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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University**

Institute of Medicine

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

COURSE SYLLABUS

Oral 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:

Dentistry

higher education programme profile/specialisation title

2024

1. COURSE GOAL(s)

The goal of the course «Oral Surgery» is to prepare a student capable of assisting surgical patients with odontogenic inflammatory diseases of the oral cavity.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «Oral Surgery» is aimed at the development of the following competences /competences in part: **GPC-2, GPC-5, GPC-6, GPC-9, PC-1, PC-2, PC-3, 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) |
|-----------------|---|---|
| GPC-2 | Able to analyze the results of his/her own activities to prevent professional errors | GPC -2.1. Analyze the causes of professional errors, adverse treatment outcomes and conflict situations. The following is a summary of the results of the research and implementation of recommendations aimed at improving the medical and legal training of dentists and the prevention of professional errors, adverse outcomes and conflict situations. |
| GPC -5 | Able to exam a patient in order to establish a diagnosis when dealing with professional tasks | GPC -5.1 Gather anamnesis, analyze patient complaints, conduct physical examination at dental appointments. Formulate a preliminary diagnosis and make a plan for laboratory and instrumental examinations of the dental patient. |
| GPC -6. | Able to prescribe, monitor the effectiveness and safety of non-medicinal and medication-assisted treatment for professional tasks | GPC -6.1. Develops a treatment plan for dental disease taking into account the diagnosis, age and clinical picture in accordance with the current procedures of medical care, clinical guidelines (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) to make a comprehensive treatment plan for dental diseases. Supervises the further course of treatment of the patient. |
| GPC-9. | Able to assess morpho-functional conditions and pathological processes in the human body to solve professional problems | GPC-9.1. Have an algorithm of clinical-laboratory and functional diagnostics when solving professional tasks. Assess the results of clinical-laboratory and functional diagnostics when solving professional tasks. |

| | | |
|------|---|--|
| PC-1 | Able to diagnose children and adults with dental diseases, establish a diagnosis | PC-1.1. Conducts initial and/or follow-up examinations of a patient to establish a preliminary diagnosis. |
| | | PC-1.2. Receives information from patients (their relatives/legal representatives), conducts patient questionnaires on general health status, identification of comorbidities in order to establish a preliminary diagnosis. |
| PC-2 | Able to prescribe and administer treatment for children and adults with dental diseases, monitor its effectiveness and safety | PC-2.1. Organizes medical care in emergency and urgent forms for acute dental diseases, conditions, exacerbation of chronic diseases that are life-threatening to the patient or without clear signs of life-threatening to the patient. |
| | | PC-2.2. selects medications and medical devices (including dental materials) for the treatment of dental diseases, evaluating the possible side effects of taking medications. |
| PC-3 | Able to provide medical care in an emergency and urgent form | PC-3.1 Provides qualified medical care in their specialty using modern rehabilitation methods approved for use in medical practice. |
| | | PC-3.2 Make an individual rehabilitation plan for a patient with maxillofacial diseases. |
| PC-5 | Able to conduct medical examinations of children and adults with dental diseases | PC-5.1. Motivates patients (their relatives/legal representatives) to lead a healthy lifestyle and give up harmful habits. |
| | | PC-5.2. develops positive behavior in patients (their relatives/legal representatives) aimed at preserving and improving health. |

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* |
|-----------------|-----------------------|---------------------------|-----------------------------|
|-----------------|-----------------------|---------------------------|-----------------------------|

| | | | |
|--------|--|--|---|
| GPC-2. | Able to analyze the results of his/her own activities to prevent professional errors | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
|--------|--|--|---|

| | | | |
|---------|---|--|---|
| GPC -5. | Able to exam a patient in order to establish a diagnosis when dealing with professional tasks | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
| GPC -6. | Able to prescribe, monitor the effectiveness and safety of non-medicinal and medication-assisted treatment for professional tasks | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
| PC-9. | Is able to assess morpho-functional conditions and pathological processes in the human body to solve professional problems | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
| PC-1. | Able to diagnose children and adults with dental diseases, establish a diagnosis | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
| PC-2. | Able to prescribe and administer treatment for children and adults with dental diseases, monitor its effectiveness and safety | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
| PC-3. | Able to provide medical care in an emergency and urgent form | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |

| | | | |
|-------|--|--|---|
| PC-5. | Able to conduct medical examinations of children and adults with dental diseases | Local anesthesia and anesthesiology in dentistry, Propaedeutics of dental diseases, Normal anatomy, Cariesology, Endodontics | Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases Internship: internship assistant of oral surgeon |
|-------|--|--|---|

