Уникальный программный ключ: ca953a0120d891083f939673078ef1a989dae18a

Должность: Pekton Дата подписания: 05:06.2024 15:55:45 Цимитика в **LUMUMBA RUDN University**

Medical Institute

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

COURSE SYLLABUS

Orthodontics and pediatric prosthetics

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. THE GOALS OF MASTERING THE DISCIPLINE

The purpose of mastering the discipline "Orthodontics and pediatric prosthetics" is the preparation of a dentist who has systemic knowledge of the basics and latest achievements of orthodontics to use that knowledge gained in practical and scientific activities.

Tasks:

- to acquaint the student with the epidemiology, etiology of dentofacial anomalies and deformities;

- to acquaint the student with the development, growth and formation of the jaws and face in general;

- to acquaint the student with the methods of clinical and radiological examination of the dentoalveolar system, classifications of dentoalveolar anomalies;

- to acquaint the student with the methods of preventing the formation of dental anomalies, congenital and hereditary diseases;

- to acquaint the student with the methods of treatment of dentoalveolar anomalies and deformities in various periods of growth and development, as well as in adult patients

- consider the use of various designs of orthodontic appliances.

2. REQUIREMENTS to LEARNING OUTCOMES

Mastering the discipline "**Orthodontics and pediatric prosthetics**" is aimed at developing the following competencies in students:

UC-1; GPC-1, GPC-2, GPC-4, GPC-5, GPC-9; PC-1, PC-2, PC-5;

(in accordance with the Federal State Educational Standard of Higher Education (FSES) 3++ 31.05.03 Dentistry).

Code and competence	Indicators of Competence Formation (within the framework of this discipline)
UC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	UC-1.1. Analysing the problem situation as a system identifying its components and links between them.
GPC-1. Being able to implement moral standards	GPC-1.1. Observing bases of medical ethics and deontology; legal bases in healthcare; legal aspects of medical practice.
and legal regulations, ethical and deontological principals in professional activity	GPC-1.3. Being experienced in solving standard professional tasks based on the ethical standards and deontological principles when interacting with colleagues and patients (their legal representatives); being aware of legal aspects of medical practice.
GPC-2. Being able to analyse the results of their	GPC-2.1. Analysing the causes of professional errors, therapeutic failures and conflict situations.
own professional activity to prevent professional errors	GPC-2.2. Providing scientific arguments for and implementing recommendations aimed at improving the medical and legal training of dentists, preventing professional errors, adverse outcomes and conflict situations.

Table 2.1. The list of competencies formed by students during the development of the discipline (results of the mastering of the discipline)

	CPC 2.3 Associate the effectiveness of preventive measures		
	GI C-2.3. Assessing the effectiveness of preventive measures		
	aimed at preventing professional errors, adverse outcomes and		
	conflict situations in dentistry.		
GPC-4. Being able to	GPC-4.1. Analysing the awareness of the population of a healthy		
monitor the effectiveness of	lifestyle and medical literacy.		
preventive measures, healthy	GPC-4.3. Preparing an oral presentation or a printed text that		
lifestyle formation and	promotes a healthy lifestyle and increases the literacy of the		
sanitary and hygienic	population concerning dental disease prevention		
education of the population	population concerning dental disease prevention.		
GPC-5. Being able to	GPC-5.1. Gathering anamnesis by analysing the patient's		
examine patients to	complaints making a physical examination at a dental		
determine a diagnosis when	annointment		
solving professional tasks	CPC 5.2 Formulating a proliminary diagnosis and drawing up a		
solving professional tasks	GI C-5.2. Formulating a premimary diagnosis and drawing up a		
	patient.		
	GPC-5.3. Compiling medical documentation for a dental patient		
	in accordance with regulatory requirements.		
	GPC-5.4. Referring a patient to a laboratory examination in case		
	there are medical indications in accordance with the current		
	procedures for the provision of medical care, clinical guidelines		
	(treatment protocols) on the provision of medical care taking into		
	account the standards of dental care		
	CPC-5.5 Referring a patient to an instrumental examination in		
	case there are medical indications in accordance with the current		
	case there are medical indications in accordance with the current		
	procedures for the provision of medical care, chinical guidennes		
	(treatment protocols) on the provision of dental care taking into		
	account the standards.		
	GPC-5.6. Referring a patient for a consultation with medical		
	specialists in case 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 the standards.		
	GPC-5.8. Conducting differential diagnosis with other		
	diseases/conditions, including the urgent ones.		
	GPC-5.9. Making a diagnosis based on the current international		
	statistical classification of diseases and health problems		
CBC (Dains all to	CBC (1 Development of the for the state of		
GPC-6. Being able to	GPC-6.1. Developing a plan for dental disease treatment taking		
prescribe non-drug and drug	into account the diagnosis, age and clinical picture in accordance		
treatment, monitor its	with the current procedures for the provision of medical care,		
efficacy and safety when	clinical guidelines (treatment protocols) on the provision of		
solving professional tasks	medical care taking into account the medical care standards.		
	GPC-6.2. Selecting medical products (including dental materials)		
	for drawing up a comprehensive plan for dental disease treatment.		
	Following up the treatment of a patient.		
	GPC-6.3. Assessing the possible side effects of taking medicinal		
	drugs.		
	GPC-6.4. Providing medical care to a dental patient in emergency		
	or urgent forms.		
	GPC-6.5 . Organizing the prevention and treatment of		
	complications side effects undesirable reactions including the		
	unforeseen ones, which can arise from diagnostic or medicinal		
	unoreseen ones, when can arise nom diagnostic of medicillar		

