

LVIV NATIONAL MEDICAL UNIVERSITY
NAME OF DANYLO HALYTSKY

Department of Pediatric Dentistry

“APPROVED ”

TEC of the first vice-rector for scientific and
pedagogical work
Assoc. Solonyenko I.I.

“05” 07 2022

CURRICULUM OF THE DISCIPLINE

Pediatric Therapeutic Dentistry

**training of specialists of the second (master's) level of higher education
areas of knowledge 22 "Health"
specialty __221 "Dentistry" __**

“Approved”
on meeting of Department
of Pediatric Dentistry
Protocol №7
from "15" June 2022
Head of Department

Assoc.prof. Kolesnichenko O.V.

"Approved"
of profiled methodical commission
of dental disciplines
Protocol № 3
from "21" June 2022 Head of
methodical commission

Professor Vares Ya. E.

PROGRAM DEVELOPERS: Kolesnichenko OV, Head of Pediatric Dentistry Department, PhD, Associate Professor; Hrynyshyn OB, PhD, Associate Professor of the Pediatric Dentistry Department; Girchak GV, PhD, Associate Professor of the Pediatric Dentistry Department, Solonko GM, PhD, Associate Professor of the Pediatric Dentistry Department.

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INTRODUCTION

The working program of the discipline "Pediatric Therapeutic Dentistry" for fourth-year students of Dental Department Faculty of Dentistry is made in accordance with the Draft Standard of Higher Education of Ukraine of the second (master's) level

areas of knowledge 22 Health

(code and name of the field of knowledge)

specialty 221 Dentistry

(code and name of the specialty)

educational program of master of dentistry

DESCRIPTION OF THE COURSE (ANNOTATION)

Pediatric dentistry is a complex and multi-component specialty, where a specialist acting as a dentist must think like a pediatrician. The training and activities of pediatric dentist require a lot of strength, skills, time and energy. Every specialist who works with children should know the features of the antenatal and postnatal periods of development and formation of hard tissues of teeth, jaw bones, soft tissues of the face, as well as how these processes affect the health of mother and child, various negative factors that can lead to the emergence and development of dental diseases. Pediatric dentist should also know the features of clinical manifestations and patterns of pathological processes in the maxillofacial area in children, as well as methods of treatment and prevention of dental diseases at different periods of age.

Based on the knowledge gained by students in general biological, general clinical, dental departments and the Pediatric dentistry department, it is necessary to teach students the features of the clinic, diagnosis and treatment of dental diseases in children of different age and prepare a doctor who can work in treatment and prevention in dental institutions of different levels. The future dentist must know the modern principles of organization and management of treatment and prevention of dental care, be able to organize the primary prevention of dental diseases, dental rehabilitation of children.

The structure of the discipline	Number of credits, hours, of them			Year of study semester	type of control	
	Total	Classroom				SWS
		Lectures (hours)	Practical classes (hours)			
Course title: Pediatric Therapeutic Dentistry	4 credits / 120 years	6	54	60	4th year (7/8 semesters) Test Exam	

The subject of study of the discipline "Pediatric therapeutic dentistry "during the 4th year of study:

- main stages of development of temporary and permanent teeth; the influence of various factors on the processes of teeth development;
- methods of examination of children with dental caries and its complications; the importance of additional examination methods for the diagnosis of dental caries and its complications;
- etiology, pathogenesis, classification of dental caries in children. Clinical manifestations, diagnosis, differential diagnosis and treatment of caries of temporary and permanent teeth in children of different age;
- modern restorative materials, indications for use in the clinic of pediatric therapeutic dentistry; features of filling of carious cavities of different classes in temporary and permanent teeth in children with different restorative materials;
- etiology, pathogenesis, classification of pulpitis in children. Clinical manifestations, diagnosis, differential diagnosis and treatment of pulpitis of temporary and permanent teeth in children of different age, the choice of treatment modalities and medication;
- etiology, pathogenesis, classification of periapical periodontitis in children. Clinical manifestations, diagnosis, differential diagnosis and treatment of periapical periodontitis of temporary and permanent teeth in children of different age, the choice of treatment modality, medication and materials for temporary and permanent root canal obturation;
- etiology, pathogenesis, classification of non-carious lesions of teeth in children. Clinical manifestations, diagnosis, differential diagnosis and treatment of acquired and congenital malformations of dental hard tissues in children of different age, the concept of a multidisciplinary approach to the treatment of non-carious dental lesions in children;
- etiology, pathogenesis, classification of traumatic dental injuries in children. Clinical manifestations, diagnosis, differential diagnosis and treatment of traumatic injuries of temporary and permanent teeth in children of different age.

Interdisciplinary connections

"Pediatric therapeutic dentistry" as a discipline

a) is based on previous study of human anatomy, histology, embryology and cytology, medical biology, medical chemistry, biological and bioorganic chemistry, medical physics, microbiology, virology and immunology, pediatrics and should integrate with these disciplines;

b) lays the foundations for students to study such clinical disciplines as prevention of dental diseases, pediatric surgical dentistry, therapeutic dentistry, orthodontics;

c) is based on the study of students of preventive disciplines of dental profile: prevention of pediatric therapeutic dentistry, prevention of therapeutic dentistry, prevention of prosthetic dentistry and integrates with these disciplines;

d) integrates with the following clinical disciplines: prevention of dental diseases, pediatric surgical dentistry, orthodontics and therapeutic dentistry;

e) forms an idea of professional responsibility for the quality of caries treatment and its complications in children of different age; there is the necessity for widespread introduction of primary prevention of dental diseases, including dental caries.

PURPOSE AND TASKS OF THE COURSE

1.1 The purpose of teaching the discipline " Pediatric therapeutic dentistry " is the learning of skills in the diagnosis, differential diagnosis and treatment of caries and its complications in children of different age based on the study of their etiology, pathogenesis, clinical manifestations, methods of diagnosis and differential diagnosis, treatment methods, selection and application of modern dental materials and medicines.

1.2 The task of studying the discipline "Pediatric Therapeutic Dentistry" aimed at the formation of integrated, general and professional (special) competencies and the achievement of defined learning outcomes which are pointed out at the Standard of High Education of Ukraine of the second (master's) level of knowledge 22 - "Health" specialty 221 - "Dentistry".

1. Identify the leading clinical symptoms and syndromes of caries and its complications in temporary and permanent teeth in children by standard methods, based on complications, anamnesis of disease and patient life history, examination data, ability to establish a probable nosological or previous clinical diagnosis:

- facial asymmetry;
- toothache;
- pain in the soft tissues of the maxillofacial area;
- hyperesthesia;
- headache;
- defects of the crown of the tooth;
- discoloration of teeth;
- inflammatory infiltrates of the tissues of the maxillofacial area;
- discoloration of the skin, mucous membranes of the mouth;
- changes in the shape of the teeth;
- lymphadenopathy;
- dental plaque;
- fistula;
- limits on mouth opening;
- teeth mobility.

