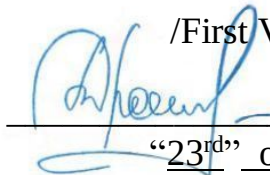


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Должность: И.о. ректора
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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY

/First Vice-Rector



/ Dvoynikova E.R./

“23rd” of June 2026

DISCIPLINE WORK PROGRAM

B1.C.33 Phthisiology

(name of discipline)

Specialty

31.05.01 General Medicine (English-language program)

(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 Therapy (Internal Medicine) and Instrumental Diagnostics

Program of the discipline **B1.C.33 Phthisiology** 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 (English-language program), 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. 1-7/25-26 dated March 27, 2026.

Work program for the discipline was developed by the writing team of the Institute of Therapy (Internal Medicine) and Instrumental Diagnostics 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 Nevzorova V.A.

Developed by:

<u>Director of the Institute</u> (position held)	<u>Doctor of Medical Sciences, Professor</u> (academic degree, academic title)	<u>Nevzorova V.A.</u> (full name)
<u>Professor</u> (position held)	<u>Doctor of Medical Sciences, Professor</u> (academic degree, academic title)	<u>Motanova L.N.</u> (full name)
<u>Assistant</u> (position held)	<u>-</u> (academic degree, academic title)	<u>Lavrenyuk V.V</u> (full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering B1.C.33 Phthisiology

The purpose of mastering the discipline is to achieve necessary general professional and professional competencies necessary to detect, diagnose, conduct treatment and prevention of tuberculosis in modern epidemiological conditions.

Objectives of mastering the discipline:

1. Developing knowledge and skills in the detection, diagnosis and treatment of tuberculosis
2. Studying the theoretical basis, etiology, pathogenesis and epidemiology of tuberculosis
3. Acquiring knowledge of diagnostic methods, including clinical, laboratory, and radiological methods
4. Studying methods of preventing the occurrence of tuberculosis and organizing anti-epidemic measures
5. Developing skills for differential diagnosis of tuberculosis with other diseases\
6. Learning to organize comprehensive measures for the rehabilitation of patients and follow-up care
7. Developing skills of a healthy lifestyle, work organization, safety regulations and monitoring compliance with environmental safety

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **B1.C.33 Phthisiology** is included in the Compulsory part of the basic educational program for the specialty 31.05.01 General Medicine (English-language program), 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 11th and 12th semesters' curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.C.33 Phthisiology** 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		
Instrumental Diagnostics	GPC-4. Able to use medical devices included in the healthcare guidelines, as well as perform medical examination to make a diagnosis	AI.GPC-4 ₁ - uses medical devices for diagnosis, treatment and rehabilitation in accordance with healthcare guidelines AI.GPC-4 ₂ - performs medical examination of a patient using basic and general clinical skills, laboratory tests and diagnostic procedures AI.GPC-4 ₃ - evaluates medical examination results in order to make a diagnosis
Treatment of diseases and conditions	GPC-7. Able to prescribe treatment and monitor its efficacy and safety	AI.GPC-7 ₁ - prescribes treatment, selects dosage of medications and treatment regimens in accordance with existing guidelines with no outside help AI.GPC-7 ₂ - monitors the efficacy of treatment and adjusts the medication regimen if necessary AI.GPC-7 ₃ - considers contraindications when prescribing treatment and identifies adverse drug reaction

