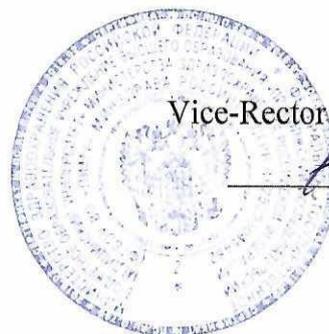


Federal State Budgetary Educational Institution of Higher Education  
"Privolzhsky Research Medical University"  
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

## WORKING PROGRAM

Name of the academic discipline: **HOSPITAL THERAPY AND ENDOCRINOLOGY**

Specialty: **31.05.01 GENERAL MEDICINE**  
(code, name)

Qualification: **GENERAL PRACTITIONER**

Department: **ENDOCRINOLOGY AND INTERNAL DISEASES**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **468 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:**

Petrov Alexander Vladimirovich, MD, PhD, Associate Professor, Associate Professor of the Department of Endocrinology and Internal Medicine

The work program was reviewed and approved at a meeting of the Department of Endocrinology and Internal Medicine,  
protocol No. \_\_ dated 01 June 2021

Head of the Department,  
MD, PhD, Associate professor  Pochinka Iliya Grigirievich  
(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 discipline Hospital therapy and endocrinology.**

### **1.1. The purpose of mastering the discipline.**

The main goal of mastering and teaching the discipline is to participate in the formation of universal, general professional and professional competencies necessary for a university graduate in this specialty to perform the required amount of actions in accordance with the professional standard "physician"

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

As a result of studying the discipline, the student must:

#### ***Know:***

- etiology, pathogenesis, diagnosis, treatment and prevention of the most common diseases among the population;
- clinical picture, course features and possible complications of the most common diseases occurring in a typical form in adolescents and adults;
- modern methods of clinical, laboratory and instrumental diagnostics of therapeutic patients;
- features of providing medical care to the adult population and adolescents in emergency conditions;
- clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases and emergency conditions in patients;
- indications and contraindications for referring patients with the most common diseases to sanatorium treatment;
- the basics of organizing inpatient care for adolescents and adults;
- maintenance of standard accounting and reporting medical documentation in medical and preventive institutions of the healthcare system, examination of working capacity;
- the basics of applying the methods of evidence-based medicine in assessing the health status of the adult population 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, measurement of blood pressure, determination of the characteristics of the pulse, respiratory rate, etc.);
- send for laboratory and instrumental examination, for consultation with specialists;
- interpret the results of the examination, use the data of a physical, laboratory and instrumental examination, laboratory data for making a diagnosis on an outpatient and inpatient basis.
- outline the scope of additional studies to clarify the diagnosis; formulate a clinical diagnosis;
- develop an optimal treatment plan for a sick person, taking into account the course of the disease, select and prescribe drug therapy taking into account the pharmacokinetics and pharmacodynamics of drugs, prevent their unwanted side effects, use non-drug treatment methods;
- draw up a rehabilitation program at the hospital and outpatient stage, monitor its implementation;
- provide qualified assistance in the most common emergency conditions: hypertensive crisis, an attack of bronchial asthma, anginal attack, an attack of hepatic and renal colic, etc. ;
- to diagnose and provide emergency care for coma in patients with diabetes mellitus;
- timely and correctly recognize the borderline pathology encountered in the practice of the therapist:
  - the most frequent infectious diseases and especially dangerous infections;
  - mental illness;
  - diseases of the endocrine system;

- tuberculosis;
- ENT diseases;
- diseases of the peripheral nervous system;
- acute abdomen;
- determine the fact of temporary disability, its cause, the criteria for recovery and rehabilitation;
- determine the indications for employment, the establishment of a disability group and its prediction;
- maintain medical documentation of various nature in outpatient and inpatient facilities;
- carry out sanitary and educational work, draw up its plan;
- supervise the work of nursing staff in the hospital;

**Possess:**

- basic information transformation technologies: text, spreadsheet editors; technique of working on the Internet for professional activities;
- 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 their subsequent referral for additional examination and to specialist doctors;
- an algorithm for making a detailed clinical diagnosis;
- an algorithm for the implementation of basic medical diagnostic and therapeutic measures to provide first medical 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 "hospital therapy and endocrinology" of Block 1 of GEP HE (Academic discipline index).

The discipline is taught in 9,10,11,12 semesters/5-6 years of study.

