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**RUDN University Institute of Medicine** 

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

#### **COURSE SYLLABUS**

#### **Pediatric Maxillofacial 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 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 the development of the following competences /competences in part: GC-1; GPC-5; GPC-6; PC-1; PC-2; PC-6.

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

| Competence | Competence descriptor  | Competence formation indicators  |
|------------|--|--|
| code       | Competence descriptor  | (within this course)   |
| GC-1.      | Being able to implement<br>critical analysis of<br>problem situations based<br>on systems approach,<br>develop an action strategy. | GC-1.1. Analysing the problem situation as a system identifying its components and links between them.   |
| GPC-5      | Being able to examine patients to determine a diagnosis when solving professional tasks  | GPC-5.1. Gathering anamnesis by analysing the patient's complaints, making a physical examination at a dental appointment.  GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.  GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.  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. |
| GPC-6      | Being able to prescribe<br>non-drug and drug<br>treatment, monitor its<br>efficacy and safety when<br>solving professional tasks   | GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture 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 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.   |
| PC- 1      | Being able to make an examination of a patient in order to determine a diagnosis.  | PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary 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,   |

| Competence code | <b>Competence descriptor</b>   | Competence formation indicators (within this course)  |
|-----------------|--|---|
| PC-2            | Being able to prescribe,<br>monitor the efficacy and<br>safety of non-drug and<br>drug treatment   | 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-1.4. Detecting if patients have risk factors for oncopathology (including various background processes, precancerous conditions) based on 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-2.6 Providing orthopaedic treatment for persons with defects in teeth, dentition within the temporization procedure, rehabilitation of single defects in the dentition, dental prostheses of up to three units (excluding dental implants prosthetics), partial and complete removable laminar denture using modern treatment methods approved for use in medical practice. |
| PC-6            | Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health | PC-6.1. Searching for medical information based on evidence-based medicine, interpreting data from scientific publications and/or preparing a presentation to make medical information, the results of scientific research public.  |

# 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

| Competence | Competence   | Previous   | Subsequent       |
|------------|--|--|------------------|
| code       | descriptor   | courses/modules*   | courses/modules* |
| UC-1       | Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy | Dental Assistant (therapist); Dental Assistant (orthopedist); Human Anatomy - Head and Neck Anatomy; Pediatric dentistry; Dental prosthetics (simple prosthetics); |                  |

|       | 1  | T 1 1· · ·   |  |
|-------|--|--|--|
|       |  | Immunology; Clinical immunology; Mathematics; Medical genetics in dentistry; Orthodontics and Pediatric prosthetics; Otorhinolaryngology; Dental prosthetics (complex prosthetics); Prosthetics with complete lack of teeth; Psychology, pedagogy; Physics; Philosophy; Obstetrics; Pathophysiology - Pathophysiology of the head and neck; Chemistry of biogenic elements**; Medical rehabilitation; Dental teeth modeling**; History of Medicine; Bioelements in medicine**; Medical elementology**; |  |
| GPC-5 | Able to conduct a patient examination in order to establish a diagnosis in solving professional problems | Dental Assistant (orthopedist); Head and neck diseases; Dental prosthetics (simple prosthetics); Cariesology and diseases hard tissues of teeth; Medical genetics in dentistry; Local anesthesia and anesthesiology in dentistry; General surgery; Orthodontics and Pediatric prosthetics; Dental prosthetics (complex prosthetics); Prosthetics with complete lack of teeth; Surgical diseases; Oral surgery; Maxillofacial and gnathic surgery; Internal illnesses; Gerontostomatology and           |  |

