

**Ukraine Ministry of Health**  
**Kharkiv National Medical University**  
**Faculty of Dentistry**  
**Department of Pediatric Dentistry and Implantology**  
**Educational Program for Training Specialists of the Second (Master's)**  
**Level, Higher Education Training 22 "Healthcare"**  
**in Specialty 221 "Dentistry"**

**SYLLABUS OF THE COURSE**

**PRODUCTION MEDICAL PRACTICE**  
**OF PEDIATRIC DENTISTRY**  
**5th year**

Compulsory or elective educational component \_\_\_\_\_ compulsory \_\_\_\_\_

Mode of the educational component \_\_\_\_\_ off-line \_\_\_\_\_  
(off-line; mixed; on-line)

Field of knowledge \_\_\_\_\_ 22 "Healthcare" \_\_\_\_\_  
(code and name of the field of knowledge)

Specialty \_\_\_\_\_ 221 «Dentistry» \_\_\_\_\_  
(code and name of the specialty)

Educational and professional program \_\_\_\_\_ «Dentistry» \_\_\_\_\_


Of the second (master's) level of higher education

Course \_\_\_\_\_ fifth \_\_\_\_\_

The syllabus of the discipline was approved at  
the meeting of the Department of Pediatric  
Dentistry and Implantology

Protocol from "30" August 2021 № 1

Head of Department

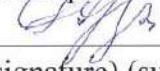
 \_\_\_\_\_ prof. Nazaryan RS  
(signature) (surname and initials)

"30" August 2021

Approved by the methodical commission of  
KhNMU on problems of professional training  
dental profile

Protocol from "02" September 2021 year №4

Chairman of the methodical commission of  
KhNMU on problems of professional training  
dental profile

 \_\_\_\_\_ prof. Ruzin GP  
(signature) (surname and initials)

"02" September 2021

**Developers:** Nazaryan Rozana, Iskorostenska Olga, Mys Viktoriya, Sukhostavets Olena

**Teachers:** Nazaryan R., Kuzina V., Tischenko O., Mikulinskaya-Rudich Yu., Yaroslavskaya Yu., Lepilina K., Sukhostavets O., Fomenko Yu.

**Teacher information:**

Nazaryan R. - Doctor of Medical Sciences, Professor, Head of Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry, Surgical Dentistry, Therapeutic Dentistry, Orthodontics.

Kuzina V. - Doctor of Philosophy, Associate Professor of Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry.

Tischenko O. - Assistant professor of Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry.

Mikulinskaya-Rudich Yu. - Assistant professor of Pediatric Dentistry and Implantology Department, specialization Pediatric Dentistry.

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**Full-time consultations:** schedule and place according to the schedule of the department.

**On-line consultations:** schedule and place by prior arrangement with the teacher.

**Location:** classes are held in the UDC KhNMU.

## Information about Discipline

### 1. The discipline's description

The volume of training hours on production medical practice for students of the 5th year of the Faculty of Dentistry is:

- ECTS credits – 4,5; total hours: 180

Name of indicators	Field of knowledge, direction of training, educational and qualification level	Characteristics of the discipline	
		full-time education	evening form of study
Number of credits - 4,5	Training direction <u>22 "Health" in specialty</u> (code and name)	Normative	
Total number of hours – 150	Specialty: <u>221 "Dentistry"</u> (code and name)	<b>Year of study:</b>	
		5-th	-
		<b>Semester</b>	
		9-th	-
Hours for full-time education (or evening) form of study: classrooms - 30 independent student work – 120	Education level: Specialist	Lectures	
		0 h.	-
		Practical, seminar	
		30 h.	-
		Laboratory	
		-	-
		Independent work	
		120 h.	-
Individual tasks: -			
Type of control: differential credit			

Educational program of higher education of Ukraine, second (master's) level, educational qualification, assigned - master's degree, field of knowledge - 22 Healthcare, specialty 221 "Dentistry" is based on the Law of Ukraine "«Про вищу освіту»" and the resolution of the Cabinet of Ministers of Ukraine 01.02.2017 № 53 «Про внесення змін до постанови Кабінету Міністрів України від 29.04.2015 р. № 266»", in accordance with the order of the Ministry of Education and Science of Ukraine dated 01.06.2016 № 600 «Про затвердження та введення в дію Методичних рекомендацій щодо розроблення стандартів вищої освіти»."

