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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University
Institute of Medicine**

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Pediatric dentistry

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

**The course instruction is implemented within the professional education
programme of higher education:**

Dentistry

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course "**Pediatric Dentistry**" is to train dentists who has the necessary skills and knowledge in the field of pediatric dentistry.

Tasks:

- to acquaint the student with the anatomical and physiological characteristics of the child's body, their influence on the clinical course of the main dental diseases in children and adolescents;
- introduce the features of the diagnosis and treatment of these diseases, their outcomes depending on the age of the child, the possibilities of rehabilitation after diseases (medical and social) and ways of its implementation;
- to acquaint the student with the methods of prevention of major dental diseases in children, congenital and hereditary diseases;
- to teach the student to perform certain medical manipulations in pediatric dentistry;
- to teach the student the skills of communication with patients of different ages and with different psyches.

2. 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "**Pediatric Dentistry**" is aimed at the development of the following competences /competences in part: GC-1.1; GPC-1; GPC-2; GPC-4; GPC-5; GPC-6; GPC-9; PC-1; PC-2; PC-5

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy.	GC-1.1. Analyze the problem situation as a system, identifying its components and the links between them.
GPC-1.	Able to implement moral and legal norms, ethical and deontological principles in professional activities	GPC-1.1. Complies with the basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity.
		GPC-1.3. He has practical experience in solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice.
GPC-2.	Able to	GPC-2.1. Analyzes the causes of professional errors, adverse outcomes of treatment and conflict

	analyze the results of their own activities to prevent professional errors	situations.
		GPC-2.2. Scientifically substantiates and implements recommendations aimed at improving the medical and legal training of dentists, at preventing professional errors, adverse outcomes and conflict situations.
		GPC-2.3. Evaluates the effectiveness of preventive measures aimed at preventing professional errors, adverse outcomes and conflict situations in dentistry
GPC-4.	Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	GPC-4.1. Analyzes the awareness of the population about a healthy lifestyle and medical literacy.
		GPC-4.3. Prepares an oral presentation or printed text that promotes a healthy lifestyle and increases the literacy of the population in the prevention of dental diseases.
GPC-5.	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	GPC-5.1. Collects an anamnesis, analyzing the patient's complaints, conducting a physical examination at a dental appointment.
		GPC-5.2. Formulates a preliminary diagnosis and draws up a plan for laboratory and instrumental examinations of a dental patient.
		GPC-5.3. Prepares medical documentation of the dental patient in accordance with regulatory requirements.
		GPC-5.4. Refers the patient for a laboratory examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of dental care.
		GPC-5.5. Refers the patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of dental care, taking into account the

		standards.
		GPC-5.6. Refers the patient for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care, taking into account standards.
		GPC-5.8. Conducts differential diagnosis with other diseases/conditions, including urgent ones.
		GPC-5.9. Establishes a diagnosis, taking into account the current international statistical classification of diseases and health-related problems.
GPC-6.	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	GPC-6.1. Develops a plan for the treatment of a dental disease, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care. GPC-6.2. P selects medical devices (including dental materials) for the preparation of a comprehensive plan for the treatment of dental diseases. Monitor the progress of the patient's treatment. GPC-6.3. Evaluates possible side effects from taking medications. GPC-6.4. Provides medical care to a dental patient in urgent or emergency forms. GPC-6.5. Organizes the prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic procedures, the use of drugs and (or) medical devices, non-drug treatment at a dental appointment. GPC-6.9. Evaluates the effectiveness and safety of the use of medicines, medical devices and other methods of treatment at a dental appointment
GPC-9.	Able to assess morpho-functional, physiological conditions and pathological	GPC-9.1. Owns the algorithm of clinical laboratory and functional diagnostics in solving professional problems. GPC-9.2. Evaluates the results of clinical, laboratory and functional diagnostics in solving professional problems. GPC-9.3. Determines the morphofunctional, physiological states and pathological processes of