Medical rehabilitation	GPC-8. Able to implement and monitor medical rehabilitation of a patient, including implementation of individual rehabilitation programs and habilitation programs for people with disabilities, as well as assess ability to work of a patient	AI.GPC-8 ₁ - decides on the type of medical rehabilitation AI.GPC-8 ₂ - evaluates the results of rehabilitation measures, selects methods of monitoring the implementation of individual rehabilitation programs and habilitation programs for people with disabilities AI.GPC-8 ₃ - assesses the patient's ability to work, determines the duration of temporary disability
Professional Competencies		
A/02.7 Examination of the patient in order to make a diagnosis	PC-3 Ability and readiness to collect and analyze complaints that a patient presents with, anamnestic data, examination results, results of laboratory and instrumental tests, biopsy and other studies in order to identify patient's condition or establish the presence or absence of a disease	AI.PC-3 ₁ - collects patient's anamnesis, conducts examination, palpation, percussion and auscultation in healthy people with noninfectious and infectious diseases of internal organs, provides a diagnostic assessment of the identified symptoms, diagnoses syndromes; AI.PC-3 ₂ - identifies pathogenetic and pathomorphological features of diseases of internal organs; AI.PC-3 ₃ - selects required additional diagnostic methods, evaluates their results in order to recognize patient's condition, establish the presence or absence of the disease
	PC-4 Ability and readiness to identify main pathological conditions, syndromes, symptoms of diseases, specific diseases of a patient in accordance with International Statistical Classification of Diseases and Related Health Problems	AI.PC-4 ₁ - diagnoses syndromes and makes preliminary diagnoses based on the results of a physical examination in noninfectious and infectious diseases of internal organs; AI.PC-4 ₂ - conducts differential diagnosis of noninfectious and infectious diseases of internal organs, assesses the prognosis, formulates the need for additional counseling by doctors of different specialties; AI.PC-4 ₃ - makes the final diagnosis and formats it in accordance with the ICD
A/03.7 Prescribing treatment and monitoring its efficiency and safety	PC-6 Ability and readiness to select a type of patient routing based on current medical care procedures	AI.PC-6 ₁ - has a grasp of the distribution of patient flows depending on the patient's reason for seeking medical help; AI.PC-6 ₂ - identifies indications for referral of patients for specialized and high-tech medical care
A/06.7 Medical records management, management of activities of subordinate medical personnel	PC-9 Ability and readiness to monitor fulfillment of job duties by subordinate medical personnel and use information and communication technologies in their professional activities	AI.PC-9 ₁ -has a grasp of district nurse duties and duties of other subordinate medical personnel; AI.PC-9 ₂ - knows the principles patient care management in medical organizations that provide medical care on an outpatient basis, including at during house calls

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.C.33 Phthiology**:

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	
			11	12
			hours	hours
1		2	3	4
Classroom hours (total), including:		84	42	42
Lectures (L)		28	14	14
Practical classes (C)		56	28	28
Independent work of the student (IW), including:		60	30	30
<i>Preparing for classes (CP)</i>		36	18	18
<i>Preparing for continuous assessment (CAP)</i>		12	6	6
<i>Preparation for interim assessment (IAP)</i>		12	6	6
Interim assessment		36		36
Type of interim assessment	pass/fail test (T)			
	exam (E)	E		E
TOTAL: TOTAL credit value	hrs.	180	72	108
	credits	5	2	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. 11		
1.	History of phthisiology. Etiology and epidemiology of tuberculosis, key indicators. Epidemiology of tuberculosis in Primorsky Krai. Questions of deontology in phthisiology.	2
2.	Etiology and pathogenesis of tuberculosis. Causative agent of tuberculosis, properties of Mycobacterium tuberculosis	2
3.	Allergy and immunity in tuberculosis	2
4.	Modern methods of identifying and diagnosing tuberculosis: laboratory, immunological, instrumental, tuberculindiagnosics. Classification of tuberculosis. Formulation of the diagnosis	2
5.	Primary tuberculosis: pathomorphology, clinical manifestation, diagnosis. Aspects of therapeutic and preventive measures among the child population. Preventive treatment	2

6.	Primary tuberculosis complex. Tuberculosis of the thoracic lymph nodes: clinical manifestation, diagnosis. Specifics of treatment of primary tuberculosis	2
7.	Disseminated pulmonary tuberculosis. Tuberculosis meningitis. Pathogenesis, clinical manifestation, diagnosis, differential diagnosis	2
	Hours per semester total	14
Semester No. 12		
1.	Focal pulmonary tuberculosis: pathogenesis, clinical manifestation, diagnosis	2
2.	Infiltrative pulmonary tuberculosis. Pathogenesis, clinical manifestation, diagnosis, treatment	2
3.	Chronic destructive forms of pulmonary tuberculosis. Lung destruction as a complication of tuberculosis infection	2
4.	Extrapulmonary tuberculosis	2
5.	Basic methods and principles of treatment of tuberculosis: etiotropic and pathogenetic therapy, collapse therapy and surgical methods of treatment	2
6.	Tuberculosis sanatorium, structure, at-risk groups for respiratory tuberculosis, follow-up care and observation. Organization of early detection of tuberculosis in medical institutions	2
7.	Prevention of tuberculosis: social, specific, sanitary	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. 11		
1	Control and correction of knowledge in basic disciplines. Tuberculosis sanatori, structure, tasks	2
2	Sanitary and epidemiological regime in TB facilities. Deontology in phthisiology. Patient examination methods in phthisiology	2
3	Clinical classification of tuberculosis, formation of a clinical diagnosis of a patient with tuberculosis	2
4	Diagnosis of tuberculosis: laboratory, immunological, tuberculindiagnosics	2
5	X-ray, instrumental, functional methods of tuberculosis identification	2
6	Basic principles of interpretation of chest X-ray	2
7	Main clinical symptoms of tuberculosis	2
8	Features of writing the medical history of a tuberculosis patient	2
9	Primary tuberculosis: pathogenesis, clinical manifestation, diagnostics, treatment	2
10	Differential diagnosis of tuberculosis	2
11	Differential diagnosis of tuberculosis (Part 2)	2
12	Miliary tuberculosis, disseminated pulmonary tuberculosis: pathogenesis, clinical manifestation, diagnosis, variants of progression	2
13	Focal tuberculosis of the lungs, variants of progression, pathogenesis, clinical manifestation, diagnosis, determination of the activity of fibro-focal tuberculosis of the lungs	2
14	Infiltrative pulmonary tuberculosis	2
	Hours per semester total	28
Semester No. 12		
1	Aspects of progression and outcomes of various types of infiltrates in infiltrative tuberculosis	2
2	Pulmonary tuberculosis: diagnosis, clinical manifestation, treatment	2
3	Chronic destructive forms of pulmonary tuberculosis, pathogenesis of cavern	2

