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ФИО: Ястребов Олег Александрович  
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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
RUDN University**

**Institute of Medicine**

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

**COURSE SYLLABUS**

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**Maxillofacial Surgery**

course title

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**Recommended by the Didactic Council for the Education Field of:**

**31.05.01 General Medicine**

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field of studies / speciality code and title

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

**General Medicine**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course “Maxillofacial Surgery” is to equip students with knowledge of for examination, diagnosis and treatment of patients with odontogenic inflammatory diseases, traumatic injuries, diseases of the salivary glands, surgical care for patients with defects and deformities of the maxillofacial tissues, diseases and neoplasms of the maxillofacial region.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Maxillofacial Surgery” is aimed at the development of the following competences /competences in part:

The mastering of the discipline “Maxillofacial Surgery” is aimed at the formation of the following competencies of students: General Professional Competences- (GPC)-4, 5, 7  
Professional Competences- (PC)-2,3,6.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-4	Being able to use medical devices provided for by the procedure for medical care, and conduct patient examinations in order to determine a diagnosis	GPC-4.2. Being able to assess the effectiveness and safety of medical devices.
GPC-5	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-5.1. Mastering the algorithm of clinical, laboratory and functional diagnosis when dealing with professional tasks.
		GPC-5.2. Being able to evaluate the results of clinical, laboratory and functional diagnosis when dealing with professional tasks.
		GPC-5.3. Being able to determine morpho-functional, physiological states and pathological processes of the human body.
GPC-7	Being able to prescribe treatment and monitor its efficacy and safety	Being aware of the algorithm for making a preliminary diagnosis with the subsequent referral of the patient to the relevant medical specialist.
PC-2	Being able to examine a patient in order to determine a diagnosis	PC-2.1. Mastering the skills to collect complaints, anamnesis of the patient’s life and disease, as well as conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation).
		PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.

		PC-2.3. Being able to refer a patient to a laboratory examination in case there are medical indications in accordance with the current
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		<p>procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.</p>
		<p>PC-2.4. Being able to refer a patient to an instrumental 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 medical care.</p>
		<p>PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication 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 medical care.</p>
		<p>PC-2.6. Being able to refer a patient to be provided with specialized medical care in an inpatient setting or in a day hospital 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 medical care.</p>
		<p>PC-2.7. Being able to carry out differential diagnosis with other diseases/conditions, including the urgent ones, as well as to make a diagnosis taking into account the current international statistical classification of diseases and problems related to health (ICD).</p>
PC-3	Being able to prescribe treatment and monitor its efficacy and safety	<p>PC-3.1. Being able to develop a treatment plan for a disease or condition 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 standards of medical care.</p>
PC-6	Being able to keep medical records and organize the activities of the nursing staff	<p>PC-6.1. Being able to draw up a work plan and report on their work, issue a passport for a healthcare (therapeutic) area.</p>

### 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-4	Being able to use medical devices provided for by the procedure for medical care, and conduct patient examinations in order to determine a diagnosis	Radiation diagnostics; Medical rehabilitation; General surgery; Faculty Surgery	Endoscopic urology; Oncology, radiation therapy
GPC-5	Being able to prescribe treatment and monitor its efficacy and safety	Microbiology, virology; Pathophysiology, Clinical pathophysiology; Neurology, medical genetics, Neurosurgery	Forensic medicine; Hospital therapy; Anesthesiology, Resuscitation, Intensive care
GPC-7	Being able to prescribe treatment and monitor its efficacy and safety	General surgery; Faculty Surgery; Otorhinolaryngology; Ophthalmology	Hospital surgery, Pediatric Surgery
PC-2, PC-3, PC-6	Being able to examine a patient in order to determine a diagnosis  Being able to prescribe treatment and monitor its efficacy and safety  Being able to keep medical records and organize the activities of the nursing staff	Physics; Pathophysiology, Clinical Pathophysiology; Pathophysiology, Clinical pathophysiology	Clinical Pharmacology; Oncology, radiation therapy; Endoscopic urology

### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Maxillofacial Surgery" is 2 credits (72 academic hours).

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

Type of academic activities		Total academic hours	Semesters/training modules
			12
<i>Contact academic hours</i>		<b>170</b>	<b>85</b>
including:			
Lectures (LC)		<b>48</b>	<b>48</b>
Lab work (LW)			
Seminars (workshops/tutorials) (S)		-	-
<i>Self-studies</i>		<b>24</b>	<b>24</b>
<i>Evaluation and assessment (exam/passing/failing grade)</i>			
<b>Course workload</b>	academic hours	<b>72</b>	<b>72</b>
	credits	<b>2</b>	<b>2</b>

## 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
<b>Module 1</b>	Anatomy and topographical anatomy of cellular spaces of the maxillofacial region. Clinical characteristics of inflammation. Pathoanatomic and pathophysiological picture of inflammation. Definition of abscess and phlegmon. Ways of spreading purulent infection. Method of treatment of purulent wounds of the maxillofacial region. Principles of drug treatment of acute inflammatory diseases of the maxillofacial region.	LC
<b>Module 2</b>	Classification of facial skull fractures. Etiology, pathogenesis, assessment of the severity of damage, general posttraumatic disorders, taking into account age and concomitant pathologies. Features of emergency care for fractures of the upper jaw, zygomatic bone, nasal bones. Prevention, diagnosis and prognosis of post-traumatic complications, the choice of therapeutic tactics, interaction with doctors of related specialties.	LC
<b>Module 3</b>	Classification of fractures of the lower jaw, the mechanisms of	LC