	processes in the human body to solve professional problems	the human body.
PC-1.	Able to conduct examination of the patient in order to establish a diagnosis.	PC-1.1. Conducts initial and/or re-examination of the patient in order to establish a preliminary diagnosis.
		PC-1.2. Receives information from patients (their relatives/legal representatives), conducts a survey of patients on the subject of general health, identifying concomitant diseases in order to establish a preliminary diagnosis.
		PC-1.3. Detects dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition in patients based on examination of the patient, laboratory, instrumental, as well as additional examinations in order to establish a preliminary / final diagnosis.
		PC-1.5. Establishes a preliminary / final diagnosis based on the examination of the patient, laboratory and instrumental studies.
		PC-1.6. Establishes the final diagnosis on the basis of additional examinations of patients.
PC-2.	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	PC-2.1. Organizes the provision of medical care in emergency and urgent forms for acute dental diseases, conditions, exacerbation of chronic diseases that pose a threat to the patient's life or without obvious signs of a threat to the patient's life.
		PC-2.2. Conducts the selection of drugs and medical devices (including dental materials) for the treatment of dental diseases, assessing possible side effects from taking drugs.
		PC-2.3. Provides consultation to the patient on the methods of treatment of dental diseases, drawing up a comprehensive treatment plan with the rationale for the most appropriate tactics and assessing possible complications caused by the use of this technique.
		PC-2.4. Selects the type of local anesthesia / anesthesia and evaluates possible complications caused by their use.
		PC-2.5. Conducts a specialized reception of adults and / or children, monitoring the course of treatment of caries, non-carious diseases of the

		teeth, pulpitis, periodontitis, periodontitis, bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint, salivary glands, diseases of the mucous membrane of the cavity of the mouth, with the exception of precancers, using modern methods of treatment approved for use in medical practice.
		PC-2.8. Carries out observation and treatment of diseases of the mucous membrane of the oral cavity, lips, with the exception of a specialized appointment for the treatment of precancers of the mucous membrane of the oral cavity and lips and the treatment of children with manifestations of viral, bacterial, allergic and other childhood infections in the oral cavity.
		PC-2.9. Conducts a phased sanitation of the oral cavity (excluding sanitation of children under anesthesia).
PC-5.	Able to conduct sanitary and hygienic education among the population and medical workers in order to form a healthy lifestyle	PC-5.1. Forms in patients (their relatives/legal representatives) the motivation to lead a healthy lifestyle and give up bad habits.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
UC-1	UC-1. Being able to implement critical analysis	Medical elementology**;	Medical rehabilitation;

	of problem situations based on systems approach, develop an action strategy.	• Philosophy; • History of Medicine; • Pathophysiology - • Pathophysiology of the head and neck; • Bioelements in medicine**; • Psychology, pedagogy; • Immunology, clinical immunology; • Chemistry of biogenic elements**; • Complete denture prosthetics; • Dental modeling**; • Human Anatomy - Anatomy • head and neck; • Dental prosthetics (simple prosthetics); • Mathematics; • Physics;	• Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and Pediatric prosthetics; • Gnathology and functional diagnosis of temporomandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics;
GPC-1	GPC-1. Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity	• Jurisprudence; • History of Medicine; • Organization of general patient care; • Introduction to the specialty; • Introductory practice; • Practice in obtaining primary professional skills in nursing positions (Assistant ward and procedural medicine);	• Orthodontics and Pediatric prosthetics; • medical rehabilitation
GPC-2.	GPC-2. Being able to analyse the results of their own professional activity to prevent professional errors	• Endodontics; • Oral surgery; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry;	• Maxillofacial and gnathic surgery; • Head and neck diseases; • Gerontostomatology and diseases of mucous membrane of the oral cavity; • Implantology and reconstructive surgery of the oral cavity; • Orthodontics

			and pediatric prosthetics;
GPC -4	GPC-4. Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	• Prevention and Community Dentistry • Hygiene	• Orthodontics and pediatric prosthetics • medical rehabilitation
GPC -5	GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	• Endodontics; • Oral surgery; • General surgery; • Surgical diseases; • Internal illnesses; • Pathological anatomy - Pathological anatomy of the head and neck; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • Propaedeutics of dental diseases; • Dental prosthetics (simple prosthetics);	• Maxillofacial and gnathic surgery; • Head and neck diseases; • Pediatrics; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery • oral cavity; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and pediatric prosthetics; • Gnathology and functional diagnostics of the temporal mandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics;
GPC -6	GPC-6. Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	• Materials Science; • Endodontics; • Oral surgery; • General surgery; • Pharmacology; • Surgical diseases; • Internal illnesses; • Immunology, clinical	• Maxillofacial and gnathic surgery; • Head and neck diseases; • Clinical pharmacology; • Pediatrics;

