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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

Director of the Institute of Therapy (Internal
Medicine) and Instrumental Diagnostics

_____/ Nevzorova V.A
"2nd" of April 2026

SUBJECT GUIDE FOR TEACHERS AND STUDENTS FOR

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

Subject guide for teachers and students for **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.

Subject guide for teachers and students for **B1.C.33 Phthisiology** 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:

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1. GENERAL PROVISIONS

Subject guide for **B1.C.33 Phthisiology** is a set of recommendations and explanations that facilitate to optimal organization of mastering this discipline.

Regular analysis of lecture materials and work with end-of-the-text questions are necessary for better understanding of the material and systematization of knowledge of **B1.C.33 Phthisiology**. Particular attention should be paid to emerging questions, confusing terms, and conflicts of points of view during the independent review of the lecture material. If necessary, a student should contact the teacher for advice. Lecture material streamlines students' thinking, while practical classes provide deeper insight into the material of the discipline.

Special attention should be paid to the content of the main provisions and conclusions, explanation of phenomena and facts, and clarification of the practical application of theoretic aspects of topic when preparing for a practical class. During this process students should aim to understand and remember the main provisions of the material under consideration, examples provided, as well as understand the illustrative material.

Collections of assessment tools are used to organize independent study of topics of **B1.C.33 Phthisiology**.

Independent work of students is facilitated by the following:

1. availability and accessibility of the necessary educational and reference material;
2. a system of regular quality control of completed independent work;
3. availability of teacher's advice.

Subject guides for self-study are presented as literary sources. Subject guides for independent work of students include a list of library resources of the educational institution and other materials accessible to students.

Independent work is a type of in-person extracurricular work of teachers and students of **B1.C.33 Phthisiology**. Control of independent work is conducted by the leading teacher. Evaluation of independent work results is taken into account when conducting interim examination of students throughout the **B1.C.33 Phthisiology** course.

Continuous assessment during **B1.C.33 Phthisiology** course is implemented in order to check indicators of achieving competencies, to stimulate students' academic work, and improve methods of mastering new knowledge. Continuous assessment during **B1.C.33 Phthisiology** course is conducted during the semester to assess all types and sections of the academic discipline that encompass the competencies developed by the discipline: classroom questioning, conducting discussions, working with tests, preparing reports. Continuous assessment of students' knowledge and results of their preparation for practical classes is conducted during every class session.

Interim assessment aims to determine the level of mastery of competency indicators. It is conducted in the test format after the student has mastered all sections of **B1.C.33 Phthisiology** and takes into account learning outcomes for all types of student work over the entire period of mastering **B1.C.33 Phthisiology** course.

Time allotted for interim assessment is indicated in the schedule.

Assignments given during practical classes, as well as assignments aimed to prepare students for continuous and interim assessment, are included in the collection of assessment tools for **B1.C.33 Phthisiology**. If necessary, students should contact the teacher for advice. It is necessary to thoroughly think over questions that need clarification before seeking teacher's advice.

2. SUBJECT GUIDES FOR LECTURE CLASSES

Table 1. Subject Guides for **B1.C.33 Phthisiology** Lectures

Topic No.1 History of phthisiology. Etiology and epidemiology of tuberculosis, key indicators. Epidemiology of tuberculosis in Primorsky Krai. Questions of deontology in phthisiology.	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about history of phthisiology; 2. define etiology of tuberculosis; 3. examine methods in epidemiology of tuberculosis.	
Lecture plan, order of presentation of its sections: - History of phthisiology - Etiology of tuberculosis - Epidemiology of tuberculosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.2 Etiology and pathogenesis of tuberculosis. Causative agent of tuberculosis, properties of Mycobacterium tuberculosis	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about immunity against tuberculosis and non-specific resistance; 2. define immunity against tuberculosis and non-specific resistance; 3. examine methods of assessing immunity against tuberculosis.	
Lecture plan, order of presentation of its sections: - Immunity against tuberculosis - Non-specific resistance	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.3 Allergy and immunity in tuberculosis	
Duration of the lecture (in academic hours):	2