2. Collect data regarding the general condition of the patient, assess the psychomotor and physical development of the child, the condition of the maxillofacial area.

3. Assign and analyze (mandatory and optional) additional methods of examination of children with caries and its complications in temporary and permanent teeth for differential diagnosis:

- general blood test;
- general urine test;
- interpretation of data of radiological examination of MFA;
- microbiological examination of oral fluid;
- immunological examination;
- functional diagnostics (luminescent, etc.).

4. To determine the final clinical diagnosis, adhering to ethical and legal norms, by making an informed decision and logical analysis of the obtained subjective and objective data of clinical and additional examinations, conducting differential diagnosis under the supervision of a doctor in a medical institution :

- caries of temporary and permanent teeth;
- pulp diseases of temporary and permanent teeth;
- periapical periodontitis of temporary and permanent teeth;
- traumatic injuries of temporary and permanent teeth;
- non-carious lesions of the hard tissues of the teeth.

5. Determine the treatment modality by making an informed decision according to standard guidelines and existing schemes:

- caries of temporary and permanent teeth;
- pulp diseases of temporary and permanent teeth;
- periodontitis of temporary and permanent teeth;
- traumatic injuries of temporary and permanent teeth;
- non-carious lesions of the hard tissues of the teeth.

6. Perform treatment according to existing guidelines and standard schemes under the supervision of head doctor of medical institution:

- caries of temporary and permanent teeth;
- pulp diseases of temporary and permanent teeth;
- periodontitis of temporary and permanent teeth;
- traumatic injuries of temporary and permanent teeth;
- non-carious lesions of the hard tissues of the teeth.

7. Perform the dental manipulations in temporary and permanent teeth in children:

- pulpotomy in temporary and permanent teeth;
- caries tissue excavation;
- determination of acid resistance of enamel;
- sealing of teeth fissures;
- diagnostic use of dyes;
- pulpectomy of temporary and permanent teeth;
- electroodontometry;
- local anesthesia for treatment of dental caries or its complications;
- deep fluoridation of hard tissues of temporary teeth;
- application and removal of temporary seals;
- application of a rubber dam;
- root canal obturation of temporary and permanent teeth;
- restoration of carious cavities of temporary and permanent teeth with different filling materials;
- using of fluoride varnishes on teeth;
- instrumentation and irrigation of root canals of temporary and permanent teeth;
- preparation of carious cavities of temporary and permanent teeth with taking into account the type of restorative materials;
- performance of professional oral hygiene;
- direct and indirect pulp capping;
- compilation of the algorithm of individual oral hygiene;
- polishing of restorations made from all types of restorative materials.

8. Meet the requirements of ethics, bioethics and deontology in professional activities.

9. Plan and implement prevention measures to prevent the spreading of dental diseases in children.

1.3 Competences and learning outcomes, the formation of which is facilitated by the discipline (*relationship with the normative content of training of high education, formulated in terms of learning outcomes in the Standard of High Education of Ukraine of the second (master's) level of knowledge "22 - Health" 221-Dentistry*).

In accordance with the requirements of the Standard, the discipline provides students with the acquisition of competencies:

Integral :

Ability to solve problems in the field of health care in the specialty "Dentistry" in a professional activity or in the learning process, which involves research and / or innovation and is characterized by uncertainty of conditions and requirements.

General :

1. Ability for abstract thinking, research, analysis, synthesis; processing of information from various sources, based of evidence-based medicine.
2. Ability to lifelong studying.
3. Understanding of the subject area and profession.
4. Ability to implement knowledge in practice.
5. Ability to communicate orally and in writing form in Ukrainian and English.
6. Effective professional and interpersonal communication, ability to easy use of modern information and communication technologies
7. Ability to identify and solve problems.
8. Ability to work in a team, including interdisciplinary approach and international communication.
9. Increase of personal professional level.
10. The ability to assess the environmental condition to help eliminate its negative effects on health.
11. Ability to act socially responsible and civic conscious.
12. Ability to organize legal support and management of professional activity.
13. Leadership in the development and implementation of innovations and their use in professional activities.
14. The ability to exercise their rights and responsibilities as a member of society, to realize the need for its sustainable development, the rule of law.
15. The ability to preserve and multiply moral, cultural, scientific values and achievements of society.

Special (professional, subject):

1. Ability to collect medical information about the child and analyze clinical data on caries and its complications.
2. Ability to interpret the results of laboratory and instrumental studies for the differential diagnosis of caries and its complications.
3. Ability to diagnose: to determine the preliminary, clinical, final, concomitant diagnosis of caries and its complications.
4. Ability to plan and implement measures for the prevention of dental diseases, including dental caries.
5. Ability to design the process of providing medical care - to determine the approaches, plan, types and principles of treatment of caries and its complications in children.
6. Ability to determine a rational diet in the treatment of caries and its complications in children.
7. Ability to determine the treatment modality for child with caries and its complications and concomitant somatic diseases.
8. Ability to perform medical and dental manipulations necessary for the treatment of caries and its complications in children.
9. Ability to treat caries and its complications in children.
10. Ability to organize and conduct screening examinations among children to identify risk groups for caries.

11. Ability to assess the impact of the environment on the health of the population and the peculiarities of caries and its complications in children.
12. Ability to maintain regulatory medical records.
13. Processing of state, social and medical information.
14. Ability to organize and provide rehabilitation activities in children with caries complications and dental injuries.
15. Ability to provide legal support for one's own professional activity.

Detailing of competencies according to NQF descriptors in the form of "Competence Matrix".

