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Информация о владельце:
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Должность: И.о. ректора
Дата подписания: 21.07.2026 17:40:24
Уникальный программный ключ:
d59234ba928aea5c04c54eb9013e367220b6b2ae

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.16 Epidemiology

(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)
Department	of Epidemiology and Military Epidemiology

Vladivostok, 2025

Program of the discipline **Б1.О.16 Epidemiology** 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 Department of Epidemiology and Military Epidemiology of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the head of the department Candidate of Medical Sciences, Associate professor Skurikhina Yu.E.

Developed by:

Professor	Doctorate of Medical Science, professor	Martynova A.V.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.16 Epidemiology

The purpose of mastering the discipline is developing the ability to effectively organize anti-epidemic measures based on knowledge of the structure of the epidemic process, the epidemiology of the main infectious and non-infectious pathology that is significant in the incidence of dental pathology, as well as the skill of applying the epidemiological method to rationalize the prevention of dental pathology in the population.

Objectives of mastering the discipline:

1. Developing understanding of the basic concepts and modern epidemiology of infectious and non-infectious diseases;
2. Acquiring skills of collecting epidemiological anamnesis, including that related to dental diseases;
3. Learning how to apply epidemiological methods to analyze the structure of dental diseases;
4. Acquiring skills in analyzing modern specialized information, taking into account the concept of evidence-based medicine and its application in modern dentistry;
5. Learning to analyze scientific and other literature, prepare reviews of scientific literature on contemporary scientific issues, use methodology and epidemiology, participate in preparing reports and conducting discussions (seminars, symposia, etc.) on completed research, and comply with basic information security requirements,
6. Acquire knowledge of the specifics of dental care when organizing anti-epidemic measures in wartime and emergency situations.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.16 Epidemiology** 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) and is part of the 4th semester's curriculum.

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.16 Epidemiology** 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)	**Competency Description**	**Competency Indicators**
General Professional Competencies		
Information literacy	GPC-13. Is able to achieve objectives of professional activity using information and bibliographic resources, biomedical terminology, as well as information and communication technologies, while observing basic information security procedures	CI.GPC-13_1- searches for and exchanges information using professional bibliographic resources, as well as information and communication technologies CI.GPC-13_2- fluent in biomedical terminology CI.GPC-13_3- understands the information security policies and complies with them when working to achieve objectives of professional activity

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.16 Epidemiology**:

Types of professional activity objectives

1. *Managerial and administrative*

Kinds of professional activity objectives

1. *Management, administrative work*

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**
			4
			hours
1		2	3
Classroom hours (total), including:		**46**	**46**
Lectures (L)		14	14
Practical classes (C)		32	32
Independent work of the student (IW), including:		**26**	**26**
Electronic Educational Resource (EER)		10	10
Preparing for classes (CP)		8	8
Preparing for continuous assessment (CAP)			
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.	**72**	**72**
	credits	**2**	**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. 4	
1.	The subject and objectives of epidemiology	2
2.	The epidemiological method as a tool for evidence-based medicine	2
3.	Epidemiological studies. Types and classification	2
4.	Fundamentals of clinical epidemiology	2
5.	Modern methods of meta-analysis in dentistry. Systematic reviews	2
6.	Clinical epidemiology of non-communicable diseases in dentistry	2
7.	Epidemiological aspects of dental care in emergency situations	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. 4	
1	The subject and objectives of epidemiology. General epidemiology. Epidemiological process, structure, and mechanisms of infection transmission	6
2	Epidemiological method as a tool for evidence-based medicine. Epidemiological studies. Descriptive studies	6
3	Analytical studies in clinical epidemiology. Identification and assessment of risk factors for the emergence and spread of dental pathology	6
4	Methods of data analysis based on the principles of evidence-based medicine. Working with systematic reviews. Meta-analysis in dentistry	6
5	Methods of epidemiological studies of non-infectious pathologies of oncological and allergic etiology	4
6	Epidemiological aspects of dental care in wartime and emergency situations. Epidemiological safety. Infections associated with medical care in dentistry	2
7	Final class session. Interim assessment	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. 4		
1	The subject and objectives of epidemiology. General epidemiology. Epidemiological process, structure, and mechanisms of infection transmission	Preparing for classes (1 h.)	1
2	Epidemiological method as a tool for evidence-based medicine. Epidemiological studies	Preparing for classes (1 h.)	1
3	Epidemiological research in dentistry	Preparing for classes (1 h.) Preparing an essay (3 hrs.) Preparing slides presentations (2 hrs.)	6
4	Clinical epidemiology: fundamentals, goals, objectives, and methods. Analytical research	Preparing for classes (1 h.) Preparing an essay (3 hrs.) Preparing slides presentations (2 hrs.)	6
5	Clinical epidemiology: working with evidence-based information in dentistry	Preparing for classes (1 h.)	1
6	Clinical epidemiology of non-infectious dental pathologies	Preparing for classes (1 h.) Working with scientific literature (report) (5 hrs.) Preparing an abstract of the report (2 hrs.)	8
7	Epidemiological aspects of dental care in wartime and emergency situations. Epidemiological aspects of dental care in emergency situations	Preparing for classes (1 h.)	1
8	Preparation for interim assessment (IAP)		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	Obshchaya epidemiologiya s osnovami dokazatel'noy meditsiny. Rukovodstvo k prakticheskim zanyatiyam /	Edited by V. I. Pokrovsky, N. I. Briko.	M.: GEOTAR-Media, 2010.-400 p.	15
2	Gospital'naya epidemiologiya. Rukovodstvo k prakticheskim zanyatiyam [Elektronnyy resurs]	Edited by L. P. Zueva - M.	GEOTAR-Media, 2015. - 416 p. URL: http://www.studentlibrary.ru/	Unlimited access
3	Infectious diseases and epidemiology [Electronic resource]: textbook	Pokrovsky V. I., Pak S. G., Briko N. I.	3rd ed., rev. and additional - M.: GEOTAR-Media, 2016. - 1008 p. URL: http://www.studentlibrary.ru/	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	Infectious Diseases: An Atlas-Manual. [Electronic resource]	V. F. Uchaikin, F. S. Kharlamova, O. V. Shamsheva	M.: GEOTAR-Media, 2010. - 384 p. : ill. URL: http://www.studmedlib.ru	Unlimited access
2	Epidemiology of Infectious Diseases: A Textbook [Electronic resource]	Uchaikin, V. F., N. D. Yushchuk	M.: GEOTAR-Media, 2014. - 496 p. : ill. URL: http://www.studmedlib.ru	Unlimited access
3	Briko, N. I. Epidemiology: A Textbook	N. I. Briko, V. I. Pokrovsky	M: GEOTAR-Media, 2017. 368 p. Text: electronic // EBS "Student Consultant": [website]. - URL: https://www.studentlibrary.ru/book/ISBN9785970436653.html (access date: 02/14/2021). - Access mode: by subscription	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 Б1.О.16 Epidemiology 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. Б1.О.16 Epidemiology 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 Б1.О.16 Epidemiology 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 Б1.О.16 Epidemiology	

	Focusing on civic values-oriented position and legal awareness. Cultivating mindful social position during professional activity.	
Social values	Overt Б1.О.16 Epidemiology 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 Б1.О.16 Epidemiology Identification in social structure during period of education and in professional activity.	