


**PRIVATE HIGHER EDUCATIONAL INSTITUTION
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"
Department of Dentistry**

"APPROVED"

Acting Head of the Department
 Oleksandr BIDA

WORKING PROGRAM OF EDUCATIONAL DISCIPLINE

"Pediatric therapeutic dentistry"

LEVEL OF HIGHER EDUCATION Second (master's) level
DEGREE OF HIGHER EDUCATION Master's degree
BRANCH OF KNOWLEDGE 22 Health care
SPECIALTY 221 Dentistry
COURSE 5

Reviewed and approved
at the meeting of the Department of Dentistry
Protocol No. 1 of "31". 08. 2022

Kyiv 2022

Working program of educational discipline "Pediatric Therapeutic Dentistry" for the preparation of applicants for the second (master's) level of higher education in the specialty 221 *Dentistry*.

Developers: Doctor of Medicine, Prof. Kuts V.P. , assistant V.V. Shabranska

Approved by the Central Methodical Council of the Academy Protocol No. 1 of 31.08 2022

Agreed

First Vice-Rector



Oleksandra SOROKA

INTRODUCTION

The working educational program was drawn up in accordance with the following regulatory documents :

the Law of Ukraine "On Higher Education" dated 07.1.2014 No. 1556-VII; by the order of the Ministry of Education and Culture of Ukraine of June 24, 2019 No. 879 "On approval of the standard of higher education in specialty 221 "Dentistry" for the second (master's) level of higher education"; the educational and professional program (OPP) of specialist training in specialty 221 "Dentistry" for the second (master's) level of higher education; educational program of the educational discipline "Pediatric therapeutic dentistry".

Pediatric dentistry is a complex and multi-component specialty, where a specialist acting as a dentist must think like a Pediatrician. Training and activities of such a specialist require a lot of strength, skill, time and energy. Every specialist who works with children should know the peculiarities of the antenatal and postnatal periods of development and formation of hard tissues of the teeth, tissues, bones of the jaws, soft tissues of the face, as well as the nature of the influence on these processes of the state of health of the future mother and the child itself, various negative factors that can lead to the occurrence and development of dental diseases. He should also know the peculiarities of clinical manifestations and patterns of the course of pathological processes in the maxillofacial area in children, as well as methods of treatment and prophylaxis of the main dental diseases in different age periods.

The future dentist must know the modern principles of organization and management of curative and preventive dental care, be able to organize the primary prevention of dental diseases, dispensation and planned dental rehabilitation of children. **Pediatric therapeutic dentistry as an educational discipline :**

- a) is based on the students' previous study of human anatomy, histology, embryology and cytology, medical biology, medical chemistry, biological and bioorganic chemistry, microbiology, virology and immunology and is integrated with these disciplines;
- b) lays the foundations for students to study such clinical disciplines as the profession of dental diseases, Pediatric diseases, therapeutic dentistry, orthodontics;
- c) is based on the study by students of propaedeutic disciplines of the therapeutic profile: propaedeutics of therapeutic dentistry and propaedeutics of Pediatric therapeutic dentistry and is integrated with these disciplines;

d) forms an idea of professional responsibility for the quality of treatment of caries and its complications, diseases of periodontal tissues and ENT in children and the need to prevent dental diseases.

The Pediatric dentistry program includes issues of etiology and pathogenesis of the main dental diseases, involves the assimilation of theoretical material, practical skills and manual skills for diagnosis, treatment and prevention in a logical sequence of studying all sections of the discipline.

Informative description academic discipline

"Pediatric therapeutic stomatology" (9th - 10th semester)

Year of study	5
Lectures	8 hours
Practical training	110 hours
Independent work of students	50 hours
In total	180 hours (6 credits)

In the 5th course, during 3 weeks (2 weeks - Pediatric therapeutic dentistry, 1 week - orthodontics and Pediatric surgical dentistry), practical practice in Pediatric dentistry is carried out.

In their 10th semester, students write and defend a case history on the topic of periodontal tissue diseases and ENT in children.

The program in the discipline "Pediatric therapeutic dentistry" consists of three content modules:

- **content module #1.** Diseases of periodontal tissues in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prevention.
- **content module #2.** Diseases of the mucous membrane of the oral cavity (traumatic, viral, fungal, allergic and in diseases of internal organs and systems) in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prophylaxis .
- **content module #3 .** Comprehensive assessment of the child's dental status . Drawing up an individual plan for remediation of the child's oral cavity and dental prevention and their implementation.

II. Description of the curriculum in the discipline "Pediatric therapeutic dentistry"

The structure of the academic discipline	Number of hours				year of study, semester	Types of control
	In total	Auditory		S.S.		
		Lectures	Practical			
<u>Module</u> <i>Pediatric therapeutic dentistry</i>	6.0 credits ECTS/180 hours	20	1 1 0	5 0	5th year (IX, X semesters)	Diff exam
by semesters						
<u>Content module</u> <u>No. 1, 2</u> Diseases of periodontal and mucous tissues oral cavity membranes in children.	Hour 120 Credit 4.0 _	20	60	40	IX	Diff exam
<u>Content module No. 3</u> Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of the main dental diseases in children	Hour 60 Credit 2.0 —	-	50	10	X	Diff exam

Note: 1 ECTS credit – 30 hours. Auditory workload – 66.6%, SRS – 27.7%

III. The purpose of study and tasks of the academic discipline

The purpose of studying Pediatric therapeutic dentistry is determined by *the final goals*, which are established on the basis of the OPP of training a doctor by specialty in accordance with the block of its content modules and is the basis for building the content of the educational discipline. The description of goals is formulated through skills in the form of target tasks (actions). On the basis of the final goals for each module or content module, *specific goals are formulated* in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of studying the discipline. *The final goals of the discipline:*

In accordance with Appendix B of the OPP, the ultimate goals of studying Pediatric therapeutic dentistry are:

PP.004 To analyze the results of the examination of the patient in the Pediatric therapeutic stomatology clinic

PP.0034 To determine the management tactics at the dental appointment of a child with somatic

diseases that require special patient management tactics

PP.0042 To determine the risk factors of the main dental diseases

PP.0045 To determine the nature and principles of treatment of diseases in children's therapeutic dentistry

PP.0050 To determine leading syndromes and symptoms in Pediatric therapeutic stomatology

PP.0065 To use the principles of the prevention of dental diseases and their complications

PP.0069 Distinguish the features of the application of the principles of asepsis and antiseptics in the clinic of Pediatric therapeutic dentistry

PP.0075 Identify different clinical variants and complications of the most common ones

PP.0080 Demonstrate the ability to maintain accounting and reporting documentation

IV. Program of educational discipline

Content module #1. *"Diseases of periodontal tissues in children : etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prevention".*

Specific goals:

to know the age-related morphological and functional features of periodontal tissues in children;

to know the trends in the prevalence of periodontal diseases in children in Ukraine and in the world;

to know modern views on the etiology and pathogenesis of periodontal diseases in children;

to know the classification of periodontal diseases;

to know the clinical manifestations of acute and chronic catarrhal gingivitis in children, to be able to carry out diagnostics and differential diagnostics;

to know the clinical manifestations of various forms of chronic hypertrophic gingivitis in children, to be able to carry out diagnostics and differential diagnostics;

to know the clinical manifestations of acute ulcerative-necrotic gingivitis in children, to be able to carry out diagnostics and differential diagnostics;

to know the clinical and radiological symptoms of periodontitis and to be able to carry out diagnostics, differential diagnosis of localized and generalized periodontitis in children;

know the x-ray semiotics of changes in the periodontium in gingivitis, periodontitis, periodontal syndrome;

to be able to diagnose periodontal syndromes and determine the dentist's tactics in diseases of the reticuloendothelial system, cyclic neutropenia, diabetes;

to be able to perform professional oral hygiene in the treatment of periodontal diseases in children of different ages ;

be able to treat various forms of gingivitis in children, choose means for local and general treatment depending on the clinical manifestations of the disease;

be able to treat localized and generalized periodontitis in children, choose means for local and general treatment depending on the clinical manifestations of the disease;

oral hygiene products for children with various periodontal tissue diseases;

to be able to determine the dispensary observation group at the dentist of a child with periodontal tissue diseases;

to be able to carry out primary and secondary prevention of periodontal tissue diseases in children.

Topic No. 1: Clinic, diagnosis, differential diagnosis, prevention and treatment of gingivitis in children. The choice of medicines, the method of their use.

Age-related morphological and functional features of periodontal tissues in children. Periodontal disease in children: trends in prevalence. Classification.

Etiology and pathogenesis of acute and chronic catarrhal gingivitis. Clinical manifestations of acute and chronic catarrhal gingivitis in children. Diagnostics. Determination of SRI and RMA indices. Differential diagnosis. X-ray signs of chronic catarrhal gingivitis and periodontitis.

Professional oral hygiene as an integral component of comprehensive treatment and prevention of periodontal diseases. Peculiarities of professional oral hygiene in children and adolescents with gingivitis.

Treatment of acute and chronic catarrhal gingivitis in children. Necessity of cooperation with a Pediatrician. Selection of drugs for local treatment. Methodology of their application, mechanism of action. Appointment of physiotherapeutic methods for the treatment of chronic catarrhal gingivitis in children.

Examination of children with chronic catarrhal gingivitis at the dentist. Recommendations for individual hygienic care of the oral cavity. Appointment of means for individual oral hygiene. Teaching methods of brushing teeth.

Etiology and pathogenesis of chronic hypertrophic gingivitis in children. Granulating and fibrous forms of chronic hypertrophic gingivitis in children. Diagnosis, differential diagnosis with diseases of the blood system.

Treatment of various forms of chronic hypertrophic gingivitis in children. Necessity of cooperation with a Pediatrician. Peculiarities of professional oral hygiene in chronic hypertrophic gingivitis in children and adolescents. Selection of drugs for local treatment. Methodology of their application, mechanism of action. Possibilities of using physiotherapeutic methods for the treatment of hypertrophic gingivitis in children.

Examination of children with chronic hypertrophic gingivitis at the dentist. Recommendations for individual hygienic care of the oral cavity.

Appointment of means for individual oral hygiene.

Etiology and pathogenesis of acute ulcerative gingivitis in children. General and local clinical manifestations of acute ulcerative gingivitis in children. Diagnosis, differential diagnosis with diseases of the blood system.

Treatment of acute ulcerative gingivitis in children. Necessity of cooperation with a Pediatrician. Peculiarities of professional oral hygiene in acute ulcerative gingivitis in children. Selection of drugs for local and general treatment. Methodology of their application, mechanism of action.

Peculiarities of individual hygienic care of the oral cavity in acute ulcerative gingivitis. Appointment of means for individual oral hygiene.

Topic No. 2: Periodontitis in children. Clinic, diagnosis. Principles of treatment of periodontitis in children. Periodontal syndrome in children. Clinic, diagnosis. Tactics of a dentist.