COMPETENCE MATRIX

№	Competence	Knowledge	Skills	Communication	Autonomy and responsibility
	<i>General competencies</i>				
1.	Ability to abstract thinking, search, analysis, synthesis, processing of information from various sources of evidence-based medicine.	Know the current trends in the industry and the indicators that characterize them	Be able to analyze professional information, make informed decisions, acquire modern knowledge	Install the appropriate connections to achieve goals.	Be responsible for the timely acquisition of modern knowledge.
2.	Ability to lifelong learning.	Know the current trends in the dentistry, innovations that can be introduced into professional activities.	Be able to analyze professional information that requires updating and integration of knowledge.	Install the appropriate connections to achieve goals.	Be responsible for continuous professional development with a high level of autonomy.
3.	Knowledge and understanding of the subject area and understanding of the profession.	Know the features of dental professional activity.	Be able to carry out quality professional activities that require updating and integration of knowledge.	To form a communication strategy in professional activity.	Be responsible for the quality of professional activity.
4.	Ability to implement knowledge in practice.	Know the methods of implementing knowledge to solve practical problems.	Be able to use professional knowledge to solve practical problems.	Connect with subjects of practical activity.	Be responsible for the validity of decisions.
5.	Ability to communicate orally and in writing in the state language. Ability to communicate in a	Know the state language, including professional orientation. Know a foreign language at a	Be able to use the state language and a foreign language for professional activities and communication.	To form a communication strategy in professional activity using the state language and a	Be responsible for the use of the state language when communicating with patients and colleagues.

	foreign language.	level sufficient for professional communication		foreign language.	
6.	Effective professional and interpersonal communication and ability to use the informative and communicative technologies.	Have modern knowledge in the field of information and communication technologies used in professional activities	Be able to use information and communication technologies in the professional field, which requires updating and integration of knowledge.	Use information and communication technologies in professional activities	Be responsible for the continuous development of professional knowledge and skills.
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 problems of professional activity	Be able to use professional knowledge to adapt and act in a new situation.	Connect with subjects of practical activity.	Be responsible for the quality of professional tasks in the 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 professional knowledge to identify and solve problems of professional activity.	Connect with subjects of practical activity with in order to identify, set and solve problems of professional activity.	To be responsible for the validity of the decisions made on the decision problems of professional activity.
9.	Ability to work in a team, interdisciplinary approach and international communication.	Know the ways of collective interaction while working in a team	Be able to use knowledge to choose a communication strategy during collective interaction	To form a communication strategy in professional activity.	Be responsible for continuous professional development
10	Observance of deontological norms in professional activity.	Know the moral and ethical principles of a medical specialist and the rules of professional subordination	Use in practice the moral and ethical principles of the medical specialist and the rules of professional subordination.	Adheres to during the professional activity of the moral and ethical principles of the medical specialist and the rules of professional subordination.	To bear personal responsibility for observance of moral and ethical principles of the medical specialist and rules of professional subordination.
11	Ability to implement a system of knowledge and	Ability to assess the level of danger when performing	Be able to carry out professional activities in	Ensure quality professional performance	To bear personal responsibility for observance of safety

	practical skills for the safety of their own lives and patients.	professional tasks	compliance with the rules of safety of their own lives and patients.	activities in compliance safety rules their own lives and patients.	rules at performance of professional tasks
12	Ability to self-assess their own achievements and increase their level.	Ability to evaluate and ensure quality in performing professional tasks.	Know the methods of assessing the quality of professional activity.	Be able provide high-quality professional performance work.	Establish links to ensure quality work.
13	The ability to assess the state of the environment, to help eliminate its negative effects on public health.	Ability to assess the state of the environment on the basis of information from relevant sources and its possible impact on dental health.	Be able to analyze environmental quality indicators and their impact on public health.	Ensure quality professional performance tasks in terms of preserving the environment.	To bear personal responsibility for observance of rules of preservation of environment at performance of professional tasks
14	Ability to act socially responsible and civic conscious.	Know your social and community rights and responsibilities	To form one's civic consciousness, to be able to act in accordance with it.	Ability to convey their public and social position.	Take responsibility for your civic position and activities
15	Ability to organize legal support and management of professional activity.	Know the legal support and basics of professional management.	Perform professional duties in the legal field, based on modern approaches to professional management.	Organize their professional activities responsibilities in the legal field, based on modern approaches to management	Be responsible for the performance of professional duties in the legal field.
16	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 using the latest methods and technologies	Constantly introduce innovations into practical professional activities.	Be responsible for the quality of professional tasks using the latest technology.
17	The ability to exercise their rights and responsibilities as a member of society, to realize the need for its sustainable development, the rule of law.	Know your social and community rights and responsibilities as a member of society.	To form one's civic consciousness, to be able to act in accordance with it.	Ability to convey their public and social position.	Take responsibility for your civic position and activities
18	The ability to	Know the moral,	To form the civic	Ability	Take responsibility for

	preserve and multiply moral, cultural, scientific values and achievements of society.	cultural, scientific values and achievements of society.	consciousness taking into account moral, cultural, scientific values and achievements of a society.	to convey their public and social position consciousness taking into account the moral, cultural, scientific values and achievements of society.	your civic position and activities
<i>Special (professional competencies)</i>					
1.	Ability to collect medical information and analyze dental examination data of children with caries and its complications.	Know the algorithms of dental examination of children with caries and its complications in temporary and permanent teeth.	Be able to conduct dental examinations of children with caries and its complications in temporary and permanent teeth.	Communicate and interact with the child's parents and the teacher during the dental examination of children with caries and its complications in temporary and permanent teeth.	Take personal responsibility for the correctness of the dental examination of children with caries and its complications in temporary and permanent teeth.
2.	Ability to interpret the results of laboratory and instrumental their research used in the examination of children with caries and its complications.	Know the indications for the appointment of laboratory and instrumental their research used in the examination of children with caries and its complications.	Be able to interpret laboratory and instrumental data their research used in the examination of children with caries and its complications.	Communicate and interact with colleagues and the teacher during the analysis of the results of laboratory and instrumental research used in the examination of children with caries and its complications.	Be personally responsible for the correct interpretation of laboratory and instrumental results. their research used in the examination of children with caries and its complications.
3.	Ability to diagnose: determine	Know the leading clinical signs of caries and its	Be able to determine preliminary,	Communicate and interact with	Be personally responsible for the correctness of the

	preliminary, clinical, final, concomitant diagnoses caries and its complications.	complications in temporary and permanent teeth in children at different stages of their development.	clinical, final, concomitant diagnoses caries and its complications in temporary and permanent teeth in children at different stages of their development.	colleagues and the teacher during the determination of preliminary, clinical, final, concomitant diagnoses caries and its complications in temporary and permanent teeth in children at different stages of their development.	preliminary, clinical, final, concomitant diagnoses caries and its complications in temporary and permanent teeth in children at different stages of their development.
4.	Ability to plan and implement measures to prevent dental caries in children.	Know modern methods of caries prevention of temporary and permanent teeth in children.	Be able to plan and implement measures to prevent dental caries in children of different ages.	Communicate and interact with colleagues, parents, teachers when planning and conducting activities to prevent tooth decay in children.	Take personal responsibility for the correct planning and implementation of measures to prevent tooth decay in children.
5.	Ability to design the process of providing dental care, determining the principles of treatment of caries and its complications in children.	Know modern methods of treatment of caries and its complications in temporary and permanent teeth in children at different stages of their development, which are based on the principles of evidence-based medicine ..	Be able to design the process of providing dental care, determine the principles of treatment of caries and its complications in children, based on the principles of evidence-based medicine.	Communicate and interact with colleagues and the teacher in determining the principles of caries treatment and its complications in temporary and permanent teeth in children at different stages of their development.	Take personal responsibility for the correctness of the principles of treatment of caries and its complications in temporary and permanent teeth in children at different stages of their development.
6.	Ability to determine a rational diet in the treatment of caries	Know the basic principles of nutrition that can be used in the	Be able to determine a rational diet in the treatment of caries	Communicate and interact with both the teacher and	Take personal responsibility for the correctness of the definition of a rational

