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Federal State Autonomous Educational Institution of Higher Education

Peoples' Friendship University of Russia

Medical institute

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

COURSE SYLLABUS

LOCAL ANESTHESIA AND ANESTHESIOLOGY IN DENTISTRY

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/specialization title

1. THE GOALS OF MASTERING THE DISCIPLINE

The aim of the course «**Local anesthesia and anesthesiology in dentistry**» is to prepare the student to perform various surgical interventions under local and general anesthesia on an outpatient and inpatient basis.

2. REQUIREMENTS to LEARNING OUTCOMES

The mastering of the discipline «**Local anesthesia and anesthesiology in dentistry**» is aimed at the formation of the following competencies of students (parts of competencies): **GPC -2, GPC -5, 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 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. GPC-2.2. scientifically justifies and implements recommendations aimed at improving the medical and legal training of dentists and preventing 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 Collect anamnesis, analyze patient's complaints, conduct physical examination at dental appointments. GPC -5.2 Formulate a preliminary diagnosis and plan laboratory and instrumental examinations of the dental patient
GPC -9	Able to assess morpho functional states and pathological processes in the human body in order to solve professional problems	GPC -9.1. Have an algorithm for clinical-laboratory and functional diagnostics when solving professional tasks. GPC -9.2 Evaluates the results of clinical, laboratory and functional diagnostics in solving professional tasks.
PC-1	Able to diagnose children and adults with dental diseases, making a diagnosis	PC-1.1. Conducts initial and/or follow-up examination 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.

Competence code	Competence	Indicators of Competence Formation (within the framework of this discipline)
PC-2	Able to prescribe and administer treatment for children and adults with dental diseases, monitor its effectiveness and safety	PC-2.1. Organizes emergency and urgent medical care for acute dental diseases, conditions, exacerbations of chronic diseases that are life-threatening for the patient or without clear signs of life-threatening for the patient. PC-2.2: Conducts the selection of medicines and medical devices (including dental materials) for the treatment of dental diseases, assessing the possible side effects of medication.
PC-3	Able to provide medical care in an emergency and urgent manner	PC-3.1 Provides qualified medical care in their specialty, using modern rehabilitation techniques approved for use in medical practice. PC-3.2 Draw up an individual rehabilitation plan for a patient with maxillofacial diseases.
PC-5	Able to carry out medical examinations of children and adults with dental conditions	PC-5.1. motivates patients (their relatives/legal representatives) to lead a healthy lifestyle and give up harmful habits. PC-5.2. shapes patients (their relatives/legal representatives) into positive behaviors aimed at maintaining and improving their health.

3. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

The course «**Local anesthesia and anesthesiology in dentistry**» refers to the *basic* part of Block 1 B1.B.49 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 «**Local anesthesia and anesthesiology in dentistry**».

Within the framework of the Educational Program, students also study other disciplines and/or practices that contribute to the intended learning outcomes of «**Local anesthesia and anesthesiology in dentistry**».

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 analyze results	Anatomy of dentistry - Anatomy of the head and	Oral surgery, orthopedic dentistry,

Competence Code	The competence	Previous Disciplines	Subsequent disciplines
	to prevent professional errors in their own activities	Neck, propaedeutics of dental diseases	restorative dentistry
GPC-5	Able to exam a patient in order to establish a diagnosis when dealing with professional tasks	Anatomy of dentistry - Anatomy of the head and neck, Propaedeutics of dental diseases	Oral surgery, orthopedic dentistry, general dentistry
GPC-9	Able to assess morpho functional states and pathological processes in the human body in order to solve professional problems	Anatomy of dentistry - Anatomy of the head and neck, Propaedeutics of dental diseases	Oral surgery, orthopedic dentistry, general dentistry
PC-1	Able to diagnose children and adults with dental diseases, making a diagnosis	Anatomy of dentistry - Anatomy of the head and neck, Propaedeutics of dental diseases	Oral surgery, orthopedic dentistry, general dentistry
PC-2	Able to prescribe and administer treatment for children and adults with dental diseases, monitor its effectiveness and safety	Anatomy of dentistry - Anatomy of the head and neck, Propaedeutics of dental diseases	Oral surgery, orthopedic dentistry, general dentistry
PC-3	Able to provide medical care in an emergency and urgent manner	Anatomy of dentistry - Anatomy of the head and neck, Propaedeutics of dental diseases	Oral surgery, orthopedic dentistry, general dentistry
PC-5	Able to carry out medical examinations of children and adults with dental conditions	Anatomy of dentistry - Anatomy of the head and neck, Propaedeutics of dental diseases	Oral surgery, orthopedic dentistry, general dentistry