		- immunology; • Cariesology and diseases of hard dental tissues; • Prosthetics for complete absence of teeth; • Fundamentals of military training. • Life safety; • Dental prosthetics (simple prosthetics;	• Medical rehabilitation; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Clinical dentistry; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and pediatric prosthetics; • Gnathology and functional diagnostics of the temporal mandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial prosthetics;
GPC-9	GPC-9. Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	• Oral surgery; • Biological chemistry - Biochemistry of the oral cavity; • Microbiology, virology - Microbiology of the oral cavity; • Pathophysiology - Pathophysiology of the head and neck; • Pathological anatomy - Pathological anatomy of the head and neck; • Radiation diagnostics; • Local anesthesia and anesthesiology in dentistry; • Human Anatomy -	• Maxillofacial and gnathic surgery; • Head and neck diseases; • Medical rehabilitation; • Forensic Medicine; • Implantology and reconstructive surgery • oral cavity; • Orthodontics and pediatric prosthetics;

		Head and Neck Anatomy; • Histology, embryology, cytology - Histology of the oral cavity; • Normal physiology, physiology of the maxillofacial area; • Topographic anatomy and operative surgery of the head and neck;	
PC-1	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	• Endodontics; • Oral surgery; • Pathophysiology - Pathophysiology of the head and neck; • Pathological anatomy - Pathological anatomy of the head and neck; • Immunology, clinical immunology; • Chemistry of biogenic elements**; • Radiation diagnostics; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • Propaedeutics of dental diseases; • Dental modeling of teeth**; • Three-dimensional computer modeling of teeth**; • Three-dimensional x-ray diagnostic methods in dentistry**; • Fundamentals of military training. • Life safety; • Dental prosthetics (simple prosthetics); • Dental assistant (hygienist);	• Maxillofacial and gnathic surgery; • Head and neck diseases; • Medical rehabilitation; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Oncostomatology and radiation therapy; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and children's prosthetics; • Modern endodontics**; • Gnathology and functional diagnostics of the temporal mandibular joint; • Dental prosthetics (complex prosthetics); • Maxillofacial

			- prosthetics; • Aesthetic restoration of teeth**; • Assistant dentist (pediatric); • Dental assistant (general practice), incl. research work;
PC-2	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	• Endodontics; • Innovative technologies in dentistry; • Medical elementology**; • Oral surgery; • Bioelements in medicine**; • Cariesology and diseases of hard dental tissues; • Local anesthesia and anesthesiology in dentistry; • Prosthetics for complete absence of teeth; • Propaedeutics of dental diseases; • Organization of general patient care; • Dental prosthetics (simple prosthetics);	• Physiotherapy of dental diseases; • Maxillofacial and gnathic surgery; • Head and neck diseases; • Clinical pharmacology; • Gerontostomatology and diseases of the oral mucosa; • Implantology and reconstructive surgery of the oral cavity; • Clinical dentistry; • Pediatric maxillofacial surgery; • Medical genetics in dentistry; • Orthodontics and pediatric prosthetics; • Modern endodontics**; • Gnathology and functional diagnosis of the temporal mandibular joint; • Dental prosthetics (complex prosthetics); • prosthetics);

			• Maxillofacial prosthetics; • Aesthetic restoration of teeth**; • Dentist assistant (pediatric); • Assistant dentist (general practice), incl. scientific research work;
PC-5	PC-5. Being able to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle	• Oral surgery; • Prevention and community dentistry; • Hygiene; • Psychology, pedagogy; • Local anesthesia and anesthesiology in dentistry;	• Maxillofacial and gnathic surgery; • Head and neck diseases; • Implantology and reconstructive surgery of the oral cavity; • Orthodontics and pediatric prosthetics; • Dental assistant (general practice), incl. research work;

* To be filled in according to the competence matrix of the higher education programme.