Localized and generalized periodontitis in children. Prevalence, main causes of development, general and local pathogenetic factors. Clinical manifestations of localized and generalized periodontitis in children.

Diagnosis, differential diagnosis. X-ray signs of periodontitis in children. Changes in the periodontium with anomalies in the location of the teeth and deformations of the jaws, anomalies in the attachment of the frenulum of the lips and tongue, with irrational orthodontic treatment.

Principles of prevention and treatment of localized and generalized periodontitis in children. Necessity of cooperation with a Pediatrician. Peculiarities of professional oral hygiene in children and adolescents with periodontitis. Selection of drugs for local and general treatment. Methodology of their application, mechanism of action.

Examination of children with periodontitis at the dentist. Recommendations for individual hygienic care of the oral cavity. Appointment of means for individual oral hygiene.

Characteristics of clinical and radiological manifestations of periodontal syndrome in diseases of the reticuloendothelial system (eosinophilic granuloma, disease

Hand-Christian-Schuller disease, Niemann-Pick disease, Gaucher disease, etc.), cyclic neutropenia, diabetes. Diagnosis, differential diagnosis. Tactics of the dentist.

Content module #2. " Diseases of the mucous membrane of the oral cavity and lips (traumatic, viral, allergic, fungal and in diseases of internal organs and systems) in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prophylaxis " .

Specific goals:

- to know the peculiarities of the structure and functions of the mucous membrane of the oral cavity in children of different ages;
- to know the frequency of ENT lesions in children. The connection of SOPR lesions in children with general diseases and metabolic disorders;
- to be able to diagnose lesions of the ENT of traumatic origin (mechanical, chemical and physical);
- to be able to diagnose, carry out differential diagnosis, treatment and prevention of viral lesions of ENT in children (acute herpetic stomatitis, recurrent herpetic stomatitis, herpangina);
- to be able to diagnose manifestations of acute childhood infectious and viral diseases (measles, scarlet fever, diphtheria, infectious mononucleosis, AIDS, etc.) and determine the tactics of a Pediatric dentist;

- to be able to diagnose, treat and prevent acute fungal stomatitis (thrush) in young children;
- to be able to diagnose and treat chronic fungal stomatitis in children of different ages. Know groups of modern antifungal agents and be able to choose drugs for local treatment;
- Stevens -Johnson syndrome , chronic recurrent aphthous stomatitis, etc. ;
- to be able to provide emergency aid for allergic reactions of the immediate type (anaphylactic shock, Kwinke's edema, etc.);
- to be able to diagnose and treat allergic reactions of delayed type in children of different ages;
- know groups of modern antiallergic agents and be able to choose drugs for local and general treatment;
- to know the changes in the SOPR in diseases of internal organs and systems (blood system, endocrine system, digestive system, etc.);
- know the manifestations of specific infections in children (AIDS, tuberculosis, syphilis, gonorrhea);
- to be able to diagnose abnormalities and diseases of the tongue and determine the tactics of the dentist;
- to be able to diagnose and determine the principles of treatment of independent and symptomatic cheilitis in children;
- to be able to determine the group of dispensary observation of a child with chronic ENT diseases at the dentist;
- to be able to give recommendations on oral hygiene care to children with various ENT diseases .

Topic No. 3: *Peculiarities of the structure and function of the mucous membrane of the oral cavity in children of different ages. Primary and secondary elements of SOPR lesions. Manifestations in the oral cavity in infectious diseases in children. Tactics of a dentist.*

Peculiarities of the structure and functions of the mucous membrane of the oral cavity (SOPR) in children of different ages. Primary and secondary elements of SOPR lesions. Protection mechanisms of SOPR.

Characteristics of acute childhood infectious and viral diseases (measles, scarlet fever, diphtheria, infectious mononucleosis, AIDS, and others). General clinical signs and manifestations on SOPR in these diseases, diagnosis. Manifestations of specific infections (tuberculosis, syphilis, gonorrhea) in Pediatric primary care.

Tactics of a Pediatric dentist. Necessity of cooperation with a Pediatrician.

Topic No. 4: *Illness SOPR of viral etiology (acute and recurrent herpetic stomatitis, herpes on) in children. Etiology, pathogenesis, clinic, treatment.*

Etiology and pathogenesis of viral lesions of ENT in children (acute herpetic stomatitis, recurrent herpetic stomatitis, herpangina). Clinic, diagnosis, differential diagnosis, treatment. Modern antiviral agents, their mechanism of action. Selection of drugs for local and general treatment. Assessment of treatment effectiveness.

Peculiarities of hygienic care of the oral cavity in children with ENT diseases of viral etiology. Prevention of viral lesions of ENT in children.

Topic No. 5: *Fungal lesions of the mucous membrane of the oral cavity in children. Etiology, pathogenesis, clinic, diagnosis. Diseases of lips and tongue in children. Independent and symptomatic cheilitis. Causes, clinic, diagnosis, treatment.*

Etiology and pathogenesis of fungal lesions of the SOPR in children: acute fungal stomatitis (thrush) in young children, chronic candidiasis of the SOPR. Clinical manifestations, diagnosis, differential diagnosis. Algorithms of diagnosis and treatment of acute and chronic candidiasis in children. Modern antifungal agents, their mechanism of action. Selection of drugs for local and general treatment. Assessment of treatment effectiveness.

Peculiarities of individual hygienic care of the oral cavity in the case of fungal etiology of SOPR diseases in children. Prevention of fungal lesions of SOPR in children.

Prevalence of lip diseases in children. Independent cheilitis (meteorological, exfoliative, glandular, microbial, actinic, contact allergic): etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, principles of treatment. Justification of the choice of means for local treatment.

Symptomatic cheilitis (eczematous, atopic, macrocheilitis): etiology, pathogenesis, clinical manifestations, diagnosis. differential diagnosis, principles of treatment. Necessity of cooperation with a Pediatrician. Justification of the choice of means for local and general treatment.

Diseases of the tongue in children. Clinical manifestations, diagnosis, tactics of the dentist.

Topic No. 6: *Manifestations of allergies in the oral cavity of children of different ages. Clinic, diagnosis, treatment.*

Allergic lesions of SOPR in children. Types of allergic reactions. Manifestations in the oral cavity of children of immediate-type allergic reactions: K'winke's edema , anaphylactic shock. Diagnosis, provision of emergency care. Oral manifestations of multiform exudative erythema,

Stevens-Johnson syndrome in children. Clinic, diagnosis, differential diagnosis, treatment. Groups of modern antiallergic agents, their mechanism of action. Selection of drugs for local and general treatment.

Peculiarities of individual hygiene care for the oral cavity in children with allergic etiology of the ENT diseases. Prevention of allergic diseases SOPR in children.

Topic No. 7: *Manifestations in the oral cavity in diseases of the gastrointestinal tract and endocrine system in children. Chronic recurrent aphthous stomatitis in children. Clinic, diagnosis, tactics of a Pediatric dentist.*

Characteristics of diseases of the endocrine system (diabetes, diseases of the thyroid gland, adrenal glands, etc.) and diseases of the gastrointestinal tract (gastroduodenitis, colitis, diseases of the liver, biliary tract, and pancreas) in children.

Clinical manifestations in the oral cavity in diseases of the endocrine system and gastrointestinal tract in children: changes in the hard tissues of the teeth, periodontal tissues, the mucous membrane of the oral cavity, and the papillary apparatus of the tongue. Determination of the dentist's tactics. Necessity of cooperation with a Pediatrician.

Examination at the dentist of children with diseases of the endocrine system and gastrointestinal tract. Prevention of major dental diseases in them.

Etiology, pathogenesis, prevalence of chronic recurrent aphthous stomatitis and Behçet's syndrome in children. Clinical manifestations, diagnosis, differential diagnosis. Principles of treatment, selection of means for general and local treatment. Necessity of cooperation with a Pediatrician.

Peculiarities of individual hygienic care of the oral cavity in chronic recurrent aphthous stomatitis in children. Examination at the dentist of a child with CKD. Prevention of CRS in children.

Topic No. 8: *Manifestations in the oral cavity in diseases of the blood system in children. Tactics of a Pediatric dentist*

Characteristics of diseases of the blood system: diseases of white blood (leukemia), diseases of red blood (anemia), diseases of the blood coagulation system (hemophilia, hemorrhagic diatheses, etc.).

Clinical manifestations in the oral cavity in diseases of the blood system in children: diagnosis, differential diagnosis. Interpretation of hemogram data in normal conditions and in various diseases of the blood system.

Determination of the dentist's tactics. Peculiarities of dental interventions for various diseases of the blood system in children. Necessity of cooperation with a Pediatrician.

Peculiarities of individual hygienic care of the oral cavity in various diseases of the blood system in children.

Topic No. 9: Protection of medical history.

Content module #3

Comprehensive assessment of the child's dental status . Drawing up an individual plan for remediation of the child's oral cavity and dental prevention, and their implementation."

Specific goals:

- demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination in a Pediatric therapeutic dentistry clinic;
- be able to analyze the results of a child's dental examination and identify risk factors for major dental diseases;
- to be able to identify leading syndromes and symptoms in Pediatric therapeutic dentistry;
- to be able to detect various clinical options and complications of the most common diseases in the clinic of Pediatric therapeutic dentistry;
- to be able to diagnose emergency conditions in the Pediatric therapeutic dentistry clinic;
- to be able to provide the necessary emergency care in emergency situations in the Pediatric therapeutic dentistry clinic;
- to be able to substantiate and formulate a preliminary clinical diagnosis in the clinic of Pediatric therapeutic dentistry;
- to be able to plan an examination of a dental patient, interpret the results of laboratory and instrumental studies in the most common cases diseases and their complications in the Pediatric therapeutic stomatology clinic;
- to be able to carry out differential diagnosis in the Pediatric therapeutic stomatology clinic;
- to be able to make a final diagnosis of the main diseases in the clinic of Pediatric therapeutic dentistry;
- to be able to determine the nature and principles of treatment of diseases in Pediatric therapeutic dentistry;

- to be able to treat caries, its complications, non-carious lesions of hard tissues of temporary and permanent teeth, diseases of periodontal tissues and ENT in children of different ages;
- to be able to carry out primary and secondary prevention of the main dental diseases in the clinic of Pediatric therapeutic dentistry;
- to be able to determine the group of dispensary observation of the child depending on the dental status and the state of somatic health □ i.

10 : Content , structure and requirements of the test license exam "Step 2" in the specialty "Dentistry". Solving sample test tasks, rules for filling out the answer sheet.

Familiarization with the content, structure and requirements of the license test exam "Step-2. Dentistry". Exam preparation tasks. Rules for solving test problems in Pediatric therapeutic dentistry.

A comprehensive practical-oriented exam in dentistry is the second component of the State certification of graduate students. Acquaintance with the rules of the exam, protocols of the first and second parts of the exam, evaluation forms.

