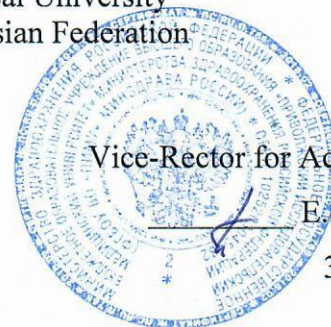


Federal State Budgetary Educational Institution of Higher Education  
"Privolzhsky Research Medical University"  
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

## WORKING PROGRAM

Name of the academic discipline: **INFECTIOUS DISEASES, PHTHISIATRY**

Specialty: **31.05.03 DENTISTRY**

Qualification: **DENTIST**

Department: **PHTHISIOLOGY NAMED AFTER I.S. NIKOLAEV**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **54 academic hours**

Nizhny Novgorod  
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.03 DENTISTRY approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 984 of August 12, 2020.

**Developers of the working program:**

Shprykov A.S., Holder of an Advanced Doctorate (Doctor of Science) in Medical Sciences, full professor, head of the department of phthisiology named after I.S. Nikolaev, FSBEI HE PRMU MOH Russia.

Naumov A.G., teaching assistant at the department of phthisiology named after I.S. Nikolaev, FSBEI HE PRMU MOH Russia.

The program was reviewed and approved at the department meeting (protocol No. 14, date 28.04.2021)

Head of the Department, Holder of an  
Advanced Doctorate (Doctor of Science) in  
Medical Sciences, full professor



(signature)

Shprykov A.S.

« 28 » april 2021

AGREED

Deputy Head of EMA ph.d. of biology \_\_\_\_\_ Lovtsova L.V.

(signature)

« 28 » april 2021

**1. The purpose and objectives of mastering the academic discipline «Infectious diseases, phthisiatry» (phthisiatry)** (hereinafter – the discipline): the purpose of mastering the discipline is to give students knowledge in the field of phthisiology, taking into account the specifics in their future work. The goals and content of training are determined by the current state of phthisiopulmonology, characterized by an acute situation in the incidence of tuberculosis, when the incidence of this pathology in our country and in a number of other countries is one of the priority tasks of healthcare. In the changing conditions of the organization of anti-tuberculosis activities, deep knowledge of phthisiology is necessary not only for phthisiatricians, but, above all, for dentists

1.1. The purpose of mastering the discipline: participation in forming the relevant competencies UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9.

1.2. Tasks of the discipline:

The main task of the discipline is the assimilation by students of the Faculty of International Medical Education of modern ideas about the etiology and pathogenesis of the development of pulmonary tuberculosis, tuberculosis pathomorphosis in modern conditions, methods of early, timely detection of the disease. The task of the teacher is also to teach students how to conduct tuberculin tests, vaccination. On a specific patient, a department employee teaches students how important it is to correctly collect an anamnesis and various clinical and laboratory data for making a diagnosis. In the classroom, students learn clinical thinking: they make a differential diagnosis with other pulmonary diseases, outline a plan for the complex treatment of the patient and its duration. Great importance in practical classes is given to the issues of maxillofacial tuberculosis.

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

**Know:**

- organization of TB care in the country, economy and health care management;
- social and epidemiological prerequisites for reducing the incidence of tuberculosis;
- risk factors for tuberculosis;
- epidemiology, tuberculosis statistics;
- organization of anti-epidemic measures for tuberculosis, their reflection in laws, orders, as well as in instructive and methodological recommendations;
- valid accounting and reporting forms on tuberculosis;
- specific and non-specific prevention of tuberculosis;
- tasks of anti-tuberculosis propaganda, methods of health education;
- features of the causative agent of tuberculosis, its biological properties, methods of detection;
- morphology of the lungs and mechanisms of protection of the respiratory apparatus from damaging factors, pathogenesis and pathomorphology of tuberculosis;
- the state of the immune system in tuberculosis;
- respiratory physiology and pathophysiological disorders that occur during a specific infectious process;
- methods of clinical, laboratory, radiological and instrumental examination of a patient with tuberculosis;
- indications and contraindications for bronchoscopy and biopsy in case of tuberculosis and other respiratory pathology;
- clinical classification of tuberculosis, classification of residual changes after tuberculosis;
- clinical and radiological semiotics of the main forms of respiratory tuberculosis and other localizations of a specific process;
- complications of tuberculosis of the respiratory organs and measures to prevent them;
- clinical and radiological semiotics of respiratory diseases similar to tuberculosis;

- features of clinical manifestations and course of tuberculosis, its detection, prevention and treatment in children and adolescents;
- clinical features and principles of diagnosis of extrapulmonary forms of tuberculosis (genitourinary, osteoarticular, peripheral and mesenteric lymph nodes, meninges, skin, eyes and other organs);
- urgent therapeutic measures used in threatening conditions in the clinic of tuberculosis and other pulmonary diseases;
- principles of complex etiotropic therapy of tuberculosis, methods and means of pathogenetic therapy;
- mechanisms of action, pharmacokinetics of anti-tuberculosis chemotherapy drugs, adverse reactions, measures for their prevention and elimination;
- indications and principles of sanatorium treatment and rehabilitation of patients with tuberculosis;
- indications for surgical treatment of patients with tuberculosis;
- examination of working ability in case of tuberculosis;
- specific and non-specific prevention of tuberculosis;
- bases of medical examination of patients with tuberculosis;
- principles of medical ethics and deontology.
- fundamentals of non-drug therapy (physiotherapy, herbal medicine, quantum therapy, physical therapy and other non-drug methods of treatment) for tuberculosis and other bronchopulmonary pathologies;
- indications and contraindications for sanatorium-and-spa treatment for tuberculosis;
- the basics of rational nutrition of healthy individuals, the principles of diet therapy for tuberculosis patients.

**Be able to:**

- organization of TB care in the country;
- social and epidemiological prerequisites for reducing the incidence of tuberculosis;
- risk factors for tuberculosis;
- epidemiology, tuberculosis statistics;
- organization of anti-epidemic measures for tuberculosis, their reflection in laws, orders, as well as in instructive and methodological recommendations;
- specific and non-specific prevention of tuberculosis;
- tasks of anti-tuberculosis propaganda, methods of health education;
- features of the causative agent of tuberculosis, its biological properties, methods of detection;
- pathogenesis and pathomorphology of tuberculosis;
- the state of the immune system in tuberculosis;
- methods of clinical, laboratory, radiological and instrumental examination of a patient with tuberculosis of the lungs, oral cavity and maxillofacial area;
- clinical classification of tuberculosis;
- clinical and radiological semiotics of the main forms of tuberculosis of the respiratory organs, oral cavity and maxillofacial area;
- complications of tuberculosis of the respiratory organs and measures to prevent them;
- principles of diagnosis of tuberculosis of the lungs, oral cavity and maxillofacial area;
- urgent therapeutic measures used in threatening conditions in the tuberculosis clinic;
- principles of complex therapy of tuberculosis, methods and means of treatment of tuberculosis of the oral cavity and maxillofacial area;
- mechanisms of action and schemes for prescribing anti-tuberculosis chemotherapy drugs, adverse reactions, measures for their prevention and elimination;
- principles of rehabilitation of patients with tuberculosis of various localizations;

- indications for surgical treatment of patients with tuberculosis;
- principles of medical ethics and deontology in phthisiology;
- fundamentals of non-drug therapy (physiotherapy, exercise therapy, sanatorium treatment) for tuberculosis;
- principles of diet therapy for tuberculosis patients.

**Possess:**

- conduct a comprehensive clinical examination of a patient with tuberculosis of the lungs, oral cavity and maxillofacial area, on this basis to determine: a preliminary diagnosis, the severity of the condition, urgent measures, a plan for additional examination and management of the patient, including consultations of other specialists, laboratory and instrumental research, work capacity;
- verify and/or clarify the directed diagnosis in patients admitted to a hospital or an appointment at a polyclinic;
- use deontological skills in order to establish positive psychological contact with patients;
- determine the tactics of managing a patient with dental profile tuberculosis, depending on the nature and severity of the disease;
- competently carry out together with a phthisiatrician:
- planned complex treatment of patients with tuberculosis of the oral cavity and maxillofacial region, using the regimen, diet, physiotherapy, medications, and dynamic monitoring of the patient's condition, the effectiveness and tolerability of the prescribed treatment, and, if necessary, to correct it (change the dose and method of administration of medicines, replacement of the latter);
- prevention of tuberculosis, clinical examination;
- to carry out diagnostics and qualification assistance to patients with tuberculosis in emergency conditions in stationary and outpatient conditions, including in case of pulmonary hemorrhage and hemoptysis;
- carry out sanitary and educational work among the population;
- prepare medical documentation.