| F     |                       |                                   |          |
|-------|-----------------------|-----------------------------------|----------|
|       |                       | diseases of the mucous            |          |
|       |                       | membrane                          |          |
|       |                       | oral cavity;                      |          |
|       |                       | Neurology;                        |          |
|       |                       | Periodontology;                   |          |
|       |                       | Psychiatry and Narcology;         |          |
|       |                       | Endodontics;                      |          |
|       |                       | Dermatovenerology;                |          |
|       |                       | Pediatric dentistry;              |          |
|       |                       | Dental propaedeutics              |          |
|       |                       | diseases;<br>Ophthalmology;       |          |
|       |                       | Emergency conditions in           |          |
|       |                       | outpatient dental                 |          |
|       |                       | practice;                         |          |
|       |                       | Pathological anatomy -            |          |
|       |                       | Pathanatomy of the head           |          |
|       |                       | and neck;                         |          |
|       |                       | Obstetrics;                       |          |
|       |                       | Pediatrics;                       |          |
|       |                       | Dermatovenerology;                | $\dashv$ |
|       |                       | Pediatric dentistry;              |          |
|       |                       | Head and neck diseases;           |          |
|       |                       | Dental prosthetics (simple        |          |
|       |                       | prosthetics);                     |          |
|       |                       | Immunology, clinical              |          |
|       |                       | immunology;                       |          |
|       |                       | Cariesology and diseases          |          |
|       |                       | hard tissues of teeth;            |          |
|       |                       | Clinical dentistry;               |          |
|       |                       | Medical genetics in               |          |
|       |                       | dentistry;                        |          |
|       | Able to prescribe,    | General surgery;                  |          |
|       | monitor the           | Orthodontics and Pediatric        |          |
|       | effectiveness and     | prosthetics;                      |          |
| GPC-6 | safety of non-drug    | Dental prosthetics                |          |
|       | and drug treatment in | (complex prosthetics);            |          |
|       | solving professional  | Prosthetics with complete         |          |
|       | problems              | lack of teeth;                    |          |
|       | *                     | Surgical diseases;                |          |
|       |                       | Oral surgery;                     |          |
|       |                       | Maxillofacial and gnathic         |          |
|       |                       | surgery; Fundamentals of military |          |
|       |                       | training.                         |          |
|       |                       | Life safety;                      |          |
|       |                       | Internal illnesses;               |          |
|       |                       | Gerontostomatology and            |          |
|       |                       | diseases of the mucous            |          |
|       |                       | membrane                          |          |
|       |                       | oral cavity;                      |          |
|       |                       | Neurology;                        |          |
|       |                       | Neurology;                        |          |

|      |                         | Periodontology;              |  |
|------|-------------------------|------------------------------|--|
|      |                         | Pediatrics;                  |  |
|      |                         |                              |  |
|      |                         | Psychiatry and Narcology;    |  |
|      |                         | Endodontics;                 |  |
|      |                         | Medical rehabilitation;      |  |
|      |                         | Pharmacology;                |  |
|      |                         | Materials Science;           |  |
|      |                         | Obstetrics;                  |  |
|      |                         | Emergency conditions in      |  |
|      |                         | outpatient dental            |  |
|      |                         | practice;                    |  |
|      |                         | Dental Assistant             |  |
|      |                         | (therapist);                 |  |
|      |                         | Dental Assistant             |  |
|      |                         | (surgeon);                   |  |
|      |                         | Dental assistant (Assistant  |  |
|      |                         | to the pediatric dentist);   |  |
|      |                         | Dental Assistant             |  |
|      |                         | (orthopedist);               |  |
|      |                         | Dental Assistant             |  |
|      |                         | (hygienist);                 |  |
|      |                         | Orthodontics and Pediatric   |  |
|      |                         | prosthetics;                 |  |
|      |                         | Pathological anatomy -       |  |
|      |                         | Pathanatomy of the head      |  |
|      |                         | and neck;                    |  |
|      |                         | Dental prosthetics           |  |
|      |                         | (complex prosthetics);       |  |
|      |                         | Prosthetics with complete    |  |
|      |                         | lack of teeth;               |  |
|      | Capable of examining    | Fundamentals of military     |  |
| PC-1 | the patient in order to | training.                    |  |
|      | establish a diagnosis   | Life safety;                 |  |
|      |                         | Radiation diagnostics;       |  |
|      |                         | Medical rehabilitation;      |  |
|      |                         | Cone beam computer           |  |
|      |                         | tomography in diagnostics,   |  |
|      |                         | planning and evaluation      |  |
|      |                         | effectiveness                |  |
|      |                         | dental solution;             |  |
|      |                         | Pediatric dentistry;         |  |
|      |                         | Immunology, clinical         |  |
|      |                         | immunology;                  |  |
|      |                         | Head and neck diseases;      |  |
|      |                         | Dental prosthetics (simple   |  |
|      |                         | prosthetics);                |  |
|      |                         | Cariesology and diseases     |  |
|      |                         | hard tissues of teeth;       |  |
|      |                         | Medical genetics in          |  |
|      |                         | dentistry;                   |  |
|      |                         | Local anesthesia and         |  |
|      |                         | anesthesiology in dentistry; |  |
|      |                         | anconicology in utilishly,   |  |