	and its complications in children.	treatment of caries and its complications in children.	and its complications in children.	parents in determining a rational diet in the treatment of caries and its complications in children.	diet in the treatment of caries and its complications in children ..
7.	Ability to determine the tactics of management of children with caries and its complications and concomitant somatic diseases.	To know the peculiarities of caries and its complications in temporary and permanent teeth in children with concomitant somatic diseases.	Be able to perform dental manipulations in accordance with the algorithms for the treatment of caries and its complications in temporary and permanent teeth in children with concomitant somatic diseases .	Communicate and interact with parents and the teacher during the dental manipulations for the treatment of caries and its complications in temporary and permanent teeth in children with concomitant somatic diseases.	To bear personal responsibility for correctness of performance of stomatologic manipulations for the treatment of caries and its complications in temporary and permanent teeth in children with concomitant somatic diseases.
8.	Ability to perform medical and dental manipulations in the treatment of caries and its complications in temporary and permanent teeth in children.	Know the algorithms for performing dental manipulations in the treatment of caries and its complications in temporary and permanent teeth in children at different stages of their development.	Be able to perform in accordance with the algorithms of dental manipulations for the treatment of caries and its complications in temporary and permanent teeth in children at different stages of their development.	Communicate and interact with colleagues and the teacher during the performance of dental manipulations for the treatment of caries and its complications in temporary and permanent teeth in children at different stages of their development.	To bear personal responsibility for the correct execution on the phantoms of dental manipulations for the treatment of caries and its complications in temporary and permanent teeth in children at different stages of their development.
9.	Ability to treat caries and its complications in temporary and	Know modern clinical guidelines and treatment protocols	Be able to apply modern clinical guidelines and protocols in	Connect with subjects of practical activity with	To be responsible for the validity of the decisions made on the decision

	permanent teeth in children ..	major diseases of the organs and tissues of the oral cavity in children.	treatment major diseases of the organs and tissues of the oral cavity in children.	in order to identify, set and solve problems of professional activity.	problems of professional activity.
10	Ability to organize and conduct a screening examination to identify risk groups for caries.	Know modern screening methods examination in dentistry to identify risk groups	Be able to organize and conduct screening examination to identify risk groups for caries and periodontal disease in children	Connect with subjects of practical activity with in order to identify, set and solve problems of professional activity.	To be responsible for the validity of the decisions made on the decision problems of professional activity.
11	Ability to assess the impact of the environment on public health.	Know the basic parameters that characterize the state of the environment and their impact on the health of children	Be able to analyze the parameters that characterize the state of the environment and their impact on the health of children	Connect with subjects of practical activity with in order to identify, set and solve problems of professional activity.	To be responsible for the validity of the decisions made on the decision problems of professional activity.
12	Ability to maintain regulatory medical records.	Know the forms of regulatory medical dental documentation	Be able to correctly enter the necessary information in the medical dental documentation	Connect with subjects of practical activity.	Be personally responsible for the quality of medical dental records.
thirteen.	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	Connect with subjects of practical activity.	To be responsible for the validity of the decisions made on the decision problems of professional activity.

14	Ability to organize and conduct rehabilitation activities in children with diseases of the oral cavity.	Know the rehabilitation measures that can be used in the treatment of caries and its complications in children	Be able to conduct rehabilitation measures in the treatment of caries, its complications and traumatic dental lesions in children	Connect with subjects of practical activity.	To be responsible for the validity of the decisions made on the decision problems of professional activity.
15	Ability to provide legal support for one's own professional activity.	Know your social and community rights and responsibilities as a dentist	To form the civil consciousness, to be able to act according to professional rights and duties.	Ability to defend their civil and social position.	Take responsibility for your civic position and activities

LEARNING OUTCOMES:

Integrative final program learning outcomes, the formation of which should be facilitated by the discipline "Pediatric Therapeutic Dentistry":

1. Identify the leading clinical symptoms by standard methods, using history, examination of the child; to establish a probable nosological or preliminary clinical diagnosis of caries and its complications in temporary and permanent teeth in children.
2. Collect medical data regarding the general condition, psychomotor and physical development status of the child; evaluate information on the diagnosis of caries and its complications in temporary and permanent teeth in child.
3. Prescribe and analyze additional (mandatory and optional) methods of examination (radiological, functional, etc.) in children with caries and its complications for diagnosis and differential diagnosis.
4. To determine the final clinical diagnosis of caries and its complications in temporary and permanent teeth in children, adhering to the relevant ethical and legal norms, by making an informed decision and analysis of subjective and objective data of clinical, additional examination, differential diagnosis under the supervision of the doctor-manager in medical institution.
5. Plan and implement measures for the prevention of dental diseases among children to prevent the spread of dental caries.
6. Analyze the epidemiological situation and determine the measures of general and individual prevention measures of dental caries prevention.

7. To determine the caries and its complications treatment modalities in temporary and permanent teeth in children by making an informed decision according to existing algorithms and standard guidelines.
- 8 To determine a appropriate diet in the treatment of caries and its complications in temporary and permanent teeth in children on the basis of preliminary or final clinical diagnosis by making an informed decision according to existing algorithms and standard guidelines.
- 9 To determine the tactics of management of children with caries and its complications and associate somatic diseases by making an informed decision according to existing algorithms and standard guidelines.
10. Perform the caries treatment and its complications in temporary and permanent teeth in children according to existing algorithms and standard guidelines under the supervision of a dentist-manager in a medical institution.
11. Assess the impact of the environment on the health of the population and the development of caries and non-cariou lesions of the hard tissues of temporary permanent teeth in children.
12. Adhere to the requirements of ethics, bioethics and deontology in the varnishing of caries and its complications in temporary and permanent teeth in children.

Learning outcomes for the discipline.