**2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.**

**2.1.** The discipline «**Infectious diseases, phthisiatry**» (**phthisiatry**) refers to the core part (or *the part formed by the participants of educational relations*) of Block 1 of GEP HE (B1.O.29).

The discipline is taught in 7 (fall) semester 4<sup>th</sup> year of study.

**2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:**

1. Epidemiology.
2. General surgery.
3. Surgical diseases.

**2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:**

1. Dermatovenereology.
2. Neurology.
3. Otolaryngology.

4. Ophthalmology.
5. Psychiatry and narcology.
6. Therapeutic dentistry.
7. Surgical dentistry.
8. Orthopedic dentistry.
9. Pediatric dentistry.
10. Orthodontics and pediatric prosthetics.
11. Maxillofacial surgery.
12. Features of the course and treatment of caries and its complications in children.
13. Aesthetics in dentistry.
14. Modern aspects of odontogenic inflammation.
15. Prosthetics with complete loss of teeth.
16. Molecular genetic methods in the study of medicine.
17. The basics of saliva diagnostics.
18. The psychology of communication and conflict.
19. Laboratory tests in dentistry.



### 3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUC 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience IUC 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems	Methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	Obtain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience	Skills for researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; skills in developing an action strategy for solving professional problems
2.	UC-6	Able to identify and implement the priorities of their own activities and ways to improve them based on self-assessment and lifelong learning	IUC 6.1 Knows: the importance of planning long-term goals of activity, taking into account conditions, means, personal opportunities, stages of career growth, time perspective of development of activity and requirements of the labor market; technology and methodology of self-assessment; basic principles of self-education and self-education IUC 6.2 Is able to: determine the priorities of professional activity and ways to improve it on the basis of self-assessment; control and evaluate the components of professional activity; plan independent activities in solving professional problems IUC 6.3 Has practical experience: planning their own professional activities and self-development, studying additional educational programs	The importance of planning long-term goals of activity, taking into account the conditions, means, personal opportunities, stages of career growth, time perspective for the development of activities and labor market requirements; technology and methodology of self-assessment; basic principles of self-education and self-education	Determine the priorities of professional activity and ways to improve it based on self-assessment; control and evaluate the components of professional activity; plan independent activities in solving professional problems	Skills for planning one's own professional activity and self-development, studying additional educational programs
3.	GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	IGPC 1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice IGPC 1.2 Is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives) IGPC 1.3 Has practical experience: solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice	Fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice	Apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives))	Skills for solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice
4.	GPC-2	Able to analyze the results of their own activities to prevent professional errors	IGPC 2.1 Knows: the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; methodology for analyzing the results of one's own activities IGPC 2.2 Able to: analyze the results of examination and treatment of patients with dental diseases; draw up an action plan to prevent professional errors based on an analysis of the results of one's own activities	Orders for the provision of medical care, clinical recommendations, taking into account the standards of medical care; methodology for analyzing the results of one's	To analyze the results of examination and treatment of patients with dental diseases; draw up an action plan to prevent professional errors based on an analysis of the results of	Skills of participation in a clinical (clinical and anatomical) conference on the analysis of errors in professional activity



			IGPC 2.3 Has practical experience: participation in a clinical (clinical and anatomical) conference to analyze errors in professional activity	own activities	one's own activities	
5.	GPC-4	Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	<p>IGPC 4.1 Knows: the main criteria for a healthy lifestyle and methods of its formation; socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic health-improving hygiene measures that promote health and prevent the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common diseases</p> <p>IGPC 4.2 Is able to: conduct health and hygiene education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent the most common diseases; to carry out sanitary and educational work among children and adults in order to form a healthy lifestyle and prevent the most common diseases; to form in children and adults (their legal representatives) behavior aimed at maintaining and improving the level of somatic health; develop and implement programs for the formation of a healthy lifestyle, including programs to reduce the consumption of alcohol and tobacco, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including cancer; select and prescribe drugs and non-drug methods for the prevention of the most common diseases</p> <p>IGPC 4.3 Has practical experience in: promotion of a healthy lifestyle and prevention of the most common diseases; carrying out sanitary-educational work among children and adults; formation in children and adults (their legal representatives) of behavior aimed at maintaining and improving the level of somatic health; formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; development of a plan of preventive measures and the implementation of methods of group and individual prevention of the most common diseases; prescribing preventive measures for children and adults, taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; selection and prescription of drugs and non-drug methods for the prevention of the most common diseases</p>	The main criteria for a healthy lifestyle and methods of its formation; socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic health-improving hygiene measures that promote health and prevent the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common diseases	Conduct health and hygiene education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent the most common diseases; to carry out sanitary and educational work among children and adults in order to form a healthy lifestyle and prevent the most common diseases; to form in children and adults (their legal representatives) behavior aimed at maintaining and improving the level of somatic health; develop and implement programs for the formation of a healthy lifestyle, including programs to reduce the consumption of alcohol and tobacco, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including cancer; select and prescribe drugs and non-drug methods for the prevention of the most common diseases	Skills in promoting a healthy lifestyle and preventing the most common diseases; skills in conducting health education work among children and adults; the skills of formation in children and adults (their legal representatives) of behavior aimed at maintaining and improving the level of somatic health; skills in the formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; skills in developing a plan of preventive measures and implementing methods of group and individual prevention of the most common diseases; skills in prescribing preventive measures for children and adults, taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; skills in selecting and prescribing drugs and non-drug methods for the prevention of the most common diseases
6.	GPC-5	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	<p>IGPC 5.1 Knows the methodology for collecting anamnesis of life and diseases, complaints from children and adults (their legal representatives); method of examination and physical examination; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; international statistical classification of diseases and related health problems (ICD); conditions requiring emergency medical care</p> <p>IGPC 5.2 Is able to: collect complaints, anamnesis of life and disease in children and adults (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical examination</p>	The methodology for collecting an anamnesis of life and diseases, complaints from children and adults (their legal representatives); method of examination and physical examination; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental studies for assessing the state of	Collect complaints, anamnesis of life and disease in children and adults (their legal representatives), identify risk factors and causes of the development of diseases; apply methods of examination and physical examination of children and adults; interpret the results of the examination and physical examination of children and	The skills of collecting complaints, anamnesis of life and disease in children and adults (their legal representatives), identifying risk factors and causes of the development of diseases; examination and physical examination skills for children and adults; skills in diagnosing the most common diseases in children and adults;