|                | Γ.               | 0, 1, 1  |   |
|----------------|------------------|--|---|
|                |                  | Otorhinolaryngology;   |   |
|                | II               | Dental propaedeutics   |   |
|                |                  | diseases;  |   |
|                | II               | Oral surgery;  |   |
|                |                  | Maxillofacial and gnathic  |   |
|                | II               | surgery;   |   |
|                |                  | Obstetrics;  |   |
|                | II               | Gerontostomatology and   |   |
|                |                  | diseases of the mucous   |   |
|                |                  | membrane   |   |
|                | II               | oral cavity;   |   |
|                |                  | Periodontology;  |   |
|                |                  | Endodontics;   |   |
|                |                  | Three-dimensional x-ray  |   |
|                |                  | diagnostic methods in  |   |
|                | II               | dentistry**;   |   |
|                |                  | Three-dimensional  |   |
|                |                  | computer   |   |
|                | II               | teeth modeling**;  |   |
|                |                  | Chemistry of biogenic  |   |
|                |                  | elements**;  |   |
|                |                  | Ophthalmology;   |   |
|                |                  | Dental   |   |
|                |                  | teeth modeling**;  |   |
|                |                  | Pathophysiology -  |   |
|                | II               | Pathophysiology of the   |   |
|                |                  | head and neck;   |   |
|                | II               | Pediatric dentistry;<br>Head and neck diseases;  |   |
|                | II               | Cariesology and diseases   |   |
|                |                  | hard tissues of teeth;   |   |
|                |                  | Local anesthesia and   |   |
|                |                  | anesthesiology in dentistry;   |   |
|                |                  | Orthodontics and Pediatric   |   |
|                |                  | prosthetics;   |   |
|                | 1 =              | Oral surgery;  |   |
| Comple         | l 1              | Maxillofacial and gnathic  |   |
| Capab          | ) ic 01          | surgery;   |   |
| prescr         | ionig,           | Gerontostomatology and   |   |
| <b>P</b> ( ' ) | oring the        | diseases of the mucous   |   |
|                | cy and safety of | membrane   |   |
|                | rug and drug     | oral cavity;   |   |
| treatm         | ante             | Periodontology;  |   |
|                |                  | Endodontics;   |   |
|                |                  | Innovative technologies in   |   |
|                | II               | dentistry;   |   |
|                |                  | Dental physiotherapy   |   |
|                |                  | diseases;  |   |
|                |                  | Clinical dentistry;  |   |
|                |                  | Bioelements in   |   |
|                | 1                | medicine**;  |   |
|                |                  | The state of the s | 1 |

|      | 1                       | Τ                          | <u> </u> |
|------|-------------------------|----------------------------|----------|
|      |                         | Dental propaedeutics       |          |
|      |                         | diseases;                  |          |
|      |                         | Dental prosthetics (simple |          |
|      |                         | prosthetics);              |          |
|      |                         | Medical genetics in        |          |
|      |                         | dentistry;                 |          |
|      |                         | Dental prosthetics         |          |
|      |                         | (complex prosthetics);     |          |
|      |                         | Prosthetics with complete  |          |
|      |                         | lack of teeth;             |          |
|      |                         | Infectious diseases        |          |
|      |                         | phthisiology;              |          |
|      |                         | Organization of general    |          |
|      |                         | care                       |          |
|      |                         | sick;                      |          |
|      |                         | Dental Assistant           |          |
|      |                         | (surgeon);                 |          |
|      |                         | Dental Assistant           |          |
|      |                         | (therapist);               |          |
|      |                         | Dental Assistant           |          |
|      |                         | (Pediatric);               |          |
|      |                         | Dental prosthetics (simple |          |
|      | Able to analyze and     | prosthetics);              |          |
|      | publicly present        | Immunology, clinical       |          |
|      | medical information     | immunology;                |          |
|      | based on evidence-      | Medical genetics in        |          |
|      | based medicine, to      | dentistry;                 |          |
| DC 6 | participate in          | Dental prosthetics         |          |
| PC-6 | scientific research, to | (complex prosthetics);     |          |
|      | introduce new           | Prosthetics with complete  |          |
|      | methods and             | lack of teeth;             |          |
|      | techniques aimed at     | Pharmacology;              |          |
|      | protecting public       | Ophthalmology;             |          |
|      | health                  | Clinical researches;       |          |
|      |                         | Clinical dentistry;        |          |