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

- in the cycle of humanitarian and socio-economic disciplines (philosophy, bioethics; jurisprudence; history of medicine; Latin and foreign languages);
- in the cycle of mathematical, natural science disciplines: physics, mathematics; medical informatics; chemistry; psychiatry, biology; biochemistry; anatomy; topographic anatomy and operative surgery; histology, embryology, cytology; normal physiology; microbiology, virology; immunology; pathological anatomy, clinical pathological anatomy; pathophysiology, clinical pathophysiology; pharmacology;
- in the cycle of professional disciplines: propaedeutics of internal diseases, radiation diagnostics; faculty therapy; endocrinology; polyclinic therapy; anesthesiology, resuscitation, intensive therapy; traumatology, orthopedics, general surgery, radiation diagnostics; faculty surgery, urology; hospital surgery; obstetrics and gynecology; pediatrics; oncology, radiation therapy; dentistry; hygiene; public health and health care, health economics; infectious diseases; epidemiology; medical rehabilitation; clinical pharmacology; pathophysiology; dermatovenereology; neurology, medical genetics, neurosurgery; psychiatry; medical psychology; otolaryngology; ophthalmology; forensic Medicine; life safety, disaster medicine;

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

not applicable, this discipline is the final one in the training program

### 3. The results of mastering the discipline and indicators of the achievement of competencies:

The study of the discipline is aimed at developing the following universal (UC), general professional (GPC) and professional (PC) competencies among students:

p / no .	The code competence s	The content of the competence (or part of it)	Code and name of the indicator of achievement of competence	As a result of studying the discipline, students should:		
				Know	Be able to	Own
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IET 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUK 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 IUK 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems	methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis,	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	IUK 4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business	basics of oral and written communication in Russian and foreign languages, functional	express your thoughts in Russian and foreign languages in business communication	skills in compiling texts in Russian and foreign languages related to professional activities;

		professional interaction	communication, modern means of information and communication technologies IUK 4.2 Knows how to: express their thoughts in Russian and foreign languages in business communication IUK 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	styles of the native language, requirements for business communication, modern means of information and communication technologies		experience in translating medical texts from a foreign language into Russian; experience of speaking Russian and foreign languages
3.	UC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	IUK 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 IUK 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	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	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

			of intercultural interaction		characteristics	l interaction
4.	GP C-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	<p>IOTC 1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice</p> <p>IOPC 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>IOPC 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>	foundations of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice	apply ethical standards and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives)	skills in 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
5.	GP C-2	Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and	IOPC 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	the main criteria for a healthy lifestyle and methods of its formation; socio-hygienic	conduct sanitary and hygienic education among children and adults (their legal representati	skills to promote a healthy lifestyle and prevent the most common diseases; carrying out

		<p>hygienic education of the population</p>	<p>their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic health-improving hygiene measures that promote health and prevent the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common diseases  IOTC 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</p>	<p>and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic health-improving hygiene measures that promote health and prevent the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common</p>	<p>ves) 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</p>	<p>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</p>
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		<p>alcohol and tobacco, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including cancer; select and prescribe drugs and non-drug methods for the prevention of the most common diseases</p> <p>IOTC 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</p>	diseases	<p>the consumption of alcohol and tobacco, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to patients, taking into account risk factors for the prevention and early detection of diseases, including cancer; select and prescribe drugs and non-drug methods for the prevention of the most common</p>	<p>prevention of the most common diseases; prescribing preventive measures for children and adults, taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; selection and prescription of drugs and non-drug methods for the prevention of the most common diseases</p>
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			substances; development of a plan of preventive measures and the implementation of methods of group and individual prevention of the most common diseases; prescribing preventive measures for children and adults, taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; selection and prescription of drugs and non-drug methods for the prevention of the most common diseases		diseases	
6.	GP C-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	IOTC 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	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	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;	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

		<p>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>IOPC 4.2 Is able to: collect complaints, 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</p>	<p>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</p>	<p>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</p>	<p>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 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</p>
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		<p>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 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>care, care, taking into account the standards of medical care</p>	<p>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 the results of consultations with patients' specialists; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental)</p>	<p>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>IDGPC 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 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</p>	<p>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>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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			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			
7.	GP C-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	IOPC-5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems IOPC 5.2 Able to: evaluate the basic morphological and functional data, physiological conditions and pathological processes in the human body 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	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.	GP C-6	Able to organize patient care, provide primary health	IOTC 6.1 Knows: methods of collecting complaints and anamnesis from patients (their legal	methodology for collecting complaints and	recognize conditions requiring emergency medical	skills in assessing a condition requiring the

