

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



## **WORKING PROGRAM**

Name of the academic discipline: **FUNDAMENTALS OF PULMONOLOGY**

Specialty: **31.05.01 GENERAL MEDICINE**

Qualification: **GENERAL PRACTITIONER**

Department: **ENDOCRINOLOGY AND INTERNAL MEDICINE**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod  
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.01 GENERAL MEDICINE approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.

**Developers of the working program:**

Nekrasova T.A., MD, associate professor department of endocrinology and internal medicine

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

Head of the Department,

MD, PhD, Associate professor  I.G. Pochinka

(signature)

01 June 2021

AGREED

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

(signature)

01 June 2021

## **1. The purpose and objectives of mastering the academic discipline Fundamentals of Pulmonology** (hereinafter – the discipline):

### **1.1. The main goal of mastering and teaching the "Fundamentals of Pulmonology"**

The main purpose of mastering and teaching the "Fundamentals of Pulmonology" to VI-year students is the formation of clinical (conceptual) thinking, including a professional algorithm in solving practical problems in this section of the internal medicine clinic. To form a medical professional behavior in a therapeutic clinic based on deontological principles and ethical norms. To develop students' mental, sensory and motor skills necessary for an ORP doctor to perform their professional duties. To contribute to the improvement of the general culture of a medical university student.

### **1.2. Tasks of the discipline:**

Teaching the "Fundamentals of Pulmonology" in a hospital clinic is based on reading clinical lectures, conducting practical classes and independent work of students at the bedside under the guidance of a teacher.

The main purpose of studying the "Fundamentals of Pulmonology" at the Department of Hospital Therapy involves solving relevant professional tasks:

- to master the algorithm for making a clinical diagnosis, prescribing treatment and preventive measures for the main nosological forms in pulmonology
- be able to collect and analyze information about the patient's condition, taking into account additional research methods;
- be able to diagnose emergency conditions and provide emergency medical care at the pre-hospital and hospital stages;
- be able to compile and maintain medical records in the clinic of internal diseases;
- be able to conduct an examination of disability;
- be able to work independently with educational, scientific, regulatory and reference literature.

### **1.3. Requirements to the deliverables of mastering the discipline**

As a result of completing the discipline, the student should

#### **Know:**

- modern methods of clinical, laboratory and instrumental diagnostics of patients with pulmonological profile;
- features of providing medical care to adults and adolescents in emergency conditions;
- clinical and pharmacological characteristics of the main groups of drugs and rational choice of specific drugs in the treatment of major pathological syndromes of diseases and emergency conditions in patients;
- fundamentals of the organization of inpatient care for adolescents and adults;
- maintaining standard accounting and reporting medical documentation in medical and preventive institutions of the healthcare system, carrying out an examination of working capacity;
- fundamentals of the use of evidence-based medicine methods in assessing the health status of adults and adolescents, the activities of medical institutions and in scientific research.

#### **Be able to:**

- collect anamnesis; conduct a survey of the patient and his relatives, conduct a physical examination of the patient (examination, palpation, percussion, auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, etc.);
- send for laboratory and instrumental examination, for consultation with specialists;
- interpret the results of the examination, use the data of physical, laboratory and instrumental examination, laboratory data for diagnosis in outpatient and inpatient settings.
- outline the scope of additional studies to clarify the diagnosis; formulate a clinical

- diagnosis;
- to develop an optimal treatment plan for a sick person taking into account the course of the disease, to select and prescribe drug therapy taking into account the pharmacokinetics and pharmacodynamics of drugs, to prevent their undesirable side effects, to use methods of non-drug treatment;
- draw up a rehabilitation program at the hospital and polyclinic stage, monitor its implementation; determine the fact of temporary disability, its cause, criteria for recovery and restoration of working capacity;
- to determine the indications for employment, the establishment of a disability group and its prediction;
- to keep medical records of various types in outpatient and inpatient institutions;
- to carry out sanitary and educational work, to make its plan;
- manage the work of the nursing staff in the hospital.

**Possess:**

- basic technologies of information transformation: text, tabular editors; techniques of working on the Internet for professional activity;
- methods of maintaining medical accounting and reporting documentation in medical and preventive institutions of the healthcare system;
- assessments of the health status of the population of various age-sex and social groups; methods of general clinical examination of patients;
- interpretation of the results of laboratory, instrumental diagnostic methods in patients; an algorithm for making a preliminary diagnosis to patients with subsequent referral for additional examination and to specialist doctors;
- an algorithm for making a detailed clinical diagnosis;
- an algorithm for performing basic medical diagnostic and therapeutic measures to provide first aid to the population in urgent and life-threatening conditions.

**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 "Fundamentals of Pulmonology"** is a discipline of the choice of a professional cycle. The discipline is studied in the 12th semester/6 year of study.

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

1. Obstetrics and gynecology
2. Medical rehabilitation
3. Phthysiology
4. Polyclinic therapy
5. Anesthesiology, intensive care, intensive care
6. Hospital surgery
7. Oncology, radiation therapy
8. Traumatology orthopedics
9. Public health and healthcare, healthcare economics

