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Должность: Ректор	NDCHID UNIVEDCITY OF DUCCIA
Дата подписания: 25.01.2024 16.38.59 E.S. FRIE	NDSHIP UNIVERSITY OF RUSSIA named after
Уникальный программный ключ:	Patrice Lumumba
ca953a0120d891083f939673078ef1a989dae18a	RUDN University

NIVERSITY OF RUSSIA named after ice Lumumba **DN University** 

### **Institute of Medicine**

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

### **COURSE SYLLABUS**

**Pediatric Maxillofacial Surgery** 

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:

31.05.03 Dentistry

higher education programme profile/specialisation title

2023-2024

# 1. COURSE GOAL(s)

The goal of the course **"Pediatric Maxillofacial Surgery"** is to equip students with the knowledge and skills in the field of diagnosis, treatment and prevention of major surgical dental diseases and injuries of the maxillofacial region in children.

# 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "**Pediatric Maxillofacial Surgery**" is aimed at developing the following competencies in students: GC-1; GPC-5; GPC-6; PC-1; PC-2; PC-6.

Competence	Competence descriptor	Competence formation indicators
code	Competence descriptor	(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 Analyzes the problem situation as a system, identifying its components and relationships between them
		GPC-5.1 Collects anamnesis, analyzing patient 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	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	GPC-5.3 Prepares medical documentation of a dental patient in accordance with regulatory requirements
		GPC-5.8 Conducts differential diagnosis with other diseases/conditions, including emergencies
		GPC-5.9 Establishes a diagnosis based on the current international statistical classification of diseases and related health problems
GPC-6	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional	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

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

Competence code	Competence descriptor	<b>Competence formation indicators</b> (within this course)
	problems	recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care
		GPC-6.2 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
		PC-1.1 Performs primary and/or re- examination of the patient in order to establish a preliminary diagnosis
PC- 1	Capable of examining the patient in order to establish a diagnosis	PC-1.2 Receives information from patients (their relatives/legal representatives), conducts a survey of patients on the subject of general health, identification of concomitant diseases in order to establish a preliminary diagnosis PC-1.3 Detects dentoalveolar and facial anomalies, deformities and prerequisites for their development, defects in 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-1.4 Identifies risk factors for oncopathology in patients (including various background processes, precancerous conditions) based on laboratory, instrumental and 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-2	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	PC-2.6 Conducts orthopedic treatment of persons with defects in teeth, dentitions within temporary prosthetics, prosthetics of single defects in the dentition, prostheses up to three units (excluding prosthetics on dental implants), partial and complete removable lamellar dentures using modern methods of treatment permitted for applications in medical practice

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-6	Able to analyze and publicly present medical information based on evidence-based medicine, to participate in scientific research, to introduce new methods and techniques aimed at protecting public health	PC-6.1 Conducts a search for medical information based on evidence-based medicine, interpreting data from scientific publications and / or preparing a presentation for the public presentation of medical information, the results of scientific research

# **3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE**

The course refers to the <u>core</u>/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

<b>Competence</b>	Competence	Previous	Subsequent
code	descriptor	courses/modules*	courses/modules*
GC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop	Latin language Psychology and pedagogy Bioethics Public health and healthcare	medical rehabilitation Dentistry (module: Clinical dentistry) Orthodontics and pediatric prosthetics Children's dentistry
GPC-5	an action strategy Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	Latin language Psychology and pedagogy Bioethics Public health and healthcare	medical rehabilitation Dentistry (module: Clinical dentistry) Orthodontics and pediatric prosthetics Children's dentistry
GPC-6	Able to prescribe, monitor the effectiveness and safety of non-drug	Latin language Psychology and pedagogy Bioethics Public health and	medical rehabilitation Dentistry (module: Clinical dentistry) Orthodontics and pediatric prosthetics