	<p>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>	<p>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 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 IOPC 6.2 Is able to: 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</p>	<p>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 medical care; clinical signs of major medical</p>	<p>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 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</p>	<p>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 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</p>
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		<p>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>IOPC-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</p>	<p>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>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>(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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			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			
9.	GP C-7	Able to prescribe treatment and monitor its effectiveness and safety	<p>IOPC 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 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>IOTC 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</p>	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 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	develop a treatment plan for patients with the most common diseases in accordance with the procedures for 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	the skills to develop 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 accordance with the

		<p>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>IOTC 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 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</p>	<p>effects, adverse reactions, including serious and unforeseen; features of the provision of medical care in emergency forms.</p>	<p>therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p>	<p>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</p>
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			<p>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; 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</p>			<p>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</p>
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						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 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.	GP C-8	Able to implement and monitor the effectiveness of the patient's medical rehabilitation, including the implementation of individual rehabilitation	IOPC 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	procedures for organizing medical rehabilitation, including the implementation of individual	develop an action plan for the medical rehabilitation of patients, including the implementation of	skills in drawing up a plan of measures for the medical rehabilitation of a patient, including the

		<p>and habilitation programs for the disabled, to assess the patient's ability to work</p>	<p>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 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>IOPC 8.2 Is able to: 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 procedures for</p>	<p>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 diagnosis in accordance with the current procedures for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; ways to prevent</p>	<p>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 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</p>	<p>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 recommend</p>
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			<p>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 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>IOPC 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</p>	<p>or eliminate complications, side effects, adverse reactions, including serious and unforeseen, resulting from medical rehabilitation measures; procedure for examination of 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>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 and signs of permanent impairment of body functions due to diseases, consequences of injuries or defects</p>	<p>ations, 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>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; 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>			
11.	GP C-9	Able to implement the principles of quality management in professional activities	<p>IOPC 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>IOTC 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</p>	<p>basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities</p>	<p>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</p>	<p>methodology for conducting work to ensure internal quality control of the provision of medical care to dental patients and the safety of medical activities</p>

			<p>performance of official duties of the medical personnel at their disposal</p> <p>IOPC 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>		<p>duties of the medical personnel at their disposal</p>	
12.	GP C-10	<p>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>	<p>IOPC 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>IOPC 10.2 Able to: 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 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>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>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 professional databases; use modern medical and biological terminology; master and apply modern information and communication</p>	<p>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>

			IOPC 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		tion technologies in professional activities, taking into account the basic requirements of information security	
13.	GPC-11	Able to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	IOPC-11.1 Knows: scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system  IOPC-11.2 Able to: prepare scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	prepare scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	methodology for compiling scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system
14.	PC - 1	Able to assess the condition of a patient requiring emergency or emergency medical care	IPC 1.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing	etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methodology for collecting	identify clinical signs of conditions requiring emergency or emergency medical care	a method for detecting clinical signs of conditions requiring emergency or emergency medical care

			<p>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>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>		
15.	PC-2	<p>Able to recognize conditions arising from sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and</p>	<p>IPC 2.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis from patients (their legal representatives);</p>	<p>etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes</p>	<p>identify clinical signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care,</p>	<p>a method for identifying clinical signs of conditions requiring emergency medical care; requiring emergency medical care,</p>

		<p>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>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>of diseases of internal organs; 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>including clinical signs of sudden cessation of blood circulation and breathing</p>	<p>including clinical signs of sudden cessation of blood circulation and breathing</p>
16.	PC-3	Able to provide	IPC 3.1 Knows: basic cardiopulmonary	rules for basic	carry out measures to	

		<p>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>	<p>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>	<p>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</p>	<p>provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)</p>	
17.	PC-4	<p>Able to use medicines and medical devices in the provision of medical care in emergency or urgent forms</p>	<p>IPC 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,</p>	<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)</p>	<p>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</p>	<p>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</p>

		<p>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>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 recommendations (treatment protocols) on the provision of medical care in emergency or urgent forms</p>	<p>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 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</p>	<p>protocols) on the provision of medical care in emergency or urgent forms</p>	<p>care, clinical guidelines (treatment protocols) on the provision of medical care in emergency or emergency forms</p>
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				and / or respiration		
18.	PC-5	Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical 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	IPC 5.1 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; 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 internal organs; 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  IPC 5.2 Able to:	Legislation of the Russian Federation in the field of health 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	to collect complaints, anamnesis of life and 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 HEIume, content and sequence of diagnostic measures	methods, including the collection of complaints, anamnesis of life and 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 HEIume, content and sequence of diagnostic measures