**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	<p>I.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis</p> <p>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</p> <p>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</p>	methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis,	receive 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	the skills of researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems
2.	UC-4	Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	<p>IUC 4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies</p> <p>IUC 4.2 Knows how to: express their thoughts in Russian and foreign languages in</p>	basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and	express your thoughts in Russian and foreign languages in business communication	skills in compiling texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian; experience of speaking Russian and foreign languages

			business communication IUC 4.3 Has practical experience in: compiling texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian; experience of speaking Russian and foreign languages	communication technologies		
3.	UC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	IUC 5.2 Is able to: competently, clearly present professional information in the process of intercultural interaction; observe ethical standards and human rights; analyze the features of social interaction, taking into account national, ethno-cultural, professional characteristics IUC 5.3 Has practical experience: productive interaction in a professional environment, taking into account national, ethno-cultural, professional characteristics; overcoming communicative, educational, ethnic, professional and other barriers in the process of intercultural interaction	the main categories of philosophy, the laws of historical development, the foundations of intercultural communication; basic concepts of human interaction in an organization	competently, accessible to express professional information in the process of intercultural interaction; observe ethical standards and human rights; analyze the features of social interaction, taking into account national, ethno-cultural, professional characteristics	skills of productive interaction in a professional environment, taking into account national, ethno-cultural, professional characteristics; overcoming communicative, educational, ethnic, professional and other barriers in the process of intercultural interaction
4.	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	foundations of medical ethics and deontology; fundamentals of legislation in the field of	apply ethical standards and principles of behavior of a medical worker in the	skills in solving standard problems of professional activity based on ethical norms and deontological

			<p>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)</p> <p>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</p>	healthcare; legal aspects of medical practice	<p>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)</p>	<p>principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice</p>
5.	GPC-2	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 2.1 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;</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	<p>conduct sanitary and hygienic 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</p>	<p>skills to promote a healthy lifestyle and prevent 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</p>



			<p>fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common diseases</p> <p>IGPC 2.2 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</p>	<p>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 prevention programs</p>	<p>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</p>	<p>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</p>
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			<p>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 2.3 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</p>		<p>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>non-drug methods for the prevention of the most common diseases</p>
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			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			
6.	GPC-4	Able to use medical devices provided for by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis	<p>IGPC 4.1 Knows the methodology for collecting anamnesis of life and diseases, complaints from patients (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; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, care, taking into account the standards of medical care</p> <p>IGPC 4.2 Is able to: collect complaints,</p>	Knows the methodology for collecting an anamnesis of life and diseases, complaints from patients (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	collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of the development of diseases; apply methods of examination and physical examination of patients; interpret the results of the examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting	Has practical experience: collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of diseases; examination and physical examination of patients; diagnosis of the most common diseases; 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

			<p>anamnesis of life and disease from patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical examination of patients; interpret the results of the examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients 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</p>	<p>classification of diseases and related health problems (ICD); conditions requiring emergency medical care; order</p>	<p>laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to specialist doctors in accordance with the procedures for providing medical care, clinical recommend</p>	<p>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 diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; the use of</p>
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		<p>the results of consultations with patients' specialists; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; to carry out differential diagnostics of diseases in patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care; apply medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, care, taking into account the standards of medical care</p> <p>IGPC 4.3 Has practical experience in: collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of diseases; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major cancers; formulating a preliminary diagnosis, drawing up a plan for</p>		<p>ations, taking into account the standards of medical care; interpret and analyze the results of consultations with patients' specialists; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; to carry out differential diagnostics of diseases in patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care; apply medical devices in accordance with the current procedures</p>	<p>medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>
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			<p>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 diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>		<p>for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, care, taking into account the standards of medical care</p>	
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7.	GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	<p>IGPC-5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p> <p>IGPC 5.2 Able to: evaluate the basic morphological and functional data, physiological conditions and pathological processes in the human body</p> <p>IOPC 5.3 Has practical experience: assessment of basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems</p>	anatomy, histology, embryology , topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems	evaluate the main morphofunctional data, physiological conditions and pathological processes in the human body	skills in assessing basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems
8.	GPC-6	Able to organize patient care, provide primary health care, ensure the organization of work and the adoption of professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in centers of mass destruction	<p>IGPC 6.1 Knows: methods of collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of providing medical care to patients in emergencies, in emergency situations, epidemics and in areas of mass destruction in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of</p>	methodology for collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of providing medical care to patients in	recognize conditions requiring emergency medical care, including in emergency situations, epidemics and in areas of mass destruction, requiring emergency medical care; organize the work of medical personnel in emergency situations, in emergency situations, epidemics	skills in assessing a condition requiring the provision of medical care in an emergency form, including in emergency situations, epidemics and in centers of mass destruction; recognition of conditions that pose a threat to life, including the state of clinical death (stoppage of vital functions of the human body (blood



			<p>medical care; clinical signs of major medical emergencies; principles of medical evacuation in emergency situations, epidemics and in the centers of mass destruction; principles of work in the centers of mass destruction; principles of organization of patient care, provision of primary health care</p> <p>IGPC 6.2 Is able to:</p> <p>recognize conditions requiring emergency medical care, including in emergency situations, epidemics and in centers of mass destruction, requiring emergency medical care; organize the work of medical personnel in emergency situations, in emergency situations, epidemics and in the centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) respiration); use medicines and medical devices in the provision of medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care</p>	<p>emergencies, in emergency situations, epidemics and in areas of mass destruction in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; clinical signs of major emergencies; principles of medical evacuation in emergency situations, epidemics and in the centers of mass destruction; principles of health care</p>	<p>and in the centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) respiration); use medicines and medical devices in the provision of medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care</p>	<p>circulation and (or) respiration), requiring emergency medical care; provision of emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) respiration); the use of drugs and medical devices in the provision of medical care in emergencies and epidemics; the use of personal protective equipment; organization of patient care, provision of primary medical - health care</p>
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			<p>IGPC-6.3 Has practical experience in: assessing a condition requiring medical care in an emergency form, including in emergency situations, epidemics and in centers of mass destruction; recognition of conditions that pose a threat to life, including the state of clinical death (stoppage of vital functions of the human body (blood circulation and (or) respiration), requiring emergency medical care; provision of emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) respiration); the use of drugs and medical devices in the provision of medical care in emergencies and epidemics; the use of personal protective equipment; organization of patient care, provision of primary medical - health care</p>			
9.	GPC-7	Able to prescribe treatment and monitor its effectiveness and safety	<p>IGPC 7.1 Knows: methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care in the treatment of the most common diseases; the</p>	<p>methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases;</p>	<p>develop a treatment plan for patients with the most common diseases in accordance with the procedures for</p>	<p>the skills to develop a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision</p>

