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Federal State Autonomous Educational Institution of Higher Education

PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA

RUDN University

Medical Institute

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

COURSE SYLLABUS

IMPLANTOLOGY AND RECONSTRUCTIVE SURGERY OF ORAL CAVITY

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 program of higher education:

Dentistry

higher education program profile/specialization title

2022

1. THE GOALS OF MASTERING THE DISCIPLINE

The aim of the course «**Implantology and reconstructive surgery of oral cavity**» 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 «**Implantology and reconstructive surgery of oral cavity**» 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)

| Competence code | Competence | Indicators of Competence Formation (within the framework of this discipline) |
|------------------------|--|---|
| GPC-2 | Able to analyze results of given activities to prevent professional mistakes. | GPC-2.1. Analyzing the causes of professional errors, therapeutic failures and conflict situations. GPC-2.2. 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. |
| GPC-5 | Able to examine a patient in order to establish a diagnosis while solving professional problems | GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient. |
| GPC-6 | Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems | 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. |
| GPC-7 | Able to organize work and make professional decisions in case of emergency, in emergencies, epidemics and in outbreaks of mass destruction | GPC-7.1. Being able to use the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction. GPC-7.2. Identifying conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and acute respiratory failure. |
| GPC-9 | Able to assess morphological and functional states and pathological processes in the human body to solve professional problems | GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks. |

| Competence code | Competence | Indicators of Competence Formation (within the framework of this discipline) |
|-----------------|--|---|
| PC-1 | Able to diagnose children and adults with dental diseases, making 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-2 | Able to prescribe, monitor the efficacy and safety of non-drug and drug treatment | PC-2.1. 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. PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs. |
| PC-3 | Able to prescribe and conduct treatment of children and adults with dental diseases, monitoring its effectiveness and safety | PC-3.1. Providing qualified medical care in the specialty using modern rehabilitation methods approved for use in medical practice. PC-3.2. Drawing up an individual rehabilitation plan for a patient with diseases of the maxillofacial area. |
| PC-5 | Able to make medical examinations to children and adults with dental diseases | PC-5.1. Motivating patients (their relatives/legal representatives) to stick to a healthy lifestyle and give up bad habits. PC-5.2. Promoting positive behavior so that patients (their relatives/legal representatives) maintain and improve their level of health . |

3. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

The course «**Implantology and reconstructive surgery of oral cavity**» refers to the *variety* part of Block1 B1.V.08 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 «**Implantology and reconstructive surgery of oral cavity**».

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

| Competence code | The Competence | Previous Disciplines | Subsequent disciplines |
|-----------------|---|--|---|
| GPC-2. | Able to analyse the results of their own professional activity to prevent professional errors | Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint |

| Competence code | The Competence | Previous Disciplines | Subsequent disciplines |
|-----------------|---|--|--|
| GPC-5. | 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; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant |
| GPC-6. | 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; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Clinical Pharmacology Practice: manufacturing practice dental assistant |
| GPC-7. | 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; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant |

| Competence code | The Competence | Previous Disciplines | Subsequent disciplines |
|-----------------|---|--|--|
| GPC-9. | 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; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant |
| PC-1. | Able to make an examination of a patient in order to determine a diagnosis. | Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Orthodontology and children's prosthetics Practice: manufacturing practice dental assistant |
| PC-2. | 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; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Orthodontology and children's prosthetics Practice: manufacturing practice dental assistant |
| PC-3. | Able to provide emergency medical treatment | Public Health, Healthcare, Health and wellness, Epidemiology, Emergency medicine, | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional |

| Competence code | The Competence | Previous Disciplines | Subsequent disciplines |
|-----------------|---|---|--|
| | | Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants Practice: manufacturing practice dental surgeon assistant | diagnostics of temporomandibular joint Practice: manufacturing practice dental assistant |
| PC-5. | Able to make medical examinations to children and adults with dental diseases | Local anesthesia and Anesthesiology in Dentistry, Oral and Maxillofacial Surgery and Gnathic Surgery; Diseases of the head and neck; Denture prosthetics (complex prosthetics), Full mouth dental implants, Pediatric dentistry, Orthodontology and children's prosthetics, Forensic Sciences Practice: manufacturing practice dental surgeon assistant | Maxillofacial Prosthetics, Geriatric Dentistry and mucosal diseases, Gnathology and functional diagnostics of temporomandibular joint, Orthodontology and children's prosthetics Practice: manufacturing practice dental assistant |