** - elective subjects/practices

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 4 credits (144 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)**

Type of academic activities	Total academic hours	Semesters/training modules	
		7	8
Classroom learning, ac.h.	85	51	34
including:			
Lectures (LC)	-	-	-
Lab work (LW)	85	51	34
Seminars (workshops/tutorials) (S)	-	-	-
Self-studies	38	18	17
Evaluation and assessment (exam/passing/failing grade)	24	3	21

Type of academic activities		Total academic hours	Semesters/training modules	
			7	8
Course workload	academic hours	144	72	72
	credits	4	2	2

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Section 1. Dental caries in children.	Topic 1.1. Anatomical and physiological features of teeth structure in children. Methods of examining a child in the clinic of pediatric therapeutic dentistry.	LW
	Topic 1.2. Etiology and pathogenesis of dental caries in children. Classification of caries. Clinical features of dental caries in children of different age groups. Diagnostic methods. Enamel caries of temporary and permanent teeth in children.	LW
	Topic 1.3. Caries of the dentin of temporary and permanent teeth. Caries cement temporary and permanent teeth. Diagnostics and treatment.	LW
	Topic 1.4. Suspended dental caries. Complications in the treatment of dental caries in children. Prevention of caries.	LW
Section 2. Non-carious lesions of dental tissues.	Topic 2.1. Pathology of hard tissues of the tooth during their follicular development. Systemic enamel hypoplasia (SEH). local hypoplasia. Tetracycline teeth. Other types of SEH. Endemic dental fluorosis. Diagnostics. Treatment.	LW
	Topic 2.2. Hereditary developmental disorders of dental tissues. Hereditary amelogenesis imperfecta. Dentin imperfecta and odontogenesis.	LW
Section 3. Pulpitis in children.	Topic 3.1. Anatomical and physiological features of the pulp of temporary and permanent teeth in children of different ages. Etiology and pathogenesis of pulpitis. Classification of pulpitis.	LW
	Topic 3.2. Methods for assessing the condition of the pulp in children. Methods of Diagnosis and treatment of pulpitis of temporary and permanent teeth in children.	LW
	Topic 3.3. Conservative method of treatment of pulpitis of temporary and permanent teeth in children. Non-vital method of treatment of pulpitis of temporary and permanent teeth in children.	LW
	Topic 3.4. Treatment of pulpitis in children under anesthesia. Errors and complications in the diagnosis and treatment of pulpitis in children.	LW

Section 4. Apical periodontitis in children	Topic 4.1. Anatomical and physiological features of the periodontal ligament (PDL) of temporary and permanent teeth in children of different periods of tooth formation. Etiology and pathogenesis of apical periodontitis. Classification of apical periodontitis.	LW
	Topic 4.2. Clinical manifestation of apical periodontitis in children. Diagnosis and differential diagnosis of apical periodontitis.	LW
	Topic 4.3. Treatment of apical periodontitis of temporary teeth in children. Treatment of apical periodontitis of permanent teeth in childhood.	LW
	Topic 4.4. Long-term results of treatment of apical periodontitis in children. Emergency dental care for children.	LW
Section 5. Traumatic injuries of teeth in children.	Topic 5.1. Traumatic injuries of teeth in children.	LW
Section 6. Diseases of the oral mucosa in children.	Topic 6.1. Anatomical and physiological features of the oral mucosa in children. Classification of diseases of the oral mucosa. Traumatic damage to the oral mucosa.	LW
	Topic 6.2. Acute herpetic stomatitis in children. Recurrent herpetic stomatitis. Herpangina. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Streptococcal and Staphylococcal lesions of the lips and skin of the perioral region.	LW
	Topic 6.3. Acute infectious diseases on the oral mucosa in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment.	LW
	Topic 6.4. The state of the oral mucosa in children with diseases of internal organs and systemic diseases.	LW
	Topic 6.5. Manifestations of drug and bacterial allergies in the oral cavity in children.	LW
	Topic 6.6. Candidiasis in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Damage to the oral mucosa in children caused by tuberculosis and syphilitic infection. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Manifestation of HIV infection in the oral cavity in children.	LW
	Topic 6.7. Cheilitis, glossitis in children.	LW
Section 7. Periodontal Diseases in Children.	Topic 7.1. Anatomical and physiological features of the periodontium in children. Periodontal disease in childhood. Classification of periodontal diseases.	LW
	Topic 7.2. Inflammatory periodontal disease in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Histiocytosis of Langerhans cells. Idiopathic diseases with	LW