			<p>of children and adults; interpret the results of the examination and physical examination of children and adults; diagnose the most common pathology in children and adults; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in children and adults in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer children and adults to laboratory, instrumental and additional studies in accordance with the current procedures for the provision of dental care, clinical guidelines, taking into account the standards of medical care; refer children and adults for consultations to specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by medical specialists for children and adults; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in children and adults; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care</p> <p>IGPC 5.3 Has practical experience in: collecting complaints, anamnesis of life and diseases in children and adults (their legal representatives), identifying risk factors and causes of diseases; examination and physical examination of children and adults; diagnosis of the most common diseases in children and adults; identification of risk factors for major cancers; formulating a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations with specialist doctors; referral of patients for instrumental, laboratory, additional studies, consultations of medical specialists in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and related health problems (ICD); carrying out differential diagnostics of diseases; recognition of conditions arising from sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care</p>	<p>health, medical indications for conducting studies, rules for interpreting their results; international statistical classification of diseases and related health problems (ICD); conditions requiring emergency medical care</p>	<p>adults; diagnose the most common pathology in children and adults; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in children and adults in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer children and adults to laboratory, instrumental and additional studies in accordance with the current procedures for the provision of dental care, clinical guidelines, taking into account the standards of medical care; refer children and adults for consultations to specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by medical specialists for children and adults; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in children and adults; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care</p>	<p>skills to identify risk factors for major cancers; the skills of formulating a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations with specialist doctors; the skills of referring patients to instrumental, laboratory, additional studies, consultations of medical specialists in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; skills in interpreting data from additional (laboratory and instrumental) examinations of patients; skills in making a preliminary diagnosis in accordance with the international statistical classification of diseases and related health problems (ICD); skills in differential diagnosis of diseases; skills in recognizing conditions that occur during sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care</p>
7.	PC-1	<p>The ability and readiness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle for the patient (their relatives / legal representatives). Prevention of the occurrence and (or)</p>	<p>IPC 1.1 Knows:  General issues of organizing medical care for adults and children  Anatomy of the head, maxillofacial region, features of blood supply and innervation, structure of teeth  Histology and embryology of the oral cavity and teeth, the main violations of embryogenesis  Anatomical and functional state of the organs of the maxillofacial region, taking into account age  Normal and pathological physiology of the dentition, its relationship with the</p>	<p>General issues of organizing medical care for adults and children  Anatomy of the head, maxillofacial region, features of blood supply and innervation, structure of teeth  Histology and embryology of the oral cavity and teeth, the</p>	<p>Collect complaints, anamnesis of life and disease in children and adults (their legal representatives) with dental diseases, identify risk factors and causes of dental diseases;  Interpret information received from children and adults (their legal representatives) with dental</p>	<p>Skills in collecting complaints, anamnesis of life and disease in children and adults (their legal representatives), identifying risk factors and causes of dental diseases;  skills in examination and physical examination of children and adults with dental diseases;</p>

		<p>spread of dental diseases, their early diagnosis, identification of the causes and conditions for the occurrence and development, as well as prevention.</p>	<p>functional state of other body systems and the levels of their regulation  The role of oral hygiene, nutrition and the use of fluoride in the prevention of dental and periodontal diseases  The method of collecting an anamnesis of life and diseases, complaints from children and adults (their legal representatives) with dental diseases  Goals and objectives of individual and professional oral hygiene  Hygienic indices and methods for their determination  Methods of examination and physical examination, features of clinical dental examination in children and adults with dental diseases  Clinical picture, diagnostic methods, classification of diseases of the teeth, periodontium, oral mucosa, lips in children and adults  Clinical picture, diagnostic methods, classification of diseases of the bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint in children and adults  Methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results  Medical indications and contraindications for the use of additional examination methods  Medical devices used in the provision of medical care to children and adults with dental diseases  International Statistical Classification of Diseases and Related Health Problems (ICD)  The procedure for providing medical care to the adult population with dental diseases  The procedure for providing medical care to children with dental diseases  Clinical guidelines for the provision of dental care  Conditions requiring emergency medical attention  Sanitary and epidemiological requirements and issues of organizing sanitary and anti-epidemic (preventive) measures in order to prevent the occurrence and spread of infectious diseases  IPC 1.2 Able to:  Collect complaints, anamnesis of life and disease in children and adults (their legal representatives) with dental diseases, identify risk factors and causes of dental diseases  Interpret information received from children and adults (their legal representatives) with dental diseases  Apply methods of examination and physical examination of children and adults with dental diseases  Interpret examination and physical examination findings in children and adults with dental disease  Diagnose diseases of the pulp and periodontium, periodontal disease, oral mucosa and lips in children and adults with dental diseases of the hard tissues of the teeth  Diagnose in children and adults with dental diseases defects of teeth, dentition, dentoalveolar deformities and anomalies of teeth and jaws, complete absence of teeth and prerequisites for their development, injuries of teeth, bones of the facial skeleton and soft tissues of the maxillofacial region  To identify risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases</p>	<p>main violations of embryogenesis  Anatomical and functional state of the organs of the maxillofacial region, taking into account age  Normal and pathological physiology of the dentition, its relationship with the functional state of other body systems and the levels of their regulation  The role of oral hygiene, nutrition and the use of fluoride in the prevention of dental and periodontal diseases  The method of collecting an anamnesis of life and diseases, complaints from children and adults (their legal representatives) with dental diseases  Goals and objectives of individual and professional oral hygiene  Hygienic indices and methods for their determination  Methods of examination and physical examination, features of clinical dental examination in children and adults with dental diseases  Clinical picture, diagnostic methods, classification of diseases of the teeth, periodontium, oral mucosa, lips in children and adults  Clinical picture, diagnostic methods, classification of diseases of the bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint in children and adults  Methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results  Medical indications and</p>	<p>diseases;  Apply methods of examination and physical examination of children and adults with dental diseases;  Interpret the results of the examination and physical examination of children and adults with dental diseases;  Diagnose diseases of the pulp and periodontium, periodontal disease, oral mucosa and lips in children and adults with dental diseases of hard tissues of the teeth;  Diagnose in children and adults with dental diseases defects of the teeth, dentition, dentoalveolar deformities and anomalies of the teeth and jaws, the complete absence of teeth and the prerequisites for their development, trauma to the teeth, bones of the facial skeleton and soft tissues of the