The program of the course determines the prerequisites for access to education, orientation and main program focus, the amount of ECTS credits required for a master's degree, a list of general and special (professional) competencies, normative and variable content of training, formulated in terms of learning outcomes and control requirements quality of higher education.

The department accepts qualified students of any race, national or ethnic origin, sex, age, people with special needs, any religion, sexual orientation, gender, veteran status or marital status for all rights, privileges, programs and activities, provided to university students.

Moodle discipline page: <http://31.128.79.157:8083/course/index.php?categoryid=175>

## **2. The purpose and objectives of the discipline**

conducting production medical practice on pediatric dentistry is to consolidate practical skills within the goals defined in the educational and professional training program for the specialty 7.12010005 "Dentistry".

**3. Discipline status:** the main format of the discipline is mixed - a discipline that has support in the Moodle system, teaching the discipline, combines traditional forms of classroom learning with elements of distance learning, which uses available interactive information technology (ZOOM, Moodle), face-to-face and distance counseling.

**4. Methods of training.** Phantom, digital information (presentations, video materials, methodical recommendations, lectures), scientific (participation in scientific researches in the discipline), control (tests, situational tasks, assessment of practical skills, defence a case history) are used for carrying out the lessons.

## **5. Recommended literature**

1. Pediatric Therapeutic Dentistry / L.A.Khomenko, A.V.Savychuk, Ye.I.Ostapko, V.I.Shmatko, N.V. Bidenko, I.N.Golubeva, Ye.F.Kononovich, S.F.Lubarets -K: Книга –плюс, 2012.-240с.
2. Paediatric Dentistry / Edited by Richard R. Welbury. Third edition. Oxford, 2005. – 448 p.
3. R. Pinkham, P.S. Casamassimo, H.W. Fields, D.I. McTigue, A.I. Novak. Pediatric Dentistry. Infancy Thorough Adolescence Fourth Edition. Saunders, 2005. – 750 p.
4. Handbook of Pediatric Dentistry /Edited by A.C. Cameron, R.P. Widmer. Third edition. Mosby Elsevier, 2009. – 470 p
5. L.V. Kharkov, L.M. Yakovenko, N.V. Kiselyova «Pediatric oral and maxillofacial surgery». – 2015. – 104 с.
6. P.S. Flis, M.A. Omekhuk, N. V. Rashchenko (2008) Textbook of orthodontology, Kiev, Medicina
7. Peterson's (2004) Principles of oral and maxillofacial surgery Second Edition. BC Decker Inc Hamilton, London
8. Fragiskos D. Fragiskos (Ed.) (2007) Oral Surgery, Springer-Verlag Berlin Heidelberg
16. Daniel M. Laskin (1985) Oral and maxillofacial surgery, St. Louis, Toronto, Princeton
9. Pediatric dental prosthetics/ Edited by Professor P.S.Flis – Kyiv: AUS Medicine, 2012. – p.101-146.
10. Millet D, Welbury R. Orthodontics and pediatric dentistry. – London: Harcourt Publishers Limited, 2000. – 167.
11. Orthodontics/ Edited by Professor P.S.Flis – Kyiv: Medicine, 2008. – 334.

## **6. Prerequisites and co-requisites of the discipline**

The discipline " Production medical practice of Pediatric Dentistry " is related to the disciplines of anatomy and morphology, pathological anatomy, therapeutic dentistry.

## **7. Learning outcomes**

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

Analyze the results of examination of the patient in the clinic of pediatric therapeutic dentistry.

Analyze the results of examination of a patient with dental anomalies and deformities.

Analyze the results of examination of the patient in the clinic of pediatric operative dentistry.