Topic No. 11: *The main directions of the dental caries profession . General and local cariogenic factors. Endogenous and exogenous caries prevention. Means and methods, evaluation of effectiveness.*

Modern ideas about the etiology and pathogenesis of dental caries. Cariesogenic situation in the oral cavity, characteristics of the factors that form it. Mechanisms of de- and remineralization of enamel. The concept of caries resistance of enamel.

Endogenous prevention of dental caries: non-medicinal and medicinal methods. Correction of nutrition as an important component of endogenous prevention of dental caries. Use of calcium, fluorine, vitamins and trace elements for endogenous prevention.

Exogenous prevention of dental caries: local application of calcium and fluoride preparations in order to increase the degree of caries resistance of enamel. Hemerization of the fissure as an effective method of preventing caries of the occlusal surfaces of the tooth.

Drawing up an individual dental caries prevention plan depending on the child's age, dental status, identified risk factors.

Evaluation of the effectiveness of caries prevention at the group and individual levels. Interpretation of indicators of caries growth, reduction of caries growth.

Topic No. 12: *Peculiarities of the course, diagnosis and treatment of caries of temporary and permanent teeth in children. Modern filling materials, their characteristics and selection in the practice of Pediatric therapeutic dentistry.*

Regularities of the clinical course of caries of temporary and permanent teeth in children of different ages. Diagnosis and differential diagnosis of various forms of dental caries in children. The degree of caries activity according to T.F. Vinogradova.

Characteristics of caries treatment methods: remineralizing therapy, preventive filling, traditional treatment, silvering method, atraumatic restorative treatment. The choice of the method of treatment of caries of temporary and permanent teeth depends on the clinical features of its course.

Characteristics of modern filling materials used in the clinic of Pediatric therapeutic dentistry: glass ionomer cements, compomers, composite materials, silver amalgam. Properties, advantages and disadvantages of each of them. Indications for use and features of use in the treatment of dental caries in children of different ages.

Algorithms for preparation and filling of carious cavities of I- U classes in the treatment of caries of temporary and permanent teeth in children.

Appointment of means for individual hygienic care of the oral cavity depending on the dental status and age of the child. Determination of the dispensary observation group of a child with carious lesions of the teeth and the necessary volume of medical and preventive interventions.

Topic No. 13: *Clinic, diagnosis and differential diagnosis of pulpitis of temporary and permanent teeth in children. The choice of treatment method depends on the stage of tooth development and the form of pulpitis. Conservative, vital and devital methods of treatment: indications, method of execution, possible complications and their prevention.*

Etiology and pathogenesis of pulpitis in children. Patterns of clinical manifestations of pulpitis of temporary and permanent teeth in children of different ages. Diagnosis and differential diagnosis of various forms of pulpitis in children.

Characteristics of pulpitis treatment methods. The choice of the method of treatment of pulpitis in children depends on the form of pulpitis and the period of development of a temporary or permanent tooth. Indications for carrying out conservative, convalescent and devital methods of treatment of pulpitis in children.

Algorithm for performing devital methods of treatment of pulpitis in temporary teeth. Selection of drugs for treatment and material for root filling. Assessment of treatment effectiveness, prognosis.

Algorithm for performing conservative and vital methods of treatment of pulpitis in permanent teeth. Peculiarities of treatment of pulpitis in permanent teeth with an unformed root. Concept of apexogenesis. Selection of drugs for treatment and materials for root filling. Assessment of treatment effectiveness, prognosis.

Errors and complications in the treatment of pulpitis of temporary and permanent teeth in children. Analysis of causes, measures for their prevention and elimination.

Possibilities of rehabilitation of the child under general anesthesia.

Topic No. 14: Clinic, diagnosis and differential diagnosis of periodontitis of temporary and permanent teeth in children. Modern endodontic tools, features of endodontic interventions in temporary teeth and permanent teeth with an unformed root.

Etiology and pathogenesis of periodontitis in children. Patterns of clinical manifestations of periodontitis in temporary and permanent teeth in children of different ages. Diagnosis and differential diagnosis of various forms of periodontitis in children of different ages. X-ray signs of chronic forms of periodontitis.

Characteristics of periodontitis treatment methods. The choice of the method of treatment of periodontitis in children depends on the form of periodontitis and the period of tooth development. Indications for conservative and surgical treatment of periodontitis in temporary and permanent teeth in children.

Algorithms for conservative treatment of periodontitis in temporary teeth. Selection of drugs and material for root filling. Assessment of treatment effectiveness, prognosis.

Algorithms for conservative treatment of various forms (acute, chronic, exacerbation) of periodontitis in permanent teeth. Peculiarities of endodontic interventions in the treatment of periodontitis of permanent teeth with an unformed root. The concept of apexification. Selection of drugs and materials for root filling depending on the stage of tooth development. Assessment of treatment effectiveness, prognosis.

Errors and complications in the treatment of periodontitis of temporary and permanent teeth in children. Analysis of causes, measures for their prevention and elimination.

Topic No. 15: Periodontal disease in children. Gingivitis, periodontitis, periodontal syndrome. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis.

Modern ideas about the etiology and pathogenesis of periodontal tissue diseases. General and local pathogenetic factors (somatic diseases, unsatisfactory hygiene of the oral cavity, anomalies and deformations of the bite, anomalies of attachment of certain tissues in the oral cavity, etc.).

Clinic, diagnosis, differential diagnosis of various forms of gingivitis, periodontitis and periodontal syndrome in children. Index assessment of periodontal tissues and the state of oral hygiene. X-ray signs of gingivitis, periodontitis and periodontal syndrome.

Topic No. 16: *Basic principles of treatment of periodontal diseases. Selection of medicines.*

Principles of treatment and prevention of periodontal diseases in children. The role of professional oral hygiene in the prevention and treatment of periodontal tissue diseases. Peculiarities of professional oral hygiene in children and adolescents with periodontal tissue diseases.

Selection of means for local treatment of periodontal tissue diseases: drug groups, indications for use, mechanism of action. Appointment of general treatment with the participation of a Pediatrician. Assessment of treatment effectiveness. Forecast.

Appointment of means for individual hygienic care of the oral cavity depending on the dental status. Determination of the dispensary observation group of a child with periodontal tissue diseases.

Topic No. 17: *Differential diagnosis of diseases of the mucous membrane of the oral cavity (SOPR) in children (viral, bacterial, fungal, allergic and with somatic diseases).*

The structure of the SOPR in children of different ages. Mechanisms of protection of SOPR, their role in the pathogenesis of SOPR diseases in children. Characterization of the lesion elements in diseases of the SOPR.

Clinical characteristics of elements of the lesion on the SOPR in children with diseases of a viral, bacterial, fungal, allergic nature and with somatic diseases. Conduct differential signs of the clinical course and elements of the lesion on the SOPR in children with diseases of a viral, bacterial, fungal, allergic nature and with somatic diseases.

Topic No. 18: *Basic principles of treatment of ENT diseases in children (viral, bacterial, fungal, allergic and in case of somatic diseases)*

Etiotropic, pathogenetic and symptomatic treatment of ENT diseases in children (viral, bacterial, fungal, allergic and somatic diseases). General and local treatment.

Characteristics of drugs used for the etiotropic treatment of ENT diseases of various etiologies in children. The mechanism of action of etiotropic drugs (antiviral, antifungal, antiallergic, antiseptic). The choice of drugs for general and local treatment depends on the etiology of the disease and its severity.

Characteristics of drugs used for the pathogenetic treatment of ENT diseases of various etiologies in children. The mechanism of action of drugs of pathogenetic direction (anti-inflammatory non-steroidal and steroidal,

immunocorrective). The choice of drugs for general and local pathogenetic treatment depends on the characteristics of the clinical course of the disease and its degree of severity.

Characteristics of drugs used for the symptomatic treatment of COPD diseases of various etiologies in children. The mechanism of action of drugs for symptomatic treatment (analgesic, keratoplasty, antipyretic). Selection of drugs for general and local symptomatic treatment depending on the clinical features of the disease and its severity.

Algorithms of local treatment for ENT diseases in children (viral, bacterial, fungal, allergic and in somatic diseases).

Control of treatment effectiveness, prognosis. Examination at the dentist of children with chronic diseases of the mucous membrane of the oral cavity.

Topic No. 19: *Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of major dental diseases in children.*

MATRIX OF COMPETENCES

N o	Competence	Knowledge	Skill	Communication	Autonomy and responsibility
	<i>General competences</i>				
1	Ability to think abstractly, search, analyze, synthesize, process information from various sources of evidence-based medicine.	To know the current trends in the development of the industry and the indicators characterizing them.	Be able to analyze professional information, make informed decisions, acquire up-to-date knowledge.	Establish appropriate connections to achieve goals.	To be responsible for the timely acquisition of modern knowledge.
2	Ability to continuous learning.	To know the current trends in the development of the industry, innovations that can be introduced into professional	Be able to analyze professional information that requires updating and integration of knowledge.	Establish appropriate connections to achieve goals.	Be responsible for continuous professional development with a high level of autonomy.

		activity.			
3	Knowledge and understanding of the subject area and understanding of the profession.	To know the peculiarities of the professional activity of a dentist.	To be able to qualitatively carry out professional activities that require updating and integration of knowledge.	Form a communication strategy in professional activities.	To be responsible for the quality of professional activity.
4	The ability to implement knowledge in practical activities, situations	Know the methods of implementing knowledge in solving practical tasks.	Be able to use you have professional knowledge to solve practical problems.	To establish connections with subjects of practical activity.	To be responsible for the validity of the decisions made.
5	Ability to communicate orally and in writing in the national language. Ability to communicate in a foreign language.	Know the state language, including the professional direction. Possess a foreign language at a level sufficient for professional communication.	Be able to use national and foreign languages for professional activities and communication.	Form a communication strategy in professional activities using the state language and a foreign language.	Be responsible for using the national language when communicating with patients and colleagues.
6	Ability to effective professional and interpersonal communication and use of information and	Have modern knowledge in the field of information and communication technologies used in professional	Be able to use information and communication technologies in a professional field that	Using information and communication technologies in professional activity.	Be responsible for continuous development of professional knowledge and skills.

	communication technologies.	activities.	requires updating and integration of knowledge.		
7	The ability to adapt to new conditions and situations and the ability to act autonomously in them.	Know the methods of implementing knowledge in solving practical tasks of professional activity.	Be able to use you have professional knowledge for adaptation and actions in a new situation.	Establish connections with subjects of practical activity.	To be responsible for the quality of the performance of professional tasks in a new situation.
8	Ability to identify and solve problems.	Know the methods of implementing knowledge in identifying, setting and solving problems of professional activity.	Be able to use you have professional knowledge to identify and solve problems of professional activity.	Establish connections with subjects of practical activity with for the purpose of detection, formulation and solution problems of professional activity.	To be responsible for the validity of the decisions made regarding the solution problems of professional activity.
9	The ability to work in a team, in particular interdisciplinary national and international her	Know the ways of collective interaction while working in a team.	Be able to use to acquire knowledge for choosing a communication strategy during collective interaction.	Form a communication strategy in professional activities.	Be responsible for continuous professional development.