	manipulations, use of drugs and (or) medical devices, non-drug treatment at a dental appointment.
	GPC-6.9. Evaluating the efficacy and safety of using medicinal drugs, medical devices and other methods of treatment at a dental appointment.
GPC-9. Being able to assess morpho-functional,	GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks.
physiological conditions and pathological processes in the	GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks.
human body to solve professional tasks	GPC-9.3. Determining morpho-functional, physiological states and pathological processes of the human body.
PC-1. Being able to make an examination of a patient in	PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.
order to determine a diagnosis.	PC-1.2. Receiving information from patients (their relatives/legal representatives); conducting a questionnaire survey of patients regarding their general health status; identifying concomitant diseases in order to make a preliminary diagnosis.
	PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition on the basis of the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.
	PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.
	PC-1.6. Making a final diagnosis based on additional examinations of patients.
PC-2. Being able to prescribe, monitor the efficacy and safety of non- drug and drug treatment	PC-2.1. Organizing the provision of emergency and urgent medical care for acute dental diseases, conditions, exacerbation of chronic diseases, which pose a threat to the patient's life, or without obvious signs of a threat to the patient's life.
	PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs.
	PC-2.3. Consulting patients on methods for treating dental diseases drawing up a comprehensive treatment plan which justifies the most appropriate tactics and assesses possible complications caused by using this technique.
	PC-2.4. Selecting the type of local anesthesia/anesthesia and assessing the possible complications caused by using it.
	PC-2.5. Conducting a specialized appointment for adults and/or children, monitoring the course of treatment of caries, non-carious dental diseases, pulpitis, periodontal disease, periodontitis, jawbone tissue, peripheral nervous system of the maxillofacial area, temporomandibular joint, salivary glands, diseases of the mucous tunic of mouth, with the exception of precancers, using modern treatment methods approved for use in medical practice.
	with the exception of a specialized appointment for the treatment of precancers of the oral mucosa and lips, and treatment of

	children with manifestations of viral, bacterial, allergic and other pediatric infections in the oral cavity.
	PC-2.9. Performing a phased sanitation of the oral cavity
	(excluding the sanitation of children under conditions of
	anesthesia).
PC-5. Being able to conduct	PC-5.1. Motivating patients (their relatives/legal representatives)
health and hygiene education	to stick to a healthy lifestyle and give up bad habits.
among the population and	
medical workers in order to	
form a healthy lifestyle	

3. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

Discipline "**Orthodontics and pediatric prosthetics**" refers to the mandatory part, block B1 higher education programme professional cycle of the educational standard of higher professional medical education in the specialty 31.05.03 "Dentistry". Studied in the eighth and ninth semesters.