To determine the nature and principles of treatment of diseases in the clinic of pediatric operative dentistry.

Use the principles of dental diseases prevention and their complications in pediatric operative dentistry.

Detect congenital and acquired defects of the maxillofacial area on orthodontic reception.

Detect congenital and acquired defects of the maxillofacial area in the clinic of pediatric operative dentistry.

Identify different clinical variants and complications of the most common diseases in the clinic of pediatric therapeutic dentistry.

Identify different clinical variants and complications of the most common diseases in the pediatric operative dental clinic.

To diagnose emergencies in the clinic of pediatric therapeutic dentistry.

To diagnose emergencies in the clinic of pediatric operative dentistry.

Provide the necessary emergency care in the pediatric operative dental clinic.

Provide the necessary emergency care in case of emergency in the clinic of pediatric therapeutic dentistry.

Plan the examination of a dental patient, interpret the results of laboratory and instrumental studies in the most common internal diseases and their complications.

To examine the patient in the clinic of pediatric therapeutic dentistry.

To examine the patient in the clinic of pediatric operative dentistry.

Carry out primary and secondary prevention of the most common dental diseases in children of different ages.

To make a final diagnosis of major diseases in the clinic of pediatric therapeutic dentistry.

To make a final diagnosis of major diseases in the clinic of pediatric operative dentistry.

### **The content of the discipline**

<b>№</b>	The topic of the practical lesson	<b>Number of h.</b>
<b>Subsection 1 - Production medical practice on pediatric therapeutic dentistry</b>		
<b>1</b>	Organization of dental care for children. Structure and principles of organization of children's dental institutions. Filling in medical and accounting documentation during the appointment of a pediatric dentist.	<b>2</b>
<b>2</b>	A dental patient examination. Determination of caries indices. Determining the state of oral hygiene using hygienic indices. Identification of risk factors of caries and periodontal disease. Periodontal indices.	<b>2</b>
<b>3</b>	Choosing filling materials for permanent and temporary teeth. Dental cements, composite filling materials, compomers, ormokers, dental adhesives, dental amalgams, materials for root canal obturation.	<b>2</b>
<b>4</b>	Clinic and diagnosis of various teeth non-carious lesions in children (hypoplasia, fluorosis, hereditary defects in the development of hard tissues of the teeth). The pediatric dentist's tactics in various forms of the hard tissues non-carious diseases of the teeth. The choice of treatment methods of different hard tissues non-carious lesions forms of the teeth. Dental restoration technology using modern photopolymeric composite materials.	<b>2</b>
<b>5</b>	Clinical classification of dental caries in children. Clinic and diagnosis, differential diagnosis of carious lesions of temporary and permanent teeth in children. Determining the prevalence and intensity of dental caries in children in the age aspect.	<b>2</b>
	<b>Total</b>	<b>10</b>
<b>Subsection 2 - Production medical practice in orthodontics</b>		

