics	Performing practical skills during an outpatient appointment
3. Hand hygiene	Visual assessment of skill performance
4. Evaluation of the behavioral response of pediatric patients in a dental appointment using the Frankl scale	Performing practical skills during an outpatient appointment
5. Conducting application/infiltration, nerve block anesthesia in a pediatric patient	Performing practical skills during an outpatient appointment / on simulation equipment

Name of practical skills	Form of practical skills control
6. Conducting differential diagnostics and choosing a treatment method of caries in a primary tooth in children	Performing practical skills during an outpatient appointment / on simulation equipment
7. Preparation of a carious cavity (ART technique, chemical-mechanical preparation, using burs) in a pediatric patient	Performing practical skills during an outpatient appointment / on simulation equipment
8. Selection of a filling material and filling a carious cavity in a primary and / or permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
9. Evaluation of the quality of filling of a carious cavity in a primary and / or permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
10. Conducting remineralizing therapy for teeth in children	Performing practical skills during an outpatient appointment / on simulation equipment
11. Conducting nonvital pulpotomy in a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
12. Opening the pulp chamber of a primary/permanent tooth with incomplete root formation and applying a devitalizing paste	Performing practical skills during an outpatient appointment / on simulation equipment
13. Deroofing the pulp chamber of a primary/permanent tooth with incomplete root formation, amputating the coronal pulp	Performing practical skills during an outpatient appointment / on simulation equipment
14. Applying a paste with an antiseptic and/or mummifying effect to the root canal orifices of a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
15. Restoring the crown of a primary/permanent tooth with incomplete root formation using dental filling materials in a children	Performing practical skills during an outpatient appointment / on simulation equipment
16. Performing a vital pulpotomy in a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
17. Conducting application/infiltration, nerve block anesthesia in a children	Performing practical skills during an outpatient appointment / on simulation equipment
18. Opening the pulp chamber of a primary/permanent tooth with immature roots, hemostasis	Performing practical skills during an outpatient appointment / on simulation equipment
19. Applying MTA/calcium-containing paste for direct pulp capping to the root canal orifices of a primary/permanent tooth with incomplete	Performing practical skills during an outpatient appointment / on simulation equipment

Name of practical skills	Form of practical skills control
root formation	
20. Applying a zinc oxide-eugenol cement liner, restoring the crown of a primary/permanent tooth with incomplete root formation using dental filling materials	Performing practical skills during an outpatient appointment / on simulation equipment
21. Conducting diagnostics of traumatic dental injuries in primary and/or permanent teeth with incomplete root formation in children	Performing practical skills during an outpatient appointment.
22. Conducting differential diagnostics of non-carious lesions occurring during the period of follicular development in children	Performing practical skills during an outpatient appointment / on simulation equipment
23. Diagnosis of the disease of apical periodontium according to the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment / on simulation equipment
24. Preparation of a carious cavity, opening the pulp chamber of a permanent tooth with incomplete root formation, creating access, identifying and widening the root canals	Performing practical skills during an outpatient appointment
25. Removal of necrotic pulp in a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment
26. Determining the root canal length of a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
27. Instrumentation of the root canal (selection the preparation technique, instruments, and antiseptic) of a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment
28. Filling of the root canals with pastes for temporary obturation of a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment
29. Filling of the root canals of a primary/permanent tooth with incomplete root formation with gutta-percha pins after apexification	Performing practical skills during an outpatient appointment
30. Evaluation of the quality of root canal filling of a primary/permanent tooth with incomplete root formation	Performing practical skills during an outpatient appointment / on simulation equipment
31. Diagnosis and treatment of a children with acute or chronic gingivitis according to the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment
32. Diagnosis and treatment of a children with chronic periodontitis and juvenile periodontitis	Performing practical skills during an outpatient appointment

Name of practical skills	Form of practical skills control
in accordance with the classification provided by the clinical protocol	
33. Diagnosis and treatment of a children with stomatitis and related lesions, with immediate and delayed allergic reactions in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment
34. Diagnosis and treatment of a children with diseases of the lips and tongue in accordance with the classification provided by the clinical protocol	Performing practical skills during an outpatient appointment

LIST OF EQUIPMENT USED

List of medical and other equipment (classes are held in the Simulation and Certification Center (SCC):

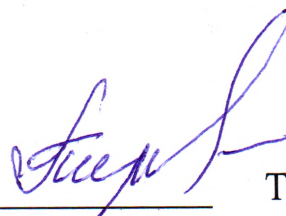
- dental unit with a light and simulated spittoon, handpieces (contra-angle, high-speed);
- table for instruments;
- sink, hand sanitizers, hand drying devices;
- dental chair (for the doctor);
- trolley with consumables and disposal containers;
- set of instruments in simulated sterile packaging:
- dental tweezers;
- dental mirror;
- dental probe;
- tweezers;
- medium-sized spatula;
- brushes for professional oral hygiene;
- instruments for carious cavity preparation, enamel edge finishing, grinding and polishing of restorations: fissure diamond heads, spherical for high-speed handpiece/step-up handpiece and ball-shaped carbide burs for contra-angle handpieces;
- finishing burs;
- silicone heads;
- light-curing lamp.

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

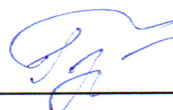
Title of the discipline requiring approval	Department	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum (date, protocol #)
Oral and Maxillofacial Surgery	Maxillofacial Surgery and Facial Plastic Surgery with a course for advanced training and retraining	No amendments	Protocol # 4 of 26.09.2025
Diseases of the Oral Mucosa	Conservative Dentistry	No amendments	Protocol # 4 of 26.09.2025

COMPILERS/AUTHORS:

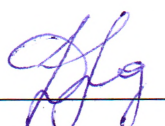
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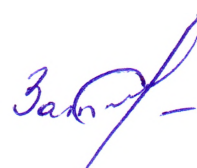
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