The basic knowledge necessary to study the discipline is formed:

- in the cycle of humanitarian disciplines (philosophy, bioethics, pedagogy, psychology, jurisprudence, history of medicine, economics, Latin, foreign language);

- in the cycle of natural sciences, medical and biological disciplines, mathematical, (mathematics, physics, computer science, chemistry, biochemistry, biology, anatomy and topographic anatomy of the maxillofacial region, microbiology, virology, immunology, histology, cytology, normal physiology, pathological anatomy, pathophysiology, pharmacology).

The study of the discipline "Orthodontics and pediatric prosthetics" is based on the knowledge and skills previously acquired by students as a result of mastering the previous parts of the educational program, which are necessary for mastering this discipline.

No. p / p	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
Gen	eric competencies		
1	UC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	 Medical elementology**; Otorhinolaryngology; Philosophy; History of Medicine; Pathophysiology - Pathophysiology of the head and neck; Bioelements in medicine**; Psychology, pedagogy; Immunology, clinical immunology; 	 Pediatric maxillofacial surgery Maxillofacial prosthetics Gnathology and functional diagnosis of the temporomandibular joint;

Table 3.1. List of Higher Education Program disciplines that contribute to expected learning outcomes

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Geno 2	eral professional competencie GPC-1. Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity	 Chemistry of biogenic elements**; Obstetrics; Prosthetics for complete absence of teeth; Pediatric dentistry; Dental modeling of teeth**; Human Anatomy - Head and Neck Anatomy; Dental prosthetics (simple prosthetics); Dental prosthetics (complex prosthetics); Dental prosthetics; Physics; S Otorhinolaryngology; Jurisprudence; History of Medicine; Pediatric dentistry; Organization of general patient care; Introductory practice; Practice in obtaining primary professional skills in positions of 	
		nursing staff	
		(Assistant ward and	
3	GPC-2 Being able to	procedural nurses;	Mavillafasial and
5	analyse the results of their own professional activity to prevent professional errors	 Endodontics; Periodontology; Oral surgery; Cariesology and diseases of hard dental tissues; Local anesthesia and anesthesiology in dentistry; Pediatric dentistry; 	 Maxillofacial and gnathic surgery; Gerontostomatology and diseases of the oral mucosa; Implantology and reconstructive surgery of the oral cavity;
4	GPC-4. Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and	 Prevention and community dentistry; Hygiene; Pediatric dentistry; 	

	sanitary and hygienic		
5	education of the population GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	 Emergency conditions in outpatient dental practice; Ophthalmology; Endodontics; Periodontology; Oral surgery; General surgery; Surgical diseases; Internal illnesses; Pathological anatomy Pathological anatomy Pathological anatomy Pathological anatomy Cariesology and diseases of hard dental tissues; Local anesthesia and anesthesiology in dentistry; Prosthetics for complete absence of teeth; Pediatric dentistry; Propaedeutics of dental diseases; Dental prosthetics (simple prosthetics); Dental prosthetics Complex prosthetics 	 Maxillofacial and gnathic surgery; Gerontostomatology and diseases of the oral mucosa; Implantology and reconstructive surgery of the oral cavity; Pediatric maxillofacial surgery; Gnathology and functional diagnostics of the temporal mandibular joint; Maxillofacial prosthetics;
6	GPC-6. Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	 Emergency conditions in outpatient dental practice; Materials Science; Endodontics; Periodontology; Oral surgery; General surgery; Pharmacology; Surgical diseases; Internal illnesses; Immunology, clinical immunology; Obstetrics; 	 Maxillofacial and gnathic surgery; Clinical pharmacology; Gerontostomatology and diseases of the oral mucosa; Implantology and reconstructive surgery of the oral cavity; Clinical dentistry; Pediatric maxillofacial surgery;