10	Compliance with deontological norms in professional activity.	Know the moral and ethical principles of a medical specialist and the rules of professional subordination.	I will use-apply the moral and ethical principles of a medical specialist and the rules of professional subordination in practical activities.	adheres to to follow the moral and ethical principles of a medical specialist and the rules of professional subordination during professional activity .	To bear personal responsibility for observing the moral and ethical principles of a medical specialist and the rules of professional subordination.
11	The ability to implement a system of knowledge and practical skills regarding the safety of one's own life and patients.	The ability to assess the level of danger when performing professional tasks.	To be able to carry out professional activities in compliance with the rules of safety of one's own life and patients.	To ensure high-quality performance of professional compliance activities safety rules own life and patients.	Be personally responsible for compliance with safety rules when performing professional tasks.
12	The ability to self-assess one's own achievements and increase their level.	Ability to evaluate and ensure quality in the performance of professional tasks.	To know the methods of evaluation of indicators of the quality of professional activity.	Be able provide quality performance of professional work	Establish connections to ensure quality performance of works.
13	The ability to assess the state of the environment, to contribute to the elimination of its negative effects on the	Ability to assess the state of the environment based on information from relevant sources and its	To be able to analyze indicators of the quality of the environment and their impact on the	Ensure quality performance of professional tasks in terms of environmental	To bear personal responsibility for compliance with the rules of environmental protection when performing professional

	health of society.	possible impact on dental health.	state of health of the population.	protection.	tasks.
1 4	The ability to act socially responsibly and civically.	Know your social and public rights and responsibilities .	To form one's civic consciousness , to be able to act in accordance with it.	Ability convey their public and social position	To bear responsibility for one's civic position and activities.
1 5	Ability to organize legal support and management of professional activity.	Know legal provisions and the basics of management of professional activity.	Perform professional duties in the legal field, based on modern approaches to the management of professional activity.	To organize one's professional activities and duties in the legal field, based on modern approaches to management.	To be responsible for the performance of professional duties in the legal field.
1 6	Leadership in the development and implementation of innovations and their use in professional activities.	Know the innovations that can be applied in the professional activity of a dentist.	Perform professional duties, use or the latest methods and technologies.	Constantly introduce innovations in practical professional activity.	To be responsible for the quality of the performance of professional tasks using the latest technologies.
1 7	The ability to realize one's rights and responsibilities as a member of society, to realize the need	Know your social and public rights and responsibilities as a member	To form one's civic consciousness , to be able to act in accordance	Ability convey their public and social position	To bear responsibility for one's civic position and activities.

	for its sustainable development, the rule of law.	of society.	with it.		
18	Ability to preserve and multiply moral, cultural, scientific values and achievements of society.	To know the moral, cultural, scientific values and achievements of society.	To form one's civic consciousness taking into account moral, cultural, scientific values and achievements of society.	Ability to convey their public and social position consciousness, taking into account moral, cultural, scientific values and achievements of society.	To bear responsibility for one's civic position and activities.
	<i>Special (professional) competences</i>				
1	Ability to collect medical information and analyze clinical data of examination of children with non-carious lesions of hard dental tissues, caries and its complications, diseases of periodontal tissues and oral mucosa.	Know dental algorithms of examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	To be able to perform a dental examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontium and mucous membrane of the oral cavity.	Communicate and interact with the child's parents and the teacher during dental procedures examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	To bear personal responsibility for the correctness of the dental examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.

2	The ability to interpret the results of laboratory and instrumental of studies used in the examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	Know the indications for the appointment of laboratory and instrumental of studies used in the examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	Be able to interpret laboratory and instrumental data of studies used in the examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	Communicate and interact with colleagues and the teacher during the analysis of the results of laboratory and instrumental studies used in the examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	To bear personal responsibility for the correct interpretation of the results of laboratory and instrumental of studies used in the examination of children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.
3	Ability to diagnose: determine preliminary, clinical, final, accompanying diagnoses in children with non-carious lesions of the hard tissues of the teeth, caries and its complications,	Know the leading clinical signs of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of	Be able to determine preliminary, clinical, final, accompanying diagnoses in children with non-carious lesions of the hard tissues of the teeth, caries and its complications,	Communicate and interact with colleagues and the teacher during the determination of preliminary, clinical, final, concomitant diagnoses in children with non-carious lesions	To bear personal responsibility for the correct determination of preliminary, clinical, final, concomitant diagnoses in children with non-carious lesions of the hard tissues of the teeth, caries and its complications,

	diseases of the periodontal tissues and the mucous membrane of the oral cavity.	the oral cavity. in children at different stages of their development.	diseases of the periodontal tissues and the mucous membrane of the oral cavity.	of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	diseases of the periodontal tissues and the mucous membrane of the oral cavity at various stages of their development.
4	The ability to plan and carry out preventive measures in children of different ages regarding non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity.	To know modern methods of prevention of non-carious lesions of hard tissues of teeth, caries and its complications, diseases of periodontal tissues and oral mucosa in children of different ages.	To be able to plan and carry out measures for the prevention of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	Communicate and interact with colleagues, parents, teachers during the planning and implementation of measures for the prevention of non-carious lesions of the hard tissues of teeth, caries and its complications, diseases of periodontal tissues and oral mucosa in children of various ages.	To bear personal responsibility for the correct planning and implementation of measures for the prevention of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.
5	The ability to design the process of providing dental care,	To know modern methods of treatment of non-carious	Be able to design the process of providing dental care,	Communicate and interact with colleagues and the teacher	Bear personal responsibility for the correctness of determining the principles of

	determine the principles of treatment of non-carious lesions of hard dental tissues, caries and its complications, diseases of periodontal tissues and oral mucosa in children of various ages.	lesions of hard tissues of teeth, caries and its complications, diseases of periodontal tissues and oral mucosa in children at various stages of their development, which are based on the principles of evidence-based medicine.	determine the principles of treatment of non-carious lesions of hard dental tissues, caries and its complications, diseases of periodontal tissues and oral mucosa in children, based on the principles of evidence-based medicine.	when determining the principles of treatment of non-carious lesions of hard dental tissues, caries and its complications, diseases of periodontal tissues and oral mucosa in children at various stages of their development.	treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children at various stages of their development.
6	The ability to determine a rational diet in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	Know the basic principles of rational nutrition, which can be applied in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	To be able to determine a rational diet in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	Communicate and interact with both the teacher and parents when determining a rational diet in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	To bear personal responsibility for the correctness of the definition of a rational diet in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.

7	The ability to determine the tactics of managing children with non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of periodontal tissues and the mucous membrane of the oral cavity and accompanying somatic diseases.	To know the features of the course of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children with concomitant somatic diseases - we.	To be able to perform dental manipulations in accordance with the algorithms for the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children with concomitant somatic diseases - we _	Communicate and interact with parents and teacher while performing dental manipulations for the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children with concomitant somatic diseases we.	To bear personal responsibility for the correct performance of dental manipulations for the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children with concomitant somatic diseases we.
8	The ability to perform medical and dental manipulations in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its	Know the algorithms for performing dental manipulations during the treatment of non-carious lesions of the hard tissues of the teeth, caries	To be able to perform dental manipulations in accordance with the algorithms for the treatment of non-carious lesions of the hard tissues of	Communicate and interact with colleagues and the teacher while performing dental manipulations for the treatment of	To bear personal responsibility for the correct performance of dental manipulations on phantoms for the treatment of non-carious lesions of hard dental tissues, caries and

	complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	its complications, diseases of periodontal tissues and oral mucosa in children of different ages.
9	The ability to treat the main diseases of the organs and tissues of the oral cavity in children.	Know modern clinical guidelines and treatment protocols main diseases of the organs and tissues of the oral cavity in children.	Be able to apply modern clinical guidelines and protocols in treatment main diseases of the organs and tissues of the oral cavity in children.	Establish connections with subjects of practical activity with for the purpose of detection, formulation and solution problems of professional activity.	To be responsible for the validity of the decisions made regarding the solution problems of professional activity.
10	The ability to organize and carry out a screening examination to identify risk groups for the development of non-carious lesions of the hard tissues of	Know modern methods of screening examination in dentistry to identify risk groups for the development of non-carious lesions of the hard tissues of	Be able to organize and conduct screening examination to identify risk groups for the development of non-carious lesions of the hard tissues of	Establish connections with subjects of practical activity with for the purpose of detection, formulation and solution	To be responsible for the validity of the decisions made regarding the solution problems of professional activity.

	the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	the teeth, caries and its complications, diseases of periodontal tissues and oral mucosa in children of various ages.	the teeth, caries and its complications, diseases of periodontal tissues and oral mucosa in children of various ages.	problems of professional activity.	
1 1	The ability to assess the impact of the environment on the health of children.	To know the main parameters characterizing the state of the natural environment and their impact on the health of children .	To be able to analyze the parameters characterizing the state of the natural environment and their impact on the health of the Pediatric population	Establish connections with subjects of practical activity with for the purpose of detection, formulation and solution problems of professional activity.	To be responsible for the validity of the decisions made regarding the solution problems of professional activity.
1 2	Ability to maintain regulatory medical documentation.	Know the forms of standard medical dental documentation.	Be able to correctly enter the necessary information in the medical dental documentatio n	Establish connections with subjects of practical activity.	To bear personal responsibility for the quality of medical dental documentation.

1 3	Processing of state, social and medical information.	Know the sources state, social and medical information.	Be able to analyze information from sources of state, social and medical information.	Establish connections with subjects of practical activity.	To be responsible for the validity of the decisions made regarding the solution problems of professional activity.
1 4	Ability to organize and carry out rehabilitation activities for children with diseases of the oral cavity.	Know the rehabilitation measures that can be used in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of different ages.	Be able to conduct rehabilitation measures in the treatment of non-carious lesions of the hard tissues of the teeth, caries and its complications, diseases of the periodontal tissues and the mucous membrane of the oral cavity in children of various ages.	Establish connections with subjects of practical activity.	To be responsible for the validity of the decisions made regarding the solution problems of professional activity.
1 5	The ability to legally secure one's own professional activity.	Know your social and public rights and responsibilities as a dentist.	To form one's civic consciousness, to be able to act in accordance with professional rights and responsibilities.	Ability to defend their civil and social rights position	To bear responsibility for one's civic position and activities.