4. THE DISCIPLINE WORKLOAD AND ACADEMIC ACTIVITIES

The total time commitment of the course is 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

Type of academic activities	TOTAL, academic hours (ac.h)	Semesters
		5
<i>Classroom learning, ac.h.</i>	48	48
Including:	-	-
Lectures (Lec)		
Laboratory work (Lab)	48	48
Practical/Seminar sessions (S)		
Self-studies, academic hours	21	21
<i>Evaluation and assessment (exam or pass/fail grading)</i>	3	3
Total workload of the discipline	ac.h. 72 credits 2	72 2

5. THE COURSE MODULES AND CONTENTS

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

Modules and Topics	Content of the topics	Type of academic activities
Module 1 Organizing a surgical ward	1.1 Organization of the surgical department (office) of a dental polyclinic. Asepsis and antiseptics in facial and oral surgery. Prevention of AIDS and B - hepatitis.	Lab, SS
	1.2 Examination of the surgical dental patient. Deontology and medical ethics.	
Module 2 Anesthesia in dental surgery	2.1 General anesthesia. Indications and characteristics of general anesthesia for facial and oral surgery. Premedication.	Lab, SS
	2.2 Selection of anesthesia and preparation of the patient for intervention in co-morbidities and the elderly. Complications of anaesthesia. Basics of resuscitation.	
	2.3 Local anesthetics and drugs used for local anesthesia. Types of local anesthetics.	
	2.4 Anesthesia in upper jaw surgery.	
	2.5 Anesthesia in mandibular surgery.	
	2.6 Local and general complications of local anesthesia.	
Module 3 Tooth and root extraction surgery	3.1 Features of facial and oral surgery. Techniques for removal of teeth and roots on the upper jaw. Instruments.	Lab, SS
	3.2 Methods for removing teeth and roots on the lower jaw. Instruments.	
	3.3 Techniques for complex tooth and root extraction.	
	3.4 Complications during tooth extraction.	
	3.5 Complications following tooth extraction.	
	3.6 Features of tooth extraction in persons with co-morbidities.	

* - 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	Classroom for laboratory work, individual consultations, current monitoring and interim certification, equipped with with a set of specialized	PC, Microsoft Products (OS, office suite), Projector. Medicaid tables. Photographs of optical patients. Operational intervention videos A set of radiographs and CT scans.

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
	furniture and equipment. (CDC classroom 2, 3)	Broadcasting operations from the operating theatre to the screen in the training room online. Macro preparations, models, teaching phantoms. Surgical tool kits for tooth extraction, dental implants, various types of sutures.
For Students' independent work	An auditorium for students' independent work (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS. (CDC Auditorium 2, 3, Main Lecture Hall)	Microsoft products (OS, office applications package) Medical textbook tables. PC, projector, Pictures of thematic patients. Videos of surgical interventions A set of radiographs and CT scans. Broadcasting operations from the operating theatre to the screen in the training room online. Macro preparations, models, teaching phantoms. Surgical instrument sets for tooth extraction, dental implants, splinting of teeth and jaws, cheekbone repositioning and various types of sutures.

* - the classroom for students' independent work is indicated MUST!

7. RECOMMENDED SOURCES for COURSE STUDIES

Main reading

1. Surgical dentistry and maxillofacial surgery: a 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.

2. Surgical Dentistry : textbook / ed. by V.V. Afanasiev. Afanasiev. - 3rd ed. revised. - Moscow: GEOTAR-Media, 2016. - 400 c. - ISBN 978-5-9704-3704-9.

Additional reading

1. Lower tooth pain relief in patients with restricted mouth opening / V.A. Semkin, A.V. Kuzin,

V.V. Sogacheva [et al] // Dentistry. - 2020. - № 1. 99 (2). - C. 105 - 109.

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>

- The University Library Online Libraries <http://www.biblioclub.ru> - The Unright Libraries <http://www.biblio-online.ru>

- Student's Consultant Libraries www.studentlibrary.ru

- Lan' EBS <http://e.lanbook.com/>

2. Databases and search engines:

- Electronic collection of legal, regulatory and technical documentation <http://docs.cntd.ru/>

- SCOPUS abstract database [http://www.elsevier.com/locate/scopus/](http://www.elsevier.com/locate/scopus)

WHODocumentation Centre <http://whodc.mednet.ru/>

- Electronic Library of Surgery <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 " Local anesthesia and anesthesiology in dentistry " 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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and surgical dentistry**

position, name of the department

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