			<p>collect complaints, anamnesis of life and 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 HELume, content and sequence of diagnostic measures</p>	<p>features, complications and outcomes of diseases of internal organs; 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>		
19.	PC-6	Able to refer the patient for laboratory, instrumental	IPC 6.1 Knows: general issues of organizing medical care for the	general issues of organizing medical	justify the need and scope of laboratory	methods to justify the need and scope of

	<p>examination, for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>	<p>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</p> <p>IPC 6.2 Knows how 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 specialized, medical care</p>	<p>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; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care</p>	<p>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 specialized, medical care</p>	<p>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 specialized, medical care</p>
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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 internal organs; 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 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</p>	etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; 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 specialists; to carry out differential diagnostics of diseases of internal organs from other	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 specialists; to carry out differential
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					diseases	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 clinical nutrition for 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; 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 care; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side	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 recommendations (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	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	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

		<p>effects, complications caused by its use</p> <p>IPC 8.2 Is able to: draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, 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 recommendations (treatment protocols) on the provision of</p>	<p>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</p>	<p>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)</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 recommend</p>
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			<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>	<p>by its use</p>	<p>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>ations (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>
22.	PC-9	<p>Able to provide palliative care in cBEPeration with medical specialists and other medical professionals</p>	<p>IPK-9.1 Knows: The procedure for providing palliative care</p> <p>IPC 9.2 Able 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</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</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)</p>

			<p>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>		<p>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>	<p>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</p>
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						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 clinical nutrition for 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; 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 care; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use IPC 10.2 Knows how to: prescribe medicines, 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 recommendations (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	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	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 with the

			<p>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 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>	<p>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>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>	<p>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>
24.	PC-13	Able to refer a patient in need of medical rehabilitation	IPC 13.1 Knows: measures for the medical rehabilitation of the patient, medical	measures for the medical rehabilitation	determine medical indications for carrying	methods that allow determining medical

	<p>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</p>	<p>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 Is able to: Determine medical indications for medical rehabilitation measures, including the implementation of an individual 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 carry out rehabilitation measures for a patient in need of medical rehabilitation, taking</p>	<p>on 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 on; features of medical</p>	<p>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 carry out rehabilitation measures for a patient in need of medical rehabilitation, taking into</p>	<p>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</p>
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			<p>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 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</p>	<p>rehabilitation of elderly and senile patients</p>	<p>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</p>	<p>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</p>
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					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	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
25.	PC-16	Able to organize and control the immunoprophylaxis of infectious diseases in the adult	IPC 16.1 Knows: the principles of the use of specific and non-specific prevention of infectious diseases, the national calendar of preventive vaccinations and the	principles for the use of specific and non-specific prevention of infectious	organize and conduct immunoprophylaxis of infectious diseases in the adult	methods that allow organizing and conducting immunoprophylaxis of infectious

		<p>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>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>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>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>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	Able to form healthy	IPC 19.1 Knows: forms and methods of	forms and methods of	develop and	methods that allow

		lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances, evaluate the effectiveness of preventive work with patients	sanitary and 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  IPC 19.2 Able to: develop and implement healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances	sanitary and 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 consumption of narcotic drugs and psychotropic substances	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	developing and 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
27.	PC-22	Able to maintain medical records, including in electronic form	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 outpatient basis, including at home when a medical worker is called  IPC 22.2 Able to: fill	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	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"	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

			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	telecommunications 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	in professional activities	communications network "Internet" in professional activities
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#### 4. Sections of the discipline and competencies that are formed during their study

No. p / p	Competency code	Name of the discipline section	The content of the section in didactic units
1	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	Non-ischemic heart disease and arrhythmias	Non-coronary diseases of the myocardium Valvular heart disease Rhythm disturbances
2.	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19, 22	Diseases of the pleura	Diseases of the pleura
3.	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19, 22	chronic kidney disease	chronic kidney disease
4.	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 8, 9, 10, PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22	Anemia	Anemia
5.	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19, 22	Diabetes	Diabetes mellitus - diagnosis and glycemic control Diabetes mellitus - complications
6.	UC - 1, 4, 5	Thyroid diseases	Diffuse and nodular goiter