STRUCTURE OF THE EDUCATIONAL DISCIPLINE. Module 2

[illegible]

diagnosis and treatment of hypertrophic gingivitis in children. The choice of medicines, the method of their use.	5.4	0.4	3			2						
Topic #3: Clinic, diagnosis, differential diagnosis and treatment of ulcerative-necrotic gingivitis in children. The choice of medicines, the method of their use.	5.4	0.4	3			2						
Topic No. 4: Periodontitis in children. Clinic, diagnostics.	5.8	0.8	3			2						
Topic No. 5: Principles of treatment of periodontitis in children.	5.8	0.8	3			2						
Topic #6: Periodontal syndrome in children. Clinic, diagnostics. Tactics of a dentist.	5.8	0.8	3			2						
Topic #7: Comprehensive module # 1	5		3			2						

Together	39	4	21			14						
<p><u>Content module 2.</u> " Diseases of the mucous membrane of the oral cavity and lips (viral, allergic, fungal and in diseases of internal organs and systems) in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment , prophylaxis</p>												
Topic #8: Acute herpetic stomatitis in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	7	2	3			2						
Topic #9: Manifestations in the oral cavity in infectious diseases in children. Tactics of a dentist	7	2	3			2						
Topic #10: Fungal lesions of the mucous membrane of the oral cavity in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	9	4	3			2						
Topic #11 : Manifestation of allergies in the oral cavity of	9	4	3			2						

children of different ages. Clinic, diagnosis, treatment and prevention.												
Topic #12: Manifestations in the oral cavity in diseases of the blood system in children. Tactics of a Pediatric dentist.	9	4	3			2						
Topic #13: Manifestations in the oral cavity in diseases of the gastrointestinal tract in children.	5		3			2						
Topic #14 : Manifestations in the oral cavity in diseases of the endocrine system in children.	5		3			2						
Topic #15: Chronic recurrent aphthous stomatitis. Clinic, diagnosis, tactics of a Pediatric dentist.	5		3			2						
Topic #16: Diseases of the lips in children. Independent cheilites. Clinic, diagnosis,	5		3			2						

treatment.												
Topic #17: Diseases of the lips in children. Symptomatic cheilitis. Causes, clinic, diagnosis, treatment.	5		3			2						
Topic #18: Diseases of the tongue in children.	5		3			2						
Topic No. 19: Protection of medical history. Content module No. 2.	5		3			2						
Topic #20: Diff. credit (PMK)	5		3			2						
Together with capacious module No. 2	81	16	39			26						

Content module 3. " *Comprehensive assessment of the child's dental status ."*
Determination of the need for therapeutic, surgical and orthodontic assistance.
Drawing up an individual plan for the rehabilitation of the child's oral cavity and dental prevention, and their implementation"

<p>Topic No. 1: Content , structure and requirements of the "Step 2" test license exam in the specialty "Dentistry". Rules for solving test tasks in Pediatric therapeutic dentistry, filling in the answer sheet.</p> <p>The main areas of dental caries prevention. General and local cariogenic factors. Endogenous and exogenous caries prevention. Means and methods, evaluation of effectiveness.</p>	5		3			2					
<p>Topic #2: Peculiarities of the course, diagnosis and treatment of caries of temporary and permanent teeth in children. Modern filling materials, their characteristics and selection in the practice of Pediatric therapeutic dentistry.</p>	3		3								

[illegible]

[illegible]

in nature). The choice of medicines, the mechanism of their action.												
Topic No. 15: Basic principles of treatment of diseases of the mucous membrane of the oral cavity and lips in children (bacterial, viral). The choice of medicines, the mechanism of their action.	3		3									
Topic #16: . Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of major dental diseases in children.	5		3			2						
Topic #17: Difzalik	8		2			6						
Together, meaningful module No. 3	60		50			10						
Only hours	180	20	110			50						

Thematic plan of lectures on the discipline of therapeutic dentistry for children

For students of the 5th year of the 9th semester of the IAEM Faculty of Dentistry 2022-2023.

Module No. 2 Diseases of periodontal tissues and oral mucosa in children.
Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of the main dental diseases in children.

No	Topics	Number of hours
1-2	Periodontal disease in children: etiology, pathogenesis. Gingivitis, periodontitis, and periodontal syndrome in children: prevalence, clinic, diagnosis, differential diagnosis, treatment, and prevention.	4
3-4	Peculiarities of the structure and function of the oral mucosa in children. Viral lesions of the SOPR: clinic, diagnosis, treatment and prevention.	4
5-6	Fungal lesions of SOPR in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	4
7-8	Allergic lesions of SOPR in children. Etiology, pathogenesis, clinic, diagnosis, treatment.	4
9-10	Manifestations in the oral cavity in diseases of the blood system in children. Clinic, diagnosis, tactics of a Pediatric dentist.	4
	In total:	20

Thematic plan practical classes

from the discipline of therapeutic dentistry for children

For students of the 5th year of the 9th semester of the IAEM Faculty of Dentistry 2022-23 n.y.

Module #2

Diseases of periodontal tissues and ENT in children. Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of the main dental diseases in children.

No	Topics 5th year, 9th semester	Number of hours
<u>Content module #1.</u> " <i>Disease of periodontal tissues in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prophylaxis</i> ".		
1	Clinic, diagnosis, differential diagnosis and treatment of catarrhal gingivitis in children. The choice of medicines, the method of their use.	3
2	Clinic, diagnosis, differential diagnosis and treatment of hypertrophic gingivitis in children. The choice of medicines, the method of their use.	3
3	Clinic, diagnosis, differential diagnosis and treatment of ulcerative-necrotic gingivitis in children. The choice of medicines, the method of their use.	3
4	Periodontitis in children. Clinic, diagnostics.	3
5	Principles of treatment of periodontitis in children.	3
6	Periodontal syndrome in children. Clinic, diagnostics. Tactics of a dentist.	3
7	Content module #1	3
<u>Content module No. 2.</u> " <i>Diseases of the mucous membrane of the oral cavity and lips (traumatic, viral, allergic, fungal and in diseases of internal organs and systems) in children: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, treatment, prophylaxis</i> . "		
8	Acute herpetic stomatitis in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
9	Manifestations in the oral cavity in infectious	3

	diseases in children. Tactics of a dentist.	
10	Fungal lesions of the mucous membrane of the oral cavity in children. Etiology, pathogenesis, clinic, diagnosis, treatment and prevention.	3
11	Manifestations of allergies in the oral cavity of children of different ages. Clinic, diagnosis, treatment and prevention.	3
12	Manifestations in the oral cavity in diseases of the blood system in children. Tactics of a Pediatric dentist.	3
13	Manifestations in the oral cavity in diseases of the gastrointestinal tract in children.	3
14	Manifestations in the oral cavity in diseases of the endocrine system in children.	
15	Chronic recurrent aphthous stomatitis. Clinic, diagnosis, tactics of a Pediatric dentist.	3
16	Diseases of the lips in children. Independent cheilites. Clinic, diagnosis, treatment.	3
17	Diseases of the lips in children. Symptomatic cheilitis. Causes, clinic, diagnosis, treatment.	3
18	Diseases of the tongue in children.	3
19	Protection of medical history. Content module #2.	3
20	Diff. test.	3
	In total	60

**Thematic plan of practical classes
from the discipline of therapeutic dentistry for children
For students of the 5th year of the 10th semester of the MAEM Faculty of
Dentistry 2019-2020.**

No	Topics Content module No. 3	Hours
1	Content, structure and requirements of the Step 2 test license exam in the	3

	<p>specialty "Dentistry". Rules for solving test tasks in Pediatric therapeutic dentistry, filling in the answer sheet.</p> <p>The main areas of dental caries prevention. General and local cariogenic factors. Endogenous and exogenous caries prevention. Means and methods, evaluation of effectiveness.</p>	
2	Features of the course, diagnosis and treatment of caries of temporary and permanent teeth in children. Modern filling materials, their characteristics and selection in the practice of Pediatric therapeutic dentistry.	3
3	Clinic, diagnosis and differential diagnosis of pulpitis of temporary and permanent teeth in children. The choice of treatment method depends on the stage of tooth development and the form of pulpitis. Vital and devital methods of treatment: indications, method of execution, possible complications and their prevention.	3
4	Clinic, diagnosis and differential diagnosis of periodontitis in temporary and permanent teeth in children. Modern endodontic tools, features of endodontic interventions in temporary teeth. Forecast.	3
5	<p>Injuries of primary teeth in children at different stages of root development. Tactics of a dentist.</p> <p>Injuries of permanent teeth in children at different stages of root development. Tactics of a dentist.</p>	3
6	Periodontal disease in children. Gingivitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Basic principles of treatment. Selection of medicines.	3
7	Periodontal disease in children. Periodontitis. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Basic principles of treatment. Selection of medicines.	3
8	Periodontal disease in children. Periodontal syndrome. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis. Basic principles of treatment. Selection of medicines.	3
9	Differential diagnosis of diseases of the mucous membrane of the oral cavity and lips in children of a viral nature.	3
10	Differential diagnosis of diseases of the mucous membrane of the oral cavity and lips in children of a bacterial nature	3

11	Differential diagnosis of diseases of the mucous membrane of the oral cavity and lips in children, of an allergic nature	3
12	Differential diagnosis of diseases of the mucous membrane of the oral cavity and lips in children with somatic diseases	3
13	Basic principles of treatment of diseases of the mucous membrane of the oral cavity and lips in children (for somatic diseases). The choice of medicines, the mechanism of their action.	3
14	Basic principles of treatment of diseases of the mucous membrane of the oral cavity and lips in children (of an allergic nature). The choice of medicines, the mechanism of their action.	3
15	Basic principles of treatment of diseases of the mucous membrane of the oral cavity and lips in children (bacterial, viral nature). The choice of medicines, the mechanism of their action.	3
16	Comprehensive diagnosis and determination of individual approaches to the prevention and treatment of the main dental diseases in children.	3
17	Diff. exam	2
	In total	50

**Thematic plan of students' independent out-of-classroom work
from the discipline of therapeutic dentistry for children
For students of the Faculty of Dentistry IAEM 2022-23 n.y.
5th year, 9-10 semesters**

Types of independent student work (S.S.)

No	Topic name 9th semester	Number hours
1.	Independent and other study of topics that are not part of the classroom lesson plan	36
	1. Changes in the oral cavity during orthodontic treatment with removable and fixed appliances. Clinic, treatment and prevention.	4

	2. Modern methods of diagnosing periodontal tissue diseases (<u>Florida Probe</u> , PA-ON)	4
	3 Modern physiotherapeutic methods of treatment in Pediatric therapeutic dentistry. Ozone therapy. Photodynamic therapy	4
	4. Modern physiotherapeutic methods of treatment in Pediatric therapeutic dentistry. Laser therapy	4
	5 Modern anti-allergic agents in the complex therapy of ENT diseases in children.	4
	6. Modern methods of prevention of dental caries and diseases of periodontal tissues in children.	4
	7 Phytotherapy in the complex treatment of diseases of periodontal tissues and COPD in children.	4
	8 Modern prebiotics, probiotics, eubiotics in the complex treatment of manifestations in the oral cavity in diseases of the gastrointestinal tract in children	4
	9 Pharmacodynamics of the main groups of drugs used in the treatment of periodontal tissue and oral mucosa diseases in children.	4
2	Writing medical history, preparation for Diff. exam	4
	In total	40
	10th semester	
1	Assessment of the individual risk of developing dental diseases and preparation of preventive programs.	4
2	Preparation for Diff. exam	6
	Together	10
	In total	50 hours

THEM TEACHING METHODS.