Course module title	Course module contents (topics)	Academic activities types
	their occurrence. Clinic, diagnosis and treatment of patients.	
<b>Module 4</b>	Classification of tumors of the maxillofacial region. Diagnosis, features of the course and treatment of benign and malignant tumors of the maxillofacial area. Emergency and planned care for patients with tumors of the maxillofacial region. Differential diagnosis of tumors with similar pathological processes. A treatment plan for various tumor processes.	LC
<b>Module 5</b>	Methods of research of salivary glands, methods of its assessment. Classification, clinical picture and treatment of sialoadenitis, salivary stone disease, tumor lesions of the salivary glands. The technique of diagnostic puncture of the glands, removal of stones from the ducts of the salivary glands, extirpation of the submandibular and parotid salivary glands, algorithm for treating diseases depending on etiopathogenesis.	LC
<b>Module 6</b>	Causes and types of defects of the maxillofacial region. Principles of planning and conducting reconstructive operations in the maxillofacial region. Indications for various types of reconstructive operations. Deontological methods of behavior with patients with defects and deformities of the tissues of the maxillofacial region. Features of the structure of the maxillofacial region and the basic principles of planning restorative treatment, the main components of restorative treatment, types of reconstructive operations and features of their implementation in the maxillofacial region, features of medical rehabilitation of patients with defects and deformities of the maxillofacial region.	LC

## 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)
Seminar	Computers and multimedia projectors	<ol style="list-style-type: none"> <li>1. Photos of thematic patients.</li> <li>2. Video recordings of operations.</li> <li>3. A set of radiographs and CT scans.</li> <li>4. Projector, laptop</li> <li>5. Macro-products, models, and training phantoms.</li> <li>6. Sets of surgical instruments for removing teeth, performing splinting of teeth and jaws, reposition of the zygomatic bone, applying various types of sutures</li> </ol>

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Maxillofacial surgery: textbook / edited by A. Yu. Drobyshev, O. O. Yanushevich. -Moscow: GEOTAR-Media, 2018. - 880 p. - ISBN 978-5-9704-4081-0.
2. Surgical dentistry: textbook / under the general editorship of V. V. Afanasyev. - 3rd ed., reprint. - Moscow: GEOTAR-Media, 2016. - 400 p. - ISBN 978-5-9704-3704-9.
3. Surgical dentistry and maxillofacial surgery : national guidelines / ed. by A. A. Kulakov, T. G. Robustova, A. I. Nerobeyev. - Moscow: GEOTAR-Media, 2015. -928 p. - (National guidelines). - ISBN 978-5-9704-3727-8.

### *Additional readings:*

1. Surgical dentistry. Inflammatory and dystrophic diseases of the salivary glands: a textbook / A.M. Panin, I. V. Gaiduk, V. I. Vasiliev [et al.]; edited by A.M. Panin. - 2nd ed., reprint. Electronic text data. - Moscow: Litterra Publ., 2020. ISBN 978-5-4235-0354-3.
2. Features of treatment of odontogenic cystic formations of the lower jaw by cystotomy / B. Ya. Asnin, S. A. Asnina, A. Yu. Drobyshev [et al.] // Dentistry. - 2020. - No. T. 99(6). - pp. 33-37.
3. Diseases of teeth and oral cavity: textbook / I. M. Makeeva, S. T. Sokhov, M. Ya. Alimova [et al.]. - Electronic text data. - Moscow: GEOTAR-Media, 2020. - 256 p.: ill. -ISBN 978-5-9704-5675-0.



### *Internet (based) sources*

- 1. Electronic libraries with access for RUDN students:
  - Electronic library network of RUDN – ELN RUDN <http://lib.rudn.ru/MegaPro/Web>
  - ELN «University Library online» <http://www.biblioclub.ru>
  - ELN Urait <http://www.biblio-online.ru>
  - ELN «Student Advisor» [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - ELN «Lan» <http://e.lanbook.com/>
- 2. Databases and search engines:
  - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
  - search system Yandex <https://www.yandex.ru/>
  - search system Google <https://www.google.ru/>
  - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

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

1. The set of lectures on the course “Maxillofacial Surgery”

\* 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)-4, 5, 7; PC-2,3,6.) 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 Maxillofacial  
Surgery and Surgical Dentistry

V. D. Trufanov

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position, department

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signature

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name and surname

Assistant

Department of Maxillofacial  
Surgery

E. V. Kim

and Surgical Dentistry

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position, department

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signature

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name and surname

**HEAD of the Department:**

Department of Maxillofacial  
Surgery and Surgical Dentistry

S. Y. Ivanov

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position, department

---

signature

---

name and surname

**HEAD of the Higher Education Program:**

First Deputy Director of MI for  
Academic Affairs

Iv.V.Radysch

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position, department

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signature

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name and surname