As a result of studying the discipline "Pediatric Therapeutic Dentistry" the student must know:

- basic stages of development of temporary and permanent teeth;
- terms of eruption and formation of roots of temporary and permanent teeth;
- modern ideas about the etiology and pathogenesis of dental caries in children;
- to analyze the prevalence and intensity of dental caries in children in terms of age and the factors influencing these indicators;
- clinical classification of dental caries and the formulation of the diagnosis of caries;
- regularities of the clinical course of caries of temporary teeth depending on the age of the child;
- features of the course of caries in permanent teeth depending on the stage of tooth development;
- diagnostic and differential diagnostic signs of caries of temporary and permanent teeth in children;
- treatment of caries of temporary and permanent teeth in children;
- selection of restorative materials and medicine for caries treatment of temporary and permanent teeth in children of different age;
- mistakes and complications in the treatment of caries of temporary and permanent teeth in children, their prevention and elimination;
- classification of non-cariou lesions of teeth in children and formulation of the diagnosis;
- clinical features of non-cariou lesions of teeth in children and necessity for a multidisciplinary approach to their treatment;
- and atomical-physiological features of the pulp of temporary and permanent teeth at different stages of teeth development;
- modern ideas regarding the etiology and pathogenesis of pulpitis in temporary and permanent teeth in children;
- classification of the pulpitis;
- the clinical course of pulpitis in temporary and permanent teeth in children of different ages;
- diagnostic and differential diagnostic signs of pulpitis of temporary and permanent teeth in children;

- methods of treatment of pulpitis; algorithms for performing the main methods of treatment of pulpitis in children;
- mistakes and complications in the treatment of pulpitis in children, their prevention and elimination;
- and anatomical and physiological features of the periodontium of temporary and permanent teeth at different stages of teeth development;
- modern ideas regarding the etiology and pathogenesis of periodontitis in temporary and permanent teeth in children;
- classification of periodontitis;
- the clinical course of periodontitis in temporary and permanent teeth in children of different age;
- diagnostic and differential diagnostic signs of periodontitis of temporary and permanent teeth in children;
- choice of method of periodontitis treatment, algorithms for performing conservative method of periodontitis treatment;
- mistakes and complications in the treatment of periodontitis in children, methods of prevention and elimination;
- clinic, diagnosis and principles of treatment of traumatic injuries of temporary and permanent teeth in children.

As a result of studying the discipline "Pediatric Therapeutic Dentistry" the student must be able to:

- diagnosis and differentially diagnosis of various forms of caries of temporary teeth in children of different age;
 - caries treatment modalities of temporary teeth in children by different methods (remineralization therapy, deep fluoridation of enamel and dentin, ART-technique, preparation and restoration with using of different filling materials);
 - to carry out diagnostics and differential diagnosis of various forms of caries of permanent teeth in children of different age;
 - be able to choose restorative materials for the treatment of caries and non-carious lesions of the teeth in children;
 - to diagnose and differentially diagnose various forms of non-carious dental lesions in children of different ages;
 - to determine treatment modalities and treat various forms of non-carious dental lesions in children of different age;
 - to perform of caries treatment of permanent teeth in children by different methods (remineralizing therapy, deep fluoridation, preventive filling, preparation and filling with different filling materials);
 - prescribe general treatment of dental caries to children with decompensated caries associated with somatic diseases;
 - to diagnose and carry out differential diagnosis of different forms of pulpitis in temporary and permanent teeth in children;
 - choose the method of treatment of pulpitis of a temporary or permanent tooth depending on the form of pulpitis, the stage of tooth development and other factors;
 - to treat pulpitis in temporary and permanent teeth in children using various methods;
 - to diagnose and carry out differential diagnosis of different forms of periodontitis in temporary and permanent teeth in children;
 - choose a method of treatment of periodontitis of a temporary or permanent tooth depending on the form of periodontitis, the stage of tooth development and other factors;
 - to treat periodontitis in temporary and permanent teeth in children using various methods;

- diagnose different types of traumatic injuries of temporary and permanent teeth in children;
- to determine medical tactics and perform treatment of various types of traumatic injuries of temporary and permanent teeth in children;
- interpret the data of X-ray examination for caries and its complications in children of different age;
- understand the mistakes and complications that may occur during endodontic treatment in children, ways to prevent and eliminate them.

1. INFORMATION SCOPE OF THE COURSE

120 academic hours , or **4 ECTS credits, are** provided for the study of the discipline "Pediatric Therapeutic Dentistry" (4th year of study, 7/8 semesters).

Of these: **60 hours - classroom** (6 hours of lectures and 54 hours of practical classes) **and 60 hours of SWS** (self- work of students).

Duration of practical class - 2 academic hours (15 classes) in the 7th semester and 2 academic hours (12 classes) in the 8th semester.

Lecture duration - 2 academic hours (6 hours of lectures in the 7th semester).

Self work of students - 24 hours in 7 and 36 hours in 8 semesters.

3. STRUCTURE OF THE COURSE 7 SEMESTER

Topic	Lectures	Practical (seminar) classes	Self-work
Semester I			
1. The main stages of development of temporary and permanent teeth. Periods of establishment, mineralization, eruption and formation of temporary and permanent teeth in children. Determination of factors influencing the processes of tooth development in children.		2	
2. Caries of temporary teeth in children. Patterns of clinical manifestations and course. Diagnosis, differential diagnosis, treatment.	2	2	3
3. Features of preparation and filling of carious cavities in temporary and permanent teeth, choice of filling materials.		2	2
4. Caries of permanent teeth in children. Patterns of clinical manifestations and course. Diagnosis, differential diagnosis, treatment.		2	
5. Preparation and filling of carious cavities in various forms of caries. Selection of sealing materials. General treatment of caries: planning, methods.		2	3
6. Errors and complications in the treatment of caries in children of different ages. Their prevention and elimination.		2	2
7. Non-carious lesions of hard tooth tissues in children: hypoplasia, fluorosis. Etiology, clinic, diagnosis, differential diagnosis, treatment,		2	3