Types of educational activities of students according to the curriculum are: a) lectures; b) practical classes; c) independent work of students (SRS), in the organization of which teachers' consultations play a significant role. Thematic plans of lectures, practical classes and SRS ensure the implementation of all topics included in content modules in the educational process.

The topics of the lecture course reveal the problematic issues of the relevant sections of Pediatric therapeutic dentistry.

The clinical bases for teaching the discipline are the Department of Stomatology.

The method of conducting practical classes is as follows:

1. Each lesson begins with an assessment of *the initial level of knowledge* and determination of the degree of readiness of students for the lesson (test control, written tasks).
2. After that, the teacher *necessarily* conducts *an individual oral survey*, explains to the students some issues of the topic of the current lesson, answers the students' questions.
3. During the main stage of the class, students work on certain dental manipulations on their own, *directly at the patient's bedside*, related to the treatment and prevention of caries, its complications, periodontal tissue diseases, oral mucosa and other dental diseases in children. The teacher monitors the students' work, gives explanations, emphasizes the peculiarities of dental interventions in children of different ages, depending on the specific clinical situation.
4. At the final stage of the lesson, the teacher controls *the final level of students' knowledge* (test control, solving situational problems, individual student survey). At the end of the practical lesson, the teacher summarizes it, gives students tasks for independent work, points out key questions of the next topic and offers a list recommended literature for independent study.

H. METHODS OF CONTROL

The form of control and evaluation systems is carried out in accordance with the requirements and instructions adopted by the decision of the meeting of the Department of Stomatology of the "INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE" PVNZ by protocol No. 1 dated August 30, 2017.

The grade for the module is defined as the sum of the grades of current success (according to the scale of conversion of traditional grades into rating points), adopted by the decision of the Department of Dentistry of the International Academy of Ecology and Medicine, Protocol No. 1 dated August 30, 2017, and the grade for the final module control.

The maximum number of points that a student can score when studying each module is 200 points, including 120 points for the current educational activity, 80 points for the results of the final module control.

Current control of students' knowledge is carried out at each practical session in accordance with the specific goals of the topic. The following control methods are used to objectively diagnose the level of students' training: computer tests; solving situational problems; procedurally structured control of practical skills and abilities.

Evaluation of current educational activity:

When mastering each topic of the module for the current educational activity, students are assigned grades on a 4-point traditional scale. At the end of the module, the arithmetic average of grades is calculated. The student's current performance is converted into points by converting the average arithmetic grade into rating points according to the single universal scale of converting traditional grades from the 5-point system into rating points, adopted by the decision of the Department of Dentistry of the International Academy of Ecology and Medicine, Protocol No. 1 dated 30.08.2017 p.

The minimum grade for admission to the final module control is an average success rate of 3.00, which is equal to 72 rating points. The maximum GPA a student can receive is 5.00, which is equal to 120 rating points.

Criteria for evaluating students' current educational activities:

Excellent ("5") - the student answered 90-100% of the tests correctly, mastered the theoretical material flawlessly, demonstrates deep and comprehensive knowledge of the relevant topic or academic discipline, the main provisions of scientific primary sources and recommended literature, thinks logically and constructs an answer, freely uses the acquired theoretical knowledge when analyzing practical material, expresses his attitude to certain problems, demonstrates a high level of assimilation of practical skills.

Good ("4") - the student answered 70-89% of the tests correctly, mastered the theoretical material well, mastered the main aspects of primary sources and recommended literature, presented it in a reasoned way; has practical skills, expresses his thoughts on certain problems, but certain inaccuracies and errors are assumed in the logic of the presentation of theoretical content or in the analysis of practical ones.

Satisfactory ("3") - the student correctly answers 50-69% of the tests. Mainly acquired theoretical knowledge of the academic topic or discipline, orients himself in primary sources and recommended literature, but answers unconvincingly, additional questions cause uncertainty or lack of stable knowledge in the student; when answering questions of a practical nature, reveals inaccuracies in knowledge, does not know how to evaluate facts and phenomena, connect them with future activities.

Unsatisfactory ("2") - the student answers less than 50% of the tests, has not mastered the educational material of the topic (discipline), does not have scientific facts, definitions, almost does not orient himself in primary sources and recommended literature, lacks scientific thinking, practical skills are not formed .

The average score of the current academic performance on a traditional 4-point scale	Points for current performance after GPA conversion
2.00	0
2.05	49
2.10	50

2.15	52
2.20	53
2.25	54
2.30	55
2.35	56
2.40	58
2.45	59
2.50	60
2.55	61
2.60	62
2.65	64
2.70	65
2.75	66
2.80	67
2.85	69
2.90	70
2.95	71
3.00	72
3.05	73
3.10	74
3.15	75
3.20	77
3.25	78
3.30	79
3.35	80
3.40	82
3.45	83
3.50	84
3.55	85
3.60	86
3.65	87
3.70	89
3.75	90
3.80	92
3.85	93
3.90	94
3.95	95
4.00	96
4.05	97
4.10	98

4.15	99
4.20	101
4.25	102
4.30	103
4.35	104
4.40	106
4.45	107
4.50	108
4.55	109
4.60	110
4.65	111
4.70	113
4.75	114
4.80	115
4.85	116
4.90	118
4.95	119
5.00	120

Evaluation of independent work:

Assessment of independent work of students, which is provided for in the topic along with classroom work, is carried out during the current control of the topic in the corresponding classroom lesson.

The evaluation of topics that are assigned only to independent work and are not included in the topics of classroom training sessions is controlled by the final module control.

Assessment of individual student tasks

Points for individual tasks are awarded to the student only if they are successfully completed and defended.

12 points (which can be added to the grade in the discipline) are added for prize places in intercollegiate Olympiads in the discipline and intercollegiate and international scientific student conferences with the publication of work.

11-10 points are added for prize places at intra-university Olympiads and student scientific conferences with the publication of work.

10 points are added for participation (if the student participated, but did not receive a prize) in interuniversity Olympiads in the discipline and interuniversity and international scientific student conferences with the publication of work.

8 points are added for participation (if the student participated, but did not receive a prize) in intra-university Olympiads and student scientific conferences with the publication of work.

6 points are added for the production of mock-ups, models, diagrams, tables, stands, video films at the department - taking into account the importance of the work performed.

4 points are added for an abstract report on modern methods in therapeutic dentistry.

Final control (Difzalik)

The final control is carried out after the study of all topics of the module (content modules) is completed at the last control session of the module.

Students who have completed all types of work provided for in the curriculum and who have studied the module and scored at least the minimum number of points are admitted to the final examination.

The form of the final modular control is standardized and includes the control of theoretical and practical training.

The maximum number of points that a student can score when taking the PMK is 80 points.

The final module test is considered passed if the student has scored at least **50** points.

Assessment of discipline:

According to the decision of the Scientific Council of the "International Academy of Ecology and Medicine" from August 30, 2017, the discipline "Therapeutic Dentistry" in the 5th year ends with a state exam. The discipline is structured into two modules: the first is intermediate, the second is final.

The first module (intermediate) ends with a diff. credit, after which the teacher calculates the student's current success rate for the module and calculates the average score, then converts it into points according to the "Scale of conversion of traditional grades into rating points (200 points)", adopted by the decision of the Department of Dentistry of the International Academy of Ecology and Medicine , Protocol No. 1 dated 08/30/2017. If the sum of points is 122-200 points, the student receives "credited".

The second module (final) ends with a diff. by the calculation, which is carried out according to the schedule.

At the same time, the current academic performance is calculated for the entire course of study of the discipline, the average score is converted into points according to the "Scale of conversion of traditional grades into rating points (120 points)"

The score for the differential score corresponds to the scale:

grade "5" - 80-71 points

grade "4" - 70-61 points

grade "3" - 60-50 points

The grade for the discipline consists of the sum of the points for the current performance and the exam. The obtained points correspond to the fixed rating scale according to the "Instructions for evaluating exams and differential credits", adopted by the decision of the Department of Dentistry of the International Academy of Ecology and Medicine, Protocol No. 1 dated August 30, 2017.

Rating scale: national and ECTS

The sum of points for all types of educational activities	Evaluation on a national scale	
	for an exam, course project (work), practice	for credit
180-200 A	perfectly	counted
160-179 B	fine	
150-159 C		
130 -149 D	satisfactorily	
122-129 E		
FX	unsatisfactory with the possibility of reassembly	not counted with the possibility of retaking
F	unsatisfactory with mandatory repeated study of the discipline	not enrolled with mandatory repeated study of the discipline

XI. METHODOLOGICAL SECURITY

1. Methodical recommendations "Algorithms of practical skills" (for the practical-oriented exam - Pediatric dentistry) / Bezvushko E.V., Hirchak G.V., Stadnyk U.O. etc. - Lviv: LNMU, 2006. - 33 p.
2. Methodical recommendations "Algorithms for performing dental manipulations in Pediatric dentistry" (for the preparation of 5th-year students for the practical-oriented state final exam) / Bezvushko E.V., Stadnyk U.O., Solonko G.M. etc. - Lviv: LNMU, 2014. - 95 p.
3. Childhood dentistry: test tasks for student training (with justification of the correct answer) / Stadnyk U.O., Solonko H.M., Pryshko Z.R. etc. / Under the editorship Prof. Smolyar N.I. - Lviv, 2011. - 123 p.

4. Stadnyk U.O. Peculiarities of the structure and function of the oral mucosa in children. Viral lesions of the ENT: clinic, diagnosis, treatment: Text of the lecture for students. - Lviv, 2007.
5. Stadnyk U.O. Fungal lesions of the mucous membrane of the oral cavity (SOPR) in children. Etiology, pathogenesis, clinic, diagnosis, treatment: Text of the lecture for students. - Lviv, 2007.

XII. LIST OF THEORETICAL QUESTIONS FOR THE CURRENT TA FINAL EXAMINATION IN THE DISCIPLINE "PEDIATRIC THERAPEUTIC DENTISTRY" for students of the 5th year of the Faculty of Dentistry

1. The main components of the periodontium. Morpho-functional features of periodontal tissues in children of different ages.
2. Classification of periodontal tissue diseases (according to WHO).
3. Basic and additional methods for examining periodontal tissues in children. Methodology for determination of PMA and CPI indices.
4. Factors leading to the development of acute catarrhal gingivitis in children and its clinical signs.
5. Factors leading to the development of chronic forms of gingivitis in children, clinical signs of chronic catarrhal gingivitis in children.
6. General and local factors in the development of chronic hypertrophic gingivitis.