	GPC - 1, 2, 4, 5, 6, 7, 8, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22		Thyrotoxicosis Hypothyroidism
7.	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 9, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22	kidney disease	Glomerulopathy and chronic renal failure Interstitial kidney disease and acute renal failure
8	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 9, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22	Diseases of the cardiovascular system - clinical guidelines and practice	Venous thrombosis and embolism Acute coronary syndrome Infective endocarditis Emergency conditions in the clinic of internal diseases
9.	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 9, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22	Oncohematology	Myeloproliferative disorders Lymphoproliferative disorders Aplastic diseases, disorders of platelets and coagulation
10	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 9, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22	Diseases of the pituitary and adrenal glands	Diseases of the pituitary gland Diseases of the adrenal glands
11	UC - 1, 4, 5 GPC - 1, 2, 4, 5, 6, 7, 9, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 19, 22	Hospital-acquired pneumonia, aspiration pneumonia, esophageal disease	Hospital pneumonia and pneumonia in special groups Diseases of the esophagus
12.	UC - 1, 4, 5 GPC - 1, 4, 5, 6, 7, 8, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19, 22	Practical skills	Writing a medical history Communication with patients Physical examination Presentation of a clinical case

### 5. Volume of discipline and types of educational work.

Type of study work	Labor intensity		Labor intensity by semesters (AH)			
	Volume in credit units (CU)	Volume in academic hours (AH)	9	10	11	12
Classroom work, including						
Lectures (L)	1.6	58	10	14	12	22
Laboratory practicum (LP)*						
Practicals (P)	5.6	202	52	52	34	64
Seminars (S)						
Student's individual work (SIW)	4.8	172	46	42	26	58

Mid-term assessment						
credit/exam ( <i>specify the type</i> )	1	36				36
						exam
TOTAL LABOR INTENSITY	13	468	108	108	72	180

## 6. The content of the discipline

### 6.1 Sections of the discipline and types of classes

p / no.	semester number	Name of the discipline section	Types of educational work (in ACH)*						Total
			L	LW	PE	CPC	S	SIW	
1	9	Non-ischemic heart disease and arrhythmias	8			35		30	79
2	9	Diseases of the pleura	0			6		6	12
3	9	chronic kidney disease	2			5		10	17
4	10	Anemia	0			16		10	26
5	10	Diabetes	8			20		20	48
6	10	Thyroid diseases	6			10		12	28
7	11	kidney disease	8			12		16	32
8	11	Diseases of the cardiovascular system - clinical guidelines and practice	8			22		20	50
9	12	Oncohematology	12			36		30	78
10	12	Diseases of the pituitary and adrenal glands	6			18		18	42
11	12	Hospital-acquired pneumonia, aspiration pneumonia, esophageal disease	4			6		10	20
12	9-12	Practical skills				16			16
13	12	<i>Exam</i>							36
		TOTAL	58			202		172	468

\* - L - lectures; LW - laboratory workshop; PE - practical exercises; CPC - clinical practical classes, S - seminars; SIW - independent work of the student.

### 6.2. Thematic plan of lectures\*:

No . p/p	Name of lecture topics	Volume in AH (hour)			
		9	10	11	12
1	Cardiomyopathy	2			
2	Myocarditis and pericarditis	2			
3	Diagnosis and basic treatment of arrhythmias	2			
4	Atrial fibrillation	2			

5	Chronic renal failure	2			
6	Introduction to Diabetology, Diagnosis of Diabetes Mellitus		2		
7	Hypoglycemic therapy for diabetes		2		
8	Acute complications of diabetes		2		
9	Chronic complications of diabetes		2		
10	Iodine deficiency, goiter and thyroid nodules		2		
11	Thyrotoxicosis - diagnosis and main approaches to treatment		2		
12	Hypothyroidism - diagnosis and basic therapy		2		
13	Glomerulonephritis and chronic renal failure - clinical guidelines and treatment practice			2	
14	Interstitial nephritis and acute renal failure			2	
15	Venous thrombosis and embolism			2	
16	Infective endocarditis			2	
17	Acute coronary syndrome - clinical guidelines, clinical practice and promising approaches in diagnosis and treatment			2	
18	Emergency conditions in the clinic of internal diseases			2	
19	Hematology 1				2
20	Hematology 2				2
21	Hematology 3				2
22	Hematology 4				2
23	Hematology 5				2
24	Hematology 6				2
25	Diseases of the pituitary gland (acromegaly, hyperprolactinemia, diabetes insipidus)				2
26	Diseases of the adrenal glands (cedentalomas, hyperaldosteronism, pheochromocytoma)				2
27	Diseases of the adrenal glands (Cushing's syndrome and adrenal insufficiency)				2
28	Hospital-acquired pneumonia and pneumonia in special groups				2
29	Diseases of the esophagus				2
	<b>Total, AH</b>	<b>10</b>	<b>14</b>	<b>12</b>	<b>22</b>