	and drug treatment	healthcare	Children's dentistry
	in solving professional problems		
PC-1	Capable of examining the patient in order to establish a diagnosis	Cariesology and disease of hard tissues of teeth Propaedeutics of dental diseases Dental prosthetics (simple prosthetics)	Dental prosthetics (complex prosthetics) Gnathology and functional diagnostics of the temporal mandibular joint
PC-2	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	Cariesology and disease of hard tissues of teeth Propaedeutics of dental diseases Dental prosthetics (simple prosthetics)	Dental prosthetics (complex prosthetics) Gnathology and functional diagnostics of the temporal mandibular joint
PC-6	Able to analyze and publicly present medical information based on evidence-based medicine, to participate in scientific research, to introduce new methods and techniques aimed at protecting public health	Latin language Psychology and pedagogy Bioethics Public health and healthcare Pediatrics Propaedeutic dentistry (module Propaedeutics) Dentistry (module Fundamentals of Surgical Dentistry)	medical rehabilitation Dentistry (module: Clinical dentistry) Orthodontics and pediatric prosthetics Children's dentistry

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

# 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 3 credits (108 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	Semesters/training modules			
	hours	10			
Classroom learning , <i>ac.h</i> .	60	60			
including:					
Lectures (LC)	-	-			
Lab work (LW)	60	60			

Type of academic activities		Total academic hours	Semesters/training modules 10			
Seminars (workshops/tutorials) (S)		-	_			
Self-studies		42	42			
Evaluation and assessment (exam/passing/failing grade)		6	6			
Course workload	academic hours_	108	108			
	credits	3	3			

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

# **5. COURSE CONTENTS**

Course module title	Course module contents (topics)	Academic activities types
Section 1	Topic 1.1. Anatomical and physiological features of	LW
Anesthesia in	the child's body. Indications and contraindications for	
pediatric surgical	general and local anesthesia during outpatient dental	
dental practice.	surgery in children. The value of premedication. Types	
Tooth extraction in		
children	children. Emergency conditions at an outpatient dental appointment.	
	<b>Topic 1.2.</b> Indications and features of the extraction of	LW
	temporary and permanent teeth in children.	
	Complications during and after tooth extraction, their	
	prevention and elimination.	
	Topic 1.3. Tactics of a dentist in the presence of	LW
	supernumerary, impacted and dystopic teeth in	
	children.	
Section 2	Topic 2.1.	LW
Inflammatory	Features of the course of odontogenic inflammatory	
diseases of the		
maxillofacial region	soft tissues of the face: lymphadenitis, abscess,	
in children.	phlegmon.	T TT/
	Topic 2.2.	LW
	Clinical picture of acute and chronic periostitis of the jaw bones in children of different ages.	
	Topic 2.3.	LW
	Acute odontogenic osteomyelitis of the jaws,	
	hematogenous osteomyelitis of newborns and young	
	children.	
	Topic 2.4.	LW
	Clinical and radiological forms of chronic	
	osteomyelitis of the jaws, principles of rehabilitation	
	of children.	
	Торіс 2.5.	LW