* 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 **5** credit units (216 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 | |
|---|----------------------|----------------------------|------------|
| | | 6 | 7 |
| <i>Contact academic hours</i> | 109 | 51 | 64 |
| including: | - | - | - |
| Lectures (LC) | 16 | | 16 |
| Lab work (LW) | 93 | 51 | 48 |
| Seminars (workshops/tutorials) (S) | | | |
| <i>Self-studies</i> | 26 | 18 | 35 |
| <i>Evaluation and assessment (exam/passing/failing grade)</i> | 9 | 3 | 9 |
| Course workload | | | |
| academic hours | 180 | 72 | 108 |
| credits | 5 | 2 | 3 |

* 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 |
|----------------------------------|---|---------------------------|
| Module 1 Periodontitis | 1.1 Etiology, pathogenesis and classification of odontogenic inflammatory diseases of the maxillofacial region | LC, LW |
| | 1.2 Etiology, pathogenesis and classification of periodontitis. Acute periodontitis. Pathological anatomy, clinical picture, diagnosis, differential diagnosis, prevention. | LC, LW |

| Modules and Topics | Content of the topics | Type of academic activities |
|--|--|------------------------------------|
| | 1.3 Chronic periodontitis. Pathological anatomy, clinical picture, diagnosis, differential diagnosis, prevention. | LC, LW |
| | 1.4 Surgical treatment of chronic periodontitis. Tooth-preserving operations. Indications, contraindications, techniques, complications. | LC, LW |
| Module 2 Periostitis of the jaw | 2.1 Etiology, pathogenesis and classification. Acute periostitis. Pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention.. | LC, LW |
| | 2.2 Chronic periostitis. Pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention. | LC, LW |
| Module 3 Odontogenic osteomyelitis of the jaw | 3.1 Etiology, pathogenesis, pathological anatomy, clinical picture (Acute, subacute, chronic stages of osteomyelitis). | LC, LW |
| | 3.2 Diagnostics, differential diagnostics, treatment, prevention. | LC, LW |
| Module 4 Diseases of the lymphatic system | 4.1 Lymphatic system of the face and neck. Lymphangitis. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention. | LC, LW |
| | 4.2 Lymphadenitis. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention. | LC, LW |
| | 4.3 Adenophlegmon. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention. | LC, LW |
| Module 5 Diseases of teething | 5.1 Pericoronitis. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention. | LC, LW |
| | 5.2 Misplacement and retention teeth. Classification, clinical picture, diagnosis, removal of certain groups of teeth, complications, prevention. | LC, LW |
| Module 6 Odontogenic inflammation of the maxillary sinus | 6.1 Anatomy of the maxillary sinus. Etiology, pathogenesis, pathological anatomy. | LC, LW |
| | 6.2 Clinical picture, diagnosis, differential diagnosis, treatment, prevention. | LC, LW |

| Modules and Topics | Content of the topics | Type of academic activities |
|---|---|------------------------------------|
| Module 7 Abscesses and phlegmon located near the lower jaw | 7.1 Classification, General principles of diagnosis. Changes in the body's immunological reactivity in case of odontogenic inflammatory diseases. Abscesses and phlegmon of the submandibular and mental region. | LC, LW |
| | 7.2 Abscesses and phlegmons of the peripharyngeal, pterygo-maxillary and posterior-maxillary spaces. | LC, LW |
| | 7.3 Abscesses of the maxillary-lingual groove, sublingual region, retromolar space. Abscesses of the body and root of the tongue. | LC, LW |
| | 7.4 Phlegmon of the floor of the mouth. Putrid-necrotic phlegmon of the face and neck. | LC, LW |
| Module 8 Abscesses and phlegmon located near the upper jaw | 8.1 Abscesses and phlegmon of the infraorbital, zygomatic, buccal regions. Phlegmon of the orbit. Phlegmon of the temporal region, infratemporal and pterygopalatine fossae. | LC, LW |
| | 8.2 Abscesses and phlegmons of the parotid-masticatory and submasserial areas. General principles for the treatment of abscesses and phlegmon of the face and neck. Physiotherapy and rehabilitation of patients. | LC, LW |
| Module 9 Complications of odontogenic inflammatory diseases | 9.1 Thrombophlebitis of the facial veins. Thrombosis of the cavernous sinus. Mediastinitis. Meningitis. Sepsis. | LC, LW |