maxillofacial region;  To identify risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases;  Formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in children and adults with dental diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care;  Refer children and adults with dental diseases for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of dental medical care, clinical guidelines, taking into account the standards of medical care;</p>	<p>diagnostic skills in children and adults:  - dental caries,  - non-carious lesions,  - diseases of the pulp and periodontium,  - periodontium,  - mucous membranes of the mouth and lips,  - defects of teeth,  - defects in the dentition,  - dental deformities,  - anomalies of teeth and jaws,  - complete absence of teeth;  skills  identifying risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases  Formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations of specialist doctors in children and adults with dental diseases;  skills  referral of children and adults with dental diseases for instrumental, laboratory, additional studies, consultations of specialist doctors in children and adults with dental diseases in accordance with the current procedures for providing dental care to adults and children, clinical recommendations, taking into account the standards of medical care;  skills in interpreting data from additional (laboratory and instrumental) examinations of patients (including radiological methods); skills  making a preliminary diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD);  skills  differential diagnosis of dental</p>
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		<p>Formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in children and adults with dental diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p> <p>Refer children and adults with dental diseases for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of dental care, clinical guidelines, taking into account the standards of medical care</p> <p>Refer children and adults with dental diseases for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care</p> <p>Interpret and analyze the results of consultations by medical specialists of children and adults with dental diseases</p> <p>Justify the need and scope of additional examinations of patients (including X-ray methods)</p> <p>Interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods in children and adults with dental diseases, including X-ray data</p> <p>Conduct differential diagnosis of dental diseases in children and adults</p> <p>Formulate a final diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD)</p> <p>Detect clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care</p> <p>IPC 1.3 Has practical experience:</p> <p>Collection of complaints, anamnesis of life and disease in children and adults (their legal representatives), identification of risk factors and causes of dental diseases</p> <p>Examination and physical examination of children and adults with dental diseases</p> <p>Diagnosis in children and adults:</p> <ul style="list-style-type: none"> <li>- dental caries,</li> <li>- non-carious lesions,</li> <li>- diseases of the pulp and periodontium,</li> <li>- periodontium,</li> <li>- mucous membranes of the mouth and lips,</li> <li>- defects of teeth,</li> <li>- defects in the dentition,</li> <li>- dental deformities,</li> <li>- anomalies of teeth and jaws,</li> <li>- complete absence of teeth</li> </ul> <p>Identification of risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases</p> <p>Formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations of specialist doctors in children and adults with dental diseases</p> <p>Referral of children and adults with dental diseases for instrumental, laboratory, additional studies, consultations of specialist doctors in children and adults with dental diseases in accordance with the current procedures for the provision of dental medical care to adults and children, clinical</p>	<p>contraindications for the use of additional examination methods</p> <p>Medical devices used in the provision of medical care to children and adults with dental diseases</p> <p>International Statistical Classification of Diseases and Related Health Problems (ICD)</p> <p>The procedure for providing medical care to the adult population with dental diseases</p> <p>The procedure for providing medical care to children with dental diseases</p> <p>Clinical guidelines for the provision of dental care</p> <p>Conditions requiring emergency medical attention</p> <p>Sanitary and epidemiological requirements and issues of organizing sanitary and anti-epidemic (preventive) measures in order to prevent the occurrence and spread of infectious diseases</p>	<p>Refer children and adults with dental diseases for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care;</p> <p>Interpret and analyze the results of consultations by medical specialists for children and adults with dental diseases;</p> <p>Justify the need and scope of additional examinations of patients (including X-ray methods);</p> <p>Interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods in children and adults with dental diseases, including X-ray data;</p> <p>Conduct differential diagnosis of dental diseases in children and adults;</p> <p>Formulate a final diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD);</p> <p>Detect clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care</p>	<p>diseases; skills making a final diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD); skills recognition of conditions arising from sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care</p>
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			<p>recommendations, taking into account the standards of medical care</p> <p>Interpretation of data from additional (laboratory and instrumental) examinations of patients (including radiological methods)</p> <p>Making a preliminary diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD)</p> <p>Carrying out differential diagnostics of dental diseases</p> <p>Making a final diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD)</p> <p>Recognition of conditions arising from sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care</p>			
8.	PC-6	<p>Willingness to collect and analyze complaints and other information from the patient (relatives / legal representatives), his medical history, interpretation of examination results, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of a dental disease, symptoms, syndromes dental diseases, establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of Medical Care, Clinical Recommendations on the provision of medical care, etc.)</p>	<p>IPC 6.1 Knows:</p> <p>The methodology for collecting complaints and anamnesis from patients (their legal representatives).</p> <p>Methods of physical examination of patients (examination, palpation, percussion, auscultation).</p> <p>The procedure for providing medical care to the adult population with dental diseases</p> <p>The procedure for providing medical care to children with dental diseases</p> <p>Clinical guidelines on the provision of medical care to patients with dental diseases</p> <p>Standards of care</p> <p>IPK 6.2. Able to:</p> <p>interpret the results of examination, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and others regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of medical care, Clinical recommendations on the provision of medical care, etc.)</p> <p>Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care.</p> <p>IPC 6.3 Has practical experience:</p> <p>interpretation of the results of examination, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and others regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of medical care, Clinical recommendations on the provision of medical care, etc.)</p> <p>Development of a treatment plan for children and adults with dental diseases, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p>	<p>The methodology for collecting complaints and anamnesis from patients (their legal representatives).</p> <p>Methods of physical examination of patients (examination, palpation, percussion, auscultation).</p> <p>The procedure for providing medical care to the adult population with dental diseases</p> <p>The procedure for providing medical care to children with dental diseases</p> <p>Clinical guidelines on the provision of medical care to patients with dental diseases</p> <p>Standards of Care</p>	<p>Interpret the results of examination, laboratory, instrumental, pathoanatomical and other studies in order to recognize the state or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and others regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of medical care, Clinical recommendations on the provision of medical care, etc.)</p> <p>Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care.</p>	<p>The skills of interpreting the results of examination, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of a dental disease, symptoms, syndromes of dental diseases, the establishment of nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, and other regulatory documents of the Ministry of Health of the Russian Federation (Procedure for the provision of medical care, Standard of Medical Care, Clinical Recommendations on the provision of medical care, etc.);</p> <p>skills in developing a treatment plan for children and adults with dental diseases, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p>

