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Информация о владельце:
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Должность: Ректор
Дата подписания: 04.10.2024 14:01:50
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION OF HIGHER EDUCATION
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN UNIVERSITY**

INSTITUTE OF MEDICINE

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

COURSE SYLLABUS

Topographic anatomy and operative surgery of the head and neck
course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 DENTISTRY
field of studies / speciality code and title

The student's internship is implemented within the professional education programme of higher education:

DENTISTRY
higher education programme profile/specialisation title

2024-2025

1. COURSE GOAL(S)

The goal of the course is to equip students with the knowledge of topographic anatomy of specific areas, the clinical anatomy of internal organs, as well as the types, principles and techniques of basic surgical operations. Acquisition of practical skills in general operational techniques.

The purpose of mastering the discipline is the anatomical and surgical training of students necessary for subsequent work in clinical, primarily surgical, departments and subsequent independent activity.

The discipline consists of 3 sections and 12 topics and is aimed at studying the development of the theoretical foundations of topographic anatomy and operative surgery.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «Topographic anatomy and operative surgery of the head and neck» is aimed at the development of the following competences/competences in part: GPC-7, GPC-9.

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

COMPETENCE CODE	COMPETENCE DESCRIPTOR	COMPETENCE FORMATION INDICATORS (WITHIN THIS COURSE)
GPC-7	Being able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci 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-7.3. Providing emergency medical care to patients with conditions that pose a threat to the patient's life, including clinical death (cessation of the vital bodily functions (blood circulation and (or) breathing).
		GPC-7.4. Using drugs and medical products when providing emergency medical care.
GPC-9	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-9.3. Determining morpho-functional, physiological states and pathological processes of the human body.

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-7	Being able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction		Diseases of the head and neck; Implantology and reconstructive surgery of the oral cavity; General Surgery; Surgical diseases; Maxillofacial and gnathic surgery; Obstetrics; Disaster Medicine; Epidemiology; Medical rehabilitation; Emergency conditions in outpatient dental practice; Urgent conditions; General medical skills;
GPC-9.3	Determining morpho-functional, physiological states and pathological processes of the human body.	Histology, Embryology, Cytology - Oral Histology; Microbiology, virology - Microbiology of the oral cavity; Normal physiology, physiology of the maxillofacial region; Biological Chemistry - Biochemistry of the oral cavity; Human Anatomy - Anatomy of the head and neck;	Pediatric Dentistry; Diseases of the head and neck; Implantology and reconstructive surgery of the oral cavity; Local anesthesia and anesthesiology in dentistry; Orthodontics and pediatric prosthetics; Oral Surgery; Maxillofacial and gnathic surgery; Obstetrics; Pathophysiology - Pathophysiology of the head and neck; Forensic medicine; Medical rehabilitation; Radiation diagnostics; Pathological anatomy - Pathology of the head and neck; Ophthalmology;

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course «**Topographic anatomy and operative surgery of the head and neck**» is 3 credits (108academic 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			
		4			
<i>CONTACT ACADEMIC HOURS</i>	54	54			
INCLUDING:					
LECTURES (LC)					
LAB WORK (LW)	54	54			
SEMINARS (WORKSHOPS/TUTORIALS) (S)	0	0			
<i>SELF-STUDIES</i>	36	36			
<i>EVALUATION AND ASSESSMENT (EXAM/PASSING/FAILING GRADE)</i>	18	18			

TYPE OF ACADEMIC ACTIVITIES		TOTAL ACADEMIC HOURS	SEMESTERS/TRAINING MODULES			
			4			
COURSE WORKLOAD	ACADEMIC HOURS	108	108			
	CREDITS	3	3			

