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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector

_____ / Trankovskaya L.V./
"9" июня 2025

DISCIPLINE WORK PROGRAM

Б1.О.46 Topographic anatomy of human head and neck

(name of discipline)

Specialty	**31.05.03 Dentistry for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing health care in patients with dental pathology)
Mode of study	Full-time
Period of mastering the BEP	**5 years** (nominal length of study)
Institute	of Simulation and Training Technology

Vladivostok, 2025

Program of the discipline **Б1.О.46 Topographic anatomy of human head and neck** is based on:
1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 984 of Ministry of Science and Higher Education of the Russian Federation
dated August 12, 2020.

2) Curriculum for the 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology),
approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia
Report No. 8/24-25 dated March 31, 2025.

Work program for the discipline was developed by the writing team of the Institute of Simulation and Training Technology of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the institute Gnezdilov Valery Viktorovich.

Developed by:

Senior lecturer	Candidate of Medical Sciences	Korolev D.V.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.46 Topographic anatomy of human head and neck

The purpose of mastering the discipline is to acquire anatomical and surgical training necessary for subsequent classes in clinical departments and in independent medical activities.

Objectives of mastering the discipline:

1. Studying topographic anatomy of areas, organs and systems (paying special attention to the clinically important anatomical and functional features in children).
2. Learning how to apply acquired topographic and anatomical knowledge for substantiation of diagnosis, explanation of pathological processes, and achievement of diagnostic and surgical objectives.
3. Mastering basic operational actions and some typical surgical techniques.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.46 Topographic anatomy of human head and neck** is included in the mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), and is part of the 3rd and 4th semesters' curriculum.

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.46 Topographic anatomy of human head and neck** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

Name of competency category (group)	**Code and Name of competency of the graduate**	**Competency Indicators**
General Professional Competencies		
Basis of fundamental and natural science knowledge	GPC-9. Is able to assess morphofunctional status, physiological states, and pathological processes in the human body when working to achieve objectives of professional activity	CI.GPC-9_1- assesses the morphofunctional state of organs CI.GPC-9_2- distinguishes between pathological and physiological processes, identifies etiology of changes CI.GPC-9_3- provides diagnostic assessment of the identified changes

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.46 Topographic anatomy of human head and neck**:

Types of professional activity objectives

1. *Medical*

Kinds of professional activity objectives

1. *examination of the patient in order to make a diagnosis; prescribing pharmacological and non-pharmacological treatment and monitoring its efficiency and safety; implementation and monitoring of the effectiveness of individual medical rehabilitation programs; implementation of anti-epidemic and other measures of public health protection as well as monitoring their effectiveness; implementation of health and hygiene education measures in general population and professionals aimed at development of a healthy lifestyle*

3.3. Planned learning outcomes of mastering the discipline are represented by knowledge, skills, abilities and/or experience, characterize the stages of developing competencies and ensure achievement of the planned outcomes of mastering the basic educational program. Learning outcomes of a discipline are correlated with competency indicators.

4. SCOPE AND CONTENT OF THE DISCIPLINE

4.1. Scope of the Discipline and Types of Academic Work

Type of Academic Work		Total Hours	Semesters	
			3	4
			hours	hours
1		2	3	4
Classroom hours (total), including:		**68**	**22**	**46**
Lectures (L)		20	6	14
Practical classes (C)		48	16	32
Independent work of the student (IW), including:		**40**	**14**	**26**
Electronic educational resource (EER)		-	-	-
Preparing for classes (CP)		24	10	14
Preparing for continuous assessment (CAP)		8	4	4
Preparation for interim assessment (IAP)		6		6
Interim assessment		2		2
Type of interim assessment	pass/fail test (T)	T		T
	exam (E)			
TOTAL: TOTAL credit value	hrs.	**108**	**36**	**72**
	credits	**3**	**1**	**2**

4.2. Contents of the Discipline

4.2.1. Topics of Discipline Lectures and Academic Hours per Semester

No.	Lecture Topic	Hours
1	2	3
	Semester No. 3	
1.	Introductory lecture. Objectives and methods of studying topographic anatomy and operative surgery	2
2.	Suturing (connecting tissues) and surgical incisions (separating tissues): rules and technique. Bleeding arrest: temporary and complete. Fundamentals of surgical interventions on blood vessels	2
3.	Topographic anatomy of the cranial vault and base of the skull: frontal-parietal-occipital, temporal, mammillary regions	2
	Hours per semester total	**6**
	Semester No. 4	
1.	Topographic anatomy of the facial part of the head: buccal, parotid-masticatory, deep regions of the face	2
2.	Topography of the facial and trigeminal nerves. Aspects of the blood supply to the soft tissues of the skull	2
3.	Primary surgical debridement of facial wounds. Incisions for phlegmons of the maxillofacial region	2
4.	Blood supply of the brain. Sinuses of the dura mater. Cranio-cerebral topography. Primary surgical debridement of skull wounds. Craniotomy	2
5.	Topographic anatomy of the neck: division into triangles, fascia and fascial (potential) spaces. Topography of the lateral (posterior) triangle of the neck	2