prevention.			
8. Hereditary defects in the development of hard tissues of the teeth: imperfect amelogenesis, imperfect dentinogenesis, Stanton-Kapdepon dysplasia. Clinic, diagnosis, tactics of a pediatric dentist.		2	
9. Pulpitis of temporary teeth in children. Regularities of the clinical course in children of different ages. Clinic, diagnosis, differential diagnosis, treatment.	2		3
10. The choice of the method of treatment of pulpitis in temporary teeth in children depending on the form of pulpitis and the stage of tooth development. Vital pulpotomy - performance technique, materials. Peculiarities of local anesthesia in children			
11. Treatment of pulpitis of temporary teeth in children. Vital and devital pulp extirpation. Indications, method of execution, control of effectiveness.			3
12. Pulpitis of permanent teeth in children. Patterns of clinical manifestations in children of different ages, diagnosis, differential diagnosis Conservative method (Vital pulp therapy). Indications, execution method, efficiency control, prognosis.			3
13. Treatment of pulpitis of permanent teeth in children. Vital pulpotomy. Indications, method of execution, selection of medicines and materials.			2
14. Treatment of pulpitis of permanent teeth in children. Vital and devital pulp extirpation. Indications, method of execution, choice of filling materials for root fillings.			
15. Errors and complications in the treatment of pulpitis of temporary and permanent teeth in children. Their prevention and elimination.			
SEMESTER II			
16. Periodontitis of temporary teeth in children. Etiology, classification, patterns of clinical course, diagnostic criteria of periodontitis of temporary teeth.	2	2	3
17. Differential diagnosis of pulp diseases and periodontitis of temporary teeth in children. The effect of periodontitis of a temporary tooth on the beginning of a permanent tooth.		2	3
18. X-ray diagnosis of dental caries and its complications in children. Limits of conservative treatment of temporary teeth with periodontitis.		2	3
19. The choice of treatment method for periodontitis of temporary teeth. Peculiarities of endodontic treatment of periodontitis in temporary teeth. Forecast.		2	3
20. Errors and complications in the treatment of periodontitis of temporary teeth in children. Their prevention and elimination.		2	
21. Periodontitis of permanent teeth in children. Patterns of clinical course. Diagnostics, X-ray and		2	3

differential diagnosis.			
22. Peculiarities of endodontic interventions in permanent teeth with an unformed root and necrotic pulp. Forecast.		2	3
23. Peculiarities of endodontic interventions in permanent teeth with a formed root and necrotic pulp. Forecast.		2	3
24. Errors and complications in the treatment of periodontitis of permanent teeth in children. Their prevention and elimination.		2	3
25. Traumatic lesions of temporary teeth in children. Causes, clinic, diagnosis. Peculiarities of treatment of traumatic lesions of temporary teeth in children		2	3
26. Peculiarities of treatment of traumatic lesions of permanent teeth in children. Tactics of the doctor.		2	3
27. Protection of medical history		2	6
In general	6	54	60

2. Thematic plan of lectures on pediatric therapeutic dentistry

№ s / n	Name topics	Number Hours
1	Dental caries in children. Etiology and pathogenesis of caries. Classification. Clinic, diagnosis and treatment of caries of temporary and permanent teeth in children. Disorders of development and formation of teeth. Clinic, diagnosis, treatment.	2
2	Anatomy and physiology of the pulp of temporary and permanent teeth in children. Etiology and pathogenesis of pulpitis. Classification. Clinic, diagnosis and differential diagnosis of pulpitis in children. Treatment of pulpitis of temporary and permanent teeth in children.	2
3.	Anatomical and histological structure and functions of the periodontium at different age in children. Etiology and pathogenesis of periodontitis. Classification. Clinic, diagnosis and differential diagnosis of periodontitis in children. Treatment of periodontitis of temporary and permanent teeth in children.	2
	In total	6

3. Thematic plan of practical (seminar) classes in pediatric therapeutic dentistry (7 semester)

№ s / n	Name topics	Number Hours
1.	The main stages of development of temporary and permanent teeth. Terms of development, mineralization, eruption and formation of temporary and permanent teeth in children. Identification of factors influencing the processes of tooth development in children.	2

2.	Caries of temporary teeth in children. Regularities of clinical manifestations and course. Diagnosis, differential diagnosis, treatment.	2
3.	Features of preparation and restoration of carious cavities in temporary and permanent teeth, choice of filling materials.	2
4.	Caries of permanent teeth in children. Regularities of clinical manifestations and course. Diagnosis, differential diagnosis, treatment.	2
5.	Preparation and filling of carious cavities in various forms of caries. Choice of filling materials. General treatment of caries: planning, methods.	2
6.	Mistakes and complications in the treatment of caries in children of different age. Their prevention and elimination.	2
7.	Non-carious lesions of the hard tissues of the teeth in children: hypoplasia, fluorosis. Etiology, clinic, diagnosis, differential diagnosis, treatment, prevention.	2
8.	Hereditary defects in the development of hard tissues of the teeth: imperfect amelogenesis, imperfect dentinogenesis, Stanton-Capdepon dysplasia. Clinic, diagnosis, tactics of a pediatric dentist.	2
9.	Pulpitis of temporary teeth in children. Patterns of clinical course in children of different age. Clinic, diagnosis, differential diagnosis, treatment.	2
10.	The choice of treatment modalities for pulpitis in temporary teeth in children depending on the form of pulpitis and the stage of root formation. Vital pulpotomy - technique, materials. Features of local anesthesia in children.	2
11.	Treatment of pulpitis of temporary teeth in children. Vital and devital pulpectomy. Indications, methods of performance, control of efficiency.	2
12.	Pulpitis of permanent teeth in children. Clinical manifestations in children of different age, diagnosis, differential diagnosis. Conservative method of treatment (vital pulp therapy). Indications, methods of performance, control of efficiency, outcomes.	2
13.	Treatment of pulpitis of permanent teeth in children. Vital pulpotomy. Indications, methods of performance, choice of medicines and materials.	2
14.	Treatment of pulpitis of permanent teeth in children. Vital and devital extirpation of the pulp. Indications, methods of performing, selection of filling materials for root canal obturation.	2
15.	mistakes and complications in the treatment of pulpitis of temporary and permanent teeth in children. Their prevention and elimination.	2
	In total	30 hours

4. Thematic plan of self work of students (7 semester)

№ p / p	Topic of the lesson	Hours
1	Methods of preparation of temporary teeth in children. The choice of filling materials depending on the chosen method of preparation.	3
2	Glass-ionomer cements for restorations of temporary and permanent teeth. Indications and contraindications for use.	2
3	Aesthetic restoration of permanent teeth in children with the use of modern composite materials. Optical properties of permanent teeth in children and adolescents.	3
4	Restoration of temporary teeth in children using standard stainless-steel crowns and celluloid caps.	3
5	Differential diagnosis of non-carious dental lesions in children. Methods of prevention of non-carious lesions.	2
6	Differential diagnosis of pulpitis of temporary and permanent teeth. Create a scheme of differential diagnosis.	3
7	Materials and methods of root canal obturation of temporary and permanent teeth in children.	3
8	The use of modern endodontic techniques in the treatment of caries complications in temporary and permanent teeth in children. Machine and manual techniques, ultrasonic and laser treatment of root canals.	3
9	The use of a rubber dam in pediatric dentistry.	2
	In total	24

7. Individual tasks (medical histories, forensic medical acts, acts of toxicological research, course and diploma, master's theses) **are not provided.**

