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**Federal State Autonomous Educational Institution of Higher Education**

**Peoples' Friendship University of Russia**

**Medical institute**

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

## **COURSE SYLLABUS**

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### **MAXILLOFACIAL AND GNATHIC SURGERY**

course title

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

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**31.05.03 Dentistry**

field of studies / speciality code and title

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

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**Dentistry**

higher education programme profile/specialization title

## 1. THE GOALS OF MASTERING THE DISCIPLINE

The aim of the course «**Maxillofacial and gnathic surgery**» is to prepare the student for the examination, diagnosis and treatment of patients with traumatic injuries, diseases of the salivary glands, surgical care for patients with defects and deformities of tissues of the maxillofacial region, with diseases and injuries of the maxillofacial nerve, with diseases of the temporomandibular joint (hereinafter TMJ) and contractures of the lower jaw.

## 2. REQUIREMENTS to LEARNING OUTCOMES

The mastering of the discipline «**Maxillofacial and gnathic surgery**» is aimed at the formation of the following competencies (part of competencies): **GPC-2, GPC-5, GPC-6, GPC-7, GPC-9, PC-1, PC-2, PC-3, PC-5.**

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

<b>Competence code</b>	<b>Competence</b>	<b>Indicators of Competence Formation (within the framework of this discipline)</b>
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 -7.	Aable to organize work and making professional decisions under emergency	GPC-7.1. Have an algorithm for first aid in emergencies, including in extreme conditions and mass destruction foci.

Competence code	Competence	Indicators of Competence Formation (within the framework of this discipline)
	conditions, emergencies, epidemics, and hotbeds of mass destruction	GPC -7.2 Identify conditions requiring emergency medical care, including clinical signs of sudden circulatory and respiratory arrest.
GPC-9.	Able to assess morphofunctional 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. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE:

The course «**Maxillofacial and gnathic surgery**» refers to the *basic* part of Block 1 B1.B.55 of the EP HE.

Within the framework of the Educational Program, students also study other disciplines and/or practices that contribute to the intended learning outcomes of «**Maxillofacial and gnathic surgery**».

Table 3.1. List of components of the EP of Higher Education, contributing to the achievement of the planned results of mastering the discipline

Competence Code	The competence	Previous Disciplines	Subsequent disciplines
GPC-2.	Able to analyze the results of his/her own activities to prevent professional errors	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Internship:</b> internship assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC -5.	Able to exam a patient in order to establish a diagnosis when dealing with professional tasks	Local anesthesia and anesthesiology in dentistry, Oral surgery,	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases,
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, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Practice:</b> industrial practice assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC -7.	Able to organize work and making professional decisions in case of emergencies, epidemics, and hotbeds of mass destruction	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Internship:</b> internship assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
GPC -9.	Is able to assess morphofunctional conditions and pathological processes in the human body to solve professional problems	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases,

Competence Code	The competence	Previous Disciplines	Subsequent disciplines
		<b>Practice:</b> industrial practice assistant dentist surgeon	Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
PC-1.	Able to diagnose children and adults with dental diseases, establish a diagnosis	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Practice:</b> industrial practice assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
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, Oral surgery, Propaedeutics of dental diseases, Normal anatomy	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint
PC-3.	Able to provide medical care in an emergency and urgent form	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy <b>Practice:</b> industrial practice assistant dentist surgeon	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist
PC-5.	Able to conduct medical examinations of children and adults with dental diseases	Local anesthesia and anesthesiology in dentistry, Oral surgery, Propaedeutics of dental diseases, Normal anatomy	Head and Neck Diseases, Maxillofacial Prosthetics, Gerontostomatology and Mucosal Diseases, Gnathology and Functional Diagnosis of the Temporomandibular Joint <b>Internship:</b> internship assistant general dentist

#### 4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total time commitment of the course is 6 credit units (216 hours).

Table 4.1. Types of learning activities by periods of study of the HE for **the full-time** form of study

Type of academic activities	Total, academic hours	Semesters		
		8	9	10
<i>Classroom learning, ac.h.</i>	144	48	48	48
Including:	-	-	-	-
Lectures ( <b>Lec</b> )				
Laboratory work ( <b>Lab</b> )	144	48	48	48
Practical/Seminar classes ( <b>S</b> )				
Self-studies, academic hours	54	18	18	18
<i>Evaluation and assessment (exam or pass/fail grading)</i>	18	6	6	6
Total workload of the discipline	ac.h. credit unit.	<b>216</b> <b>6</b>	<b>72</b> <b>2</b>	<b>72</b> <b>2</b>

#### 5. THE COURSE MODULES AND CONTENTS

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

Semester	Modules and Topics	Content of the topics	Type of academic activities
8	<b>Module 1</b> Infectious inflammatory diseases of the maxillofacial region	1.1 Actinomycosis of the maxillofacial region. Tuberculosis, syphilis of the maxillofacial region.	Lab, SS
		1.2 Boils, facial carbuncles. Rust infection	
	<b>Module 2</b> Diseases and injuries of the salivary glands	2.1 Anatomy of salivary glands. Reactive-dystrophic changes (sialosis).	Lab, SS
		2.2 Inflammatory diseases of the salivary glands. Salivary gland disease. Damage to the salivary glands.	
	<b>Module 3</b> Traumatic injuries of the maxillofacial region.	3.1 Statistics and classification of injuries of the maxillofacial region. Classification. Damage to the soft tissues of the face.	Lab, SS