<b>6</b>	Organization of orthodontic care. Etiology and pathogenesis of dental anomalies. Identification of risk factors for the development of dental anomalies. Features of prevention of dental anomalies in the antenatal period. The main tools and features of prevention of dental anomalies and deformities in the postnatal period. Prevention of bad habits. Periods of child development. The state of the dental-facial system in different periods of occlusion formation.	<b>2</b>
<b>7</b>	Modern methods of diagnosis of dental anomalies. Treatment methods in orthodontics. Features of designing orthodontic devices. Treatment features of dental anomalies in temporary, mixed and permanent occlusion. Treatment of dental anomalies with fixed devices. Manufacturing stages of removable and non-removable orthodontic devices.	<b>2</b>
<b>8</b>	Individual teeth anomalies. Anomalies in the dentition formation. Dentition shape anomalies. Clinic, diagnosis and treatment. Bite anomalies in the vertical, sagittal and transverse planes. Clinic, diagnosis, treatment and prevention at different ages. Treatment features of children with congenital malformations.	<b>2</b>
<b>9</b>	Mistakes and complications during orthodontic treatment. Biomechanics of tooth movement depending on the choice of device design. Reconstruction of periodontal tissues under the influence of orthodontic techniques. Defects of individual teeth and dentitions. Features of children's prosthetics.	<b>2</b>
<b>10</b>	Organization of prevention of dental anomalies and deformations as a component of individual and social-hygienic means. Determining the main groups of children at risk of dental anomalies and deformities. Features of the nature and scope of treatment and prevention measures.	<b>2</b>
	Total	<b>10</b>
<b>Subsection 3 - Industrial medical practice in pediatric operative dentistry</b>		
<b>11</b>	General and local anesthesia in children on outpatient surgery: types and methods, indications and contraindications to the choice of method, pharmacological drugs. Tooth extraction surgery in children. Indications and contraindications to the removal of temporary and permanent teeth, tools. Features of tooth extraction in children with concomitant somatic diseases. General and local complications during and after tooth extraction, methods of treatment and prevention.	<b>2</b>
<b>12</b>	Acute and chronic inflammatory diseases of the maxillofacial area in children. Anatomical and physiological features of the course of inflammatory processes of the maxillofacial area in children. Clinic, diagnosis, differential diagnosis, treatment. Diseases of the TMJ in children and adolescents: classification, diagnosis, clinic, treatment.	<b>2</b>
<b>13</b>	Congenital malformations of the face. Classification, terms and methods of surgical treatment of the upper lip cleft and cleft palate. Consequences of treatment, rehabilitation, corrective surgery. Anomalies in the development of the oral mucosa. Methods of eliminating abnormal attachment of the frenulum of the lips, tongue, vestibule, complex rehabilitation.	<b>2</b>
<b>14</b>	Tumors and tumor-like neoplasms of soft tissues and bones of the face in children. Features of the clinical course. Principles of treatment and rehabilitation of children with neoplasms of the maxillofacial area.	<b>2</b>
<b>15</b>	Traumatic injuries of the teeth, jaws and soft tissues of the maxillofacial area in children. Clinic, diagnosis, differential diagnosis, treatment. Primary surgical treatment of the wound.	<b>2</b>
	Total	<b>10</b>
<b>Total hours</b>		<b>30</b>

**INDEPENDENT WORK PLAN OF STUDENTS IN THE STUDY OF THE SECTION  
“Medical practice of Pediatric Dentistry”**

<b>№№/</b>	<b>Content</b>	<b>Number of hours</b>	<b>Type of control</b>
<b>Medical practice of Pediatric Dentistry</b>		<b>120 of which:</b>	
<b>1.</b>	Practical classes preparation	<b>21</b>	<b>Current control</b>
<b>2.</b>	Acquisition of practical skills given in terms of practical training of the student	<b>30</b>	<b>Current control</b>
<b>3.</b>	Filling in the main reporting documentation - the Diary of production practice and the Final report	<b>55</b>	<b>Current control</b>
<b>4.</b>	Preparation for the final control of knowledge and practical training of students	<b>14</b>	<b>Differential credit</b>
<b>Total</b>		<b>120</b>	

**Discipline policy and values.**

In order to successfully complete the relevant course, it is necessary to regularly attend practical classes; to have theoretical preparation for practical classes, according to the subject; not to be late and not to miss classes; perform all necessary tasks and work in each lesson; be able to work with a partner or in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Students can discuss different tasks, but their performance is strictly individual. You are not allowed to write off, use any kind of software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the learning process. Students are not allowed to be late for practical classes.

Visiting patients during the curation in the hospital is possible, provided that students have the appropriate uniform, a health book with a note about the timely medical examination.

Students with special needs can meet with the teacher or warn him before the start of classes, it can be done by the head of the group on the students request. If you have any questions, please contact the teacher.

Students' participation in research and conferences on this topic is encouraged.