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

### 6.3. Thematic plan of laboratory workshops: not provided by the curriculum.

### 6.4. Thematic plan of practical classes:

No · p/ p	Name of practical classes	Volume in AH (hour)			
		9	10	11	12
1	Cardiomyopathy	5			
2	Myocarditis and pericarditis	5			
3	Valvular heart disease	5			
4	Tachyarrhythmias	5			
5	Bradyarrhythmias	5			
6	Atrial fibrillation	5			
7	Echocardiography in assessing the state of the heart in	5			

	various diseases				
8	Chronic renal failure	5			
9	Pleurisy - diagnosis and treatment	6			
10	Practical skills in examining a patient with cardiovascular diseases	6			
11	Diabetes mellitus - diagnosis		5		
12	Diabetes mellitus - treatment		5		
13	Diabetes mellitus - acute complications		5		
14	Diabetes mellitus - chronic complications		5		
15	Thyrotoxicosis		5		
16	Hypothyroidism and thyroiditis		5		
17	Hematology 1		5		
18	Hematology 2		5		
19	Hematology 3		6		
20	Practical skills of examining a patient in diabetology		6		
21	Glomerulonephritis and chronic renal failure - clinical guidelines and treatment practice			6	
22	Interstitial nephritis and acute renal failure			6	
23	Venous thrombosis and embolism			6	
24	Infective endocarditis			6	
25	Acute coronary syndrome - clinical guidelines, clinical practice and promising approaches in diagnosis and treatment			6	
26	Emergency conditions in the clinic of internal diseases			4	
27	Hematology 1				6
28	Hematology 2				6
29	Hematology 3				6
30	Hematology 4				6
31	Hematology 5				6
32	Hematology 6				6
33	Diseases of the pituitary gland (acromegaly, hyperprolactinemia, diabetes insipidus)				6
34	Diseases of the adrenal glands (cedentalomas, hyperaldosteronism, pheochromocytoma)				6
35	Diseases of the adrenal glands (Cushing's syndrome and adrenal insufficiency)				6
36	Hospital-acquired pneumonia and pneumonia in special groups				6
37	Practical skills in examining patients with endocrine diseases				4
	<b>Total, AH</b>	<b>52</b>	<b>52</b>	<b>34</b>	<b>64</b>

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

**6.5. Thematic plan of seminars: not provided by the curriculum.**

**6.6. Types and topics of student independent work (SIW):**

No · p/p	Types and topics of the SIW	Volume in Ah (hour)			
		9	10	11	12
1	writing case histories, essays	12	12	6	12

2	preparation of reports, speeches	6	6	4	10
3	preparation for participation in classes in an interactive form (role-playing and business games, trainings, game design, computer simulation, discussions),	4	6	4	12
4	work with electronic educational resources posted on the educational portal of the Federal State Budgetary Educational Institution of Higher Education "PIMU" of the Ministry of Health of Russia	12	6	6	12
5	work with literary and other sources of information on the section under study, including in an interactive form	12	12	6	12
	<b>Total, AH</b>	<b>46</b>	<b>42</b>	<b>26</b>	<b>58</b>

### 6.7. Student's research work:

No. p / p	Name of the topics of the student's research work	Semester
1	New medical technologies in the diagnosis and treatment of internal diseases	9, 10, 11, 12
2	Rational pharmacotherapy of pathology of internal organs	9, 10, 11, 12
3	Demonstration of clinical cases of comorbid pathology of internal organs	9, 10, 11, 12
4	Presentations on rare forms of pathology of internal organs based on literature data	9, 10, 11, 12
5	Treatment of diseases of internal organs in the elderly	9, 10, 11, 12

### 7. Fund of evaluation tools for current control and intermediate certification

No. p / p	semester number	Forms of control	Name of the discipline section	Evaluation tools		
				kinds	number of control questions	number of options for test tasks
one	2	3	four	5	6	7
1.	7	Control of the development of the topic, control of the student's independent work	Respiratory diseases	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				abstract	one	twenty
2.	7	Control of the development of the topic, control of the student's independent work	Diseases of the blood and hematopoietic organs	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				abstract	one	twenty
3.	7	Control of the development of the topic, Control of student's independent work,	Diseases of the digestive system	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				Presentation	one	twenty