	formation	
4	Diagnosis, clinical manifestation, specifics of treatment of chronic tuberculosis	2
5	Complications of respiratory tuberculosis	2
6	Tuberculous pleurisy and extrapulmonary forms of tuberculosis (osteoarticular, urogenital). Clinical manifestation, modern methods of diagnosis and treatment	2
7	Combinations of anti-tuberculosis medications, main regimens and stages of treatment of patients. Indications for specific treatment	2
8	General principles and methods of treatment of respiratory tuberculosis	2
9	Combinations of anti-tuberculosis medications, main regimens and stages of treatment of patients. Indications for specific treatment	2
10	Surgical methods and health resort treatment	2
11	Basic principles of emergency conditions in phthisiology	2
12	Tuberculosis prevention: social, specific, and sanitary. Indications for the appointment of preventive treatment. Rehabilitation of "hotbeds of tuberculosis infection" and workplaces of tuberculosis patients	2
13	Work of the general medical network for early detection and prevention of tuberculosis	2
14	Groups of people with an increased risk of tuberculosis, methods of examination of these individuals and methods of preventive measures	2
	Hours per semester total	28

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. 11			
1	Organization of tuberculosis care	Selecting and working with literary sources, working with lecture materials, working with subject guides for individual work, preparing for continuous and interim assessment	30
	Hours per semester total		30
Semester No. 12			
3	Organization of tuberculosis care	Selecting and working with literary sources, working with lecture materials, working with subject guides for individual work, preparing for continuous and interim assessment	30
	Hours per semester total		30

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	Phthisiology	MoscowAnd Perelman, I.V.	Bogadelnikova GEOTAR-Media, 2020. -448 p.: ill. (EBS)	1
2	Tuberculosis	Koshechkin V.A.	GEOTAR-Media, 2017.-302 p	1
3	Examination of a pulmonological patient: from clinical symptom to diagnosis	Dementieva M.P.	Vladivostok: Meditsina Dv, 2019-522009-52 p	95
4	Epidemiologicheskii nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook] / VSMU	Tsvetkova O.M., Skurikhina Yu.E.	Vladivostok, Meditsina Dv, 2018 2018	95
5	Pulmonology, 2025-2026: clinical recommendations	Chief Editor. Chuchalin A.G.	Moscow: GEOTAR- Media, 2017, 240 p	28

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	Tuberculosis in children	L. A. Mitinskaya	RAMS, Center. Scientificresearch. Institute of Tuberculosis. Moscow: B.I. 2024. -196 p	5
2	Order of the Ministry of Health of the Russian Federation No. 109 of March 21, 2023. "On improving anti-tuberculosis measures in the Russian Federation"		2023, Moscow	2
3	Guidelines for pulmonary and extrapulmonary tuberculosis	Edited by Levashev Yu. N., Repin Yu. M.	Saint Petersburg: ELBI- SPb, 2016. - 516 p	2
4	Tuberculosis. Features of the course, possibilities of pharmacotherapy: a textbook for doctors /St. Petersburg StateMedical University. I. I. Mechnikov	Academy of Sciences Under the editorship of A. K. Ivanov	St. Petersburg: Tactician- Studio, 2019. -88 p	1

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 \(tgmu.ru\)](http://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.	