			<p>mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen; features of medical care in emergency forms</p> <p>IGPC 7.2 Is able to: develop a treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; 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>IGPC 7.3 Has practical experience in: developing a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases, in</p>	<p>groups of drugs used to provide medical care in the treatment of the most common diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, undesirable reactions, including serious and unexpected; features of the provision of medical care in emergency forms.</p>	<p>providing medical care, clinical recommendations, taking into account the standards of medical care; 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>of medical care, clinical guidelines, taking into account the standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases, in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; selection and prescription of medicines, medical devices with the most common diseases for the treatment of the most common 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; evaluation of the effectiveness</p>
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			<p>accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; selection and prescription of medicines, medical devices with the most common diseases for the treatment of the most common 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; evaluation of the effectiveness and safety of the use of drugs, medical devices and non-drug treatment in patients with the most common diseases; selection and prescription of non-drug treatment for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; 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;</p>			<p>and safety of the use of drugs, medical devices and non-drug treatment in patients with the most common diseases; selection and prescription of non-drug treatment for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; 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; providing medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases</p>
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			providing medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an emergency form; the use of medicines and medical devices in the provision of medical care in an emergency form			without obvious signs of a threat to the patient's life in an emergency form; the use of medicines and medical devices in the provision of medical care in an emergency form
10.	GPC-8	Able to implement and monitor the effectiveness of the patient's medical rehabilitation, including the implementation of individual rehabilitation and habilitation programs for the disabled, to assess the patient's ability to work	IGPC 8.1 Knows: the procedures for organizing medical rehabilitation, including the implementation of individual programs for the rehabilitation and habilitation of disabled people; methods of medical rehabilitation of the patient, including in the implementation of individual rehabilitation and habilitation programs for disabled people, medical indications and medical contraindications for their implementation, taking into account the diagnosis in accordance with the current procedures for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, resulting from medical rehabilitation measures; procedure for examination of	procedures for organizing medical rehabilitation, including the implementation of individual rehabilitation and habilitation programs for disabled people; methods of medical rehabilitation of the patient, including in the implementation of individual rehabilitation and habilitation programs for disabled people, medical indications and medical contraindications for their implementation, taking into account the	develop an action plan for the medical rehabilitation of patients, including the implementation of individual programs for the rehabilitation and habilitation of disabled people, in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; determine medical indications for medical rehabilitation measures in	skills in drawing up a plan of measures for the medical rehabilitation of a patient, including the implementation of individual programs for the rehabilitation and habilitation of disabled people, in accordance with the current procedure for medical rehabilitation, clinical recommendations, taking into account the standards of medical care; carrying out medical rehabilitation measures for patients, including the implementation of individual programs for the rehabilitation and habilitation of

			<p>temporary disability and signs of temporary disability of the patient; signs of persistent impairment of body functions due to diseases, consequences of injuries or defects</p> <p>IGPC 8.2 Is able to: develop an action plan for the medical rehabilitation of patients, including the implementation of individual rehabilitation programs for the disabled, in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; determine medical indications for medical rehabilitation measures in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; evaluate the effectiveness and safety of measures for the medical rehabilitation of patients, including the implementation of individual programs for the rehabilitation and habilitation of disabled people, in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account</p>	<p>diagnosis in accordance with the current procedures for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen</p> <p>мероприятий медицинской реабилитации; порядок экспертизы временной нетрудоспособности и признаков нарушения функций организма, обусловленных заболеваниями, последствиями травм и дефектами</p>	<p>accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; evaluate the effectiveness and safety of measures for the medical rehabilitation of patients, including the implementation of individual programs for the rehabilitation and habilitation of disabled people, in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; determine signs of temporary disability</p>	<p>disabled people, in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; evaluation of the effectiveness and safety of measures for the medical rehabilitation of patients, including the implementation of individual programs for the rehabilitation and habilitation of disabled people;</p>
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			<p>the standards of medical care; determine signs of temporary disability and signs of permanent impairment of body functions due to diseases, consequences of injuries or defects</p> <p>IGPC 8.3 Has practical experience in: drawing up a plan of measures for the medical rehabilitation of a patient, including the implementation of individual programs for the rehabilitation and habilitation of disabled people, in accordance with the current procedure for medical rehabilitation, clinical recommendations, taking into account the standards of medical care; carrying out medical rehabilitation measures for patients, including the implementation of individual programs for the rehabilitation and habilitation of disabled people, in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; assessment of the effectiveness and safety of measures for the medical rehabilitation of patients, including the implementation of individual programs for the rehabilitation and habilitation of</p>		<p>and signs of permanent impairment of body functions due to diseases, consequences of injuries or defects</p>	
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			disabled people;			
11.	GPC-9	Able to implement the principles of quality management in professional activities	<p>IGPC 9.1 Knows: basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities</p> <p>IGPC 9.2 Is able to: analyze the quality of medical care provided to patients; ensure internal quality control and safety of medical activities; organize the work and monitor the performance of official duties of the medical personnel at their disposal</p> <p>IGPC 9.3 Has practical experience: carrying out work to ensure internal quality control of medical care for dental patients and the safety of medical activities</p>	basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities	analyze the quality of medical care for patients; ensure internal quality control and safety of medical activities; organize the work and monitor the performance of official duties of the medical personnel at their disposal	methodology for conducting work to ensure internal quality control of the provision of medical care to dental patients and the safety of medical activities
12.	GPC-10	Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security	<p>GPC 10.1 Knows: the possibilities of reference and information systems and professional databases; methods of information search, information and communication technologies; modern medical and biological terminology; basics of information security in professional activity</p> <p>IGPC 10.2 Able to: apply modern information and communication technologies to solve the problems of professional activity; to carry out an</p>	the possibilities of reference and information systems and professional databases; methods of information search, information and communication technologies; modern medical and biological terminology; basics of information security in professional	apply modern information and communication technologies to solve the problems of professional activity; to carry out an effective search for information necessary to solve the problems of professional activity using reference systems and	a methodology for using modern information and bibliographic resources, using special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security