4.	8	Control of the development of the topic, control of the student's independent work	Diseases of the cardiovascular system	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				Presentation	one	twenty
				abstract	one	twenty
5.	8	Control of the development of the topic, control of the student's independent work	Diseases of the kidneys and urinary tract	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
6.	8	Control of the development of the topic, control of the student's independent work	Diseases of the joints and connective tissue	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				Presentation	one	twenty
7.	8	Control of the development of the topic, control of the student's independent work	Diseases of the endocrine system	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				Presentation	one	twenty
				abstract	one	twenty
8.	8	Control of the development of the topic, control of the student's independent work	Practical skills	Test tasks	twenty	Unlimited
				Situational tasks	one	twenty
				Disease history	four	Unlimited
9.	8	Exam	All sections of the discipline	test questions	2	80
				Situational tasks	one	40

8. Educational, methodological and information support of the discipline (printed, electronic publications, Internet and other network resources).

8.1. List of basic literature:

N o.	Name according to bibliographic requirements	Number of copies	
		At the department	In library
1	Longo Dan I. <a href="#">Harrison's principles of internal medicine. V.1.</a> McGraw-Hill, 2012		15

2.	Longo Dan I. <a href="#">Harrison's principles of internal medicine. V.2.</a> McGraw Hill, 2012		15
3.	Current practice guidelines in primary care / JS Esherick, <a href="#">DS Clark</a> , <a href="#">ED Slater</a> . - New York: McGraw-Hill, 2013. - 402 p.: il. ISBN 978-0-07-179750-4.		25
fo ur .	Clinical medicine / edited by <a href="#">P. Kumar</a> , <a href="#">M. Clark</a> . – 8th ed. - Edinburgh : Saunders, 2012. - 1286 p.: il.		50
5.	Davidson's principles and practice of medicine / edited by <a href="#">C. Haslett</a> , <a href="#">J. A. A. Hunter</a> . – 19th ed. - Edinburgh: Churchill Livingstone, 2002. - 1274 p.: soft.		20

### 8.2. List of additional literature:

N o.	Name according to bibliographic requirements	Number of copies	
		At the department	In library
1	Cardiology / D. G. Julian, J. C. <a href="#">Cowan</a> , <a href="#">J. M. McLenachan</a> . – 8th ed. – [b. m.] Elsevier Saunders, 2005. - 387 p.: soft.		20
2.	Williams textbook of endocrinology / <a href="#">PR Larsen</a> , <a href="#">HM Kronenberg</a> , <a href="#">S. Melmed</a> , <a href="#">KS Polonsky</a> . – 10th ed. – [b. m.] Saunders, 2003. - 1927 p. : tv.		5
3.	The ECG made easy / JR Hampton. – 7th ed. - Edinburgh: Churchill Livingstone, 2008. - 179 p.: ill. soft		14
fo ur .	Physical agents in rehabilitation: from research to practice / <a href="#">MH Cameron</a> . - Philadelphia: WBSaunders Company, 1999. - 490 p.: ill. soft		10
5.	Emergency Medicine / L. Stead. – [b. m.] Lippincott Williams & Wilkins, 2000. - 673p.		5

### 8.3. List of guidelines for independent work of students:

N o.	Name according to bibliographic requirements	Number of copies	
		At the department	In library
o n e.	Strongin LG Diabetes mellitus: textbook for the international english speaking medical students. Publishing House of NNSMA , 2015.-100 p.	2	30
2.	Botova SN <a href="#">Practical aspects of spirometry: textbook for the overseas medical students</a> . Publishing House of NNSMA , 2015.- 56 p.	2	5

3.	Strongin LG <a href="#">Interpretation of ECG data: textbook for the international english speaking medical students</a> . Publishing House of NNSMA , 2014. - 68 p.	2	15
fo ur .	Strongin LG <a href="#">Guide to case report writing, history taking and physical examination : textbook for the international english speaking medical students</a> . Publishing House of NNSMA , 2014. - 64 p.	2	10
5.	Petrov AV Guide to case report writing for 6 course students. Publishing House of PIMU , 2020. - 62 p.	2	10

#### 8.4. Electronic educational resources used in the process of teaching the discipline:

##### 8.4.1. Internal Electronic Library System of the University (IELS)\*

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Internal electronic library system (IELS)	Proceedings of the teaching staff of the Academy: textbooks and teaching aids, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents.	from any computer 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

##### 8.4.2. Electronic educational resources purchased by the university

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Electronic database "Student Advisor"	Educational literature + additional materials (audio, video, interactive materials, test tasks) for higher medical and pharmaceutical education. Editions are structured by specialties and disciplines in accordance with the current Federal State Educational Standards of Higher Professional Education.	from any computer 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 subscription of PIMU
Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishing houses, incl. translations of foreign publications.	from any computer located on the Internet by login and password, from the computers of the academy. Subscribed editions are available for reading. [Electronic resource] - Access mode: <a href="http://www.books-up.ru/">http://www.books-up.ru/</a>	General subscription of PIMU
"Bibliopisk"	Integrated search service "single window" for electronic catalogs,	For PIMU, access to the demo version of the	General subscription