* 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. Topographic anatomy of the head	Topic 1.1. Theoretical foundations of topographic anatomy. Topographic anatomy and operative surgery as an educational discipline and its place in the training of doctors. Applied anatomy and its main types. Fascias and cellular spaces of the face, and their clinical value.	LW
	Topic 1.2. Topographic anatomy of the cranial part of the head. Borders, areas and regions. External landmarks. Topographic anatomy of the cerebral part of the head. Fronto-parietal-occipital, temporal regions, the area of the mastoid process. Brain. Meningeas of the brain and intermeningeal spaces. Sinuses of the dura mater. Blood supply to the brain. Features of arterial blood supply and venous outflow of the head.	LW
	Topic 1.3. Topographic anatomy of the facial part of the head. Borders, division into regions. Layers. Blood vessels and nerves, lymphatic drainage. Anterior face region. The area of the orbit. Infraorbital and zygomatic areas. Nose area. External nose. Nasal cavity. Paranasal (accessorial) sinuses. Pathways of pus spreading at maxillitis and sinusitis.	LW
	Topic 1.4. Topographic anatomy of the mouth region. Borders and parts of the region. Surgical anatomy of the upper and lower lips. Oral cavity. The vestibule of the mouth. Teeth, periodont, parodont, gums. The hard palate, soft palate, tongue and the sublingual space. The bottom of the oral cavity: the muscles, cellular tissue gaps and spaces. Topographic-anatomical substantiation of anesthesia in maxillo-facial surgery (infiltration, extra- and intraoral, conduction anesthesia during operations on the maxillo-dental segment, the teeth, formations of the oral cavity).	LW
	Topic 1.5. Topographic anatomy of the lateral superficial face region. External landmarks. The borders. Layers. Surgical anatomy of the facial nerve and its branches. Buccal region. Fat body of the cheek. Parotid-masseteric region. Surgical anatomy	LW

	of the parotid gland and its excretory duct. Surgical anatomy of the temporomandibular joint.	
	Topic 1.6. Topographic anatomy of the deep lateral region of the face. Borders. Temporo-ptyergoid, interptyergoid, parapharyngeal, retropharyngeal spaces and their contents. Pterygoid venous plexus and its connections with the facial veins and cavernous sinus. Maxillary artery and its branches. Mandibular branch of the trigeminal nerve and its branches. Lymph nodes area. Cellular spaces and ways of spreading purulent leaks.	LW
Module 2. Topographic anatomy of the neck	Tema 2.1. Division into areas, regions and triangles. Fascia and cellular spaces of the neck. Connections of the neck cellular spaces with cellular spaces of the head and thorax. The median area of the neck. The submandibular and carotid triangles. Surgical anatomy of the submandibular salivary gland. The submandibular and omotracheal triangles.	LW
	Topic 2.2. Sterno-claido-mastoid region. Scaleno-vertebral triangle. The lateral neck region. The topography of the subclavian artery and vein, the brachial plexus. Antescalene and interscalene spaces. Surgical anatomy of: larynx, trachea, pharynx, cervical esophagus and thyroid gland.	LW
Module 3. Operative surgery of the head and neck	Topic 3.1. Operative surgery: content and methods of study. The basics of the doctrine of surgery. Modern trends and prospects of operative surgery. Preparation for surgery and anesthesia. General surgical technique. Surgical instruments. Basic operational techniques: separation of tissues, stop bleeding, put on and removal of skin nodes sutures, tying surgical knots.	LW
	Topic 3.2. Operations on the head. Primary surgical treatment of the head wounds. Trepanation. Trepanation of mastoid procesus. Incisions at parotiditis. Restorative and reconstructive operations in malformations of the lips, palate. Incisions in phlegmon of the mouth floor.	LW
	Topic 3.3. Operations on the neck. Primary surgical treatment of neck wounds. Incisions in phlegmon of the neck. Tracheostomy. Conicotomy. Operations on the thyroid gland.	LW
	Topic 3.4. Organ and tissue transplantation. Types of transplantation. Features of organ transplant surgery. The main problems and prospects for the development of transplantology.	LW

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialized educational/laboratory equipment, software and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab-work № 2 (234)	Classroom for workshops or lab work, tutorials, interim and mid-term assessment, equipped with a set of professional medical tables, anatomical, plastinated and wet anatomical materials and multimedia projectors.	List of visual anatomical posters, tables, models, bas-reliefs. plastinated materials (preserved (cadaveric) plastinated biomaterial); wet anatomical specimens (preserved (cadaveric) biomaterial in formalin solution in glass containers). Technology support: Epson EMP-S1 multimedia projector; a stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype.
Lab-work № 3 (235)	Classroom for seminars (workshops), group and individual consultations, interim and mid-term assessments, equipped with a set of specialized furniture; whiteboard (screen) and multimedia presentation equipment.	Set of specialized equipment: operating microscope "Carl Zeiss Jena"; endovideosurgical complex "Azimuth"; anatomical table "Anatomage" (interactive 3D-visualization, 3D-visualization table); sets of general and special surgical instruments; visual posters, tables, stands. Technology support: NEC VT59 multimedia projector; stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype. Simulators for operative surgery: human skin, vascular, intestinal simulator, suture kits, surgical instruments.
Seminar № 4, 5	Classroom for seminars (workshops), group and individual consultations, interim and midterm assessments, equipped with a set of specialized furniture; whiteboard (screen) and multimedia presentation equipment.	Set of specialized furniture: desk with faux stone top; portable shadowless lamp. Negatoscope H-48. Technology support: Epson EB-W29 multimedia projector, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype.

