

Summary of the working program of the academic discipline

« FACULTY THERAPY AND OCCUPATIONAL DISEASES »
(name of the academic discipline)

General Educational Program of higher education (specialist's degree programs)

31.05.01 General Medicine

Department: ENDOCRINOLOGY AND INTERNAL DISEASES

1. The purpose of mastering the discipline

The main goal of mastering the discipline is the formation of universal, general professional and professional competencies in a university student, corresponding to the professional standard "doctor-physician".

1.2. Tasks of studying the discipline.

1.3. Requirements to the deliverables of mastering the discipline

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

Know:

1. theoretical issues of etiology and pathogenesis, as well as prevention of the most common diseases of therapeutic patients;
2. clinical picture, course features and possible complications of the most common diseases occurring in a typical form;
3. modern methods of clinical, laboratory and instrumental diagnostics of therapeutic patients;
4. modern classification of the most common diseases, criteria for diagnosis;
5. clinical and pharmacological characteristics of the main groups of drugs and the general principles of their prescription in the treatment of the main pathological syndromes of diseases;
6. the basics of keeping a medical history, as the main example of accounting and reporting medical documentation in medical institutions of the healthcare system;
7. modern principles of medical examination of the population and rehabilitation of patients with a therapeutic profile;
8. etiology, pathogenesis of the most common occupational diseases, their modern classification, clinical picture of a typical variant of the course;
9. modern methods of research and criteria for the diagnosis of major occupational diseases, the main approaches to their treatment and succession;
10. maintenance of standard accounting and reporting medical documentation in medical and preventive institutions of the healthcare system, the implementation of an examination of working capacity;
11. bases for applying the achievements of evidence-based medicine in the treatment of patients;

Be able to:

1. 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.);
2. send for laboratory and instrumental examination;
3. interpret the results of the examination, use the data of physical, laboratory and instrumental examination, laboratory data for making a diagnosis;
4. determine the scope of additional studies to clarify the diagnosis;
5. substantiate the clinical diagnosis;
6. formulate the principles of treatment of major therapeutic diseases with the appointment of clinical and pharmacological groups of drugs, give examples of the most used drugs, use methods of non-drug treatment;

7. Maintain various medical records.

Possess:

1. basic information transformation technologies: text, spreadsheet editors; technique of working on the Internet for professional activities;
2. methods of filling in medical accounting and reporting documentation in medical and preventive institutions of the healthcare system;
3. methods of general clinical examination of patients;
4. interpretation of the results of laboratory, instrumental diagnostic methods in patients;
5. an algorithm for making a preliminary diagnosis of patients with their subsequent referral for additional examination;
6. an algorithm for making a detailed clinical diagnosis;
7. an algorithm for the implementation of basic medical diagnostic and therapeutic measures to provide first aid to the population in urgent and life-threatening conditions.

2. Position of the academic discipline in the structure of the General Educational Program (GEP).

2.1. The discipline "Faculty Therapy, Occupational Diseases" refers to the basic part of Block 1 of the GEP HE. The discipline is taught in 7 and 8 semesters 4th year of study.

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

1. in the cycle of humanitarian and socio-economic disciplines (philosophy, bioethics; jurisprudence; history of medicine; Latin and foreign languages);
2. in the cycle of mathematical, natural science disciplines: physics, mathematics; medical informatics; chemistry; 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;
3. in the cycle of professional disciplines: propaedeutics of internal diseases, radiation diagnostics; general surgery, public health and healthcare.

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines: polyclinic therapy, hospital therapy and endocrinology; anesthesiology, resuscitation, intensive therapy; traumatology, orthopedics, faculty surgery, urology; hospital surgery; obstetrics and gynecology; pediatrics; infectious diseases; clinical pharmacology; physiology; dermatovenerology; neurology, medical genetics, psychiatry and medical psychology; otolaryngology; ophthalmology; oncology and radiation therapy; dentistry; hygiene; health economics; infectious diseases; epidemiology; medical rehabilitation; clinical pharmacology; physiology; dermatovenerology; neurology, medical genetics, neurosurgery; otolaryngology; ophthalmology; forensic Medicine; life safety, disaster medicine; as well as production practices "Physician's assistant", "Physician's assistant in an outpatient clinic"

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

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

П/ №	Competence code	Content of the competence (or part of it)	Code and name of the competence acquisition metric	As a result of studying the discipline, students must:		
				know	Be able to	Possess