			<p>effective search for information necessary to solve the problems of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologies in professional activities, taking into account the basic requirements of information security</p> <p>IGPC 10.3 Has practical experience in: using modern information and bibliographic resources, using special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security</p>	activity	<p>professional databases; use modern medical and biological terminology ; master and apply modern information and communication technologies in professional activities, taking into account the basic requirements of information security</p>	
13.	GPC-11	<p>Able to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system</p>	<p>IGPC-11.1 Knows: scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system</p> <p>IGPC-11.2 Able to: prepare scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system</p>	<p>scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system</p>	<p>prepare scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system</p>	<p>methodology for compiling scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system</p>
14.	PC -1	<p>Able to assess the condition of a patient requiring emergency</p>	<p>IPC 1.1 Knows: etiology, pathogenesis and</p>	<p>etiology, pathogenesis and</p>	<p>identify clinical signs of</p>	<p>a method for detecting clinical signs</p>

		or emergency medical care	<p>pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the condition, the main medical indications for conducting research and interpreting the results in patients requiring medical care in emergency or emergency forms</p> <p>IPC 1.2 Able to: identify clinical signs of conditions requiring emergency or emergency medical care</p>	<p>pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the condition, the main medical indications for conducting research and interpreting the results in patients requiring medical care in emergency or emergency forms</p>	<p>conditions requiring emergency or emergency medical care</p>	<p>of conditions requiring emergency or emergency medical care</p>
15.	PC -2	Able to recognize conditions arising	IPC 2.1 Knows: etiology,	etiology, pathogenesis	identify clinical	a method for identifying

		<p>from sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care, to recognize conditions that threaten the patient's life, including conditions of clinical death (stopping the vital functions of the human body (circulation and / or breathing), requiring medical attention in an emergency form</p>	<p>pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; methodology for collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the patient's condition, the main medical indications for conducting research and interpreting the results; clinical signs of sudden cessation of circulation and/or respiration</p> <p>IPC 2.2 Is able to: identify clinical signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing</p>	<p>s and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; methodology for collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the patient's condition, the main medical indications for conducting research and interpreting the results; clinical signs of sudden</p>	<p>signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing</p>	<p>clinical signs of conditions requiring emergency medical care; requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing</p>
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				cessation of circulation and/or respiration		
16.	PC -3	Able to provide emergency medical care to patients in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life, to provide emergency medical care to patients in conditions that threaten the patient's life, including clinical death (suspension of vital functions the human body (circulation and/or respiration)	<p>IPC</p> <p>3.1 Knows: basic cardiopulmonary resuscitation rules; principles of operation of devices for external electropulse therapy (defibrillation); rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration</p> <p>IPC 3.2 Knows how to: perform measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)</p>	rules for basic cardiopulmonary resuscitation; principles of operation of devices for external electropulse therapy (defibrillation); rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration	carry out measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)	
17.	PC -4	Able to use medicines and medical devices in the provision of medical care in emergency or urgent forms	<p>IPC</p> <p>4.1 Knows: modern methods of using medicines, medical devices for diseases and conditions 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 in the provision of medical care in emergency or urgent forms; the mechanism of action of drugs, medical devices, medical indications</p>	modern methods of using medicines, medical devices for diseases and conditions in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the	prescribe medicines, medical devices, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols)	methods that provide the ability to prescribe drugs, medical devices, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical



			<p>and contraindications to their use;          complications caused by their use;          principles of operation of devices for external electropulse therapy (defibrillation);          rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration</p> <p>IPC 4.2          Knows how to: prescribe medicines, medical devices, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care in emergency or urgent forms</p>	<p>provision of medical care, taking into account the standards of medical care in the provision of medical care in emergency or urgent forms;          the mechanism of action of drugs, medical devices, medical indications and contraindications to their use;          complications caused by their use;          principles of operation of devices for external electropulse therapy (defibrillation);          rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration</p>	<p>on the provision of medical care in emergency or urgent forms</p>	<p>care in emergency or emergency forms</p>
18.	PC -5	<p>Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical</p>	<p>IPC          5.1 Knows: The legislation of the Russian Federation in the field of health care, regulatory legal</p>	<p>Legislation of the Russian Federation in the field of health</p>	<p>to collect complaints, anamnesis of life and disease of the patient</p>	<p>methods, including the collection of complaints, anamnesis of life and</p>

		<p>examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient</p>	<p>acts and other documents that determine the activities of medical organizations and medical workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; patterns of functioning of a healthy human body and mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of the human body in pathological processes; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results</p> <p>IPC 5.2 Able to: collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination</p>	<p>care, regulatory legal acts and other documents that determine the activities of medical organizations and medical workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; patterns of functioning of a healthy human body and mechanisms</p>	<p>and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures</p>	<p>disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures</p>
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			of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures	for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of the human body in pathological processes; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results		
19.	PC -6	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	IPC 6.1 Knows: general issues of organizing medical care for the population, methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting studies, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care IPC 6.2	general issues of organizing medical care for the population, methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results;	justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors;	methods to justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision

		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	Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care	determine medical indications for the provision of emergency, including emergency specialized, medical care	of emergency, including emergency specialized, medical care
20.	PC -7	Able to make a differential diagnosis with other diseases/conditions, including emergencies, to establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD)	<p>IPC 7.1          Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; ICD</p> <p>IPC 7.2          Able to: analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during</p>	etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of the gastrointestinal tract; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; ICD	analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during consultations of the patient by medical	methods that allow analyzing the results of the patient's examination, if necessary, substantiating and planning the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during consultations of the patient by medical

			the instrumental examination of the patient; interpret the data obtained during consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases		obtained during consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases	specialists; to carry out differential diagnostics of diseases of internal organs from other diseases
21.	PC -8	Able to develop a treatment plan for a disease or condition and prescribe drugs, medical devices, clinical nutrition and non-drug treatment, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account standards of medical care and evaluate the effectiveness and safety of the use of medicines, medical devices, clinical nutrition and other methods of treatment	IPC -8.1 Knows: modern methods of using medicines, medical devices and nutritional therapy for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; the mechanism of action of drugs, medical products and medical nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in a patient 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	modern methods of using medicines, medical devices and clinical nutrition for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; the mechanism of action of drugs, medical products and medical nutrition, medical	draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the age of the patient, the clinical picture of the disease 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; prescribe medicines, medical products and medical	methods that make it possible to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the age of the patient, the clinical picture of the disease 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; prescribe medicines, medical products and medical nutrition, taking into account the diagnosis, age and clinical

			<p>care; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use</p> <p>IPC 8.2  Able to: draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the age of the patient, the clinical picture of the disease 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; prescribe medicines, medical products and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease 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; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical</p>	<p>indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in a patient 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; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use</p>	<p>nutrition, taking into account the diagnosis, age and clinical picture of the disease 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; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of</p>	<p>picture of the disease 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; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease 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; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition</p>
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			<p>recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition</p>		<p>medical care, taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition</p>	
22.	PC -9	<p>Able to provide palliative care in cooperation with medical specialists and other medical professionals</p>	<p>IPC-9.1 Knows: The procedure for providing palliative care</p> <p>IPC 9.2 Able to: Prescribe medications, medical devices and nutritional therapy, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease 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</p>	<p>The procedure for providing palliative care</p>	<p>Prescribe medicines, medical devices and nutritional therapy, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-drug treatment taking into account the</p>	<p>methods that allow prescribing medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease 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; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance</p>

			care; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition		diagnosis, age and clinical picture of the disease 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; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition	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; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition
23.	PC -10	Able to organize personalized treatment of the patient, including pregnant women, elderly and senile patients, evaluate the effectiveness and safety of treatment	IPC 10.1 Knows: modern methods of using medicines, medical devices and nutritional therapy for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; the mechanism of action	modern methods of using medicines, medical devices and clinical nutrition for diseases and conditions in a patient in accordance with the current procedures for the provision of	prescribe medicines, medical products and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the	methods that allow prescribing medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision

			<p>of drugs, medical products and medical nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in a patient 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; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use</p> <p>IPC 10.2 Knows how to: prescribe medicines, medical devices and nutritional therapy, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical</p>	<p>medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; the mechanism of action of drugs, medical products and medical nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking</p>	<p>provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease 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; evaluate the effectiveness and safety of the use of medicines, medical</p>	<p>of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease 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; evaluate the effectiveness and safety of the use of medicines, medical</p>
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			care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and clinical nutrition	into account the standards of medical care; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use	devices and clinical nutrition	
24.	PC -13	Able to refer a patient in need of medical rehabilitation to a specialist doctor for prescribing and conducting medical rehabilitation measures, including for prescribing and conducting sanatorium treatment, and to carry out medical rehabilitation measures for the patient, including when implementing an individual rehabilitation or habilitation program persons with disabilities, 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	IPC 13.1 Knows: measures for the medical rehabilitation of the patient, medical indications and contraindications for their implementation, taking into account the diagnosis 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; medical indications and contraindications to the appointment of spa treatment as a stage of the patient's medical rehabilitation; features of medical rehabilitation of elderly and senile patients IPC 13.2 Able to: Determine medical indications for medical rehabilitation measures, including	measures for the medical rehabilitation of the patient, medical indications and contraindications for their implementation, taking into account the diagnosis 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	determine medical indications for carrying out medical rehabilitation measures, including when implementing an individual rehabilitation or habilitation program for disabled people, 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; determine medical specialists to	methods that allow determining medical indications for medical rehabilitation measures, including the implementation of an individual rehabilitation or habilitation program for disabled people, 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>when implementing an individual rehabilitation or habilitation program for people with disabilities, 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; determine medical specialists to carry out rehabilitation measures for a patient in need of medical rehabilitation, taking into account the diagnosis and 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; perform measures for the medical rehabilitation of the patient 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; prescribe sanatorium-and-spa treatment to a patient in need of medical rehabilitation, including when implementing an individual</p>	<p>medical care; medical indications and contraindications to the appointment of spa treatment as a stage of the patient's medical rehabilitation; features of medical rehabilitation of elderly and senile patients</p>	<p>standards of medical care; determine medical specialists to carry out rehabilitation measures for a patient in need of medical rehabilitation, taking into account the diagnosis and 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; perform measures for the medical rehabilitation of the patient in accordance with the current procedures for the provision of medical care, clinical recommend</p>	<p>carry out rehabilitation measures for a patient in need of medical rehabilitation, taking into account the diagnosis and 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; perform measures for the medical rehabilitation of the patient 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; prescribe sanatorium-and-spa treatment to a patient in need of medical rehabilitation, including when implementing an individual</p>
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			rehabilitation or habilitation program for disabled people, in accordance with the current clinical recommendations (treatment protocols) on the provision of medical care, procedures for the provision of medical care and taking into account the standards of medical care		ations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe sanatorium-and-spa treatment to a patient in need of medical rehabilitation, including when implementing an individual rehabilitation or habilitation program for disabled people, in accordance with the current clinical recommendations (treatment protocols) on the provision of medical care, procedures for the provision of medical care and taking into account the standards of medical care	rehabilitation or habilitation program for disabled people, in accordance with the current clinical recommendations (treatment protocols) on the provision of medical care, procedures for the provision of medical care and taking into account the standards of medical care
25.	PC -16	Able to organize and control the immunoprophylaxis of infectious diseases	IPC 16.1 Knows: the principles of the application of specific and non-specific	principles for the use of specific and non-	organize and conduct immunoprophylaxis of	methods that allow organizing and conducting