9.	PC-7	<p>Able to refer the patient for laboratory, instrumental examination, for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>	<p>IPC 7.1 Knows:  Methods of drug and non-drug treatment, medical indications for the use of medical devices for dental diseases  Groups of drugs used to provide medical care in the treatment of dental diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unexpected  Principles, techniques and methods of anesthesia, selection of the type of local anesthesia in the treatment of dental diseases  Ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, that occurred during the examination or treatment of patients with diseases of the teeth, pulp, periodontium, periodontium, oral mucosa and lips  Materials science, technologies, equipment and medical products used in dentistry  Anatomy of the head, maxillofacial region, features of blood supply and innervation; the structure of the teeth; histology and embryology of the oral cavity and teeth, the main violations of embryogenesis  IPK 7.2. Able to:  Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of care  Select and prescribe medicines, medical devices (including dental materials), dietary nutrition, medical and recreational regimen for the treatment of children and adults with dental diseases in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care  Determine medical indications and contraindications for local anesthesia techniques in the maxillofacial region  Perform local anesthesia (application, infiltration, conduction) in children and adults with dental diseases  Perform medical interventions, including therapeutic ones, in children and adults with dental diseases on an outpatient basis (excluding repeated endodontic treatment):  - individual training in oral and dental hygiene, selection of means and items for oral hygiene  - controlled brushing of teeth  - professional oral and dental hygiene  - injection of drugs in the maxillofacial area  - local application of remineralizing preparations in the area of the tooth  - deep fluoridation of tooth enamel  - sealing the fissure of the tooth with a sealant  - professional teeth whitening  - grinding of hard tissues of the tooth  - restoration of a tooth with a filling using dental cements, chemical curing materials, photopolymers  - restoration of teeth with a violation of the contact point  - tooth restoration with filling material using anchor pins  - application of devitalizing paste  - pulpotomy (amputation of the coronal pulp)</p>	<p>Methods of drug and non-drug treatment, medical indications for the use of medical devices for dental diseases  Groups of drugs used to provide medical care in the treatment of dental diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unexpected  Principles, techniques and methods of anesthesia, selection of the type of local anesthesia in the treatment of dental diseases  Ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, that occurred during the examination or treatment of patients with diseases of the teeth, pulp, periodontium, periodontium, oral mucosa and lips  Materials science, technologies, equipment and medical products used in dentistry  Anatomy of the head, maxillofacial region, features of blood supply and innervation; the structure of the teeth; histology and embryology of the oral cavity and teeth, the main violations of embryogenesis</p>	<p>Develop a plan for the treatment of children and adults with dental diseases in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of care  Select and prescribe medicines, medical devices (including dental materials), dietary nutrition, medical and recreational regimen for the treatment of children and adults with dental diseases in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care  Determine medical indications and contraindications for local anesthesia techniques in the maxillofacial region  Perform local anesthesia (application, infiltration, conduction) in children and adults with dental diseases  Perform medical interventions, including therapeutic ones, in children and adults with dental diseases on an outpatient basis (excluding repeated endodontic treatment):  - individual training in oral and dental hygiene, selection of means and items for oral hygiene  - controlled brushing of teeth  - professional oral and dental hygiene  - injection of drugs in the maxillofacial area  - local application of remineralizing preparations in the area of the tooth  - deep fluoridation of tooth enamel  - sealing the fissure of the tooth with a sealant  - professional teeth whitening</p>	<p>Skills in the selection and prescription of medicines, medical devices (including dental materials) for the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; skills prescribing dietary nutrition, health-improving regimen in the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; skills performing medical interventions in children and adults with dental diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; skills evaluating the results of medical interventions in children and adults with dental diseases; skills selection of the type and conduct of local anesthesia (application, infiltration, conduction) in children and adults with dental diseases; skills evaluation of the effectiveness and safety of the use of drugs, medical devices and non-drug treatment in children and adults with dental diseases; skills counseling children and adults with diseases of the mucous membranes of the mouth and lips, determining indications for referral to a consultation with specialist doctors; skills selection and prescription of medicines and medical devices, taking into account the diagnosis,</p>
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		<ul style="list-style-type: none"> <li>- pulp extirpation</li> <li>- instrumental and medical treatment of a well-passable root canal</li> <li>- temporary filling of the root canal with a drug</li> <li>- filling the root canal of the tooth with paste, gutta-percha pins</li> <li>- removal of supragingival and subgingival plaque in the tooth area (manual method)</li> <li>- ultrasonic removal of supragingival and subgingival dental deposits in the tooth area</li> <li>- closed curettage for periodontal diseases in the tooth area</li> <li>- application of a medical dressing for periodontal diseases in the area of one jaw</li> <li>- prescription of drug therapy for diseases of the oral cavity and teeth</li> <li>- appointment of dietary therapy for diseases of the oral cavity and teeth</li> </ul> <p>Perform medical interventions, including surgical ones, in children and adults with dental diseases on an outpatient basis (excluding the extraction of impacted and dystopic teeth):</p> <ul style="list-style-type: none"> <li>- removal of a tooth</li> <li>- removal of a temporary tooth</li> <li>- permanent tooth extraction</li> <li>- opening and drainage of odontogenic abscess</li> </ul> <p>Carry out phased sanitation of the oral cavity (excluding sanitation of the oral cavity in children under anesthesia)</p> <p>Perform medical interventions, including orthopedic, in adults with dental diseases on an outpatient basis (excluding prosthetics on dental implants, technologies for automated production of orthopedic structures, complete removable lamellar and clasp dentures):</p> <ul style="list-style-type: none"> <li>- obtaining anatomical and functional impressions</li> <li>- restoration of a tooth with a crown</li> <li>- restoration of the integrity of the dentition with fixed bridges</li> <li>- prosthetics with partial removable lamellar dentures</li> <li>- correction of a removable orthopedic structure</li> <li>- removal of a fixed orthopedic structure</li> </ul> <p>Interpret the results of X-ray studies of the maxillofacial region</p> <p>Conduct counseling for children and adults with diseases of the mucous membranes of the mouth and lips, determine indications for referral for a consultation with specialist doctors</p> <p>Prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p> <p>IPC 7.3 Has practical experience:</p> <p>Selection and prescription of medicines, medical devices (including dental materials) for the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care</p> <p>Prescribing dietary nutrition, health-improving regimen in the treatment of dental diseases in children and adults in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p> <p>Performing medical interventions in children and adults with dental diseases in accordance with the current procedures for the provision of medical care,</p>		<ul style="list-style-type: none"> <li>- grinding of hard tissues of the tooth</li> <li>- restoration of a tooth with a filling using dental cements, chemical curing materials, photopolymers</li> <li>- restoration of teeth with a violation of the contact point</li> <li>- tooth restoration with filling material using anchor pins</li> <li>- application of devitalizing paste</li> <li>- pulpotomy (amputation of the coronal pulp)</li> <li>- pulp extirpation</li> <li>- instrumental and medical treatment of a well-passable root canal</li> <li>- temporary filling of the root canal with a drug</li> <li>- filling the root canal of the tooth with paste, gutta-percha pins</li> <li>- removal of supragingival and subgingival plaque in the tooth area (manual method)</li> <li>- ultrasonic removal of supragingival and subgingival dental deposits in the tooth area</li> <li>- closed curettage for periodontal diseases in the tooth area</li> <li>- application of a medical dressing for periodontal diseases in the area of one jaw</li> <li>- prescription of drug therapy for diseases of the oral cavity and teeth</li> <li>- appointment of dietary therapy for diseases of the oral cavity and teeth</li> </ul> <p>Perform medical interventions, including surgical ones, in children and adults with dental diseases on an outpatient basis (excluding the extraction of impacted and dystopic teeth):</p> <ul style="list-style-type: none"> <li>- removal of a tooth</li> <li>- removal of a temporary tooth</li> <li>- permanent tooth extraction</li> <li>- opening and drainage of</li> </ul>	<p>age and clinical picture of a dental disease in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; skills</p> <p>determining the methods of administration, regimen and dose of drugs; skills</p> <p>selection and appointment of non-drug treatment for children and adults with dental diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; skills</p> <p>prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment at a dental appointment; skills</p> <p>providing medical care to children and adults in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the life of the patient in an emergency; skills</p> <p>the use of medicines and medical devices in the provision of medical care in an emergency form</p>
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			<p>clinical guidelines, taking into account the standards of medical care</p> <p>Evaluation of the results of medical interventions in children and adults with dental diseases</p> <p>Selection of the type and conduct of local anesthesia (application, infiltration, conduction) in children and adults with dental diseases</p> <p>Evaluation of the efficacy and safety of the use of drugs, medical devices and non-drug treatment in children and adults with dental diseases</p> <p>Counseling children and adults with diseases of the mucous membranes of the mouth and lips, determining indications for referral for a consultation with specialist doctors</p> <p>Selection and prescription of medicines and medical devices, taking into account the diagnosis, age and clinical picture of a dental disease in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p> <p>Definitions of routes of administration, regimen and dosage of drugs</p> <p>Selection and prescription of non-drug treatment for children and adults with dental diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care</p> <p>Prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic procedures, the use of drugs and (or) medical devices, non-drug treatment at a dental appointment</p> <p>Providing medical care to children and adults with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the life of the patient in an emergency form</p> <p>The use of medicines and medical devices in the provision of medical care in an emergency form</p>		<p>odontogenic abscess</p> <p>Carry out phased sanitation of the oral cavity (excluding sanitation of the oral cavity in children under anesthesia)</p> <p>Perform medical interventions, including orthopedic, in adults with dental diseases on an outpatient basis (excluding prosthetics on dental implants, technologies for automated production of orthopedic structures, complete removable lamellar and clasp dentures):</p> <ul style="list-style-type: none"> <li>- obtaining anatomical and functional impressions</li> <li>- restoration of a tooth with a crown</li> <li>- restoration of the integrity of the dentition with fixed bridges</li> <li>- prosthetics with partial removable lamellar dentures</li> <li>- correction of a removable orthopedic structure</li> <li>- removal of a fixed orthopedic structure</li> </ul> <p>Interpret the results of X-ray studies of the maxillofacial region</p> <p>Conduct counseling for children and adults with diseases of the mucous membranes of the mouth and lips, determine indications for referral for a consultation with specialist doctors</p> <p>Prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p>	
10.	PC-9	Willingness to determine the need for the use of natural healing factors, drug, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of medical	IPC 9.1 Knows: indications and contraindications for the use of natural healing factors, medicinal, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; efficacy and safety of non-drug therapy; features of the interaction of methods of non-drug therapy in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; algorithm for performing physiotherapy procedures.	Indications and contraindications for the use of natural healing factors, medicinal, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of	Determine the indications and contraindications for the use of natural healing factors, drug, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of medical rehabilitation	Skills in determining indications and contraindications for the use of natural healing factors, drug, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of medical rehabilitation