	Odontogenic inflammatory cysts in children. Possible	
	complications, their prevention.	<b>*</b> ***
Section 3	<b>Topic 3.1.</b>	LW
	Inflammatory diseases of the salivary glands in	
salivary glands in	children.	
children.	Clinic, diagnosis and treatment.	
	Торіс 3.2.	LW
	Salivary disease. Etiology, pathogenesis, clinical	
	picture, diagnosis, treatment, possible complications.	
	Торіс 3.3.	LW
	Retention cysts of small and large salivary glands.	
	Etiology, pathogenesis, clinical picture, diagnosis,	
	treatment, possible complications.	
Section 4	<b>Topic 4.1.</b>	LW
Trauma of the	Dental injuries in children: clinic, treatment, methods	
maxillofacial region	of immobilization, outcomes.	
in children.	Торіс 4.2.	LW
	Bruises and fractures of the bones of the face in	
	children. Clinic, diagnostics. Methods of conservative	
	and surgical treatment of fractures in children, healing	
	time, possible complications and methods for their	
	prevention.	
	<b>Topic 4.3.</b>	LW
	Injuries of soft tissues of the mouth and face in	
	children. Features of primary surgical treatment of	
	facial wounds.	
	Торіс 4.4.	LW
	Burns and frostbite. Clinical picture, treatment,	
	complications. General indications for plastic surgery	
	in childhood. Principles of rehabilitation of children	
	who have suffered trauma to the maxillofacial region.	
Section 5	Topic 5.1.	LW
Diseases of the	Primary bone diseases of the temporomandibular joint.	2
temporomandibular	Osteoarthritis, secondary deforming osteoarthrosis,	
joint in children.	bone ankylosis, neoarthrosis : etiology, pathogenesis,	
joint in children.	clinical picture. Diagnosis, principles of complex	
	treatment of diseases of the temporomandibular joint	
	in children. Methods of surgical treatment, age	
	indications. Goals and objectives of orthodontic	
	treatment. Methods for preventing the development of	
	primary bone diseases.	
	Topic 5.2.	LW
	-	11 V V
	Functional diseases of the temporomandibular joint in childhood and adolescence. Etiology pathogenesis	
	childhood and adolescence. Etiology, pathogenesis, clinical manifestations. Additional examination	
	methods (electromyography, axiography, tomography of the TMI) Diagnosis tractment provention	
	of the TMJ). Diagnosis, treatment, prevention.	

Section 6	Tonia 6 1	LW
	Topic 6.1.	
Congenital and	Congenital cysts and fistulas of the maxillofacial	
hereditary diseases	region and neck. Dermoid and epidermoid cysts.	<b>T XX</b> 7
of the maxillofacial	<b>Topic 6.2.</b>	LW
region in children.	Congenital cleft lip and palate. Prevalence,	
	classification, anatomical and functional disorders,	
	impact on the overall development of the child's body.	
	Secondary deformations of the jaws with cleft palate.	
	Age indications for surgical treatment, the purpose of	
	operations. Clinical examination of children with	
	congenital cleft lip and palate.	
	Торіс 6.3.	LW
	Congenital pathology of the oral mucosa: anomalies of	
	attachment of the frenulum and tongue, small vestibule	
	of the oral cavity. Clinical picture, indications for	
	surgical treatment, methods of operations, features of	
	the postoperative period.	
Section 7	Торіс 7.1.	LW
Tumors and tumor-	Benign and malignant tumors of the soft tissues of the	
like processes of	face and oral cavity in children. Classification, clinical	
the maxillofacial	picture, diagnosis, differential diagnosis. Tumors and	
region in children.	tumor-like processes of the salivary glands in children.	
	Benign and malignant tumors of the bones of the face	LW
	in children. Odontogenic formations - cysts,	
	odontogenic tumors of the jaws. Etiology, clinical	
	picture, diagnosis.	
	<b>Topic 7.2.</b>	LW
	Features of the clinical course of tumors and tumor-	
	like formations in children. Tactics of surgical	
	treatment of neoplasms of the maxillofacial region in	
	children, indications and contraindications for the use	
	of radiation therapy, principles of complex	
	rehabilitation of children.	
	The principle of oncological alertness at an outpatient	
	dental appointment.	
<u> </u>	nly for <b>full</b> time training: IC - lectures: IW - lab work: S - seminars	

\* - to be filled in only for **<u>full</u>**-time training: *LC* - *lectures; LW* - *lab work; S* - *seminars.* 

# 6. 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	Technical means: multimedia projector, laptop, WiFi available Internet access.

 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)
	means of multimedia presentations. (classrooms 245, 249)	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.	Visual aids, dental equipment and surgical instruments for extractions, phantoms, drugs, extracted teeth, x-rays, computer presentation, computers, projector, tables, dental equipment and surgical instruments for emergency care
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.	