		<p>in the adult population, prescribe preventive measures to patients, taking into account risk factors 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 monitor compliance with preventive measures</p>	<p>prevention of infectious diseases, the national calendar of preventive vaccinations and the calendar of preventive vaccinations according to epidemic indications; legislation of the Russian Federation in the field of health protection, sanitary rules and regulations; preventive measures taking into account the diagnosis 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 16.2 Able to: organize and conduct immunoprophylaxis of infectious diseases in the adult population in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases</p>	<p>specific prevention of infectious diseases, the national calendar of preventive vaccinations and the calendar of preventive vaccinations according to epidemic indications; legislation of the Russian Federation in the field of health protection, sanitary rules and regulations; preventive measures taking into account the diagnosis 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>infectious diseases in the adult population 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; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases</p>	<p>immunoprophylaxis of infectious diseases in the adult population 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; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases</p>
26.	PC -19	<p>Able to form healthy lifestyle programs, including programs to reduce alcohol and</p>	<p>I PC 19.1 Knows: forms and methods of sanitary and</p>	<p>forms and methods of sanitary and educational</p>	<p>develop and implement programs for the</p>	<p>methods that allow developing and</p>



		<p>tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances, evaluate the effectiveness of preventive work with patients</p>	<p>educational work on the formation of elements of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances</p> <p>I PC 19.2 Able to: develop and implement programs for the formation of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances</p>	<p>work on the formation of elements of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances</p>	<p>formation of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances</p>	<p>implementing healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances</p>
27.	PC -22	<p>Able to maintain medical records, including in electronic form</p>	<p>IPC 22.1 Knows: the legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and medical workers; rules of work in information systems and information and telecommunications network "Internet"; rules for issuing medical documentation in medical organizations providing medical care on an</p>	<p>legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and medical workers; rules of work in information systems and information and telecommun</p>	<p>fill in medical documentation, including in electronic form; work with personal data of patients and information constituting a medical secret; use information systems and information and telecommunications network "Internet" in professional activities</p>	<p>own methods that allow filling out medical documentation, including in electronic form; work with personal data of patients and information constituting a medical secret; use information systems and information and telecommunications network "Internet" in professional activities</p>

			<p>outpatient basis, including at home when a medical worker is called</p> <p>IPC 22.2 Able to: fill in medical documentation, including in electronic form; work with personal data of patients and information constituting a medical secret; use information systems and information and telecommunications network "Internet" in professional activities</p>	<p>ications network "Internet"; rules for issuing medical documentation in medical organizations providing medical care on an outpatient basis, including at home when a medical worker is called</p>		
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#### 4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	(UC-1, 4, 5); (GPC-1, 2, 4, 5, 6, 7, 11); (PC -1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22)	Diseases of the upper respiratory tract.	Basic concepts. Classification of diseases of the upper respiratory tract. Etiology. Pathogenesis. Clinical picture. Diagnostic methods. Treatment tactics. Flu. Distinctive features of clinical manifestations of influenza and other acute respiratory viral infections (rhinovirus, adenovirus, respiratory syncytial infection, parainfluenza). Highly pathogenic strains of influenza virus: A/H1N1 ("swine flu"), A/H5N1 ("bird flu"). A new coronavirus infection. Treatment.
2	(UC-1, 4, 5); (GPC-1, 2, 4, 5, 6, 7, 11); (PC -1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22)	Bronchial asthma	Bronchial asthma (Definition of bronchial asthma. Modern classification. Criteria for diagnosis, determination of severity. GCS in the treatment of asthma. Indications for the appointment of inhaled and systemic GCS in bronchial asthma. Methods of delivery of inhaled drugs. Determination of the daily dose of IGCS depending on the severity of AD. The concept of "controlled asthma". Monitoring the course of asthma. The role of peak flowmetry. Criteria for the severity of the exacerbation of AD, emergency therapy.
3	(CC-1, 4, 5); (GPC-1, 2, 4, 5, 6, 7,	Chronic obstructive bronchitis.	Chronic obstructive pulmonary disease (COPD). The concept. Classification. Diagnosis criteria. Differential diagnosis. Strategy and tactics of therapy. Differential

	11); (PC -1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22)		diagnosis of bronchoobstructive syndrome (COPD, bronchial asthma).
4	(CC-1, 4, 5); (GPC-1, 2, 4, 5, 6, 7, 11); (PC -1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22)	Interstitial lung diseases	Determination of focal and disseminated lung lesions, differential diagnostic criteria, clinical and instrumental manifestations. Features of therapy. Sarcoidosis of the respiratory organs. Idiopathic pulmonary fibrosis. Clinical and instrumental manifestations. Features of therapy.