	1		
7	CPC 9. Being able to access	 Cariesology a diseases of ha dental tissues; Prosthetics for complete abset teeth; Pediatric dent Fundamentals military trainit Life safety; Dental prosthet (simple prosthet (complex prosthetics); 	nd rd rd rd functional diagnosis of the temporomandibular joint; Maxillofacial prosthetics; etics netics); etics
7	GPC-9. Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	 Ophthalmolog Oral surgery; Biological che Biological che Biochemistry	 Maxillofacial and gnathic surgery; Forensic Medicine; Implantology and reconstructive surgery of the oral cavity; of the Ogy - ogy of neck; matomy e head sia and y in istry; my - ck

		operative surgery of	
		the head and neck;	
Prof	essional competencies		
8	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	 Ophthalmology; Endodontics; Periodontology; Oral surgery; Otorhinolaryngology; Pathophysiology - Pathophysiology of the head and neck; Pathological anatomy - Pathanatomy of the head and neck; Immunology, clinical immunology; Chemistry of biogenic elements**; Radiation diagnostics; Obstetrics; Cariesology and diseases of hard dental tissues; Local anesthesia and anesthesiology in dentistry; Prosthetics with complete absence of lips; Pediatric dentistry; 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); Dental prosthetics); 	 Maxillofacial and Gnathic Surgery; Gerontostomatology and diseases of the oral mucosa; Implantology and reconstructive surgery of the oral cavity; Oncostomatology and radiation therapy; Pediatric maxillofacial surgery; Modern endodontics**; Gnathology and functional diagnosis of the temporomandibular joint; Maxillofacial prosthetics; Aesthetic restoration of teeth**; Assistant dentist (general practice), incl. research work;

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			 Assistant dentist (hygienist); Assistant dentist (surgeon); 	
	9	PC-2. Being able to prescribe, monitor the efficacy and safety of non- drug and drug treatment	 Endodontics; Periodontology; 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; Pediatric dentistry; Propaedeutics of dental diseases; Organization of general patient care; Infectious diseases, phthisiology; Dental prosthetics (simple prosthetics); Dental prosthetics (complex prosthetics); Assistant dentist (surgeon); 	 Maxillofacial and Gnathic Surgery; Clinical pharmacology; Gerontostomatology and diseases of the oral mucosa; Implantology and oral reconstructive surgery; Clinical dentistry; Pediatric maxillofacial surgery; Modern endodontics**; Gnathology and functional diagnosis of the temporomandibular joint; Maxillofacial prosthetics; Aesthetic restoration of teeth**; Assistant dentist (general practice), incl. research work;
	10	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; Public Health and Healthcare; Hygiene; Psychology, 	 Maxillofacial and gnathic surgery; Implantology and reconstructive surgery of the oral cavity; Dental assistant
			 pedagogy; Local anesthesia and anesthesiology in dentistry; Pediatric dentistry: 	(general practice), incl. research work;

* - filled in accordance with the matrix of competencies of higher education programme.

4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total complexity of the discipline "**Orthodontics and pediatric prosthetics**" is **6** credit units.

Table 4.1. Types of academic activities during the period of the HE program mastering

Type of academic activities		TOTAL,	Semester(s)			
		academic hours (ac.h)	8	9		
Classroom learning, ac.h.		115	51	64		
including:						
Lectures (Lec)		-	-	-		
Lab work (Lab)		115	51	64		
Practical/seminar classes		-	-	-		
Self-studies, academic hours		68	15	53		
Evaluation and assessment (exam or pass/fail grading)		33	6	27		
Total workload of the discipline ac.h.		216	72	144		
Total workioau of the discipline	credits	6	2	4		

5. THE COURSE MODULES AND CONTENTS

Table 5.1. The content of the discipline and types of academic activities

Name of the discipline section	Section content	Type of academic activities
Section 1. Introduction	Topic 1.1. Introduction to the specialty. Organization of	Lab
to the specialty.	orthodontic care.	
Organization of	Topic 1.2. Age features of normal dentoalveolar system in	Lab
orthodontic care. Age	children.	
features of normal	Topic 1.3. Etiology of dental anomalies.	Lab
dentoalveolar system in	Topic 1.4. Classification of dental anomalies.	Lab
children. Etiology,		
classification of		
dentoalveolar		
anomalies.		
Section 2. Methods of	Topic 2.1. Clinical examination method in orthodontics.	Lab
examination and	Topic 2.2. Anthropometric examination methods.	Lab
diagnostics in	Topic 2.3. X-ray methods of examination.	Lab
orthodontics.	Topic 2.4. Functional examination methods.	Lab
Section 3. Methods of	Topic 3.1. Methods of treatment in orthodontics.	Lab
treatment in Classification of devices.		
orthodontics.	Topic 3.2. Apparatuses of mechanical action.	Lab