	progressive lysis of periodontal tissues. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, principles of treatment.	
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* - to be filled in only for **full** -time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. A variety of equipment is used for classroom activities: (visual aids, dental equipment and surgical instruments for extraction of teeth, phantoms, drugs, extracted teeth, x-rays, computer presentation, computers, projector, tables, dental equipment and surgical instruments for emergency care), (classrooms 245, 249)	Training room for conducting lecture and seminar classes, group and individual consultations, current control and intermediate certification. A set of specialized furniture; technical means: multimedia projector, laptop, WiFi available Internet access. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams)
Lab-work	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	Cabinets with appropriate equipment (Phantom Class), instruments, medical equipment, preventive measures;
Self-studies	Classroom for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the internet.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Pediatric therapeutic dentistry. National leadership / ed. VC. Leontiev, L.P. Kiselnikova. – 2nd ed., revised and supplemented. - M., GEOTAR-Media, 2017. - 952 p.: ill. - ISBN 978-5-9704-4019-3.
2. Kosyuga, S. Yu. Textbook on practical training in pediatric dentistry therapy for foreign dental students / S. Yu. Kosyuga. – Нижний Новгород : Publishing House of Privolzhsky Research Medical University, 2022. – 92 p. – ISBN 978-5-7032-1453-4. – EDN GUNUJX.

3. Children's dentistry: textbook / ed. O.O. Yanushevich, L.P. Kiselnikova, Shch.Z. Topolnitsky. - M.: GEOTAR-Media, 2020. - 744 p.: ill. - ISBN 978-5-9704-5318-6.

Additional readings:

1. Vinogradova T.F. Atlas of dental diseases in children: Study guide / T.F. Vinogradov. - M.: MEDpress-inform, 2007. - 167 p.: ill. - ISBN 5-98322-244-9.
2. Dental caries in childhood. Modern methods of diagnosis and treatment: textbook / A.E. Anurova, T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan. - Moscow: RUDN University, 2017. - 95 p.: ill.
3. Modern methods of diagnosis and treatment of pulpitis in children: textbook / A.E. Anurova, O.M. Davidyan, T.F. Kosyreva, V.V. Safroshkin. - Moscow: RUDN University, 2016. - 72 p.: ill.
4. Diseases of the mucous membrane of the oral cavity and lips in children / edited by L.N. Kazari-noy . - Nizhny Novgorod: Publishing house NGMA.m2004. - 264s.
5. Handbook of Pediatric Dentistry / ed. A.Cameron, R.Widmer.- M.: "MEDpress-inform", 2003.- 287p.
6. Dental trauma in children [Electronic resource]: Educational and methodological manual / Comp.: T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan, E.S. Zaporozhskaya-Abramova. - Electronic text data. - M. : Publishing House of RUDN University, 2014. - 40 p. - ISBN 978-5-209-05964-6.
7. Pharmacotherapy in pediatric dentistry [text] / E.V. Zoryan // Clinical Dentistry. - 2012. - No. 2. - S. 6 - 10 .
8. Drugs in pediatric dentistry: textbook /. - Minsk: Higher School, 2017. - 320 p. - Bibliography: p. 305 - ISBN 978-985-06-2717-9; The same [Electronic resource]. - URL: <http://biblioclub.ru/index.php?page=book&id=480060> (04/08/2019).
9. Alnassar I, Altinawi M K, Rekab M, et al. (November 22, 2022) Evaluation of Bioceramic Putty in Pulpotomy of Immature Permanent Molars With Symptoms of Irreversible Pulpitis. Cureus 14(11): e31806. DOI 10.7759/cureus.31806
10. Mohamad Nabil Hamod, Chaza Kouchaji, Faten Rostom, Hasan Alzoubi, Imad Katbeh, Nikolay Tuturov, "Evaluation of the Efficacy of Nasal Sedation Midazolam Compared with Dexmedetomidine in the Management of Uncooperative Children with Down Syndrome during Dental Treatment", International Journal of Dentistry, vol. 2022, Article ID 7344928, 6 pages, 2022. <https://doi.org/10.1155/2022/7344928>
11. Alhuda DA, Rajab A, Shaadouh R, Katbeh I, Tuturov N, Arrag EA. Efficacy evaluation of pepsin enzyme-based gel in chemo-mechanical caries removal on primary anterior teeth: a randomized controlled clinical study. Brazilian Dental Science. 2022 Dec 19;25(4): e3538. DOI: 10.4322/bds.2022.e3538
12. The Effect of Intravenous Deep Sedation on Behaviour of Non Cooperative Children in the Dental Office-An Interventional Study / Mhd Raslan Alzein, Mohamed Altinawi, Faten Rostom, Imad Katbeh, et al. // Journal of Clinical and