* - 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 | A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations. | |

| | | |
|----------|--|--|
| Lab work | Auditorium for laboratory work, individual consultations, current monitoring and interim certification, equipped with a set of specialized furniture and equipment. (FGSN 286, CDC classroom2) | PC, Microsoft Products (OS, office applications package), Projector. Medicaid tables. Photographs of optical patients. Videos with operational interventions. A set of radiographs and computed tomograms. Broadcasting operations from the operating room to the screen in the training room in online mode. Macro preparations, models, training phantoms. Surgical instrument sets for tooth extraction, dental implants, and various types of sutures. |
|----------|--|--|

| | | |
|--------------|---|---|
| Self studies | Auditorium for independent work of students (can be used for seminars and consultations),equipped with a set of specialized furniture and computers with access to the EIOS. (FGSN 286, CDC Auditorium 2,Main Building Lecture Hall) | Microsoft products (OS, office applications package) Medical textbook tables, PC, projector, Photos of thematic patients. Videos with surgical interventions A set of radiographs and computed tomograms. Broadcasting operations from the operatingroom to the screen in the training room in online mode. Macro preparations, models, training phantoms. Surgical instrument sets for tooth extraction, dental implant placement, splinting of teeth and jaws, cheekbone repositioning, different types of sutures. |
|--------------|---|---|

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

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Surgical Dentistry : textbook / ed. by V.V. Afanasiev. Afanasiev. - 3rd ed. revised. - M. : GEOTAR-Media, 2016. - 400 c. - ISBN 978-5-9704-3704-9.
2. Surgical Dentistry and Maxillofacial Surgery : National Guide / edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeev. - Moscow : GEOTAR-Media, 2015. - 928 c. - (National guidelines). - ISBN 978-5-9704-3727-8.

Additional readings:

1. Surgical Dentistry. Inflammatory and dystrophic diseases of salivary glands: textbook / A.M. Panin, I.V. Gaiduk, V.I. Vasiliev [et al]; edited by A.M. Panin. - 2nd ed., revised and extended ; Electronic textual data. - Moscow : Literra, 2020. - ISBN 978-5-4235-0354-3.
2. Peculiarities of treatment of odontogenic cystic neoplasms of the lower jaw by cystotomy / B.Y.Asnin, S.A. Asnina, A.Yu. Drobyshhev [et al.] // Stomatology. - 2020. - № Т. 99 (6). - С. 33 - 37.
3. Diseases of teeth and oral cavity : textbook / I.M. Makeeva, S.T. Sokhov, M.Y. Alimova [et al.] - Electronic text data. - Moscow : GEOTAR-Media, 2020. - 256 c. : ill. - ISBN 978-5-9704-5675-0.

Internet (based) sources

1. Electronic libraries with access for RUDN students:
PFUR Libraries and third-party Libraries, to which university students have access on the basis of contracts:
 - RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
 - University Library Online Libraries <http://www.biblioclub.ru> - Yurite Libraries <http://www.biblio-online.ru>

- Student's Consultant EBS www.studentlibrary.ru
 - EBS "Lan" <http://e.lanbook.com/>
2. Databases and search engines:
- electronic collection of legal and regulatory and technical documentation <http://docs.cntd.ru/>
 - SCOPUS abstract database <http://www.elsevierscience.ru/products/scopus/>
 - WHODocumentation Center <http://whodc.mednet.ru/>
 - -Surgery Digital Library <http://surgerylib.ru/>

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

1. The set of lectures on the course “Oral Surgery”
2. The laboratory workshop (if any).on the course “Oral Surgery”
3. The guidelines for writing a course paper / project (if any) on the course “Oral 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* to evaluate the competences formation level (GPC-2, GPC-5, GPC-6, GPC-9, PC-1, PC-2, PC-3, PC-5) 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 of the
Department maxillofacial
surgery
and surgical dentistry**

position, department

V.D. Trufanov

signature

name and surname

**Assistant of the
Department
maxillofacial
surgery
and surgical dentistry**

position, department

E.V. Kim

signature

name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:
maxillofacial surgery and
surgical dentistry**

name of department

S.Yu. Ivanov

signature

name and surname

**HEAD
OF HIGHER EDUCATION PROGRAMME:
Deputy Director of
Institute of Medicine
by specialty Dentistry**

S. N. Razumova

position, department

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name and surname