<sup>\*</sup> 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 "Pediatric maxillofacial surgery" 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 (A)                     |  |  |
| Contact academic hours      | 68             | 68                         |  |  |
| including:                  |                |                            |  |  |
| Lectures (LC)               | -              | -                          |  |  |
| Lab work (LW)               | 68             | 68                         |  |  |

| Type of academic activities                            |          | Total<br>academic | Semesters/training modules |  |  | 5 |
|--|----------|-------------------|----------------------------|--|--|---|
|  |          | hours             | 10 (A)                     |  |  |   |
| Seminars (workshops/tutorials) (S)                     |          | -                 | -                          |  |  |   |
| Self-studies   |          | 31                | 31                         |  |  |   |
| Evaluation and assessment (exam/passing/failing grade) |          | 9                 | 9                          |  |  |   |
| Course workload ac.h.                                  |          | 108               | 108                        |  |  |   |
|  | credits. | 3                 | 3                          |  |  |   |

<sup>\*</sup> 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 Anesthesia in pediatric surgical dental practice. Tooth extraction in children | <b>Topic 1.1.</b> Anatomical and physiological features of the child's body. Indications and contraindications for general and local anesthesia during outpatient dental surgery in children. The value of premedication. Types of local anesthesia, features of its implementation in children. Emergency conditions at an outpatient dental appointment. | LW                        |
|  | <b>Topic 1.2.</b> Indications and features of the extraction of temporary and permanent teeth in children. Complications during and after tooth extraction, their prevention and elimination.  | LW                        |
|  | <b>Topic 1.3.</b> Tactics of a dentist in the presence of supernumerary, impacted and dystopic teeth in children.  | LW                        |
| Section 2 Inflammatory diseases of the maxillofacial region                              | <b>Topic 2.1.</b> Features of the course of odontogenic inflammatory processes in childhood. Inflammatory processes of the soft tissues of the face: lymphadenitis, abscess, phlegmon.   | LW                        |
| in children.   | Topic 2.2. Clinical picture of acute and chronic periostitis of the jaw bones in children of different ages.   | LW                        |
|  | <b>Topic 2.3.</b> Acute odontogenic osteomyelitis of the jaws, hematogenous osteomyelitis of newborns and young children.  | LW                        |
|  | <b>Topic 2.4.</b> Clinical and radiological forms of chronic osteomyelitis of the jaws, principles of rehabilitation of children.  | LW                        |
|  | <b>Topic 2.5.</b> Odontogenic inflammatory cysts in children. Possible complications, their prevention.  | LW                        |
| Section 3 Diseases of the salivary glands in   | <b>Topic 3.1.</b> Inflammatory diseases of the salivary glands in children. Clinic, diagnosis and treatment.   | LW                        |
| children.  | <b>Topic 3.2.</b> Salivary disease. Etiology, pathogenesis, clinical picture, diagnosis, treatment, possible complications.  | LW                        |

|  | <b>Topic 3.3.</b> Retention cysts of small and large salivary glands. Etiology,  | LW |
|--|--|----|
|  | pathogenesis, clinical picture, diagnosis, treatment, possible complications.  |    |
| Section 4 Trauma of the maxillofacial region                   | <b>Topic 4.1.</b> Dental injuries in children: clinic, treatment, methods of immobilization, outcomes.   | LW |
| in children.   | Topic 4.2. 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.  | LW |
|  | Topic 4.3. Injuries of soft tissues of the mouth and face in children. Features of primary surgical treatment of facial wounds.  | LW |
|  | Topic 4.4.  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.  | LW |
| Section 5 Diseases of the temporomandibular joint in children. | Topic 5.1.  Primary bone diseases of the temporomandibular joint. Osteoarthritis, secondary deforming osteoarthrosis, bone ankylosis, neoarthrosis: etiology, pathogenesis, 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. | LW |
|  | Topic 5.2. Functional diseases of the temporomandibular joint in childhood and adolescence. Etiology, pathogenesis, clinical manifestations. Additional examination methods (electromyography, axiography, tomography of the TMJ). Diagnosis, treatment, prevention.   | LW |
| Section 6 Congenital and hereditary diseases                   | Topic 6.1. Congenital cysts and fistulas of the maxillofacial region and neck. Dermoid and epidermoid cysts.   | LW |
| of the maxillofacial region in children.                       | Topic 6.2. 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.  | LW |
|  | Topic 6.3. 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   | LW |

