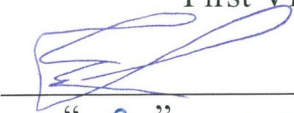


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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector

 / Trankovskaya L.V./
“ 9 ” month 2025

DISCIPLINE WORK PROGRAM

Б1.О.38 Oncology, radiation therapy

(name of discipline)

Specialty

**31.05.01 General Medicine
for international students (in English)**
(code, name)

Degree

Specialist's degree

Profile

02 "Healthcare" (in the field of
providing primary health care to the
population in medical organizations:
polyclinics, outpatient clinics,
inpatient/outpatient facilities of the
municipal health care system)

Mode of study

Full-time

Period of mastering the BEP

6 years
(nominal length of study)

Institute

of Surgery

Program of the discipline **Б1.О.38 Oncology, radiation therapy** is based on:

1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), 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 Surgery of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the institute, Doctor of Medical Sciences, Professor Kostiv E.P.

Developed by:

Professor	Doctor of Medical Sciences	Nevozhai V.I.
_____ (position held)	_____ (academic degree, academic title)	_____ (full name)
Professor	Doctor of Medical Sciences	Apanasevich V.I.
_____ (position held)	_____ (academic degree, academic title)	_____ (full name)
Assistant		Gulyan I.S.
_____ (position held)	_____ (academic degree, academic title)	_____ (full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering B1.O.38 Oncology, radiation therapy

The purpose of mastering the discipline is to acquire knowledge necessary to provide medical aid to patients; knowledge of etiology and pathogenesis, patterns of development of the main diseases in oncology, aspects of their clinical progression; developing of the mindset of a doctor, necessary for diagnosis, treatment, and prevention of oncology.

Objectives of mastering the discipline:

1. Consolidate acquired knowledge of medical ethics and oncological deontology;
2. Examine the principles of forming oncological risk groups;
3. Acquire and reinforce knowledge of symptoms and syndromes of development and progression of oncology of the main localizations;
4. Examine and master the physical examination method in oncology;
5. Master the algorithm of preliminary diagnosis, verification of the diagnosis, and differential diagnostics of the main forms of malign lesions;
6. Learn about modern treatment methods in oncology;
7. Examine and analyse the causes of neglect of malign lesions.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **B1.O.38 Oncology, radiation therapy** is included in the Mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), and is part of the 9th semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.O.38 Oncology, radiation therapy** 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) / Labor function	Code and Name of competency of the graduate	Competency Indicators
General Professional Competencies		
Etiology and pathogenesis	GPC-5. 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-5 ₁ - assesses the morphofunctional state based on the acquired knowledge CI.GPC-5 ₂ - distinguishes between pathological and physiological processes, identifies etiology of changes CI.GPC-5 ₃ - provides diagnostic assessment of the identified changes
Professional Competencies		
A/05.7 Implementation of disease prevention measures for the adult population groups based on age and health status, as well as health and hygiene education of the population and monitoring their effectiveness	PC-8 Ability and readiness to perform preventive medical examinations, periodic health examination and follow-up care	CI.PC-8 ₁ - has a grasp of periodic health examination and follow-up care procedures, medical examinations aimed at identifying pathological conditions, diseases and risk factors; CI.PC-8 ₂ - is able to perform periodic health examinations and follow-up care, medical examinations aimed at identifying pathological conditions, diseases and risk factors; CI.PC-8 ₃ - has a grasp of methods population health status assessment of various sex and age groups, as well as methods of implementing primary specific and nonspecific disease prevention measures,

		periodic health examinations and follow-up care
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3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.O.38 Oncology, radiation therapy**:

Types of professional activity objectives

1. *Medical*

Kinds of professional activity objectives

1. *Diagnostics*

2. *Treatment*

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
			9
			hours
1		2	3
Classroom hours (total), including:		72	72
Lectures (L)		20	20
Practical classes (C)		52	52
Independent work of the student (IW), including:		36	36
<i>Preparing for classes (CP)</i>		24	24
<i>Writing a medical record</i>		4	4
<i>Writing library-research papers</i>		6	6
Interim assessment		2	2
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	108	108
	credits	3	3

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. 9		
1.	Carcinogenesis. Modern topics in oncology	2
2.	Methods of diagnosing malign lesions. Treatment principles in patients with malign lesions	4
3.	Physical and biological basis of radiation therapy. Planning and methods of radiation therapy	2
4.	Esophageal cancer. Lung cancer	4
5.	Stomach cancer. Colorectal cancer	2

6.	Malign skin lesions. Tumors of the head and neck	2
7.	Benign and malign lesions of the mammary gland	2
8.	Tumors of the bones and soft tissues. Lymphadenomas	2
	Hours per semester total	20

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

No.	Practical Class Topic	Hours
1	2	3
Semester No. 9		
1	Carcinogenesis. Modern topics in oncology	4
2	Methods of diagnosing malign lesions	4
3	Physical and biological basis of radiation therapy	4
4	Planning and methods of radiation therapy	4
5	Treatment principles in patients with malign lesions	4
6	Esophageal cancer. Prevention principles. Screening. Diagnostics. Classification. Treatment principles. Stomach cancer. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
7	Colorectal cancer. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
8	Malign skin lesions. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
9	Benign and malign lesions of the mammary gland. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
10	Lung cancer. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
11	Tumors of the head and neck. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
12	Lymphadenomas. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
13	Tumors of the bones and soft tissues. Prevention principles. Screening. Diagnostics. Classification. Treatment principles	4
	Hours per semester total	52

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. 9			
1	General aspects of oncology	Supervised patient management Working with medical records Presentation of a case (medical record) during practical class Working with case studies Preparing for practical classes Writing library-research papers	6
2	Medical radiology		4
3	Benign and malign lesions of the mammary gland		4
4	Lesions of the thoracic cavity		6
5	Lesions of the gastrointestinal tract		4
6	Lesions of the head and neck		4
7	Lesions of the skin, soft tissues, and musculoskeletal system		4
8	Lymphadenomas		4
	Hours per semester total		36

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	Surgical diseases: in 2 vol. Vol. 1. : textbook [English electronic textbook]	N.V. Merzlikin, N.A. Brazhnikova, B.I. Alperovich, V.F. Tskhai	М. : ГЭОТАР-Медиа, 2021. - 360 с. - ЭБС «Консультант студента»	1
2	General surgery : textbook [English electronic textbook]	V. K. Gostishchev	М. : GEOTAR-Media, 2021 ЭБС «Консультант студента»	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	Familial breast cancer : classification, care and managing breast cancer and related risks in people with a family history of breast cancer [English electronic textbook]		Москва : ГЭОТАР-Медиа, . - Текст : электронный // ЭБС "Консультант студента"	Unlimited access
2	Integrative medicine for pain management in oncology [English electronic textbook]		Москва : ГЭОТАР-Медиа, . - Текст : электронный // ЭБС "Консультант студента"	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 \(tgmu.ru\)](http://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 31.05.01 General Medicine 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.	Portfolio
	Covert Identification in social structure during period of education and in professional activity.	