		rehabilitation and spa treatment	<p>IPC 9.2 Knows how to: determine indications and contraindications for the use of natural healing factors, drug, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; evaluate the effectiveness and safety of non-drug therapy; to analyze the features of the interaction of methods of non-drug therapy in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment</p> <p>IPC 9.3 Has practical experience in: determining indications and contraindications for the use of natural healing factors, drug, non-drug therapy and other methods in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; evaluation of the effectiveness and safety of non-drug therapy; analysis of the features of the interaction of methods of non-drug therapy in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; performing physiotherapy procedures.</p>	<p>medical rehabilitation and spa treatment; efficacy and safety of non-drug therapy; features of the interaction of methods of non-drug therapy in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; algorithm for performing physiotherapy procedures.</p>	<p>and spa treatment; evaluate the effectiveness and safety of non-drug therapy; to analyze the features of the interaction of methods of non-drug therapy in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment</p>	<p>and spa treatment; skills to assess the effectiveness and safety of non-drug therapy; skills in analyzing the features of the interaction of methods of non-drug therapy in patients with diseases of the maxillofacial region in need of medical rehabilitation and spa treatment; performing physiotherapy procedures.</p>
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**4. Sections of the academic discipline and competencies that are formed when mastering them**

No	Competence code	Section name of the discipline	The content of the section in teaching units
1.	UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9	Theoretical foundations of phthisiology.	<p>1. General issues of phthisiology. 2. Tuberculosis dispensary. At-risk groups. Prevention of tuberculosis. BCG vaccination. San.-epid. mode in dental institutions.</p> <p>The current state of the tuberculosis situation in the Volga Federal District, Russia, and the world. The main epidemiological indicators of tuberculosis. Etiology, pathogenesis and pathomorphism of tuberculosis. Organizing the fight against tuberculosis. Tuberculosis dispensary and its contingents. Groups of people at increased risk of tuberculosis. Prevention of tuberculosis. BCG and BCG-M vaccination, indications and contraindications. Evaluation of the effectiveness of vaccination, possible complications. Sanitary and epidemiological regime in dental institutions.</p>
2.	UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9	General issues of phthisiology. The main clinical forms of tuberculosis of the respiratory system. Complications of tuberculosis.	<p>1. General principles for the diagnosis, detection and treatment of tuberculosis. 2. The main clinical forms of respiratory tuberculosis. Pulmonary bleeding.</p> <p>Familiarization of students with the features of collecting various types of anamnesis, objective research methods. Features of laboratory and instrumental methods of examination of patients. Identification of patients with tuberculosis. General principles and methods of tuberculosis chemotherapy. pathogenic therapy. Disseminated, focal, infiltrative, cavernous, fibrous-cavernous, cirrhotic pulmonary tuberculosis, caseous pneumonia, tuberculous pleurisy. Pathogenesis, clinic, diagnostics, treatment. Pulmonary bleeding. Pathogenesis, clinic, diagnostics, treatment. Emergency care for pulmonary hemorrhage.</p>
3.	UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9	Tuberculosis of the maxillofacial region. Credit (for all sections of the discipline).	<p>1. Tuberculosis of the maxillofacial region as a manifestation of extrapulmonary tuberculosis. 2. Test.</p> <p>Tuberculosis of the maxillofacial region (mucosa of the oral cavity, tonsils, pharynx, bones and joints of the facial skeleton, peripheral lymph nodes, salivary glands, periodontal tissues). Clinic, diagnostics, differential diagnostics, treatment. Credit (for all sections of the discipline).</p>

**5. Volume of the academic discipline and types of academic work**

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	
Classroom work, including			11 semester (fall)
Lectures (L)	0,22	8	8
Laboratory practicum (LP)*			
Practicals (P)	0,72	26	26

Seminars (S)			
Student's individual work (SIW)	0,5	18	18
Mid-term assessment			
credit	0,06	2	2
TOTAL LABOR INTENSITY	1,5	54	54

## 6. Content of the academic discipline

### 6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1.	Theoretical foundations of phthysiology.	3		9		6	18
2.	General issues of phthysiology. The main clinical forms of tuberculosis of the respiratory system. Complications of tuberculosis.	3		8		6	17
3.	Tuberculosis of the maxillofacial region. Credit (for all sections of the discipline).	2		9		6	17
	TOTAL	8		26		18	52

\* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

### 6.2. Thematic schedule of educational work types:

#### 6.2.1 Thematic schedule of lectures\*

№	Name of lecture topics	Volume in AH	
1.	Pathogenesis and pathomorphology of tuberculosis. Detection and diagnosis of tuberculosis, risk groups, the role of preventive examinations.	7 semester	2 hours
2.	Classification of tuberculosis. Clinical forms of primary and secondary tuberculosis. Extrapulmonary tuberculosis.	7 semester	2 hours
3.	Tuberculosis of the oral cavity and maxillofacial region, its forms. Diagnosis, clinic, treatment. Pathology of the oral cavity in tuberculosis patients.	7 semester	2 hours
4.	Treatment and prevention of tuberculosis. BCG vaccination. Prevention of nosocomial transmission of infection in dental facilities.	7 semester	2 hours
	TOTAL (total - 8 AH)		
	Brief history of tuberculosis (TB). Epidemiology of tuberculosis. Modern situation in this field. TB Etiology.	7 semester	2 hours

\*(full-time form, with the use of EIES and DET)

#### 6.2.2. The thematic plan of laboratory practicums (if this type of classes is stipulated in the curriculum)

№	Name of laboratory practicums	Volume in AH

		semester	semester
	TOTAL (total - AH)		

### 6.2.3. Thematic plan of practicals

№	Name of the topics of practicals	Volume in AH	
		semester	hours
1.	Features of the method of examination of a patient with tuberculosis. Survey methods. X-ray syndromes of tuberculosis. Mantoux reaction with 2 TU.	7 semester	5 hours
2.	TB Dispensary. Detection of tuberculosis, clinical and preventive methods of detection. Tuberculosis risk groups.	7 semester	5 hours
3.	General principles of diagnosis, treatment and prevention of tuberculosis. BCG vaccination. Sanitary and epidemiological regime in dental institutions.	7 semester	5 hours
4.	The main clinical forms of respiratory tuberculosis. Clinic, diagnosis, treatment. Emergency treatment of pulmonary hemorrhage.	7 semester	5 hours
5.	Tuberculosis of the maxillofacial region as a manifestation of extrapulmonary tuberculosis. Clinic, diagnosis, treatment. Credit.	7 semester	6 hours
	TOTAL (total – 26 AH)		

### 6.2.4. Thematic plan of seminars *(if this type of classes is stipulated in the curriculum)*

№	Name of seminar topics	Volume in AH	
		semester	hours
	TOTAL (total - AH)		

### 6.2.5. Types and topics of student's individual work (SIW)

№	Types and topics of SIW	Volume in AH	
		semester	hours
1.	Work with normative documents.	7 semester	5 hours
2.	Text outline.	7 semester	4 hours
3.	Analytical text processing (analysis of the patient's medical history)	7 semester	4 hours
4.	Solving situational production (professional) tasks, performing case tasks.	7 semester	5 hours
	TOTAL (total – 18 AH)		

## 7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control	Name of section of academic discipline	Competence codes	Assessment formats		
					types	number of test questions	number of test task options
1.	7	Control of mastering the topic. Monitoring the student's individual work	Theoretical foundations of phthiology	UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9	Test questions	10	15
2.	7	Control of mastering the topic. Monitoring the student's individual work	General issues of phthiology. The main clinical forms of tuberculosis of the respiratory system. Complications of tuberculosis.	UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9	Test questions	10	15
3.	7	Control of mastering the topic. Monitoring the student's individual work	Tuberculosis of the maxillofacial region. Credit (for all sections of the discipline).	UC-1, UC-6, GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-6, PC-7, PC-9	Test questions	30	15
					Situational tasks	5	20

## 8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

### 8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	at the department
1	Ftiziatriya: uchebnik / A.V. Pavlunin, A.S. Shprykov, R.F. Mishanov. – N.Novgorod: Izdatel'stvo Nizhegorodskoy gosudarstvennoy meditsinskoy akademii, 2017. – 620 s., il.	20	75
2.	Koshechkin V.A., Phthiatriy: textbook / V.A. Koshechkin. – M.: GEOTAR-Media, 2017. – 256 s.: il.	20	20
3.	Mishin V.Yu., Ftiziatriya: uchebnik / V.Yu. Mishin i dr. – 2-e izd., pererab. i dop. – M.: GEOTAR-Media, 2016. – 520 s.	20	57