|                       | postoperative period.  |    |
|-----------------------|--|----|
| Section 7             | <b>Topic 7.1.</b>  | LW |
| Tumors and tumor-     | Benign and malignant tumors of the soft tissues of the face    |    |
| like processes of the | and oral cavity in children. Classification, clinical picture, |    |
| maxillofacial region  | diagnosis, differential diagnosis. Tumors and tumor-like       |    |
| in children.          | processes of the salivary glands in children.                  |    |
|                       | Benign and malignant tumors of the bones of the face in        | LW |
|                       | children. Odontogenic formations - cysts, odontogenic          |    |
|                       | tumors of the jaws. Etiology, clinical picture, diagnosis.     |    |
|                       | Topic 7.2.   | 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 |    |
| * 1 C11 1             | appointment.   |    |

<sup>\* -</sup> 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

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. (Classrooms 245, 249)  | Technical means: multimedia projector, laptop, Interactive complex Lumien 86" LMP8604MLRU, WiFi available Internet access.  Software: Microsoft products (OS, office suite, including MS Office / Office 365)  |
| 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<br>and surgical instruments for<br>extractions, phantoms, drugs,<br>extracted teeth, x-rays, computer<br>presentation, computers,<br>projector, tables, dental<br>equipment and surgical<br>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. |  |

#### 7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

- Pediatric oral and maxillofacial surgery: Publisher: Saunders; 1st edition (April 9, 2004) Language: English. Hardcover: 488 pages. ISBN 978-0-7216-9691-1
- Kutcipal, E. (2013). Pediatric oral and maxillofacial surgery. *Dental Clinics*, 57(1), 83-98.
- Koch G. et al. (ed.). Pediatric dentistry: a clinical approach. John Wiley & Sons, 2017. *Additional readings:*
- Gonçalves, J., Marques, H., Saleiro, R., Ferreira, Â., Ferreira, A., Ferreira, Â. T., & Ferreira Sr, A. (2023). Ewing's sarcoma of the zygoma: a very rare location. *Cureus*, 15(3).
- Railean, S., Gudumac, E., Bernic, J., Poştaru, C., & Ursu, D. (2023). Pediatric Tumors And Congenital Anomalies In Oral & Maxillo-Facial Surgery.
- Bouchard, C., Troulis, M. J., & Kaban, L. B. (2022). Pediatric Dentoalveolar Surgery. In *Peterson's Principles of Oral and Maxillofacial Surgery*(pp. 191-210). Cham: Springer International Publishing.
- Kaban, L. B., Bouchard, C., & Troulis, M. J. (2009). A protocol for management of temporomandibular joint ankylosis in children. *Journal of Oral and Maxillofacial Surgery*, 67(9), 1966-1978.
- Troulis, M. J., Troulis, M., & Kaban, L. B. (2013). *Minimally invasive maxillofacial surgery*. PMPH-USA.

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 <a href="http://lib.rudn.ru/">http://lib.rudn.ru/</a>
  - ELS "University Library Online" <a href="http://www.biblioclub.ru">http://www.biblioclub.ru</a>
  - EBS Yurayt <a href="http://www.biblio-online.ru">http://www.biblio-online.ru</a>
  - ELS "Student Consultant" www.studentlibrary.ru
  - EBS "Lan" <a href="http://e.lanbook.com/">http://e.lanbook.com/</a>
  - 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 <a href="https://www.yandex.ru/">https://www.yandex.ru/</a>
  - Google search engine <a href="https://www.google.ru/">https://www.google.ru/</a>
  - Abstract database SCOPUS

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

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

- 1. A course of lectures, presentations, video materials on the discipline "Pediatric maxillofacial surgery".
- 2. Guidelines for the implementation and execution of control and independent work on the discipline "**Pediatric maxillofacial surgery**"
- \* 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).

#### 8. 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 Oral and Maxillofacial Surgery" 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 EVALUATIONOF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

Evaluation materials and point-rating system\* for assessing the level of competence formation (GC-1; GPC-5; GPC-6; PC-1; PC-2; PC-6) based on the results of mastering the discipline «Pediatric Oral and Maxillofacial Surgery» 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 relevantlocal normative act of RUDN University (regulations / order).

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