4. STRUCTURE OF THE COURSE 8 SEMESTER

9. Thematic plan of practical (seminar) classes in pediatric therapeutic dentistry (8 semester)

№ s / n	Name topics	Number hours
1.	Periodontitis of temporary teeth in children. Etiology, classification,	

	patterns of clinical course, diagnostic criteria for periodontitis of temporary teeth.	2
2.	Differential diagnosis of pulp diseases and periodontitis of temporary teeth in children. Influence of periodontitis of a temporary tooth on the beginning of a permanent one.	2
3.	X-ray diagnosis of dental caries and its complications in children. Limits of conservative treatment of temporary teeth with periodontitis.	2
4.	Choice of method of treatment of periodontitis of temporary teeth. Features of endodontic treatment of periodontitis in temporary teeth. Forecast.	2
5.	Mistakes and complications in the treatment of periodontitis of temporary teeth in children. Their prevention and elimination.	2
6.	Periodontitis of permanent teeth in children. Patterns of clinical course. Diagnosis, X-ray and differential diagnosis.	2
7.	Features of endodontic interventions in permanent teeth with immature root and necrotized pulp. Outcomes.	2
8.	Features of endodontic interventions in permanent teeth with mature root and necrotized pulp.	2
9.	Mistakes and complications in the treatment of periodontitis of permanent teeth in children. Their prevention and elimination.	2
10.	Traumatic injuries of temporary teeth in children. Causes, clinic, diagnosis Features of treatment of traumatic injuries of temporary teeth in children	2
11.	Features of treatment of traumatic injuries of permanent teeth in children. Pediatric dentist tactics.	2
12.	Medical history report.	2
	in total	24 hours

10. Thematic plan of self work of students (8 semester)

№ p / p	Topic of the lesson	Years
1	Anatomical features of the structure of temporary teeth in children. Draw a schema of root canals in all groups of temporary teeth.	3
2	Periods of development of temporary and permanent teeth. Radiological signs of acute and chronic periodontitis of temporary and permanent teeth.	3
3	Techniques of instrumentation and features of irrigation of root canals of temporary teeth.	3
4	Anatomical features of the structure of permanent teeth in children. X-ray stages of root formation of permanent teeth. Draw a scheme of root canals in all groups of permanent teeth.	3
5	Apexification: techniques, modern materials, techniques.	3
6	Modern techniques of instrumentation of root canals of permanent teeth (manual and machine). Modern endodontic instruments.	3
7	Diagnostic and radiological criteria of deep caries, acute and chronic	3

	pulpitis, acute and chronic periodontitis of temporary teeth in children. To make the scheme of differential diagnostics of these diseases.	
8	Make a table of terms of eruption of temporary teeth and their replacement with permanent ones. To make algorithm of diagnosis of the child with an acute injury of a temporary tooth.	3
9	The scheme of treatment modalities for different types of injuries of permanent teeth (fracture of the crown of the tooth with and without exposure of the pulp; fracture of the root at the level of the neck, in the middle and apical part of the root).	3
10.	Dislocation of a temporary or permanent tooth at different stages of development. Pediatric dentist tactics.	3
10	Writing a medical history report.	6
	In total	36

11. TEACHING METHODS

The organization of the educational process is carried out according to the credit-transfer system

Types of educational activities of students according to the curriculum are:

- a) lectures;
- b) practical classes;
- c) self work of students (SWS);
- d) individual tasks (IDRS)

Thematic plans of lectures, practical classes, SWS and IDRS ensure the implementation in the educational process of all topics that are part of the discipline "Pediatric Therapeutic Dentistry" * (4th year of study).

The topics **of the lecture course (3 topics)** reveal the most important problematic issues of the relevant sections of the discipline "Pediatric Therapeutic Dentistry".

Duration of **practical classes - 2 academic hours (90 minutes) in the 7th semester and 2 academic hours (90 minutes) in the 8th semester.**

Practical classes are held in classrooms (phantom classes) and clinical offices of the department.

Methods of organizing practical classes in the discipline "Pediatric Therapeutic Dentistry" (4 years of study 7 semester) provides:

1. Control of the student's SWS in preparation for the topic of the current practical lesson by checking the student's written self-work in the "Workbook" of the relevant tasks - **10 minutes**.

2. Test control (*level $\alpha - 2$*) initial level of knowledge and determining the degree of readiness of students for the lesson - **15 minutes**.

3. Individual oral interview of students, explanation of certain issues of the topic of the current lesson, answers to students' questions - **20 minutes**.

4. For **35 minutes**, students work on certain dental manipulations related to the treatment of caries and its complications in temporary and permanent teeth in children. The teacher supervises the work of students, gives explanations, emphasizes the features of dental interventions in the teeth, the roots of which are immature or in the stage of resorption.

5. Control of the final level of students' knowledge - **10 minutes** . Conducted in the form of solving test tasks (*level α -3*), individual oral interview, solving situational tasks.

Methods of organizing practical classes in the discipline "Pediatric Therapeutic Dentistry" (4 years of study 8 semester) provides

1. Control of the student's SWS in preparation for the topic of the current practical lesson by checking the student's written performance in the "Workbook" of the relevant tasks - **15 minutes**.

2. Test control (*level α – 2*) initial level of knowledge and determining the degree of readiness of students for the lesson - **20 minutes** .

3. Individual oral interview of students, explanation of certain issues of the topic of the current lesson, answers to students' questions - **25 minutes**.

4. For **60 minutes**, students work on certain dental manipulations related to the treatment of caries and its complications in temporary and permanent teeth in children. The teacher monitors the work of students, gives explanations, emphasizes the features of dental interventions in the teeth, the roots of which are immature or in the stage of resorption.

5. Control of the final level of students' knowledge - **15 minutes** . Conducted in the form of solving test tasks (*level α -3*), individual oral interview, solving situational tests.

At the end of the practical lesson, the teacher summarizes it, gives students tasks for self work, points to the key issues of the next topic and offers a list of recommended literature for self study.

To implement the above in the first lesson, each student is provided with a detailed **work plan during the study of the discipline**, as well as the conditions for its implementation. This plan includes:

- a list of theoretical knowledge of the discipline to be mastered by the student;
- a list of practical skills that must be performed by each student during the study of Module 1 and algorithms for their implementation;
- "Workbook" for self work of the student (SWS) in preparation for practical classes, in which you should write 5-6 tasks for each topic.

Self work of students (SWS) provides:

- preparation for practical classes;
- self elaboration of topics that are not included in the plan of classroom classes, but are controlled and evaluated by the teacher during the final control ;
- individual research work (IDRS), participation in the work of the scientific student group, scientific and practical student conferences, etc .;
- writing a medical history report.