	ELS 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.	Bibliopisk search engine is open: <a href="http://bibliosearch.ru/pimu">http://bibliosearch.ru/pimu</a> .	on of PIMU
Domestic electronic periodicals	Periodicals on medical topics and higher education	- from the computers of the academy on the platform of the electronic library eLIBRARY.RU -magazines publishing house "Mediasphere" - from the computers of the library or provided library at the request of the user [Electronic resource] - Access mode: <a href="https://elibrary.ru/">https://elibrary.ru/</a>	
International scientometric database "Web of Science Core Collection"	Web of Science covers materials on natural, technical, social, humanities; takes into account the mutual citation of publications developed and provided by Thomson Reuters; has built-in search, analysis and management of bibliographic information.	Free access from PIMU computers [Electronic resource] - Access to the resource at: <a href="http://apps.webofknowledge.com">http://apps.webofknowledge.com</a>	Free access from PIMU computers

#### 8.4.3 Open access resources

<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
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://neb.rf/">http://neb.rf/</a>	from any computer on the Internet
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 Internet.
Scientific electronic library of open access CyberLeninka	Full texts of scientific articles with annotations published in scientific journals in Russia and neighboring countries. [Electronic resource] - Access mode: <a href="https://cyberleninka.ru/">https://cyberleninka.ru/</a>	from any computer on the Internet

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 Internet
Reference and legal system "Consultant Plus"	Federal and regional legislation, judicial practice, financial advice, legislative comments, etc. [Electronic resource] - Access mode: <a href="http://www.consultant.ru/">http://www.consultant.ru/</a>	from any computer on the Internet
Official website of the Ministry of Health of the Russian Federation	National Clinical Guidelines [Electronic resource] - Access mode: <a href="http://cr.rosminzdrav.ru">cr.rosminzdrav.ru</a> - Clinical guidelines	from any computer on the Internet
Official websites of the Russian Respiratory Society, Russian Society of Cardiology	Modern materials and clinical guidelines for the diagnosis and treatment of respiratory diseases, cardiovascular diseases [Electronic resource] - Access mode: <a href="http://www.spulmo.ru">www.spulmo.ru</a> - Russian Respiratory Society <a href="http://www.scardio.ru">www.scardio.ru</a> - RKO	from any computer on the Internet
Official website of the Russian Scientific Society of Therapists	Modern materials and clinical guidelines for the diagnosis and treatment of diseases of internal organs [Electronic resource] - Access mode: <a href="http://www.rnmot.ru">www.rnmot.ru</a> - Russian Scientific Society of Therapists	from any computer on the Internet

## 9. Logistics support of discipline.

### 9.1. The list of premises necessary for conducting classroom lessons in the discipline.

1. Lecture hall equipped with multimedia equipment and a microphone.
2. Clinical practice rooms
3. Multidisciplinary accreditation and simulation center
4. Chambers of therapeutic and pulmonological departments, diagnostic rooms of healthcare facilities - clinical bases of the department of propaedeutics of internal diseases

### 9.2. The list of equipment necessary for conducting classroom lessons in the discipline.

1. multimedia complex
2. Medical documentation: medical history, outpatient card
3. Archival and educational case histories
4. Pocket inhalers, spacers, nebulizers, glucometers. Apparatus for recording ECG. Systems for continuous monitoring of ECG, glucose levels.
5. heart and lung auscultation simulator
6. A set of samples of the results of a complete blood test.
7. Samples of the results of the study of sputum and pleural fluid.
8. Samples of urine test results.
9. Disk "Lung auscultation. Auscultation of the heart"
10. Set of electrocardiograms.
11. A set of echocardiograms.
12. Album of ultrasound results

13. Set of radiographs
14. Tonometers
15. Phonendoscopes. Stethoscopes
16. Slides and multimedia presentations of lectures
17. Standardized patient
18. Scenarios and instructions for participants when conducting role-playing games

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

**19.**

<b>Item no.</b>	<b>Software</b>	<b>number of licenses</b>	<b>Type of software</b>	<b>Manufacturer</b>	<b>Number in the unified register of Russian software</b>	<b>Contract No. and date</b>
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  
*Name of the department*

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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