Prevention of dental	Topic 3.3. Devices of functional-guiding and combined		
anomalies.	action. Trainers, activators and regulators of functions.		
Section 4. Modern	Topic 4.1. Modern orthodontic methods of treatment.	Lab	
technologies in	Topic 4.2. Bracket system.	Lab	
orthodontics.	Topic 4.3. Retention of the results of orthodontic treatment.	Lab	
Section 5. Dental	Topic 5.1. Diagnosis and methods of treatment of	Lab	
anomalies. clinical	anomalies of teeth, dental arches and jawbones.		
forms. Diagnostics.	Topic 5.2. Diagnosis and treatment of anomalies of	Lab	
Treatment.	occlusion in the sagittal plane.		
	Topic 5.3. Diagnosis and treatment of anomalies of	Lab	
	occlusion in the vertical plane. Diagnosis and treatment of		
	anomalies of occlusion in the transversal plane.		
Section 6. Dental	Topic 6.1. Principles of treatment of dentoalveolar	Lab	
prosthetics in children	anomalies in congenital malformations of the maxillofacial		
and adolescents.	region.		
	Topic 6.2. Dental prosthetics in children and adolescents.	Lab	

Table 5.4. Laboratory activities Orthodontics and pediatric prosthetics (8 sem., 2 credits)

	Orthodontics and pediatric prostnetics (8 sem., 2 credits)				
No. p / p	No. of discipline section	Topics of laboratory classes	Work load (hour.)		
1	Module 1. Introduction to the specialty. Organization	Introduction to the specialty. Organization of orthodontic care.	6		
of orthodontic care. Age features of the dentoalveolar t		Age features of the dentoalveolar system of the child are normal.	6		
	system of the child are	Etiology of dental anomalies	6		
	normal. Etiology, classification of	Classification of dental anomalies.	6		
	dentoalveolar anomalies.				
2.	Module 2. Methods of	Clinical examination method in orthodontics	5		
	in orthodontics.	Anthropometric examination methods	5		
		X-ray methods of research	5		
		Functional examination methods	5		
		Attestations No. 1, No. 2: tests, situational tasks, control of practical skills for the module being studied.	7		
	Total	Laboratory classes 8th semester	51 hours		

Orthodontics and children's prosthetics (9 sem., 4 credits)

No.	No. of discipline section	Topics of laboratory classes	Labor
p / p		9 th semester	capacit
			y (hour.)

1.	Module 3. Methods of	Methods of treatment in orthodontics. Appliance's classification	5
	treatment in	Appliances of mechanical action.	5
	orthodontics. Prevention of dental anomalies	Appliances of functional-guiding and combined action. Trainers, activators and regulators of functions.	5
2.	Module4.	Modern orthodontic methods of treatment.	5
	technologies in	Breket system	5
	orthodontics	Retention of the results of orthodontic treatment.	5
3.	Module 5. Dental anomalies.	Diagnosis and methods of treatment of anomalies of teeth, dentition and jawbones.	5
	clinical forms. Diagnostics. Treatment.	Diagnosis and treatment of anomalies of occlusion in the sagittal direction.	5
		Diagnosis and treatment of anomalies of occlusion in the vertical direction. Diagnosis and treatment of anomalies of occlusion in the transverse direction.	5
4.	Module 6. Dental prosthetics in	Principles of treatment of dentoalveolar anomalies in congenital malformations of the maxillofacial region.	5
	children and	Dental prosthetics in children and adolescents.	5
		Preparing for the exam	5
		Attestations No. 1, No. 2: tests, situational tasks, control of practical skills for the module being studied.	4
	Total	Laboratory classes 9th semester	64
			hours

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

Table 7.1.	Logistical	and	material	provision	of the	discip	line
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Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
Lecture	An auditorium for lecture-type classes,	Training room for conducting
	equipped with a set of specialized	lecture and seminar classes,
	furniture; board (screen) and technical	group and individual
	means of multimedia presentations.	consultations, current control
	A variety of equipment is used for	and intermediate certification.
	classroom activities: (visual aids,	A set of specialized furniture;
	dental equipment and surgical	technical means: multimedia
	instruments for extraction of teeth,	projector, laptop, WiFi available
	phantoms, drugs, extracted teeth, x-	Internet access.