6.	Topography of the medial (anterior) triangle of the neck. Topography of the neck organs: thyroid and parathyroid glands, larynx, trachea, pharynx, esophagus	2
7.	Vascular access and ligation of the carotid artery. Incisions for phlegmon of the neck. Vagosympathetic block according to Vishnevsky. Subclavian vein puncture and catheterization. Tracheostomy. Resection of the thyroid gland	2
	Hours per semester total	**14**

4.2.2. Topics of Discipline Practical Classes and Academic Hours per Semester

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 3	
1	Methods of studying topographic anatomy. Surgical instruments	3
2	Suturing (connecting tissues) and surgical incisions (separating tissues): rules and technique. Bleeding arrest: temporary and complete	3
3	Topographic anatomy of the cranial vault and base of the skull: frontal-parietal-occipital, temporal, mammillary regions	3
4	Topographic anatomy of the facial part of the head: buccal, parotid-masticatory, deep regions of the face	3
5	Topography of the facial and trigeminal nerves. Aspects of the blood supply to the soft tissues of the skull	4
	Hours per semester total	**16**
	Semester No. 4	
1	Primary surgical debridement of facial wounds. Incisions for phlegmons of the maxillofacial region	3
2	Blood supply of the brain. Sinuses of the dura mater. Cranio-cerebral topography	3
3	Primary surgical debridement of skull wounds. Craniotomy	3
4	Topographic anatomy of the neck: division into triangles, fascia and fascial (potential) spaces	3
5	Topography of the suprahyoid region, carotid triangle, lateral (posterior) triangle of the neck	3
6	Vascular-nerve bundle of the upper limb, prescalene and interscalene spaces	3
7	Topography of the neck organs: thyroid and parathyroid glands	3
8	Topography of the neck organs: larynx, trachea, pharynx, esophagus	3
9	Vascular access and ligation of the carotid artery. Incisions for phlegmon of the neck	3
10	Vagosympathetic block according to Vishnevsky. Subclavian vein puncture and catheterization. Tracheostomy. Resection of the thyroid gland	3
11	Final knowledge control: test, practicing skills (suturing skin, muscles, blood vessels, nerves, tendons; ligation of blood vessels)	2
	Hours per semester total	**32**

4.2.3. Independent Work of the Student

No.	Name of the Discipline Section	Type of IW	Total Hours
1	3	4	5
	Semester No. 3		
1	Methods of studying topographic anatomy. Surgical instruments	- working with reading materials - preparing for practical classes - preparing for assessment of initial knowledge (test format)	2

2	Suturing (connecting tissues) and surgical incisions (separating tissues): rules and technique. Bleeding arrest: temporary and complete	- working with reading materials - preparing for practical classes - preparing for continuous assessment	3
3	Topographic anatomy of the cranial vault: frontal-parietal-occipital, temporal, mammillary regions	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
4	Topographic anatomy of the base of the skull. Topographic anatomy of the facial part of the head: buccal, parotid-masticatory, deep regions of the face	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
5	Topography of the facial and trigeminal nerves. Aspects of the blood supply to the soft tissues of the skull	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
	Hours per semester total		**14**
	Semester No 4		
1	Primary surgical debridement of facial wounds. Incisions for phlegmons of the maxillofacial region	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	2
2	Blood supply of the brain. Sinuses of the dura mater. Cranio-cerebral topography	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
3	Primary surgical debridement of skull wounds. Craniotomy	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
4	Topographic anatomy of the neck: division into triangles, fascia and fascial (potential) spaces	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
5	Topography of the suprahyoid region, carotid triangle, lateral (posterior) triangle of the neck, vascular-nerve bundle of the upper limb, prescalene and interscalene spaces	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
6	Topography of the neck organs: thyroid and parathyroid glands, larynx, trachea, pharynx, esophagus	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	3
7	Vascular access and ligation of the carotid artery. Incisions for phlegmon of	- working with reading materials - preparing for practical classes	3

	the neck	- preparing for continuous assessment - working with biological materials, anatomical models, and simulators	
8	Vagosympathetic block according to Vishnevsky. Subclavian vein puncture and catheterization	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	2
9	Tracheostomy. Resection of the thyroid gland	- working with reading materials - preparing for practical classes - preparing for continuous assessment - working with biological materials, anatomical models, and simulators	2
10	Final knowledge control: test, practicing skills (suturing skin, muscles, blood vessels, nerves, tendons; ligation of blood vessels)	- working with reading materials - preparing for continuous assessment - preparing for interim assessment - preparing biological materials	2
	Hours per semester total		**26**