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

The total labor intensity of the discipline is 2 credits

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	12 semester
Classroom work, including			
Lectures (L)	0,39	14	14
Laboratory practicum (LP)*	-	-	-
Practicals (P)	0,83	30	30
Seminars (S)	-	-	-
Student's individual work (SIW)	0,78	28	28
Mid-term assessment			
credit/exam ( <i>specify the type</i> )			credit
<b>TOTAL LABOR INTENSITY</b>	<b>2</b>	<b>72</b>	<b>72</b>

### 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	Diseases of the upper respiratory tract	2			6	4	12
2	Bronchial asthma	2			8	8	18
3	Chronic obstructive bronchitis	4			8	8	20
4	Interstitial lung diseases	6			8	8	22
	Total	14			30	28	72

\* - 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 12 semester

1	New in the diagnosis and treatment of diseases occurring with bronchial obstruction.	2
2	Urgent conditions in pulmonology: pulmonary embolism (PE), asthmatic status (AS), adult respiratory distress syndrome (RDSV).	2
3	Lung damage in diffuse connective tissue diseases (DBST).	2
4	Fungal lung diseases.	2
5	Pulmonary eosinophilia.	2
6	Interstitial lung diseases.	2
7	Sleep apnea syndrome.	2
	TOTAL (total - AH)	14

#### 6.2.2. Thematic plan of practicals

№	Name of laboratory practicums	Volume in AH 12 semester
1	Diseases of the upper respiratory tract	6
2	Bronchial asthma	8
3	Chronic obstructive bronchitis	8
4	Interstitial lung diseases	8
	TOTAL (total - AH)	30

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

№	Name of the topics of practicals	Volume in AH 12 semester
1	writing case histories, abstracts	6
2	preparation of reports, speeches	6
3	preparation for participation in classes in an interactive form (role-playing and business games, trainings, game design, computer simulation, discussions),	4
4	work with electronic educational resources posted on the educational portal of the Federal State Educational Institution of Higher Education "PIMU" of the Ministry of Health of the Russian Federation	6
5	work with literary and other sources of information on the section under study, including in an interactive form	6
	TOTAL (total - AH)	28

#### 6.2.4. Student's research work:

№	The name of the topics of the student's research work	Volume in AH 12 semester
1	New medical technologies in the diagnosis and treatment of respiratory diseases	
2	Rational pharmacotherapy of respiratory pathology	
	TOTAL (total - 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.	12	Current monitoring	Diseases of the upper respiratory tract	UC – 1, 4, 5 GPC – 1, 2, 4, 5, 6, 7, 10, 11 PC – 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22	Test	10	Unlimited (computer testing)
					Interview	1	According to the number of students in the group
					Report	1	5
					Situational tasks	1	5
			Bronchial asthma	UC – 1, 4, 5 GPC – 1, 2, 4, 5, 6, 7, 10, 11 PC – 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22	Test	10	Unlimited (computer testing)
					Interview	1	According to the number of students in the group
					Report	1	5
					Situational tasks	1	5
			Chronic obstructive bronchitis	UC – 1, 4, 5 GPC – 1, 2, 4, 5, 6, 7, 10, 11 PC – 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22	Test	10	Unlimited (computer testing)
					Interview	1	According to the number of students in the group
					Report	1	5
					Situational tasks	1	5
Interstitial lung diseases	UC – 1, 4, 5 GPC – 1, 2, 4, 5, 6, 7, 10, 11 PC – 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22	Test	10	Unlimited (computer testing)			
		Interview	1	According to the number of students in the group			
		Report	1	5			

					Situational tasks	1	5
2.		Mid-term assessment	Credit	All sections of the discipline	Control questions	3	42
					Situational tasks	1	15

## 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	in the library
1	Internal diseases: textbook / Makolkin V.I., Ovcharenko S.I. - 5th ed., reprint. and additional – M.: Medicine, 2011. - 592 p.	0	48
2	Internal diseases: textbook / Makolkin V.I., Ovcharenko S.I., Sulimov V.A. - 6th ed., reprint. and additional – M.: GEOTAR-Media, 2012. - 768 p.	0	30
3	Internal diseases: differential diagnosis and treatment: textbook / Bokarev I.N. - M.: Medical Information Agency, 2009. - 1004 p.	0	51
4	Internal diseases: textbook with CD / edited by N.A. Mukhin, V.S. Moiseev and A.I. Martynov. - 2nd ed., ispr. and add. - M.: GEOTAR-Media, 2006. - Vol.1 and 2. – 672 p. and 592 p.	0	71
5	Internal diseases: textbook / ch. ed. V.S. Moiseev, A.I. Martynov, N.A. Mukhin; - 3rd ed., ispr.. - M.: GEOTAR-Media, 2013. - Vol.1 and 2. - 960 p. and 896 p.	0	51
6	Typical test tasks for the final state certification of graduates of higher medical educational institutions in the specialty 060101 (040100) "Medical business": in 2 parts / edited by M.A. Paltsev, V.N. Yarygin, N.D. Yushchuk, I.N. Denisov, N.N. Volodin and P.A. Dushenkov. - M.: Publishing house of GO VUNMC of the Ministry of Health of the Russian Federation, 2006. – 480 p. and 416 p.	0	253