\* The premises for students' self-studies are subject to MANDATORY mention

# 7. RESOURCES RECOMMENDED FOR COURSE STUDY

## Main readings:

- Dentistry of children's age: textbook: at 3 o'clock / O.Z.Topolnitsky (et al.). - M.: GEOTAR - Media, 2016. - Part 2. Surgery. - 259 p.: silt

- Dentistry for children. Surgery. / Ed. S.V. Dyakova. - M .: JSC "Publishing house" Medicine ". - 2009.- 384 s.: il

## Additional literature:

## Electronic full-text materials:

- Pediatric Dentistry [<u>http://www.studmedlib.ru/cgi-bin/mb4x?usr\_data=access(rudn,L6IRTLB2S9Z9LV94-X0D5,ISBN9785970435533,5,]</u>: Textbook in 3 parts. Part 2: Surgery. - M. : GEOTAR-Media, 2016. - 320 pp. - ISBN 978-5-9704-3553-3.

- Atlas of pediatric surgical dentistry and maxillofacial surgery [ http://www.studmedlib.ru/ru/book/ISBN9785970418260.html?SSr=060134178c0127370 e8a5582880c283000209b0 ] 2011 Topolnitsky O.Z., Vasiliev A.Yu. Publisher: GEOTAR-Media 264 pp. ISBN: 978-5-9704-1826-0

Children's maxillofacial surgery. Guide to practical exercises [http://www.studmedlib.ru/ru/book/ISBN9785970433539.html?SSr=060134178c012737 0e8a5582880c283000209b0] / ed. O.Z. Topolnitsky , A.P. Gurgenadze - M. : GEOTAR-978-5-9704-3353-9 -Media, 2015. 168 p. -ISBN Access mode: http://www.studmedlib.ru/book/ISBN9785970433539.html

## Printed publications:

- Children's maxillofacial surgery. Collection of test tasks. Textbook / edited by O.O. Yanushevich , O.Z. Topolnitsky , A.P. Gurgenadze . -Moscow: GEOTAR-Media, 2020 -144 p.

- Children's maxillofacial surgery. Clinical situational tasks. Textbook / edited by O.Z. Topolnitsky , A.P. Gurgenadze . -Moscow: GEOTAR-Media, 2020 -288 s and il

- Children's maxillofacial surgery. A guide to practical exercises .. Textbook / edited by O.Z. Topolnitsky , A.P. Gurgenadze . - 2nd ed. - Moscow: GEOTAR-Media, 2020. - 168 s and il

- Congenital malformations of the maxillofacial region in children. Textbook / edited by O.Z. Topolnitsky , A.P. Gurgenadze . -Moscow: GEOTAR-Media, 2020 -160 s and il

- Diseases of the temporomandibular joint in children and adolescents [Electronic resource ]: Textbook / S.A. Ulyanov, O.V. Loginopulo , M.A. Pershina. - Electronic text data. - M. : Publishing House of RUDN University, 2017. - 62 p. : ill. - ISBN 978-5-209-08406-8.

- Dental trauma in children [Electronic resource ]: Educational and methodological manual / Comp.: T.F. Kosyreva , V.V. Safroshkina , O.M. Davidyan , E.S. Zaporizhskaya- Abramova. - Electronic text data. - M. : Publishing House of RUDN University, 2014. - 40 p. - ISBN 978-5-209-05964-6.

- Pharmacotherapy in pediatric dentistry [text] / E.V. Zoryan // Clinical Dentistry. - 2012. - No. 2. - S. 6 - 10.

- Drugs in pediatric dentistry: textbook /. - Minsk: The highest 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).

- General anesthesia and sedation in pediatric dentistry [Electronic resource ]: A guide. - M. : GEOTAR-Media, 2007. - 184 p. - ISBN 978-5-9704-0505-5.

- Inflammatory diseases, injuries and tumors of the maxillofacial region in children: textbook / comp. S.B. Fishchev , A.G. Klimov, I.V. Berezkina, A.V. Sevastyanov. - St. Petersburg: SpetsLit , 2015. - 57 p. : tab. - Bibliography . in book. - ISBN 978-5-299-00618-6; The same [Electronic resource]. - URL: http://biblioclub.ru/index.php?page=book&id=483651 (04/08/2019).