Purpose of the lecture: 1. tell students about allergy and immunity in tuberculosis; 2. define immunity against tuberculosis and non-specific resistance; 3. examine methods of assessing immunity against tuberculosis.	
Lecture plan, order of presentation of its sections: - Immunity against tuberculosis - Non-specific resistance	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.4 Modern methods of identifying and diagnosing tuberculosis: laboratory, immunological, instrumental, tuberculindiagnosics. Classification of tuberculosis. Formulation of the diagnosis	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about modern methods of identifying and diagnosing tuberculosis; 2. define clinical forms of tuberculosis; 3. examine modern methods of identifying and diagnosing tuberculosis.	
Lecture plan, order of presentation of its sections: - Modern methods of identifying and diagnosing tuberculosis - Classification of tuberculosis according to clinical guidelines	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.5 Primary tuberculosis: pathomorphology, clinical manifestation, diagnosis. Aspects of therapeutic and preventive measures among the child population. Preventive treatment	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about primary tuberculosis; 2. define forms of primary tuberculosis; 3. examine methods of diagnosing primary tuberculosis.	
Lecture plan, order of presentation of its sections:	

- Primary tuberculosis: pathomorphology, clinical manifestation, diagnosis - Preventive treatment	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskii nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.6 Primary tuberculosis complex. Tuberculosis of the thoracic lymph nodes: clinical manifestation, diagnosis. Specifics of treatment of primary tuberculosis	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about primary tuberculosis complex; 2. define forms of primary tuberculosis; 3. examine methods of diagnosing primary tuberculosis.	
Lecture plan, order of presentation of its sections: - Primary tuberculosis complex: clinical manifestation, diagnosis - Tuberculosis of the thoracic lymph nodes: clinical manifestation, diagnosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskii nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.7 Disseminated pulmonary tuberculosis. Tuberculosis meningitis. Pathogenesis, clinical manifestation, diagnosis, differential diagnosis	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about disseminated pulmonary tuberculosis; 2. define disseminated pulmonary tuberculosis; 3. examine methods of diagnosing disseminated pulmonary tuberculosis.	
Lecture plan, order of presentation of its sections: - Disseminated pulmonary tuberculosis: pathogenesis, clinical manifestation, diagnosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskii nadzor za tuberkulezom: uchebnoe posobie [Epidemiological	

surveillance of tuberculosis: a textbook]” Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018	
5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.8 Focal pulmonary tuberculosis: pathogenesis, clinical manifestation, diagnosis	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about focal pulmonary tuberculosis; 2. define forms secondary tuberculosis; 3. examine methods of diagnosing secondary tuberculosis.	
Lecture plan, order of presentation of its sections: - Focal pulmonary tuberculosis - Pathogenesis, clinical manifestation, diagnosis	
Recommended literature 1. “Phthisiology” M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. “Tuberculosis” Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. “Examination of a pulmonological patient: from clinical symptom to diagnosis” Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. “Epidemiologicheskii nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]” Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.9 Infiltrative pulmonary tuberculosis. Pathogenesis, clinical manifestation, diagnosis, treatment	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about infiltrative pulmonary tuberculosis; 2. define forms secondary tuberculosis; 3. examine methods of diagnosing secondary tuberculosis.	
Lecture plan, order of presentation of its sections: - Infiltrative pulmonary tuberculosis - Pathogenesis, clinical manifestation, diagnosis, treatment	
Recommended literature 1. “Phthisiology” M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. “Tuberculosis” Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. “Examination of a pulmonological patient: from clinical symptom to diagnosis” Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. “Epidemiologicheskii nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]” Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.10 Chronic destructive forms of pulmonary tuberculosis. Lung destruction as a complication of tuberculosis infection	
Duration of the lecture (in academic hours):	2

Purpose of the lecture: 1. tell students about destructive forms of pulmonary tuberculosis; 2. define destructive forms of pulmonary tuberculosis; 3. examine first aid in case of medical emergencies in patients with lung tuberculosis.	
Lecture plan, order of presentation of its sections: - Destructive forms of pulmonary tuberculosis - Medical emergencies in patients with lung tuberculosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.11 Extrapulmonary tuberculosis	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about extrapulmonary tuberculosis; 2. define forms of extrapulmonary tuberculosis; 3. examine methods of diagnosing extrapulmonary tuberculosis.	
Lecture plan, order of presentation of its sections: - Extrapulmonary tuberculosis - Pathogenesis - Clinical manifestation - Diagnosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.12 Basic methods and principles of treatment of tuberculosis: etiotropic and pathogenetic therapy, collapse therapy and surgical methods of treatment	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about basic methods and principles of treatment of tuberculosis; specifics of treating drug-resistant tuberculosis; 2. define anti-tuberculosis medication; 3. examine methods and principles of treatment of tuberculosis.	
Lecture plan, order of presentation of its sections:	