5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

5.1. Discipline Requirements for Educational Materials and Provided Information

Essential reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Topographic Anatomy and Operative Surgery: textbook	Nikolaev A.V.	Москва: ГЭОТАР-Медиа, 2019. - 672 с. - ISBN 978-5-9704-5300-1. - Текст : электронный // ЭБС "Консультант студента": [сайт]. - URL : https://www.studentlibrary.ru/book/ISBN9785970453001.html	Unlimited access

Supplementary reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Textbook of human anatomy for medical students. Vol 1	M. R. Sapin, L. L. Kolesnikov, D. B. Nikitjuk и др.	2-е изд. (эл.). - М.: Новая волна, 2019. - 416 с. - ISBN 9785786402101. - Текст : электронный // ЭБС "Букап": [сайт]. - URL : https://www.books-up.ru/ru/book/textbook-of-human-anatomy-for-medical-students-	Unlimited access

			vol-1-7421613/	
2	Textbook of human anatomy for medical students. Vol 2	L. L. Kolesnikov, D. B. Nikitjuk, M. R. Sapin и др.	2-е изд. (эл.). - М.: Новая волна, 2019. - 480 с. - ISBN 9785786402118. - Текст: электронный // ЭБС "Букап" : [сайт]. - URL : https://www.books-up.ru/ru/book/textbook-of-human-anatomy-for-medical-students-vol-2-7421930/	Unlimited access

Online resources

1. Electronic library system "Student Consultant" http://studmedlib.ru/
2. Electronic library system "University Library Online"http://www.biblioclub.ru/
3. Electronic library system "Urait" https://urait.ru/
4. Electronic library system "BookUp" https://www.books-up.ru/
5. Resources owned by the Library and Information Center of FSBEI HE PSMU of the Ministry of Health of Russia https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/

Online resources and respective user guides are available on the Library and Information Center website Library and Information Center — PSMU (tgmu.ru)

5.2. Discipline Requirements for Facilities and Resources

Information on the facility and resource availability and requirements of the discipline is available on the Facility and resource availability and requirements. FSBEI HE PSMU of the Ministry of Health of Russia (tgmu.ru)" page of the official website of the university.

5.3. List of Information Technologies, Information and Reference Systems, Licensed and Free Software (Including Domestically-developed Software):

1. PolycomTelepresence M100 Desktop Conferencing Application (Videoconference system)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. INDIGO online testing system
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C:University
10. GARANT system
11. MOODLE (Modular Object-Oriented Dynamic Learning Environment)

6. ASPECTS OF THE IMPLEMENTATION OF THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

6.1. Availability of Accessible Environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant; buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

6.2. Ensuring Compliance with General Requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

6.3. Availability of the Internal Policies and Procedures of FSBEI HE PSMU of the Ministry of Health of Russia to Students with Disabilities in a Format Accessible to Them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a format accessible to them.

6.4. Increase in the Time Limit of Interim Assessment for Students with Disabilities and Special Needs in Relation to the Established duration

Format of the interim assessment of academic performance within the scope of the discipline conducted for students with disabilities and special needs is selected taking into account individual characteristics of the students (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours.

7. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the **31.05.03 Dentistry for international students (in English)** specialty; list of the aforementioned personnel is available on the website of the educational organization.



8. TUTORIAL WORK

Type of tutorial work	Forms and approaches to tutorial work	Assessment criteria
Assistance in personal growth	Overt Talks and problem-centric debates aimed at promotion of healthy lifestyle. Participation in interdepartmental conferences aimed at formation of healthy lifestyle and development of skills necessary to preserve and improve health.	Portfolio
	Covert – creating atmosphere and infrastructure.	

	Developing a culture of healthy lifestyle, the ability to preserve and improve health. Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline.	
Civic position and values	Overt Conducting events that facilitate development of civil culture (roundtable discussions, discussions/debates, and talks). Short discussions on current significant events in case the latter occur.	Portfolio
	Covert Focusing on civic values-oriented position and legal awareness. Cultivating mindful social position during professional activity.	
Social values	Overt Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies. Highlighting ecology-related questions, environmental issues as a factor affecting population health and select population risks. Arranging events aimed at developing ethical norms and norms of conduct in sports community.	Portfolio
	Covert Identification in social structure during period of education and in professional activity.	