- Pediatric surgical dentistry / A.K. Korsak, A.N. Kushner, T.N. Terekhova, Yu.V. Zenkevich ; ed. A.K. Korsak. - Minsk: The highest school, 2013. - 528 p. - ISBN 978-985-06-2334-8 ; The same [Electronic resource]. - URL: http://biblioclub.ru/index.php?page=book&id=235677 (04/08/2019).

- Dentistry of children's age: Textbook / Persin L.S. Elizarova V.M., Dyakova S.V. - 5th ed., Rev. and additional - M.: Medicine, 2011. - 639s.

- Congenital cleft lip and palate / S.V. Chuikin , L.S. Persin , N.A. Davletshin . - M .: MIA, 2008. -368 .: ill.

- Bone grafting of the alveolar process: a teaching aid / M.A. Pershina , S.A. Ulyanov . - M.: RUDN, 2012. - 20p.

- Local anesthesia in dentistry: textbook. allowance / Ed. E.A. Bazikyan . - M.: GEOTAR - Media, 2012. - 142 p .: tsv.il.

- 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 University, 2012. -24p.

- Emergency conditions in the practice of a dentist. - teaching aid / A.V. Lopatin . - Moscow: RUDN.2014. - 31s.

- Anesthesia in dentistry: Educational manual / S.A. Rabinovich, E.N. Anisimova, L.A. Aksamit. - M.: MGMSU, 2014. - 128 p .: tsv.il.

- Odontogenic inflammatory diseases: a guide / T.G. Robustova [i dr.]; ed. T.G. Robustova. - M.: Medicine, 2006. - 664 p.: ill.

- Odontogenic cysts of the jaws: textbook. Allowance / S.A. Asnina . -M.: Practical medicine, 2012. - 68 p .: tsv.il.

- The state of the dentoalveolar system in patients with congenital complete cleft lip and palate before prosthetics and recommendations for treatment. - Met. Recommendations / T.F. Kosyreva, N.S. Tuturov. - M.: RUDN University, 2012. - 47p.

- Handbook of a dentist. V.V.Trezubov, I.V.Marusov et al . on medicinal products. - S.-P. "Foliant", 2002. -398s.

- Functional - distension diseases of the temporomandibular joint in children and adolescents.: teaching aid / S.A. Ulyanov , M.A. Pershina . - M.: RUDN, 2012.-23s.

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/

- ELS "University Library Online" <u>http://www.biblioclub.ru</u>

- EBS Yurayt http://www.biblio-online.ru

- ELS "Student Consultant" www.studentlibrary.ru

- EBS "Lan" http://e.lanbook.com/

- EBS "Trinity Bridge"

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <a href="http://docs.cntd.ru/">http://docs.cntd.ru/</a>

- Yandex search engine https://www.yandex.ru/

- Google search engine https://www.google.ru/

- abstract database SCOPU S

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

Training toolkit for self- studies to master the course \*:

1. The set of lectures on the course "Pediatric Maxillofacial Surgery"

2. The laboratory workshop (if any).on the course "Pediatric Maxillofacial Surgery"

3. The guidelines for writing a course paper / project (if any) on the course "Pediatric Maxillofacial Surgery".

4. ....

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

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

The assessment toolkit and the grading system<sup>\*</sup> to evaluate the competences formation level (GC-1; GPC-5; GPC-6; PC-1; PC-2; PC-6) upon the course study completion are specified in the Appendix to the course syllabus.

\* 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	O.V. Loginopulo				
Dentistry and Orthodontics					
Position, educational department	Signature	name and surname.			
HEAD OF EDUCATIONAL DE	<b>EPARTMENT:</b>				
Department of Pediatric	N.S. Tuturov				
Dentistry and Orthodontics		11.5. Tutulov			
educational department	Signature	name and surname.			
HEAD OF HIGHER EDUCATION PROGRAMME:					
Head department, professor Of the Department of propaedeutics of dental diseases		S.N. Razumova			
Position, educational department Signature		name and surname.			

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