4.	Giller D.B., Ftiziatriya: uchebnik / D.B. Giller, V.Yu. Mishin i dr. – M.: GEOTAR-Media, 2020. – 576 s.	5	10
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## 8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1.	Pokrovskiy V.V., VICH-infektsiya i SPID / pod red. Pokrovskogo V.V. - M.: GEOTAR-Media, 2020. - 696 s.	20	20
2.	Chuchalin A.G., Pul'monologiya / pod red. Chuchalina A.G. - M.: GEOTAR-Media, 2020. - 768 s.	20	20
3.	Avdeev S.N., Legochnaya gipertenziya / pod red. Avdeeva S.N. - M.: GEOTAR-Media, 2019. - 608 s.	20	20
4.	Struchkov P.V., Spirometriya / Struchkov P.V., Drozdov D.V., Lukina O.F. - M.: GEOTAR-Media, 2019. - 112 s.	20	20
5.	Bol'shakov, O.P. Operativnaya khirurgiya i topograficheskaya anatomiya: Uchebnik / O.P. Bol'shakov. - SPb.: Piter, 2018. - 432 c.	20	20
6.	Markina N.Yu., Ul'trazvukovaya diagnostika / Markina N.Yu., Kislyakova M.V. - M.: GEOTAR-Media, 2018. - 240 s.	20	20
7.	Chuchalin A.G., Respiratornaya meditsina: v 3 t. T. 1.: rukovodstvo / pod red. A.G. Chuchalina – M.: GEOTAR-Media, 2017. – 640 s.	20	20
8.	Chuchalin A.G., Respiratornaya meditsina: v 3 t. T. 2.: rukovodstvo / pod red. A.G. Chuchalina – M.: GEOTAR-Media, 2017. – 544 s.	20	20
9.	Chuchalin A.G., Respiratornaya meditsina: v 3 t. T. 3.: rukovodstvo / pod red. A.G. Chuchalina – M.: GEOTAR-Media, 2017. – 464 s.	20	20
10.	Il'kovich M.M., Interstitsial'nye i orfannye zabolevaniya legkikh / pod red. M. M. Il'kovicha. - M.: GEOTAR-Media, 2016. - 560 s. : il.	20	20
11.	Yablonskiy P.K., Ftiziatriya. Natsional'nye klinicheskie rekomendatsii / pod red. P.K. Yablonskogo - M.: GEOTAR-Media, 2015. - 240 s.	20	20
12.	Safonov, D. V. Ul'trazvukovaya diagnostika opukholey legkikh / D. V. Safonov, B. E. Shakhov. – M.: VIDAR-M, 2014. – 144 s. : il.	20	20
13.	Mishin V.Yu., Tuberkulinodiagnostika / Mishin V.Yu. – M.: GEOTAR-Media, 2013. – 136 s.	20	20
14.	Natsional'nye klinicheskie rekomendatsii po primeneniyu khirurgicheskikh metodov v lechenii tuberkuleza legkikh. – SPb.: Natsional'naya assotsiatsiya ftiziatrov; Assotsiatsiya torakal'nykh khirurgov Rossii. – 2013. – 22 s.	20	20
15.	Natsional'nye klinicheskie rekomendatsii po lecheniyu spontannogo pnevmotoraksa. – M.: Rossiyskoe obshchestvo khirurgov, 2013. – 22 s.	20	20
16.	Davies P.D.O. Clinical tuberculosis / P.D.O Davies [et al.]. – 5-th ed. – CRC Press, 2015. – 477 p.	5	-

17.	Shaaf H.S. Tuberculosis: A comprehensive clinical reference / H.S. Schaaf [et al.]. – Saunders, 2009. – 1046 p.	5	-
18.	Andersson L. Oral and maxillofacial surgery / L. Andersson [et al.]. – Wiley-Blackwell, 2010. – 1312 p.	5	-
19.	Neville B.W. Oral and maxillofacial pathology / B.W. Neville [et al.]. – Saunders, 2009. – 984 p.	5	-
20.	Rajendran R. Shafer's textbook of oral pathology / R. Rajendran [et al.]. – Elsevier, 2012. – 1000 p.	5	-

### 8.3. Electronic educational resources for teaching academic subjects

#### 8.3.1. Internal Electronic Library System of the University (IELSU)

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1.	<b>Internal Electronic Library System of the University (IELSU)</b> <a href="http://nbk.pimunn.net/MegaPro/Web">http://nbk.pimunn.net/MegaPro/Web</a>	Proceedings of the faculty of the university: textbooks, teaching aids, collections of problems, methodological manuals, laboratory work, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents	From any computer and mobile device with an individual login and password. Access mode: <a href="http://nbk.pimunn.net/MegaPro/Web">http://nbk.pimunn.net/MegaPro/Web</a>	Not limited

#### 8.3.2. Electronic educational resources acquired by the University

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1.	<b>EBS «Konsul'tant studenta» (Elektronnaya baza dannykh «Konsul'tant studenta». Baza dannykh «Meditsina. Zdravookhranenie (VO) i «Meditsina. Zdravookhranenie (SPO)»)</b> <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>	Educational literature, additional materials (audio, video, interactive materials, test tasks) for higher medical and pharmaceutical education	From any computer and mobile device with an individual login and password. Access mode: <a href="http://nbk.pimunn.net/MegaPro/Web">http://nbk.pimunn.net/MegaPro/Web</a>	Not limited Validity: until 31.12.2022
2.	<b>Baza dannykh «Konsul'tant vracha. Elektronnaya meditsinskaya biblioteka»</b> <a href="https://www.rosmedlib.ru">https://www.rosmedlib.ru</a>	National guidelines, clinical guidelines, textbooks, monographs, atlases, pharmaceutical guides, audio and video materials, ICD-10 and ATC	From any computer and mobile device with an individual login and password. Access mode: <a href="http://nbk.pimunn.net/MegaPro/Web">http://nbk.pimunn.net/MegaPro/Web</a>	Not limited Validity: until 31.12.2022

			b	
3.	<b>Elektronnaya bibliotchnaya sistema «Bukap»</b> <a href="https://www.books-up.ru">https://www.books-up.ru</a>	Educational and scientific medical literature of Russian publishing houses, incl. translations of foreign publications. Within the framework of the Big Medical Library project, publications of universities participating in the project are available	From any computer and mobile device using an individual login and password; access from university computers is automatic. Publications from the "My Books" section are available for reading. Access mode: <a href="http://nbk.pimunn.net/MegaPro/Web">http://nbk.pimunn.net/MegaPro/Web</a>	Not limited Validity: until 31.05.2022
4.	<b>Obrazovatel'naya platforma «YuRAYT»</b> <a href="https://urait.ru">https://urait.ru</a>	Collection of publications on psychology, ethics, conflictology	From any computer and mobile device with an individual login and password. Access mode: <a href="http://nbk.pimunn.net/MegaPro/Web">http://nbk.pimunn.net/MegaPro/Web</a>	Not limited Validity: until 31.12.2022
5.	<b>Elektronnye periodicheskie izdaniya v sostave bazy dannykh «Nauchnaya elektronnaya biblioteka eLIBRARY</b> <a href="https://elibrary.ru">https://elibrary.ru</a>	Electronic medical magazines	From university computers. Access mode: <a href="https://elibrary.ru">https://elibrary.ru</a>	Not limited Validity: until 31.12.2022
6.	<b>Integrirovannaya informatsionno-bibliotchnaya sistema (IBS) nauchno-obrazovatel'nogo meditsinskogo klastera Privolzhskogo federal'nogo okruga – «Srednevolzhskiy» (dogovor na besplatnoy osnove)</b>	Electronic copies of scientific and educational publications from the funds of the libraries participating in the scientific and educational medical cluster of the Volga Federal District "Srednevolzhsky"	Access by individual login and password from any computer and mobile device. Access mode: sites of libraries participating in the project	Not limited Validity: not limited
7.	<b>Elektronnaya spravочно-pravovaya sistema «Konsul'tant Plyus» (dogovor na besplatnoy osnove)</b> <a href="http://www.consultant.ru">http://www.consultant.ru</a>	Regulatory documents regulating the activities of medical and pharmaceutical institutions	From the computers of the scientific library. Access mode: <a href="http://www.consultant.ru/">http://www.consultant.ru/</a>	Not limited Validity: not limited
8.	<b>Natsional'naya elektronnaya biblioteka (NEB) (dogovor na</b>	Electronic copies of publications (including scientific and	Scientific and educational works that have not been	Not limited Validity:



	besplatnoy osnove) http://HЭб.рф	educational) on a wide range of knowledge	republished for the last 10 years are in the public domain. Works limited by copyright – from the computers of the scientific library. Access mode: http://HЭб.рф	not limited
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### 8.3.3 Open access resources