All students of KhNMU are protected by the Regulations on prevention and settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to determine an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. on the basis of the following regulations of Ukraine: Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Prevention and Counteraction of Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation № 25 to Article 4, paragraph 1, of the Convention on the Elimination of All Forms of Discrimination against Women, General Comment № 16 (2005) "Equal rights for men and women to use economic, social and cultural rights" (Article 3 of the

International Covenant on Economic, Social and Cultural Rights; Committee on Economic, Social and Cultural Rights of the United Nations); education in the spirit of respect for human rights and fundamental freedoms (UNESCO), the Concept of the State Social Program for Equal Rights and Opportunities for Women and Men until 2021. Kharkiv National Medical University ensures education and work, that is free from discrimination, sexual harassment, intimidation or exploitation. The University admits the importance of confidentiality. All persons, responsible for the implementation of this policy, (staff of deans' offices, faculties, institutes and the Center of Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential, regarding those, who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities, granted to students or staff of the University, apply to anybody, without exception, in case they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Codex of Corporate Ethics and the Charter of KhNMU.

### **The rules of behavior in University and on classes**

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all teachers and staff and are not fundamentally different from the generally accepted norms.

During classes it is allowed:

- leave the audience for a short time if necessary and with the permission of the teacher;
- drink soft drinks;
- take photos of presentation slides;
- take an active part in the class

Forbidden:

- eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);
- smoking, drinking alcohol and even low-alcohol beverages or drugs;
- use obscene language or use words that offend the honor and dignity of colleagues and faculty;
- gambling;
- damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

### **Plagiarism and academic integrity**

The Department of Pediatric Dentistry and Implantology maintains zero tolerance for plagiarism. Students are expected to constantly raise their awareness of academic writing. The first lessons will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

### **Occupational Health**

At the beginning of the first lesson of the course the teacher will explain the basic principles of labor protection by conducting appropriate training. It is expected that



everyone should know where the nearest evacuation exit is, where the fire extinguisher is, how to use it, and so on.

**The procedure for informing about changes in the syllabus:** the necessary changes in the syllabus are approved by the methodical commission of KhNMU on the problems of professional training of dental profile and published on the website of KhNMU, the website of the Department of Pediatric Dentistry and Implantology of KhNMU.

### **Policy of learning activities assessment**

#### **Assessment of current learning activities (CLA)**

When assessing the mastery of each topic of the discipline and for the final lesson (FL), the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" or "unsatisfactory".

The final score for the current learning activity (CLA) and the final lesson (FL) is defined as the arithmetic mean of the traditional grades for each class and FL, rounded to 2 decimal places and listed in a multi-point scale according to the standard table.

#### **Assessment of the final lesson**

The final lesson (FL) is conducted in accordance with the curriculum of the discipline and thematic plane, during classes .

To help prepare for the final lesson, the following materials are available at the information stand of the department:

- basic tests;
- list of theoretical questions;
- list of practical skills;
- a list of drugs, for prescriptions;
- list of medical records for dentistry;
- criteria for assessing the knowledge and skills;
- schedule of students working off during the semester.

#### **Differential credit**

Differential credit in the discipline " Medical practice of Pediatric Dentistry " is a process during which the following is checked:

- level of theoretical knowledge;
- development of creative thinking;
- skills of independent work;
- competencies - the ability to synthesize the acquired knowledge and apply them in solving practical problems.

The following materials for preparation for the differential credit are presented at the information stand of the department:

- basic tests;
- list of theoretical questions;
- list of practical skills;
- a list of drugs, for prescriptions;
- list of medical records for dentistry;
- criteria for assessing the knowledge and skills of students;

- schedule of students working off during the semester;
- schedule of consultations on the discipline during the semester.

### **Assessment of individual student tasks**

At the meeting of the department should be approved a list of individual tasks (participation in reports at student conferences, profile competitions, preparation of analytical reviews with presentations) with the definition of the number of points for their implementation, which can be added as incentives (not more than 10).

Points for individual tasks are awarded to the student only by the commission (commission - head of the department, head teacher, group teacher), once, only under the conditions of their successful implementation and defense. The total amount of points for CLA may not exceed 120 points.

### **Assessment of students' independent work**

Assimilation of topics that are submitted only for independent work is checked during the final lesson and differential credit.