4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the discipline is equal to 2 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering

| Types of academic activities | TOTAL, academic hours (ac.h) | Semesters |
|---|------------------------------------|-----------|
| | | 10 |
| Classroom learning , <i>ac.h.</i> | 48 | 48 |
| Lectures (Lec) | | |
| Lab work (Lab) | 48 | 48 |
| Practical lessons / Seminars (Sem) | | |
| Self-studies, <i>ac.h.</i> | 18 | 18 |
| Evaluation and assessment (exam or pass/fail grading), <i>ac.h.</i> | 6 | 6 |
| Total workload of the discipline | ac.h. | 72 |
| | credits | 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 Anomalies and defects of maxillofacial region | 1.1 Surgical treatment for anomalies and defects of the upper and lower jaws. Operative intervention. | Lab, SS |
| Module 2 Periodontology | 2.1 Surgical preparation of the oral cavity for prosthetics (bone grafting). | Lab, SS |
| | 2.2 Operations on the soft tissues of the oral cavity. | Lab, SS |
| | 2.3 Surgical methods in the complex treatment of periodontal diseases | Lab, SS |
| Module 3 Dental and maxillofacial implantation | 3.1 Dental and maxillofacial implantation. | Lab, SS |
| | 3.2 Types of implantation. Indications, contraindications, diagnostics, preparation for surgery, methods of surgery. | Lab, SS |

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 Academic Activity Type | Classroom Equipment | Specialized educational/laboratory equipment, software and materials for the mastering of the discipline |
|---|--|---|
| 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 SOURSES for COURSE STUDIES

Main reading

1. Surgical dentistry and maxillofacial surgery: national guidelines / edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeeva. - M. : GEOTAR-Media, 2015. - 928 p. - (National Guidelines). - ISBN 978-5-9704-37278.
2. Surgical dentistry : textbook / under the general editorship of V.V. Afanasyev. - 3rd ed., reprint. M.: GEOTAR-Media, 2016. - 400 p. - ISBN in 978-5-9704-3704-9.
3. Bezrukov V.M, Robustova T.G. "Manual of surgical dentistry and maxillofacial surgery" 2nd ed., pererab, and add., Moscow, "Medicine", 2000. T1. pp. 245-280.
4. Maxillofacial surgery : textbook / edited by A.Y. Drobyshev, O.O. Yanushevich. - M. : GEOTAR-Media, 2018. - 880 p. - ISBN at 978-5-9704-4081-0.

Additional reading:

1. Shargorodsky A.G. "Inflammatory diseases of the tissues of the maxillofacial region and neck" Moscow State Medical University of the Russian Federation 2001, pp. 5-14, 118-191, 237-254.
2. Mukovozov I.N. Differential diagnosis of diseases of the maxillofacial region. - L., "Medicine", 1982
3. Yanushevich O.O. Periodontology : national guide-M.: GEOTAR- Media, 2018. - 752 p.
4. Rabukhina N.A., Arzhantsev A.P. Roentgenodiagnosics in dentistry, 2nd edition, stereotypical // Moscow: MIA, 2003. – 451 p . стереотипное // М.: МИА, 2003. – 451 с.
5. Plastic surgery of soft tissues of the oral cavity. / Ed . Giovanni Zuccelli – M.: ABC, 2014 – 816 p .
6. Combined maxillofacial anomalies and defects: a guide for doctors/ Ed. Andreishcheva A.R. - M.: GEOTAR-Media, 2008. — 224 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
 - 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 "Implantology and reconstructive surgery of oral cavity" 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

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maxillofacial surgery
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position, name of the department

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