1.	UK-1	Able to carry out critical analysis of problem situations on the basis of a systematic approach, to develop an action strategy	<p>IET 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis</p> <p>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</p> <p>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</p>	<p>methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis,</p>	<p>gain new knowledge on the basis of analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience</p>	<p>skills in studying the problem of professional activity using analysis, synthesis and other methods of intellectual activity; development of an action strategy to solve professional problems</p>
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			professional problems			
2.	OPK-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	<p>IOPC 1.1 Knows: the basics of medical ethics and deontology; fundamentals of legislation in the field of health care; legal aspects of medical activity</p> <p>IOPC 1.2 Is able to: apply ethical standards and principles of behavior of a medical worker in the performance of his professional duties; knowledge of modern legislation in the field of health care in solving the problems of professional activity; apply the rules and regulations of the doctor's interaction with colleagues and patients (their legal representatives)</p> <p>IOPC 1.3 Has practical experience: solving standard tasks of professional</p>	fundamentals of medical ethics and deontology; fundamentals of legislation in the field of health care; legal aspects of medical activity	apply ethical standards and principles of conduct of a professional in the performance of his professional duties; knowledge of modern legislation in the field of health care in solving the problems of professional activity; apply the rules and regulations of the doctor's interaction with colleagues and patients (their legal representatives)	solutions to standard tasks of professional activity on the basis of ethical norms and deontological principles in interaction with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical activity

			activity on the basis of ethical standards and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical activity			
3.	OPK-4	Able to use medical devices provided for by the procedure for the provision of medical care, as well as to conduct examinations of the patient in order to establish a diagnosis	IOPC 4.1 Knows the method of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of examination and physical examination; clinical picture, methods of diagnosis of the most common diseases; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for	Knows the method of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of examination and physical examination; clinical picture, methods of diagnosis of the most common diseases; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting	collect complaints, anamnesis of life and disease from patients (their legal representatives), identify risk factors and causes of disease development; apply methods of examination and physical examination of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology in patients; identify cancer risk factors; formulate a preliminary diagnosis, draw	Has practical experience: collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of disease development; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for conducting

			<p>interpreting their results; the International Statistical Classification of Diseases and health-related 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, assistance taking into account the standards of medical care</p> <p>IOPK 4.2 Is able to: collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of disease; apply methods of</p>	<p>their results; the International Statistical Classification of Diseases and 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, assistance taking into account the standards of medical care</p>	<p>up a plan for laboratory, instrumental and additional studies in patients in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account medical standards; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to specialist doctors in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpret and</p>	<p>instrumental, laboratory, additional studies, consultations of specialist doctors; referral of patients to instrumental, laboratory, additional studies, consultations of specialist doctors 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); differential diagnosis of</p>
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			<p>examination and physical examination of patients; interpret the results of 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 laboratory, instrumental and additional studies in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendati</p>		<p>analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of the main (clinical) and additional (laboratory, instrumental) methods of examination; conduct differential diagnosis 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>diseases; recognition of conditions that occur in 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, care taking into account the standards of medical care</p>
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			<p>ons, taking into account the standards of medical care; refer patients for consultations to specialist doctors in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of the main ... making a preliminary diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD); differential diagnosis of diseases; recognition of conditions that occur in sudden acute diseases,</p>			
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			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, care taking into account the standards of medical care			
4.	OPK-7	Able to prescribe treatment and monitor its effectiveness and safety	IOPK 7.1 Knows: methods of drug and non-drug treatment, medical indications for the use of medical devices in the most common diseases; groups of drugs used to provide medical care in the treatment of the most common	methods of drug and non-drug treatment, medical indications for the use of medical devices in the most common diseases; groups of drugs used to provide medical care in the treatment of the most common diseases; the mechanism of	develop a treatment plan for patients with the most common diseases in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; prevent or eliminate complications, side effects,	skills 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 recommendations, taking into account the standards of medical care; providing