Clinical signs of fibrous and granulating forms of hypertrophic gingivitis.

7. Factors and conditions of development of acute ulcerative gingivitis in children. Features of the clinical course of this form of gingivitis in children.
8. Differential diagnosis between different clinical forms of gingivitis.
9. Treatment tactics for acute catarrhal gingivitis in children. Groups of drugs used to treat acute catarrhal gingivitis in children. The mechanism of their action.
10. Therapeutic and preventive tactics for chronic catarrhal gingivitis in children. Groups of drugs used to treat chronic catarrhal gingivitis in children. The mechanism of their action.
11. Treatment tactics for hypertrophic gingivitis in children. Groups of drugs that are used to treat hypertrophic gingivitis in children. The mechanism of their action.

12. Treatment tactics for acute ulcerative gingivitis in children. Groups of drugs that are used for general and local treatment of this form of gingivitis in children. The mechanism of their action. Sequence of application.
13. General and local causes of localized and generalized periodontitis in children. The main clinical and radiological signs of periodontitis in children.
14. Differential diagnosis between chronic forms of gingivitis and periodontitis.
15. Treatment tactics for generalized periodontitis in children. Groups of drugs used in the treatment of periodontitis in children. The mechanism of their action.
16. Means and methods of prevention of periodontal tissue diseases in children.
17. The main clinical signs and features of periodontal tissue damage in hereditary neutropenia. Treatment tactics.
18. Variants of the clinical course of eosinophilic granuloma. Disturbances observed in periodontal tissues. Tactics of a dentist.
19. The main clinical manifestations and features of periodontal tissue damage in Hand-Schüller-Christian disease. Christian's Triad. Tactics of a dentist.
20. Peculiarities of professional oral hygiene in gingivitis in children and adolescents. Execution algorithm.
21. Peculiarities of professional oral hygiene in periodontitis in children and adolescents. Execution algorithm.
22. Main clinical manifestations and changes in periodontal tissues in Papillon-Lefebvre syndrome. Tactics of a dentist.
23. Morphological features of the mucous membrane of the oral cavity in children in different age periods.
24. Etiological factors and conditions of development of HGS. General and local clinical signs of HGS in children with different degrees of severity.
25. General and local methods of treatment of HGS. Groups of drugs used in the treatment of HGS in children. Mechanism of action.
26. Peculiarities of the clinical course, treatment tactics for recurrent oral herpes in children.

27. The causative agent and features of the clinical course of herpetic tonsillitis in children. Treatment tactics for herpetic tonsillitis in children.
28. The causative agent and features of the clinical course of infectious mononucleosis. Tactics of a dentist. What changes are observed in peripheral blood with infectious mononucleosis?
29. The causative agent and features of the clinical course of measles. Characteristics of rashes. Tactics of a dentist.
30. The causative agent and features of the clinical course of scarlet fever. Describe the rashes. Determine the tactics of the dentist.
31. The causative agent and features of the clinical course of diphtheria. Tactics of a dentist.
32. Classification of SOPR candidiasis in children.
33. Causes of mold development in children. Clinical picture of acute SOPR candidiasis in children with varying degrees of severity.
34. Methods and means of local treatment of mold in children. Groups of drugs, their mechanism of action.
35. Clinical characteristics and differential signs of chronic candidiasis in children. Methods of laboratory examination used in candidiasis of the SOPR in children. Interpretation of the results of mycological examination of the SOPR?
36. Methods and means of treatment of chronic candidiasis SOPR in children. Groups of drugs, their mechanism of action.
37. Methods and means of prevention of acute and chronic candidiasis SOPR in children.
38. Causes, mechanism of development and clinical manifestations of anaphylactic shock in children. The main differential signs from other emergency conditions.
39. Principles of treatment of anaphylactic shock in children. Emergency measures.
40. Causes, mechanism of development and clinical manifestations of Quincke's edema. Principles of treatment and first aid measures for angioedema.
41. Causes, mechanism of development and clinical manifestations of multiform exudative erythema.

42. The main differential signs of multiform exudative erythema. Additional research methods for multiform exudative erythema. Interpretation of results.
43. Methods and means of general and local treatment of multiform exudative erythema. Groups of drugs used for this purpose, their mechanism of action.
44. Causes, mechanism of development and describe the clinical course of chronic recurrent aphthous stomatitis (CRAS). Methods and means of general and local treatment of ChRAS.
45. General clinical signs and oral manifestations of iron deficiency anemia in children. Changes in peripheral blood. Tactics of a dentist.
46. General clinical signs and manifestations in the oral cavity in acute leukemias in children. Changes in peripheral blood. Tactics of a dentist.
47. General clinical signs and oral manifestations of chronic leukemias in children. Changes in peripheral blood. Tactics of a dentist.
48. General clinical signs and manifestations in the oral cavity in hemophilia. How do indicators and speed of peripheral blood clotting change in hemophilia? Tactics of a dentist in hemorrhagic diatheses in children.
49. Causes of development and clinical manifestations of agranulocytosis in children. Changes in peripheral blood with agranulocytosis in children? Tactics of a dentist.
50. Changes in dental status with hypo- and hyperfunction of the thyroid and parathyroid glands. What hormones are associated with calcification of teeth?
51. Changes in the oral cavity in children with diseases of the liver and biliary tract.
52. Dental status in chronic gastritis in children depending on the state of secretion and in intestinal diseases in children.
53. Classification of cheilitis and causes leading to lip disease in children.
54. Clinical course and differential diagnosis of meteorological cheilitis. Principles of treatment and prevention.
55. Clinical course and differential diagnosis of glandular cheilitis. Principles of treatment and prevention.

56. Clinical course and differential diagnosis of contact allergic cheilitis. Principles of treatment and prevention.
57. Clinical course and differential diagnosis of microbial cheilitis. Principles of treatment and prevention.
58. Clinical course and differential diagnosis of atopic cheilitis. Principles of treatment and prevention.
59. Clinical course and differential diagnosis of eczematous cheilitis. Principles of treatment and prevention.
60. Clinical course and differential diagnosis of lymphedematous cheilitis. Principles of treatment and prevention.
61. Causes of development and clinical course of desquamative glossitis. Morphological changes of the epithelium of the tongue in desquamative glossitis. Tactics of a dentist.
62. Characteristics of the clinical course of folded and rhomboid glossitis. What are the peculiarities of the structure of the tongue in folded and diamond-shaped glossitis? Tactics of a dentist.
63. The value of scientific research by domestic scientists (I.Y. Novik, V.K. Leontiev, T.F. Vinogradova, L.O. Khomenko, etc.) in the creation and improvement of methods of prevention and treatment of the main dental diseases in children.
64. Epidemiology of the main dental diseases in children. Methodology of dental examination according to WHO. Prevalence, intensity of dental caries, SPI index as the main epidemiological indicators. Their characteristics, interpretation of results.
65. Evaluation of the hygienic state of the oral cavity. The purpose of the study. Hygiene indices of Fedorov-Volodkina, Green-Vermilion, Silnes-Lowe. Determination method, interpretation of results.
66. Index assessment of periodontal tissue condition (RMA, SRI, SBI). Determination method, interpretation of results.
67. Homeostasis of hard tooth tissues. Mechanisms of its regulation. The role of saliva and tooth pulp in maintaining the mineral composition of hard tooth tissues.
68. Cariesogenic situation in the oral cavity. Main components, methods of detection and elimination. Mechanism of enamel demineralization.
69. Means and methods of hygienic care of the oral cavity. Individual, controlled, professional teeth cleaning.

70. Prevention of diseases of periodontal tissues. Professional removal of dental layers. Means and methods of individual oral hygiene in periodontal tissue diseases.
71. Hygienic training and education in the system of prevention of dental diseases. Organizational principles and methods of hygienic training and education.
72. The main areas of dental caries prevention. Endogenous and exogenous prevention, their essence, justification of application.
73. Endogenous prevention of dental caries. Characteristics of groups of drugs used. Preparation of a prevention plan, evaluation of effectiveness.
74. Endogenous prevention of dental caries by fluoride preparations. Indications, determination of dose, mechanism of action of fluoride, evaluation of effectiveness.
75. Exogenous prevention of dental caries. Modern means and methods of exogenous prevention of dental caries, evaluation of effectiveness.
76. Sealing fissures as a method of preventing caries of chewing teeth in children. Classification of sealants. Indication. Sealing terms. Invasive and non-invasive sealing.
77. Comprehensive system of prevention of dental diseases. Main components, stages of implementation.
78. Analysis and assessment of the effectiveness of primary prevention of dental caries and periodontal diseases.
79. Examination of children at the dentist as a method of implementing primary prevention of dental diseases. Organizational principles, methods of forming dispensary groups.
80. Mechanisms of protection of the oral cavity, dento-gingival sulcus. Their role in the prevention of dental caries and periodontal tissue diseases in children and adolescents.
81. The role of dental layers in the development of periodontal diseases in adolescents. Methods of their detection, elimination and prevention of formation.
82. The choice of methods and means for individual hygienic care of the oral cavity depending on the dental status.

83. Planning and implementation of dental caries prevention in children of different ages. The choice of preventive means, methods of their application.
84. Purpose, methods and means of dental examination. Identification of risk factors for the development of major dental diseases.
85. Periods of development of temporary teeth. Periods of setting and mineralization of temporary teeth. Factors affecting these processes in the antenatal period. Terms and signs of physiological eruption of temporary teeth.
86. Periods of development of temporary teeth. Terms of formation and resorption.
87. Periods of development of permanent teeth. Timings of placement, mineralization and eruption of permanent teeth. Factors affecting these processes in the intra - maxillary period of tooth development.
88. Anatomical and topographic features of the structure of temporary and permanent unformed teeth. Stages of tooth root development, their X-ray characteristics.
89. Etiology and pathogenesis of dental caries in children and adolescents. Classification. The main regularities of the course of caries of temporary and permanent teeth in children.
90. Clinic, diagnosis, differential diagnosis of caries of temporary and permanent teeth at different stages of their development in children.
91. Treatment of caries of temporary and permanent teeth in children. Modern methods of treatment. Sealing materials, their choice.
92. Treatment of caries of permanent teeth with incomplete root formation. Selection of medical and sealing materials.
93. Remineralizing therapy of acute primary dental caries in children. Indications, means, methods of implementation, efficiency criteria.
94. Decompensated form of dental caries in children. Reasons for development. Tactics of a Pediatric dentist. Local and general treatment.
95. Systemic and local enamel hypoplasia. Causes of development, clinic, differential diagnosis, treatment and prevention.
96. Fluorosis. Causes of development, clinic, diagnosis, differential diagnosis. Tactics of treatment and prevention.