- Basic methods and principles of treatment of tuberculosis - Specifics of treating drug-resistant tuberculosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.13 Tuberculosis sanatorium, structure, at-risk groups for respiratory tuberculosis, follow-up care and observation. Organization of early detection of tuberculosis in medical institutions	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about tuberculosis sanatorium, structure, at-risk groups for respiratory tuberculosis, follow-up care and observation; organization of early detection of tuberculosis in medical institutions; 2. define tuberculosis sanatorium; 3. examine early detection of tuberculosis in medical institutions.	
Lecture plan, order of presentation of its sections: - Tuberculosis sanatorium, structure, at-risk groups for respiratory tuberculosis, follow-up care and observation - Organization of early detection of tuberculosis in medical institutions	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.14 Prevention of tuberculosis: social, specific, sanitary	
Duration of the lecture (in academic hours):	2
Purpose of the lecture: 1. tell students about principles of prevention of tuberculosis; 2. define types prevention of tuberculosis; 3. examine methods prevention of tuberculosis.	
Lecture plan, order of presentation of its sections: - Prevention of tuberculosis: social, specific, sanitary - Work in foci of tuberculosis	
Recommended literature 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill.	

2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p
3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p
4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018
5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p

3. SUBJECT GUIDES FOR PRACTICAL CLASSES

Table 2. Subject Guides for Practical **B1.C.33 Phthisiology** Classes

Topic No.1 Control and correction of knowledge in basic disciplines. Tuberculosis sanatorium, structure, tasks	
Duration of the practical class (in academic hours):	2
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline tuberculosis sanatorium, structure, tasks.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	
Recommended reading: 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.2 Sanitary and epidemiological regimen in TB facilities. Deontology in phthisiology. Patient examination methods in phthisiology	
Duration of the practical class (in academic hours):	2
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline sanitary and epidemiological regimen in TB facilities; 3. thoroughly go over aspects of deontology in phthisiology; 4. describe methods of patient examination methods in phthisiology.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	

Recommended reading:

1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill.
2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p
3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p
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5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p

Topic No.3 Clinical classification of tuberculosis, formation of a clinical diagnosis of a patient with tuberculosis

Duration of the practical class (in academic hours):

2

Purpose of the practical class:

1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology;
2. during the discussion, outline clinical classification of tuberculosis;
3. thoroughly go over formation of a clinical diagnosis of a patient with tuberculosis.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.

Independent work of the student: working with study materials.

Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.

Recommended reading:

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

Topic No.4 Diagnosis of tuberculosis: laboratory, immunological, tuberculindiagnosics

Duration of the practical class (in academic hours):

2

Purpose of the practical class:

1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology;
2. during the discussion, outline methods of diagnosing tuberculosis;
3. thoroughly go over laboratory and immunological methods, tuberculindiagnosics.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.

Independent work of the student: working with study materials.

Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.

Recommended reading:

1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill.

2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p
3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p
4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018
5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p

Topic No.5 X-ray, instrumental, functional methods of tuberculosis identification

Duration of the practical class (in academic hours):

2

Purpose of the practical class:

1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology;
2. during the discussion, outline X-ray, instrumental, functional methods of tuberculosis identification.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.

Independent work of the student: working with study materials.

Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.

Recommended reading:

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

Topic No.6 Basic principles of interpretation of chest X-ray

Duration of the practical class (in academic hours):

2

Purpose of the practical class:

1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology;
2. during the discussion, outline basic principles of interpretation of chest X-ray;
3. develop skills of interpretation of chest X-rays.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.

Independent work of the student: working with study materials.

Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.

Recommended reading:

1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill.
2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p
3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p

4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018
5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p

Topic No.7 Main clinical symptoms of tuberculosis

Duration of the practical class (in academic hours):

2

Purpose of the practical class:

1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology;
2. during the discussion, outline main clinical symptoms of tuberculosis.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.

Independent work of the student: working with study materials.

Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.

Recommended reading:

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

Topic No.8 Features of writing the medical history of a tuberculosis patient

Duration of the practical class (in academic hours):

2

Purpose of the practical class:

1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology;
2. during the discussion, outline features of writing the medical history of a tuberculosis patient;
3. develop skills of writing the medical history of a tuberculosis patient.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.

Independent work of the student: working with study materials.

Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.

Recommended reading:

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

Topic No.9 Primary tuberculosis: pathogenesis, clinical manifestation, diagnostics, treatment	
Duration of the practical class (in academic hours):	2
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline forms of primary tuberculosis; 3. thoroughly go over pathogenesis, clinical manifestation, diagnostics, treatment of primary tuberculosis.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	
Recommended reading: 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.10-11 Differential diagnosis of tuberculosis	
Duration of the practical class (in academic hours):	4
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline differential diagnosis of tuberculosis; 3. develop skills of conducting differential diagnosis of tuberculosis.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	
Recommended reading: 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.12 Miliary tuberculosis, disseminated pulmonary tuberculosis: pathogenesis, clinical manifestation, diagnosis, variants of progression	

Duration of the practical class (in academic hours):	2
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline miliary tuberculosis and disseminated pulmonary tuberculosis; 3. thoroughly go over pathogenesis, clinical manifestation, diagnosis, variants of progression of miliary tuberculosis and disseminated pulmonary tuberculosis.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	
Recommended reading: 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.13 Focal tuberculosis of the lungs, variants of progression, pathogenesis, clinical manifestation, diagnosis, determination of the activity of fibro-focal tuberculosis of the lungs	
Duration of the practical class (in academic hours):	2
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline forms of focal tuberculosis of the lungs; 3. thoroughly go over variants of progression, pathogenesis, clinical manifestation, diagnosis of focal tuberculosis of the lungs; 4. describe methods of determination of the activity of fibro-focal tuberculosis of the lungs.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	
Recommended reading: 1. "Phthisiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	
Topic No.14 Infiltrative pulmonary tuberculosis	

Duration of the practical class (in academic hours):	2
Purpose of the practical class: 1. consolidate acquired knowledge on anatomy, pathophysiology, microbiology, infectious diseases, and diagnostic radiology; 2. during the discussion, outline forms of infiltrative pulmonary tuberculosis;	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, medical equipment and tools for patient examination, and subject guides for the discipline.	
Independent work of the student: working with study materials.	
Methods of evaluation of acquired knowledge and skills: classroom questioning, tests.	
Recommended reading: 1. "Phthiology" M.I. Perelman, I.V. Bogadelnikova - GEOTAR-Media, 2020. -448 p.: ill. 2. "Tuberculosis" Koshechkin V.A. - GEOTAR-Media, 2017.-302 p 3. "Examination of a pulmonological patient: from clinical symptom to diagnosis" Dementieva M.P. - Vladivostok: Meditsina Dv, 2019-522009-52 p 4. "Epidemiologicheskiy nadzor za tuberkulezom: uchebnoe posobie [Epidemiological surveillance of tuberculosis: a textbook]" Tsvetkova O.M., Skurikhina Yu.E. - Vladivostok, Meditsina Dv, 2018 5. Pulmonology, 2025-2026: clinical recommendations - Moscow: GEOTAR-Media, 2017, 240 p	

4. GUIDELINES FOR CONTINUOUS AND INTERIM ASSESSMENT

Table 3. Guidelines for Conducting Continuous and Interim Assessment during **B1.C.33 Phthiology** Course

Type of assessment	Assessment format
Continuous assessment	- conducting and evaluating oral quizzes during practical classes; - assessment and evaluation of completion and results of assignments given during practical classes; - assess and evaluate completion and results of individual assignments and exam tasks given during practical classes; - assessment and evaluation of lecture notes quality.
Interim certification	is conducted in exam format; it allows to assess the development of students' competencies correlating with types of professional activity.

5 ASPECTS OF THE IMPLEMENTATION OF THE COURSE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

5.1. 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.

5.2. 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.

5.3. Availability of the internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia to students with disabilities in a form 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 form accessible to them.

5.4. Increase in the duration of interim assessment of 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 for students with disabilities and special needs is selected taking into account individual characteristics (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

6. 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.