<b>Semester</b>	<b>Modules and Topics</b>	<b>Content of the topics</b>	<b>Type of academic activities</b>
<b>9</b>		3.2 Non-gunshot injuries of the facial skull bones and teeth. Dislocations and fractures of teeth. Fractures of the alveolar process. Fractures of the upper and lower jaw	
		3.3 Methods of immobilization in jaw fractures. General methods of treatment and care of patients with jaw fractures.	
		3.4 Fractures of the zygomatic bone and arch. Fractures of the nasal bones.	
	<b>Module 1</b> Diseases of the trigeminal and facial nerves	1.1 Neuritis and trigeminal neuralgia	Lab, SS
		1.2 Lingual Pharyngeal Nerve Neuralgia	
		1.3 Facial Nerve Damage	
	<b>Module 2</b> Diseases of the temporomandibular joint	2.1 Inflammatory diseases of the temporomandibular joint	Lab, SS
		2.2 Dystrophic diseases of the temporomandibular joint	
		2.3 Temporomandibular joint ankylosis Lower jaw contracture	
		2.4 Internal Disorders of the Temporomandibular Joint	
<b>10</b>	<b>Module 1</b> Military field surgery	1.1 Organization of military maxillofacial surgery. Peculiarities of gunshot wounds. Firearm injuries of soft tissues of the face. PCS of wounds.	Lab, SS
		1.2 Gunshot injuries of facial bones. Combined injuries of the maxillofacial region.	
		1.3 Facial burns (thermal, electric burns, chemical burns, frostbites). Combined radiation lesions of the face and oral tissues.	
		1.4 Complications of gunshot and radial injuries. Methods of treatment of victims in emergency conditions.	
	<b>Module 2</b> Restorative surgery of the maxillofacial region	2.1 Goals and objectives of reconstructive surgery. Planning of reconstructive surgery. Plastics with local tissues.	Lab, SS
		2.2 Plastics with stem flaps. Plastics with Filatov's stem flap	
		2.3 Free tissue grafting. Surgical treatment of jaw deformities.	

\* - to be completed only for full-time study: Lec - lectures; Lab - laboratory work; S - seminars

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

Table 6.1. Logistical and material provision for the discipline

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
Laboratory	Auditorium for laboratory work, individual consultations, current monitoring and interim certification, equipped with a set of specialized furniture and equipment. (FGSN 286, CDC classroom 2)	PC, Microsoft Products (OS, office applications package), Projector. Medicaid tables. Photographs of topical 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.
For students' independent work	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 operating room 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 classroom for students' independent work is specified MUST!

## 7. RECOMMENDED SOURCES for COURSE STUDIES

### Main reading

1. Maxillofacial Surgery : textbook / edited by A.Yu. Drobyshev, O.O. Yanushevich. - Moscow : GEOTAR-Media, 2018. - 880 c. - ISBN 978-5-9704-4081-0.
2. Surgical Dentistry : textbook / ed. by V.V. Afanasiev. Afanasiev. - 3rd ed. revised. - M. : GEOTAR-Media, 2016. - 400 c. - ISBN 978-5-9704-3704-9.
3. 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.



4. Zandelov V.L., Gunko V.I. et al. "Sialolithiasis. Etiopathogenesis, clinic, features of diagnostics, treatment methods". tutorial.-Moscow: RUDN, 2007.
5. Gunko V.I., Zandelov V.L., Trufanov V.D. et al. A brief guide to the specialty "Maxillofacial Surgery" PFUR. Moscow, 2008. 76p.
6. Zandelov V.L., Gunko V.I. Do Minh F. Odontogenic and neodontogenic cysts of the jaws. - Moscow: PFUR, 2013.
7. Zandelov V.L., Gunko V.I. Shabaev M.M. Congenital cysts and fistulas of the face and neck. - Moscow: PFUR, 2013.
8. Zandelov V.L., Gunko V.I. , Grishkov A.S., Boichevskaya V.A. Inflammatory diseases of salivary glands. Sialosis and sialoadenopathy. - Moscow: PFUR, 2014.

### ***Additional reading***

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. Drobyshev [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.
4. Nerobeev A.I. Restoration of head and neck tissues by complex arterialized flaps//Monograph.Moscow: Medicine, 1988. 269 c.
5. Khitrov F.M. Atlas of plastic surgery of face and neck. Moscow, 1984.203 p.
6. Bezrukov V.M. N.A. Rabukhina, V.I. Gunko, et al. Deformities of the facial skull. M. MedicalInformation Agency. 2005. 304 c.

### **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](http://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.elsevier.com/locate/scopus/](http://www.elsevier.com/locate/scopus)
  - WHODocumentation Center <http://whodc.mednet.ru/>
  - Surgery Digital Library <http://surgerylib.ru/>

## 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 "Maxillofacial and gnathic 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

### DEVELOPERS:

**Associate Professor of the Department  
maxillofacial surgery  
and surgical dentistry**

\_\_\_\_\_  
position, name of the department

\_\_\_\_\_  
signature

**V.D. Trufanov**

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**Assistant of the Department  
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**HEAD of Higher Education Program  
Deputy Director MI RUDN  
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