13. Evaluation of the Efficacy of Buccal Midazolam in Comparison With Intranasal Midazolam Sedation in Uncooperative Children During Dental Treatment D Arnaout, M Altinawi, I Katbeh, N Tuturov, A Saleh International Journal of Dentistry 2025 (1), 4269519, 6 pages. <https://doi.org/10.1155/ijod/4269519>
14. General anesthesia and sedation in pediatric dentistry [Electronic resource]: A guide. - M. : GEOTAR-Media, 2007. - 184 p. - ISBN 978-5-9704-0505-5.

Information support of discipline

- a) Information technologies used in the educational process:
 - Problem lectures
 - Role and business games
 - Computer presentations during theoretical and practical classes
- b) Software
 - training computer programs prepared using the Microsoft Office application package
 - controlling computer programs prepared using the Microsoft Office application package
- c) Information reference systems
 - selection of lecture material on CDs, video films
- d) databases, information and reference and search systems
 - RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
 - ELS "University Library Online" <http://www.biblioclub.ru>
 - EBS "Lan" <http://e.lanbook.com/>
 - scientific electronic library eLibrary
 - PubMed international citation database
 - publishing house of academic medical literature Elsevier
 - information and educational portal for doctors Univadis
 - electronic educational resource "Telecommunication educational and information system" of RUDN University
 - cathedral site

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/>

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine [https:// www.yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS [http:// www.elsescience.ru/products/scopus/](http://www.elsescience.ru/products/scopus/)

Learning toolkits for self-studies during the development of the discipline:*

1. A course of lectures on the discipline "**Pediatric Dentistry**".

2. Methodological Guidelines for the implementation and execution of control and independent work on the discipline "**Pediatric Dentistry**"

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline **in TUIS** (the university telecommunication educational and information system).

9. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation Toolkit (ET) and a point-rating system (PRS)* for assessment the level of competence formation (part of competencies) based on the results of mastering the discipline "**Pediatric Dentistry**" are presented in the Appendix to this Work Program of the discipline.

* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

Evaluation materials and point-rating system* for assessing the level of competence formation (GC-1.1; GPC-1; GPC-2; GPC-4; GPC-5; GPC-6; GPC-9; PC-1; PC-2; PC-5) based on the results of mastering the discipline «**Pediatric Dentistry**» are presented in the Appendix to this Work Program of the discipline.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Associate professor, department of
pediatric dentistry and orthodontics

Position, educational department

Signature

Im. Katbeh

name and surname.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Pediatric Dentistry
and Orthodontics

educational department

Signature

N.S. Tuturov

name and surname.

HEAD OF HIGHER EDUCATION PROGRAMME:

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