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
	rays, computer presentation, computers, projector, tables, dental equipment and surgical instruments for emergency care), (classrooms 245, 249)	Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams)
Learning Lab	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;
Classroom for students' 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.	

8. RECOMMENDED SOURSES for COURSE STUDIES

Main literature:

- Orthodontics. Modern Methods of Diagnosing Dental Abnormalities, Dentition and Occlusion: Tutorial / L. S. Persin, A. B. Slabkovskaia, E. A. Karton [et al.]. – Moscow: Общество с ограниченной ответственностью Издательская группа "ГЭОТАР-Медиа", 2021. – 160 р. – ISBN 978-5-9704-6337-6. – DOI 10.33029/9704-6337-6-OMM-1-160. – EDN UIBWJX.
- Proffit W. R. et al. Contemporary Orthodontics, 6e: South Asia Edition-E-Book. Elsevier India, 2019.
- Lobprise H. B. Occlusion and orthodontics //Wiggs's Veterinary Dentistry: Principles and Practice. 2019. C. 411-437.
- Dawson P. E. Functional occlusion: from TMJ to smile design. Elsevier Health Sciences, 2006.

Additional literature:

- Wang N. et al. Recent advances in antibacterial coatings for orthodontic appliances //Frontiers in Bioengineering and Biotechnology. 2023. T. 11. C. 1093926.
- Kapos F. P. et al. Temporomandibular disorders: a review of current concepts in aetiology, diagnosis and management //Oral surgery. 2020. T. 13. №. 4. C. 321-334.
- Lee G. H. et al. Protocols for orthodontic treatment of patients with temporomandibular joint disorders //American Journal of Orthodontics and Dentofacial Orthopedics. 2021. T. 159. No. 3. C. 373-388.
- Minervini G. et al. Prevalence of temporomandibular disorders in children and adolescents evaluated with Diagnostic Criteria for Temporomandibular Disorders: A systematic review with meta-analysis //Journal of oral rehabilitation. 2023. T. 50. №. 6. C. 522-530.
- Dowgierd K. et al. Protocol for multi-stage treatment of temporomandibular joint ankylosis in children and adolescents //Journal of Clinical Medicine. 2022. T. 11. №. 2. C. 428.

- Vyas T. et al. Cleft of lip and palate: A review //Journal of family medicine and primary care. 2020. T. 9. №. 6. C. 2621-2625.
- Pediatric dentistry at the present stage [text] / O.P. Maksimova // Clinical Dentistry. 2012.
 No. 3. P.38-41.
- Guidelines for writing a term paper on the topic "History of the disease in the clinic of pediatric dentistry".: /T.F.Kosyreva, V.V.Safroshkina, E.S.Zaporozhskaya-Abramova. – M.: RUDN, 2012. -24p.
- Perez C. Temporomandibular disorders in children and adolescents. Gen Dent. 2018 Nov-Dec;66(6):51-55. PMID: 30444707

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

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- 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

Internet sources

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/

- Google search engine <u>https://www.google.ru/</u>

- abstract database SCOPUS

http://www.elsescience.en/products/scopus/

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

1. Lectures on the discipline "Orthodontics and children's prosthetics ".

2. Methodological Guidelines for the implementation and execution of control and independent work on the discipline " **Orthodontics and children's prosthetics** "

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline <u>in TUIS</u> (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 " **Orthodontics and pediatric prosthetics** " are presented in the Appendix to this Work Program of the discipline.

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

DEVELOPERS:

Senior Lecturer, Department of Pediatric Dentistry and Orthodontics		Imad Katbeh
Position, educational department	Signature	name and surname.
HEAD OF EDUCATIONAL DEPA Department of Pediatric Dentistry	ARTMENT:	
and Orthodontics		N.S. Luturov
educational department	Signature	name and surname.
HEAD OF HIGHER EDUCATION PROGRA	MME:	
Head department, professor, Department of propaedeutics of dental diseases		S.N. Razumova
Position, educational department	Signature	name and surname.