12. Methods of control

Control of knowledge on the study of the discipline is carried out in the form of: **current control**, which is carried out at each practical lesson and allows you to identify the level of mastery of individual elements of educational material. During the assessment of mastering each topic for the current educational activity of the student, grades are set on a 4-point (traditional) scale, taking into account the approved evaluation criteria for the relevant

discipline. This takes into account all types of work provided by the student. The student must receive a grade for each topic. Forms of assessment of current educational activities are standardized and include control of theoretical and practical training.

Grades on the traditional scale at the end of the semester are converted into points.

For disciplines the form of final control of which is an examination:

The maximum number of points that a student can score for the current academic activity for the semester for admission to the exam is 120 points.

The minimum number of points that a student must score for the current academic activity for the semester for admission to the exam is 72 points.

The calculation of the number of points is based on the grades obtained by the student on the traditional scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The obtained value is converted into points on a multi-point scale as follows: $X = CA \times 120/5$

For convenience, the table of recalculation on a 200-point scale is given:

Recalculation of the average grade for current activity in a multi-point scale for disciplines culminating in the exam

4-Ballroom Scale	200-ballroom Scale	4-Ballroom Scale	200-ballroom scale	4-Ballroom Scale	200-ballroom scale	4-Ballroom Scale	200-ballroom Scale
5	120	4.45	107	3.91	94	3.37	81
4.95	119	4.41	106	3.87	93	3.33	80
4.91	118	4.37	105	3.83	92	3.29	79
4.87	117	4.33	104	3.79	91	3.25	78
4.83	116	4.29	103	3.74	90	3.2	77
4.79	115	4.25	102	3.7	89	3.16	76
4.75	114	4.2	101	3.66	88	3.12	75
4.7	113	4.16	100	3.62	87	3.08	74
4.66	112	4.12	99	3.58	86	3.04	73
4.62	111	4.08	98	3.54	85	3	72
4.58	110	4.04	97	3.49	84		
						Less	Nedos-
4.54	109	3.99	96	3.45	83		daddy
						3	
4.5	108	3.95	95	3.41	82		

Students' self work is assessed during the current control of the topic in the relevant lesson.

Final control is carried out in order to assess learning outcomes at a certain educational and qualification level and at some of its completed stages on a national scale and ECTS scale. Final control includes semester control and student certification.

Semester control is carried out in the form of a semester exam in a particular discipline in the amount of educational material defined by the working program of the discipline and within the time limits set by the working curriculum, individual curriculum of the student.

The exam is a form of final control of the student's mastering of theoretical and practical material from a separate academic discipline for the academic year, which is held as a control measure. A student is considered admitted to the exam in the discipline if he attended all the classes provided by the discipline, performed all types of work provided by the work program of

this discipline and during its study during the academic year scored at least minimum (72 points).

The exam is conducted in writing form during the examination session, according to the schedule. The form of the exam should be standardized and include control of theoretical and practical training knowledge. The exam for the prevention of dental diseases includes 80 test tasks.

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

The minimum number of points in the exam is 50.

The number of points from the current control and exam, which is accrued to students, is converted into a 4-point scale as follows:

<i>Points in the discipline</i>	<i>Score on a 4-point scale</i>
<i>From 170 to 200 points</i>	«5»
<i>From 140 to 169 points</i>	«4»
<i>From 139 points to the minimum number of points that a student must score</i>	«3»
<i>Below the minimum number of points that a student must score</i>	«2»

Methods for assessing current learning activities:

Theoretical knowledge:

1. Individual oral examination of theoretical material or theoretical interview.
2. Written theoretical control.

Practical skills and abilities:

1. Individual control of practical skills and their results.

Methods of control of mastering of themes.

Theoretical knowledge:

1. Individual oral examination.
2. Written solution of test tasks or computer test control.
3. Written theoretical control.

Practical skills and abilities:

1. Individual control of practical skills and their results.

Theoretical knowledge:

1. Written solution of level 2 test tasks or computer test control.
2. Individual oral examination.

Practical skills and abilities:

1. Individual control of practical skills and their results.

Distribution of points received by students

Conversion of the grade on the traditional 4-point scale into multi-point (maximum 120 points) - conversion of the total score of the current performance - is carried out only after the current lesson preceding the exam. The conversion is performed according to the following algorithm:

- calculates the average student's grade on a traditional 4-point scale, obtained during the current classes (to the nearest hundredth point);
- to obtain a convertible multi-point total score of current performance, the average score obtained on the traditional 4-point scale should be multiplied by a factor of 24. Exceptions are

cases where the average score on the traditional 4-point scale is 2 points. In this case, the student receives 0 points on a multi-point scale;

- The average score of the current performance is calculated on the total number of classes, not on the actual number of students attended.

The minimum convertible sum of points of current success for the discipline "Prevention of dental diseases" is **72 points**.

The result of the exam is evaluated in points (traditional 4-point grade is not given). The maximum number of points for the exam is 80 points. The minimum number of points for the exam, for which the control is considered passed, is 50 points.

The maximum number of points for the discipline is 200 points. Criteria

Ratings:

- **"Excellent"** - receives a student who fully possesses the theoretical educational material on the topic, can use the acquired knowledge to answer questions, justifies his answer; mastered the practical skills provided by the topic of the lesson; solves test problems on the topic and explains the course of their solution;
- **"Good"** - is obtained by a student who fully possesses theoretical educational material on the topic, can use the acquired knowledge to answer questions, but somewhat insufficiently substantiates his answer; mastered the practical skills provided by the relevant lesson; can solve test problems on the topic and explain the logic of their solution;
- **"Satisfactory"** - gets a student who does not have enough theoretical educational material on the topic, has difficulty using the knowledge gained, can not justify their answer; not sufficiently mastered the practical skills provided by the relevant lesson; with difficulty solves test problems on the topic;
- **"Unsatisfactory"** - receives a student who does not have theoretical teaching material on the topic, cannot use the acquired knowledge to answer questions and justify their answer; has not mastered all the practical skills required by the relevant lesson; cannot solve and explain the solution of test problems on the topic.

16. RECOMMENDED LITERATURE

Basic literature

1. Therapeutic dentistry of children's age. **Vol.1** . "Dental caries and its complications" / L.O. Khomenko, Yu.B. Tchaikovsky, NI Smolyar [etc.]; for order. L.O. Khomenko - Book-plus, 2017. - 432p
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17. Khomenko LA, Savichuk AV, Bidenko NV, Ostapko EI etc. Prevention of dental diseases: uch. allowance. - Part 1. - К.: "Book Plus", 2007. –127 s.
18. Khomenko LA, Savichuk AV, Bidenko NV, Ostapko EI etc. Prevention of dental diseases: uch. allowance. - Part 2. - К.: "Book Plus", 2008. –132 p.