Type of academic activities	Classroom equipment	Specialized educational/laboratory equipment, software and materials for course study (if necessary)
Self-studies № 1 (232)	Room for students' self-study (it can also be used for seminars and consultations), equipped with a set of special furniture and a whiteboard (screen), and multimedia presentation equipment, with access to the E-learning environment.	Technology support: Epson EMP-S1 multimedia projector, internet access. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype. Simulators for operative surgery: human skin, vascular, intestinal simulator, suture kits, surgical instruments.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Topographic anatomy and operative surgery: textbook/A.V.Nikolaev.-Moscow.-Geotar-Media, 3-rd ed.-2021.-671 p.
2. Topographic anatomy and operative surgery: textbook/A.V.Nikolaev.-Moscow.-Geotar-Media/- 2021.-672 p.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=497916&idb=0
3. Netter's Clinical Anatomy/J.T. Hansen, F.H. Netter. - 4th Edition. - Philadelphia: Elsevier, 2019. - 588 p.
4. Gray's Anatomy for Students / R.L. Drake, W.A. Vogl, Mitchell Adam W.M. - Third Edition. - Philadelphia: Elsevier, 2015. - 1161 p.: il.

Additional reading:

Printed publications:

1. Topographic and anatomy of the human body: the teaching aid for foreign students/I.I.Kagan, S.N.Lyashchenko, A.O.Mironchev.- Moscow.-Geotar-Media, 2022.-256 p.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508879&idb=0
2. Topographic and clinical anatomy the human body/I.I.Kagan, S.N.Lyashchenko, A.O.Mironchev.- Moscow.-Geotar-Media, 2022.-253 p.
3. Anatomy for plastic surgery of the Face, Head and Neck/ Koichi Watanabe-Mohammadali M. Shoja, Marios Loukas, R.Shane Tubbs.-2016.-242 p.
[HTTPS://LIB.RUDN.RU/MEGAPRO/WEB/SEARCHRESULT/TOPAGE/1#:~:TEXT=HTTPS%3A/LIB.RUDN.RU%3A443/MEGAPRO/USERENTRY%3FACTION%3DRUDN_FINDDOC%26ID%3D513494%26IDB%3D0](https://lib.rudn.ru:443/MegaPro/Web/SearchResult/TopPage/1#:~:text=HTTPS%3A/LIB.RUDN.RU%3A443/MEGAPRO/USERENTRY%3FACTION%3DRUDN_FINDDOC%26ID%3D513494%26IDB%3D0)
4. Atlas of human anatomy/ F.H. Netter. - 6th ed.; International edition. - Philadelphia: Saunders: Elsevier, 2014. - 591 p.: il

Internet sources

1. ELS of RUDN University and third-party ELS, to which university students have access:
 - <http://lib.rudn.ru/MegaPro/Web>
 - <http://www.biblioclub.ru>
 - <http://www.biblio-online.ru>
 - www.studentlibrary.ru
2. Databases and search engines:
 - <http://docs.cntd.ru/>
 - <https://www.yandex.ru/>

- <https://www.google.ru/>
- <http://www.elsevierscience.ru/products/scopus/>

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

1. The set of lectures on the course «Topographic anatomy and operative surgery of the head and neck». _____
2. The laboratory workshop (if any) on the course _«Topographic anatomy and operative surgery of the head and neck». _____
3. The guidelines for writing a course paper / project (if any) on the course «Topographic anatomy and operative surgery of the head and neck».
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 (competences in part) 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:

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Department of Operative surgery
and Clinical anatomy named for
I.D. Kirpatovsky

position, department

signature

D.L. Titarov

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

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HEAD

OF HIGHER EDUCATION PROGRAMME:

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