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

**Medical Institute**

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

**COURSE SYLLABUS**

**HEAD AND NECK DISEASES**

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course title

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

**31.05.03 Dentistry**

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field of studies / speciality code and title

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

**Dentistry**

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higher education program profile/specialization title

## 1. THE GOALS OF MASTERING THE DISCIPLINE

The aim of the course «**Head and neck diseases**» is to train the dentist able to provide surgical care to patients with defects of the maxillofacial tissues, to perform dental implantation for the full-fledged medical rehabilitation of patients with dental defects.

## 2. REQUIREMENTS to LEARNING OUTCOMES

The mastering of the discipline «**Head and neck diseases**» is aimed at the formation of the following competencies of students:

**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</b> (within the framework of this discipline)
<b>GPC-2</b>	Able to analyze results of given activities to prevent professional mistakes.	<b>GPC-2.1.</b> Analyzing the causes of professional errors, therapeutic failures and conflict situations. <b>GPC-2.2.</b> Providing scientific arguments for and implementing recommendations aimed at improving the medical and legal training of dentists, preventing professional errors, adverse outcomes and conflict situations.
<b>GPC-5</b>	Able to examine a patient in order to establish a diagnosis while solving professional problems	<b>GPC-5.2.</b> Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient
<b>GPC-6</b>	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	<b>GPC-6.1.</b> 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 <b>GPC-6.2.</b> Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient.
<b>GPC-7</b>	Able to organize work and make professional decisions in case of emergency, in emergencies, epidemics and in outbreaks of mass destruction	<b>GPC-7.1.</b> Being able to use the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction. <b>GPC-7.2.</b> Identifying conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and acute respiratory failure.

Competence code	Competence	Indicators of Competence Formation (within the framework of this discipline)
<b>GPC-9</b>	Able to assess morphological and functional states and pathological processes in the human body to solve professional problems	<p><b>GPC-9.1.</b> Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks</p> <p><b>GPC-9.2.</b> Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks.</p>
<b>PC-1</b>	Able to diagnose children and adults with dental diseases, making a diagnosis.	<p><b>PC-1.1.</b> Making an initial examination and/or reexamination for a patient in order to make a preliminary diagnosis.</p> <p><b>PC-1.2.</b> 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.</p>
<b>PC-2</b>	Able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	<p><b>PC-2.1.</b> Organizing the provision of emergency and urgent medical care for acute dental diseases, conditions, exacerbation of chronic diseases, which pose a threat to the patient's life, or without obvious signs of a threat to the patient's life.</p> <p><b>PC-2.2.</b> Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs.</p>
<b>PC-3</b>	Able to prescribe and conduct treatment of children and adults with dental diseases, monitoring its effectiveness and safety	<p><b>PC-3.1.</b> Providing qualified medical care in the specialty using modern rehabilitation methods approved for use in medical practice.</p> <p><b>PC-3.2.</b> Drawing up an individual rehabilitation plan for a patient with diseases of the maxillofacial area.</p>
<b>PC-5</b>	Able to conduct medical examinations for children and adults with dental diseases	<p><b>PC-5.1.</b> Motivating patients (their relatives/legal representatives) to stick to a healthy lifestyle and give up bad habits.</p> <p><b>PC-5.2.</b> Promoting positive behaviour so that patients (their relatives/legal representatives) maintain and improve their level of health .</p>

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

The course «**Head and neck diseases**» refers to the *basic* part of block 1 B1.B.56 of the EP HE.

Within the framework of the Educational Program, students also master other disciplines and/or practices that contribute to expected learning outcomes of the course «**Head and neck diseases**»

*Table 3.1. List of Higher Education Program disciplines that contribute to expected learning outcomes*

<b>Competence code</b>	<b>The Competence</b>	<b>Previous Disciplines</b>	<b>Subsequent disciplines</b>
<b>GPC-2.</b>	Able to analyze the results of their own professional activity to prevent professional errors	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant
<b>GPC-5.</b>	Able to examine patients to determine a diagnosis when solving professional tasks	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant
<b>GPC-6.</b>	Able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Pharmacology, Histology, Embryology, Cytology – Oral histology, Microbiology, Virology – Oral microbiology, Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant

Competence code	The Competence	Previous Disciplines	Subsequent disciplines
		<b>Practice:</b> manufacturing practice dental surgeon assistant	
<b>GPC-7.</b>	Able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction	Public Health, Healthcare, Health and wellness, Epidemiology, Emergency medicine, Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases Denture prosthetics (complex prosthetics), Full mouth dental implants <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant
<b>GPC-9.</b>	Able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant
<b>PC-1.</b>	Able to make an examination for a patient in order to determine a diagnosis.	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant

Competence code	The Competence	Previous Disciplines	Subsequent disciplines
<b>PC-2.</b>	Able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant
<b>PC-3.</b>	Able to provide emergency medical treatment	Public Health, Healthcare, Health and wellness, Epidemiology, Emergency medicine, Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant
<b>PC-5.</b>	Able to conduct medical examinations for children and adults with dental diseases	Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Head and neck diseases; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics, Forensic Sciences <b>Practice:</b> manufacturing practice dental surgeon assistant	Maxillofacial and Gnathic Surgery, Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint <b>Practice:</b> manufacturing practice dental assistant

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

The total workload of the discipline is equal to 2 credit units (72 hours).