97. Hereditary malformations of teeth (Stainton-Kapdepon syndrome, imperfect dentino- and amelogenesis). Causes of development, clinic, treatment tactics.
98. Anatomical and physiological features of the pulp of temporary and permanent teeth at different stages of tooth development. Clinic, diagnosis, differential diagnosis of acute and chronic pulpitis of temporary teeth in children.
99. Clinic, diagnosis, differential diagnosis of acute and chronic pulpitis in permanent teeth in children.
100. Acute traumatic pulpitis of temporary and permanent teeth in children. Tactics of treatment. Selection of medicines.
101. Clinic, diagnosis, differential diagnosis and treatment of pulpitis complicated by periodontitis in temporary and permanent teeth in children.
102. Biological method of treatment of pulpitis in children. Indications, methods, modern medical means, mechanism of their action. Monitoring the effectiveness of treatment.
103. Vital amputation of the pulp of permanent teeth in children. Indications, method of execution, prognosis. Modern methods of anesthesia in the treatment of pulpitis in children, the choice of drugs for local anesthesia.
104. Vital extirpation of the pulp of permanent teeth in children. Indications, method of performance in children. Peculiarities of anesthesia in childhood, the choice of drugs for local anesthesia.
105. Devital amputation of the pulp in temporary teeth. Indications, method of implementation, selection of devitalizing agents, effectiveness control.
106. Devital pulp extirpation in temporary and permanent teeth in children. Indications, execution method, effectiveness control.
107. Root canal filling of temporary and permanent teeth in children in the treatment of pulpitis. Selection of materials for root fillings depending on the stage of tooth development. Sealing technique, efficiency control.
108. Anatomical and physiological features of the periodontium of temporary and permanent teeth in children. The growth zone, its

structure, participation in the formation of the tooth root. X-ray characteristics of the stages of root formation.

109. Classification of periodontitis. Features of the course of acute and exacerbation of chronic periodontitis of temporary and permanent teeth in children. Differential diagnosis.
110. Clinical and radiological characteristics of chronic forms of periodontitis of temporary and permanent teeth in children. Differential diagnosis.
111. Treatment of acute periodontitis of temporary and permanent teeth in children.
112. Treatment of exacerbation of chronic periodontitis of temporary and permanent teeth in children.
113. Principles of treatment of chronic periodontitis of temporary and permanent teeth in children. The choice of the method of treatment of chronic periodontitis of temporary teeth.
114. Treatment of chronic periodontitis of permanent teeth with unformed roots. Methodology, efficiency control, forecast.
115. The choice of root filling in the treatment of periodontitis of temporary and permanent teeth in children. Methods of temporary and permanent obturation of root canals.
116. Classification of traumatic dental lesions in children. Clinic, diagnosis, tactics of treatment of traumatic lesions of temporary teeth. Forecast.
117. Clinic, diagnosis and tactics of treatment of traumatic injuries of permanent teeth in children.

XIII. LIST OF PRACTICAL TASKS AND WORK FOR THE CURRENT TA

IN THE DISCIPLINE "PEDIATRIC THERAPEUTIC DENTISTRY" for students of the 5th year of the Faculty of Dentistry

1. To be able to interpret the data of cytological and microbiological examination of the contents of the periodontal pocket.
2. To be able to interpret X-ray examination data for periodontal diseases in children.
3. To be able to interpret hemogram data as normal in children of different ages, in diseases of the blood system and other pathological conditions.
4. Be able to determine the severity of chronic catarrhal gingivitis according to the PMA index.

5. Be able to determine the degree of periodontal tissue damage according to the SRI index.
6. Be able to determine the hygienic condition of the oral cavity according to the Green-Vermillion index.
7. Be able to carry out individual hygienic training and upbringing of a child depending on the dental status, in particular, on the state of the periodontal tissues and ENT.
8. Be able to prescribe means for individual hygienic care of the oral cavity in case of various dental status, in particular, in diseases of periodontal tissues and ENT.
9. To be able to perform professional oral hygiene for gingivitis and periodontitis in children and adolescents.
10. Be able to perform oral irrigation for children of different ages.
11. Be able to carry out instillations of medicines in the gums and periodontal pockets.
12. Be able to carry out applications in the treatment of diseases of periodontal tissues and SOPR.
13. Be able to remove plaque and layering from the surface of the mucous membrane of the gums and other areas of the oral cavity.
14. To be able to prescribe physiotherapeutic methods for the treatment of diseases of periodontal tissues and SOPR in children.
15. Be able to identify risk factors for the development of major dental diseases during a child's dental examination.
16. Be able to draw up an individual plan for the prevention of dental caries and periodontal tissue diseases in a child.
17. Be able to determine the need for therapeutic, surgical, orthodontic assistance during a child's dental examination and draw up an individual plan for the child's rehabilitation.
18. Be able to cover teeth with fluorine-containing varnish, apply fluorine-containing gel, deep fluoridation of enamel.
16. Be able to perform fissure sealing by non-invasive and invasive methods using various sealants.
17. Be able to determine the group of dispensary observation of the child and the individual scope of treatment and preventive measures.

XV. Recommended Books:

Basic literature

1. Khomenko L.O. and singing Therapeutic dentistry of Pediatric age, Kyi in , Kniga plus, 2001.- 524p.
2. Propaedeutics of Pediatric therapeutic stomatology (edited by Prof. L.O. Khomenko). – K.: "Book Plus", 2011. - 320 p.
3. Khomenko L.A., Ostapko E.I., Bydenko N.V. Clinical and radiological diagnosis of dental and periodontal diseases in children and adolescents. - Kyiv: "Knyga plus", 2004. - 200 p.
4. Khomenko L.A., Bydenko N.V. Practical endodontic instruments, materials and methods. - Kyiv, Kniga plus, 2002. - 216p.
5. Bydenko N.V. Glass ionomer materials and their application in dentistry. - Moscow: "Book plus", 2003. -144 p.
6. Khomenko L.A., Savychuk A.V., Bydenko N.V., Ostapko E.I. et al. Prophylaktikastomatologicheskiches zabolevani: uchebnoeposobie. - Part 1. - K.: "Book Plus", 2007. - 127 p.
7. Khomenko L.A., Savychuk A.V., Bydenko N.V., Ostapko E.I. et al. Prophylaktikastomatologicheskiches zabolevani: uchebnoeposobie. - Part 2. - K.: "Book Plus", 2008. - 132 p.

Additional literature:

1. Borysenko A.V. Therapeutic dentistry, volume 2
2. Borysenko A.V. Therapeutic dentistry, volume 3
3. Borysenko A.V. Therapeutic dentistry, volume 4
4. Borovsky E.V., Ivanov V.S., Maksimovsky Yu.M., Maksimovskaya L.N. Therapeutic dentistry. – M.: Medicine, 1998. – 736 p.
5. Borovsky E.V., Zhokhova N.S. Endodontic treatment. - M., 1997. - 64 p.
6. Borovsky E.V., Danylevsky N.F. Atlas of diseases of the mucous membrane of the stomach. - Moscow: Medicine, 1981. - 288 p.
7. Borovsky E.V., Leontiev V.K. Biology polostirta. - M.: Medicine, - 198 p.

8. Vynogradova T.F. Dentistry of Pediatric age (a guide for doctors). - M.: "Medytsyna", 1987. - 528 p.
9. Vynogradova T.F. Dispensation of children at the dentist./2nd ed., reworked. and add.— (B-ka prakt .v racha. Vazhneishievoprosystematologii). - M.: "Medytsyna", 1988 - 256 p.
10. Groshikov M.I. Non-carious lesions of tooth tissues. - M .: Medicine,
1985.—176 p.
11. Granitov V.M. Herpesvirus infection. - M .: Medknyga, N. Novgorod: NGMA publishing house, 2001. - 88 p.: ill.
12. Grigoryan A.S., Grudyanov A.I., Rabukhina N.A., Frolova O.A. Periodontal diseases. Pathogenesis, diagnosis, treatment. - M.: MYA, 2004. - 320 p.
13. Daggel M.S. et al. Atlas of restoration of milk teeth. Lory Institute, Moscow, 2001.
14. Danylevskiy M.F., Sidelnikova L.F., Rakhniy Z.I. Pulpit. —
K. Zdorovya, 2003. — 168 p.
15. Danylevskiy M.F., Nesin O.F., Rakhniy Z.I. Diseases of the mucous membrane of the oral cavity; under the editorship prof. M.F. Danylevsky - K.: "Zdorov "ya , 1998. - 408 p.
16. Deltsova O.I., Tchaikovsky Yu.B., Herashchenko S.B. Histology and embryogenesis of the organs of the oral cavity: a study guide . - Kolomyia: VPT
"Vik", 1994. - 94 p.
17. Mucous membrane diseases of the tongue and lips / Ed. Prof. E. V. Borovsky, Prof. A. L. Mashkilleyson. - M.: MEDpress, 2001. - 320 p., illustrations.
18. Ivanov V.S., Vinnychenko Yu.A., Ivanova E.V. Inflammation of the tooth pulp. - M. IA, 2003. - 264 p.
19. Klyueva S.K., Moroz B.T. Fundamentals of genetics for dentists. —
St. Petersburg :O "MEDY publishing house", 2005. - 68 p.
20. Kolesov A.A. Pediatric dentistry. - 4th ed. - M .: Medicine, 1991— 464p.

21. Korchagina V.V. Treatment of dental caries in children of early age. - Moscow: MEDpress-inform, 2008. -168 p.
22. Kostromskaya N.N., Glotova O.N. Therapeutic and insulating pads in dentistry. - M.: Medknyga, N. Novogorod : I zd-vo NGMA, 2001. - 80 p.
23. Kuryakina N.V. Therapeutic dentistry of Pediatric age. - M.: MYA, 2007. - 632 p.
24. Treatment and restoration of baby teeth (illustrated guide to treatment and restoration of carious baby teeth): Trans. in English/ M.S. Duggal, M.E.J. Kerzon , S.A. Fail and others - M.: MEDpress-inform, 2006. - 160 p.
25. Maksimovaskaya L.N., Roschyna P.I. Medicines in stomatology: Handbook. - 2nd ed. - M.: Medicine, 2000. – 240 p.
26. Makeeva I.M. Restoration of teeth with light-cured composite materials. - M., 1997. -72 p.
27. Marchenko A.I., Kononovych E.F., Solntseva T.A. Treatment of the patient in Pediatric therapeutic dentistry. - K.: Health, 1988.-160 p.
28. O.I. Marchenko, R.V. Kazakova, N. Dychko, M.M. Rozhko, N.O. Gevkalyuk. Diseases of the mucous membrane of the oral cavity in children. - Ivano-Frankivsk, 2004. - 134 p.
29. Nikolaev A.I., Tsepov L.M. Practical therapeutic stomatology: Teaching aid / A.I. Nikolaev, L.M. Tsepov. - 8th ed. - M.: MEDpress s- inform, 2008. - 960 p.
30. Nikolyshyn A.K. Modern endodontic practitioner. – Poltava, 2003. – 208 p.
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