№	Name of the electronic resource	Brief description (content)	Access conditions
<b>Domestic resources</b>			
1.	<b>Federal'naya elektronnyaya meditsinskaya biblioteka (FEMB)</b> http://HЭб.рф	Full-text electronic copies of printed publications and original electronic publications in medicine and biology	From any computer on the Internet. Access mode: http://HЭб.рф
2.	<b>Nauchnyaya elektronnyaya biblioteka eLIBRARY.RU</b> https://elibrary.ru	Abstracts and full texts of scientific publications, electronic versions of Russian scientific journals	From any computer on the Internet. Access mode: https://elibrary.ru
3.	<b>Nauchnyaya elektronnyaya biblioteka otkrytogo dostupa KiberLeninka</b> http://cyberleninka.ru	Full texts of scientific articles with annotations published in scientific journals in Russia and neighboring countries	From any computer on the Internet. Access mode: https://cyberleninka.ru
<b>Foreign resources within the framework of the National subscription</b>			
1.	<b>Elektronnyaya kolleksiya izdatel'stva Springer</b> https://rd.springer.com	Full-text scientific publications (journals, books, articles, scientific protocols, conference proceedings)	From university computers. Access mode: https://rd.springer.com
2.	<b>Baza dannykh periodicheskikh izdaniy izdatel'stva Wiley</b> www.onlinelibrary.wiley.com	Wiley Periodicals	From university computers, from any computer using an individual login and password Access mode: www.onlinelibrary.wiley.com
3.	<b>Elektronnyaya kolleksiya periodicheskikh izdaniy «Freedom» na platforme Science Direct</b> https://www.sciencedirect.com	Elsevier Periodicals	From university computers, from any computer with an individual login and password. Access mode: https://www.sciencedirect.com
4.	<b>Baza dannykh Scopus</b> www.scopus.com	International Science Citation Abstract Database	From university computers, from any computer with an individual login and password. Access mode: www.scopus.com
5.	<b>Baza dannykh Web of Science Core</b>	International Science Citation Abstract Database	From university computers, from any computer with an individual login and

	<b>Collection</b> <a href="https://www.webofscience.com">https://www.webofscience.com</a>		password. Access mode: <a href="https://www.webofscience.com">https://www.webofscience.com</a>
6.	<b>Baza dannykh Questel Orbit</b> <a href="https://www.orbit.com">https://www.orbit.com</a>	Questel Patent Database	From university computers. Access mode: <a href="https://www.orbit.com">https://www.orbit.com</a>
<b>Foreign resources of open access (the main ones are indicated)</b>			
1.	<b>PubMed</b> <a href="https://www.ncbi.nlm.nih.gov/pubmed">https://www.ncbi.nlm.nih.gov/pubmed</a>	Search engine of the US National Library of Medicine on the databases "Medline", "PreMedline"	From any computer and mobile device. Access mode: <a href="https://www.ncbi.nlm.nih.gov/pubmed">https://www.ncbi.nlm.nih.gov/pubmed</a>
2.	<b>Directory of Open Access Journals</b> <a href="http://www.doaj.org">http://www.doaj.org</a>	Directory of open access to the full-text collection of periodicals	From any computer and mobile device. Access mode: <a href="http://www.doaj.org">http://www.doaj.org</a>
3.	<b>Directory of open access books (DOAB)</b> <a href="http://www.doabooks.org">http://www.doabooks.org</a>	Directory of open access to the full-text collection of scientific books	From any computer and mobile device. Access mode: <a href="http://www.doabooks.org">http://www.doabooks.org</a>

## 9. Material and technical support for mastering an academic discipline

### 9.1. List of premises for classroom activities for the discipline

For conducting classes, the clinical base of the department is used. The department is located on the basis of the Nizhny Novgorod Regional Clinical Tuberculosis Dispensary. The bed capacity of the Nizhny Novgorod Regional Clinical TB Dispensary (including branches) is represented by 390 round-the-clock beds, 10 day care beds, 30 beds in a home hospital (order of the Ministry of Health of the Nizhny Novgorod Region No. 315-682/19П/ОД from 09.12.2019). The dispensary department accepts adults and children.

In the structure of the head office:

- Children's department - 30 beds,
- Therapeutic department - 40 beds,
- Diagnostic department - 30 beds of round-the-clock stay and 10 day hospital,
- Extrapulmonary department - 40 beds,
- Pulmonary surgery department - 40 beds,

The clinical base meets the requirements for clinics and allows for a full-fledged educational process.

### List of premises

№	Room number	Footage	Location
1	Room 45 (classroom №2)	11,3	1 floor
2	Room 116 (classroom №1)	15,6	1 floor
3	Room 117 (classroom №3)	16,2	1 floor
4	Room 92 (lecture hall)	57,7	2 floor
5	Room 74 (classroom №6)	14,5	4 floor
6	Room 72 (classroom №7)	19,5	4 floor
7	Room 75 (classroom №4)	11,2	4 floor
8	Room 61 (classroom №8)	16,0	4 floor
9	Room 56 (classroom №5)	20,4	4 floor
10	Room 73 (equipment)	9,6	4 floor

	storage room)		
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- 1) A doctor's office for providing medical care to phthisiatric patients in a consultative polyclinic of an anti-tuberculosis dispensary.
- 2) Therapeutic department of pulmonary tuberculosis of the TB dispensary.
- 3) Therapeutic department of pulmonary tuberculosis (diagnostic) of the TB dispensary.
- 4) Tuberculosis pulmonary surgical department of the tuberculosis dispensary.
- 5) Children's department of the TB dispensary.
- 6) Department of extrapulmonary tuberculosis of the TB dispensary.
- 7) Urological department of the TB dispensary - Avtozavodsky branch.
- 8) Dressing room.
- 9) A functional diagnostics room equipped with an electrocardiograph and a spiograph.
- 10) Ultrasound diagnostic room equipped with an ultrasonic scanner.
- 11) Operating unit equipped with a video thoracoscopic stand.
- 12) X-ray rooms equipped with a digital fluorograph; devices for radiography, fluoroscopy and linear tomography; multislice computed tomography.
- 13) Bacteriological laboratory equipped with BACTEC automatic bacterial analyzer, equipment for molecular genetic research.
- 14) Endoscopy room equipped with fibrobronchoscopes, rigid bronchoscopes, fibroesophagoduodenoscope.

### 9.2. List of equipment for classroom activities for the discipline

The classrooms are equipped with sets of tables published in a typographical way by the Department of Tuberculosis of the Moscow Medical Academy named after I.M. Sechenov; tables and stands "Treatment of tuberculosis", created by teachers of the department; advanced negatoscopes and sets of training radiographs. There is an "Overhead-CAVA" projector and multimedia projectors for slide demonstrations.

The main dispensary equipment used in the educational process:

- controlled X-ray diagnostic complex OKO-KRT NIPC "Electron" (RF).
- fluorographic apparatus 12F7u with a camera 110x110 (RF).
- digital device AFU-OKO NIPC "Electron" (RF).
- Siemens Somatom emotion 16 spiral computed tomograph (Germany).
- express analyzer "Exan-G" (RF).
- hemoglobinometer Microlab - 540 (RF).
- refractometer URF-22 (RF).
- electrocardiograph "Cardimax X-326U" (Japan).
- Spirasift 3000 spirometer (Japan).
- fiber bronchoscope "BF Olympus-40", "Olympus-TE", "BF Pentax-15v" (Japan).
- fibrogastroscope "Olympus GIF 20" (Japan).
- luminescent microscope MIKMED-2 (RF).
- automated microbiological system for the detection of mycobacteria "BD Bactec MGIT TB-960 system" (Great Britain).
- test system for the determination of multidrug resistance of Mycobacterium tuberculosis "TV-BIOCHIP (MDR)" (RF).

### 9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018

2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

### 10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education  
 "Privolzhsky Research Medical University"  
 Ministry of Health of the Russian Federation  
 (FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of  
*PHTHIOLOGY NAMED AFTER I.S. NIKOLAEV*

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### CHANGE REGISTRATION SHEET

working program for the academic discipline  
*INFECTIOUS DISEASE, PHTHISIATRY (PHTHISIATRY)*

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Field of study / specialty / scientific specialty: 31.05.03 DENTISTRY

Training profile: DENTIST

Mode of study: full-time

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1	<i>Number 2, 2.1 Position of the academic discipline...; Number 8.3. Electronic educational resources for teaching academic subjects.</i>	<i>1) Making changes, according to the adjusted curriculum (changing the index of the academic discipline). 2) Updating the list of electronic educational resources in the thematic section of the GEP.</i>	<i>17.09.2021</i>	

Approved at the department meeting  
Protocol No. 4 of 17/09/2022

Head of the department of phthiology  
named after I.S. Nikolaev, Holder of an  
Advanced Doctorate (Doctor of Science) in  
Medical Sciences, full professor

\_\_\_\_\_/Shprykov A.S.  
(signature)