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

Types of academic activities		TOTAL, academic hours (ac.h)	Semesters
			9
Classroom learning , ac.h.		58	58
Lectures (Lec)		16	16
Lab work (Lab)		42	42
Practical lessons / Seminars (S)			
Self-studies, ac.h		8	8
Evaluation and assessment (exam or pass/fail grading), ac.h.		6	6
Total workload of the discipline	ac.h.	72	72
	credits	2	2

#### 5. THE COURSE MODULES AND CONTENTS

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

The name of the discipline section	Section content (topics)	Type of academic activities
Module 1 Benign tumors	1.1 Classification of tumors. Odontogenic and Neodontogenic jaw tumors. Osteogenic and Non-osteogenic jaw tumors. 1.2 Jaw cysts. Tumor-like jaw formations.	Lab, SS
	Congenital cysts and fistulas of the face and neck. Benign tumors of the soft tissues of the maxillofacial region.	
Module 2 Malignant tumors	2.1 Carcinogenesis theories. Oncostomatological care organization. Dispensary groups. Patient examination methods. Facial and oral cavity precancer classification. Optional precancer and background diseases.	Lab, SS
	2.2 Facial and oral cavity obligate precancer. Precancer diseases treatment principles	
	2.3 Facial skin and lip cancer. Oral mucosa and tongue cancer.	
	2.4 Cancer of the upper and lower jaws. Sarcoms.	
	2.5 Benign and malignant tumors salivary glands tumors. Malignant treatment principles.	

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

Table 6.1. Logistical and material provision of the discipline.

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
Laboratory	Classroom for lab work, individual consultations, self-studies equipped with a set of specialized furniture (FHSS 286, CDC aud. №2)	Laptop, MS Office, Projector, Tables «Medical education», Photo protocol of patients, Video recordings of operations, Dental X-ray and CT, Translation of operations from the surgery room to the screen in the study room in online mode. Macropreparations, models, phantoms, Surgical kit for exodontia , splinting of teeth and jaws, reposition of zygomatic bone, suturing.
Classroom for students self-studies	Classroom for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture, microscopes and computers with stable wireless Internet connection (FHSS 286, CDC aud. №2, Main building, lec.hall)	Laptop, MS Office, Projector, Tables «Medical education», Photo protocol of patients, Video recordings of operations, Dental X-ray and CT, Translation of operations from the surgery room to the screen in the study room in online mode. Macropreparations, models, phantoms, Surgical kit for exodontia , splinting of teeth and jaws, reposition of zygomatic bone, suturing.

## 7. RECOMMENDED SOURCES for COURSE STUDIES

### Main reading

1. Maxillofacial surgery : textbook / edited by A.Y. Drobyshch, O.O. Yanushevich. - M. : GEOTAR-Media, 2018. - 880 p. - ISBN 978-5-9704-4081-0. 2.
2. Surgical dentistry : textbook / edited by V.V. Afanasyev. - 3rd ed., reprint. - M. : GEOTAR-Media, 2016. - 400 p. - ISBN 978-5-9704-3704-9. 3.
3. Surgical dentistry and maxillofacial surgery: National Guidelines / edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeev. - M. : GEOTAR-Media, 2015. - 928 p. - (National Guidelines). - ISBN 978-5-9704-3727-8. 4.
4. Gunko V.I., Zandelov V.L., Trufanov V.D., etc. A short reference guide to the specialty "Maxillofacial surgery" RUDN..M.,2008.76p . 5.



5. Zandelov V.L., Gunko V.I., Do Min F. Odontogenic and non-odontogenic jaw cysts. – M.: RUDN, 2013. 7.
6. Zandelov V.L., Gunko V.I., Shabaev M.M. Congenital cysts and fistulas of the face and neck. – M.: RUDN, 2013.

*Additional reading:*

1. Features of the treatment of odontogenic cystic formations of the lower jaw by cystotomy / B.Ya. Yesenin, S.A. Asnina, A.Yu. Drobyshev [et al.] // Dentistry. - 2020. - No. T. 99 (6). - pp. 33-37. 2.
2. X-ray diagnostics in dentistry, 2nd edition, stereotypical /Rabukhina N.A., Arzhantsev A.P. // M.: MIA, 2003. – 451 p.

**Internet (based) sources:**

1. Electronic libraries with access for RUDNstudents:
  - 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/>
  - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>
  - WHO Documentation Center <http://whodc.mednet.ru/>
  - electronic library on surgery <http://window.edu.ru/resource/993/56993>

**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 "Head and neck diseases" 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:**

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maxillofacial surgery  
and surgical dentistry**

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position, name of the department

**V.D. Trufanov**

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