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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

(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. COURSE GOAL(S)

The goal 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 in patient basis.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Local anesthesia and anesthesiology in dentistry**» is aimed at the development of the following competences /competences in part: **GPC -2, GPC -5, GPC -9, PC -1, PC -2, PC -3, PC 5.**

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
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. 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-2	Able to analyze results	Anatomy of dentistry - Anatomy of the head and	Oral surgery, orthopedic dentistry,

	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

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course 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
			5
<i>Contact academic hours</i>		48	48
including:		-	-
Lectures (LC)			
Lab work (LW)		48	48
Seminars (workshops/tutorials) (S)			
<i>Self-studies</i>		21	21
<i>Evaluation and assessment (exam/passing/failing grade)</i>		3	3
Course workload	academic hours_	72	72
	credits	2	2

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
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.	LW
	1.2 Examination of the surgical dental patient. Deontology and medical ethics.	
Module 2 Anesthesia indental surgery	2.1 General anesthesia. Indications and characteristics of general anesthesia for facial and oral surgery. Premedication.	LW
	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.	LW
	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 filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

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)
Lab work	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.
Self-studies	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 premises for students' self-studies are subject to **MANDATORY** mention

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

- * 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 978-5-9704-37278.

1. 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 readings:

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

V.V. Sogacheva [et al] // Dentistry. - 2020. - № Т. 99 (2). - С. 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.elsevierscience.ru/products/scopus/>
 - WHODocumentation Centre <http://whodc.mednet.ru/>
 - -Electronic Library of Surgery <http://surgerylib.ru/>

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

1. The set of lectures on the course «**Local anesthesia and anesthesiology in dentistry**»
2. The laboratory workshop (if any).on the course «**Local anesthesia and anesthesiology in dentistry**»
3. The guidelines for writing a course paper / project (if any) on the course «**Local anesthesia and anesthesiology in dentistry**».
4.

* 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 -2, GPC -5, GPC -9, PC -1, PC -2, PC -3, PC 5) 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 of the Department
maxillofacial surgery
and surgical dentistry**

V.D. Trufanov

position, department

signature

name and surname

**Assistant of the Department
maxillofacial surgery
and surgical dentistry**

S.J. Hossain

position, department

signature

name and surname

**HEAD of the
Department
maxillofacial surgery
and surgical dentistry**

S.Yu. Ivanov

position, name of the department

signature

name and surname

**HEAD of Higher Education Program
Deputy Director MI RUDN
by specialty Dentistry**

S. N. Razumova

position, department

signature

name and surname