### 8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Rheumatology: clinical recommendations / ed. E.L. Nasonov; Publishing house of the Association of Rheumatologists of Russia. - 2nd	0	1

	ed., ispr. and add. - M.: GEOTAR-Media, 2011. - 752 p.		
2	Pulmonology. National leadership / Edited by A.G. Chuchalin; Ed. The organization is the Russian Respiratory Society. - Moscow: GEOTAR-Media, 2009. - 960 p.	0	1
3	Acute pulmonary embolism: clinic, diagnosis, treatment: textbook / A. P. Medvedev, S. V. Nemirova, V. V. Pichugin, L. N. Ivanov, M. L. Kalinina, Nizhny Novgorod State Medical Academy. – N.Novgorod: NizhGMA, 2013. – 90 p.	1	5

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

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

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
	Internal electronic library system (WEB)	The works of the academic staff of the Academy: textbooks and manuals, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents.	from any computer located on the Internet, using an individual login and password [Electronic resource] – Access mode: <a href="http://95.79.46.206/login.php">http://95.79.46.206/login.php</a>	Not limited

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

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Electronic database "Student Consultant"	Educational literature + additional materials (audio, video, interactive materials, test tasks) for higher medical and pharmaceutical education. Publications are structured by specialties and disciplines in	from any computer located on the Internet, using an individual login and password [Electronic resource] – Access mode: <a href="http://www.studmedlib.ru/">http://www.studmedlib.ru/</a>	General PIM subscription



		accordance with the current FGOS VPO.		
2	Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishers, including translations of foreign publications.	from any computer located on the Internet by login and password, from the computers of the academy.  The subscription editions are available for reading . [Electronic resource] – Access mode: <a href="http://www.books-up.ru/">http://www.books-up.ru/</a>	General  PIM subscription
3	"Bibliopoisk"	Integrated "single window" search service for electronic catalogs, EBS and full-text databases. The results of a single search in the demo version include documents from domestic and foreign electronic libraries and databases available to the university as part of a subscription, as well as from open access databases.	PIM has access to the demo version of the Bibliopoisk search engine: <a href="http://bibliosearch.ru/pimu">http://bibliosearch.ru/pimu</a> .	General  PIM subscription
4	Domestic electronic periodicals	Periodicals on medical subjects and on higher school issues	from any computer located on the Internet by login and password, from the computers of the academy.  The subscription editions are available for reading . [Electronic resource] – Access mode: <a href="http://www.books-up.ru/">http://www.books-up.ru/</a>	
5	International Scientometric	Web of Science covers materials	Access is free from PIM computers	From the

database "webofsciencecorecoinction "	on natural, technical, social, and humanitarian sciences; takes into account the mutual citation of publications developed and provided by ThomsonReuters; has built-in capabilities for searching, analyzing, and managing bibliographic information.	[Electronic resource] – Access to the resource at: <a href="http://apps.webofknowledge.com">http://apps.webofknowledge.com</a>	computer s of the PIM access is free
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### 8.3.3 Open access resources

№	Name of the electronic resource	Brief description (content)	Access conditions
1	Federal Electronic Medical Library (FEMB)	Includes electronic analogues of printed publications and original electronic publications that have no analogues recorded on other media (dissertations, abstracts, books, magazines, etc.). [Electronic resource] – Access mode: <a href="http://нэб.рф/">http://нэб.рф/</a>	from any computer on the network The Internet
2	Scientific Electronic Library eLIBRARY.RU	The largest Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of scientific articles and publications. [Electronic resource] – Access mode: <a href="https://elibrary.ru/">https://elibrary.ru/</a>	from any computer on the network The Internet
3	Open Access Scientific Electronic Library CyberLeninka	Full texts of scientific articles with annotations published in scientific journals of Russia and neighboring countries. [Electronic resource] – Access mode: <a href="http://cyberleninka.ru/">http://cyberleninka.ru/</a>	from any computer on the network The Internet

4	Russian State Library (RSL)	Abstracts for which there are copyright agreements with permission for their open publication [Electronic resource] – Access mode: <a href="http://www.rsl.ru/">http://www.rsl.ru/</a>	from any computer on the network The Internet
5	Legal reference system "Consultant Plus"	Federal and regional legislation, judicial practice, financial advice, comments on legislation, etc. [Electronic resource] – Access mode: <a href="http://www.consultant.ru/">http://www.consultant.ru/</a>	from any computer on the network The Internet
6	Official website Ministry of Health	National clinical guidelines from any computer, Russian Federations [Electronic resource] – Mode доступа: <a href="http://cr.rosminzdrav.ru">cr.rosminzdrav.ru</a> - Clinical recommendations	from any computer on the network The Internet

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

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

- Lecture hall equipped with multimedia equipment and microphone
- Offices for conducting clinical practical classes
- Multidisciplinary accreditation and Simulation Center
- Chambers of Pulmonology departments of the clinical base of the Department of Endocrinology and Internal Diseases

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

- Multimedia complex
- Medical documentation: medical history, outpatient card
- Archival and educational case historie
- A set of samples of laboratory analysis results
- Album of instrumental research results.
- Tonometers.
- Phonendoscopes.
- Tables.
- Slides and multimedia presentations of lectures.
- Standardized patient
- Role-playing and business game

### 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  
*Endocrinology and internal diseases*

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**CHANGE REGISTRATION SHEET**

working program for the academic discipline  
***NAME OF THE ACADEMIC DISCIPLINE***

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Field of study / specialty / scientific specialty: \_\_\_\_\_

(code,

name)

Training profile: \_\_\_\_\_

(name) - for master's degree programs

Mode of study: \_\_\_\_\_

full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting

Protocol No. \_\_\_\_ of \_\_\_\_\_ 20\_\_

Head of the Department

\_\_\_\_\_  
department name, academic title

\_\_\_\_\_  
signature

\_\_\_\_\_  
print name