			<p>diseases; the mechanism of their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, undesirable reactions, including serious and unforeseen; features of the provision of medical care in emergency forms</p> <p>IOPK 7.2 Is able to: develop a treatment plan for patients with the most common diseases in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; prevent or eliminate complications, side effects, undesirable reactions, including unforeseen ones, resulting from</p>	<p>their action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, undesirable reactions, including serious and unforeseen; features of the provision of medical care in emergency forms.</p>	<p>undesirable reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p>	<p>medical care in emergency and emergency form to patients with the most common diseases, in accordance with the current procedures for the provision of medical care, clinical recommendations, 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 efficacy and safety of</p>
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			<p>diagnostic or therapeutic manipulations , the use of drugs and (or) medical devices, non-drug treatment</p> <p>IOPC 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 recommendations, taking into account the standards of medical care;</p> <p>providing medical care in emergency and emergency form to patients with the most common diseases, in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards</p>			<p>the use of drugs, medical devices and non-drug treatment in patients with the most common diseases;</p> <p>selection and appointment of non-drug treatment to patients with the most common diseases in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care;</p> <p>prevention and treatment of complications , side effects, adverse reactions, including unforeseen ones, arising as a result of diagnostic or therapeutic manipulations , the use of drugs and (or) medical devices, non-drug treatment;</p> <p>providing medical care</p>
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			<p>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 efficacy and safety of the use of drugs, medical devices and non-drug treatment in patients with the most common diseases; undesirable reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations , the use of</p>			<p>to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an urgent form; the use of drugs and medical devices in the provision of medical care in an emergency form</p>
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			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 urgent form; the use of drugs and medical devices in the provision of medical care in Emergency			
5.	PK-8	Able to develop a treatment plan for a disease or condition and prescribe medications, medical devices, therapeutic nutrition and non-drug treatment, taking into account the diagnosis, age and clinical picture in accordance with the current procedures	IPK-8.1 Knows: modern methods of using drugs, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical	modern methods of using drugs, medical devices and therapeutic nutrition in diseases and conditions 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	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	методиками, позволяющими составлять план лечения заболевания и состояния пациента с учетом диагноза, возраста пациента, клинической картины заболевания в соответствии с действующими порядками оказания медицинской помощи,

		<p>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 assess the effectiveness and safety of the use of drugs, medical products, therapeutic nutrition and other methods of treatment</p>	<p>care, taking into account the standards of medical care; the mechanism of action of drugs, medical devices and therapeutic nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in 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; mechanism of action of non-drug treatment; medical indications</p>	<p>the standards of medical care; the mechanism of action of drugs, medical devices and therapeutic nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in 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; mechanism of action of non-drug treatment; medical indications and contraindications to its</p>	<p>of medical care, taking into account the standards of medical care; prescribe medicines, medical devices and therapeutic 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 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</p>	<p>КЛИНИЧЕСКИМ и рекомендациями (протоколам и лечения) по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи; prescribe medicines, medical devices and therapeutic 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</p>
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			<p>and contraindications to its appointment; side 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 devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease in</p>	<p>appointment; side effects, complications caused by its use</p>	<p>the provision of medical care, taking into account the standards of medical care; evaluate the efficacy and safety of the application ...</p>	<p>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; assess the effectiveness and safety of the use of drugs, medical devices and therapeutic nutrition</p>
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			<p>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>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</p>			
6.	PK-22	Able to maintain medical records, including in electronic	IPC 22.1 Knows: the legislation of the Russian Federation in the field of	legislation of the Russian Federation in the field of health protection,	fill in medical records, including in electronic form; work with personal	own techniques that allow you to fill out medical documentatio

		form	health protection, regulatory legal acts and other documents that determine the activities of medical organizations and medical workers; rules of work in information systems and information and telecommunication network "Internet"; rules for the registration of medical documentation in medical organizations that provide medical care on an outpatient basis, including at home when calling a medical worker IPK 22.2 Able to: fill out medical documentation, including in electronic form; work with personal data of patients and information constituting medical secrecy; use in professional	regulatory legal acts and other documents determining the activities of medical organizations and medical workers; rules of work in information systems and information and telecommunication network "Internet"; rules for registration of medical documentation in medical organizations that provide medical care on an outpatient basis, including at home when calling a medical worker	data of patients and information constituting medical secrecy; use in professional activities information systems and information and telecommunication network "Internet"	n, including in electronic form; work with personal data of patients and information constituting medical secrecy; use in professional activities information systems and information and telecommunication network "Internet"
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			activities information systems and information and telecommunic ation network "Internet"			
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4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 7 CU (252 AH)

Type of educational work	Labor intensity		Labor intensity in semesters(AH)	
	Volume in credit units (CU)	volume in academic hours (AH)	7	8
classroom work, including				
Lectures (L)	0.8	30	16	14
Laboratory practicum (LP)				
Practicals (P)	2.7	96	60	36
seminars (S)				
Students individual work (SIW)	2.5	90	50	40
Mid-term assessment				
Credit\exam (specify the type)	1	36		36
TOTAL LABOR INTENSITY				ЭКЗ
Types of classes	7	252	126	126

5. Sections of the academic discipline and competencies that are formed

п/№	№ семестра	Section name of the discipline	Types of academic work* (in AH)					
			L	LP	P	S	SIW	total
1	7	Pulmonology	6		15		10	31
	7	Gastroenterology	4		15		10	29
	7	Nephrology	4		10		10	24
	7	rheumatology	2		5		5	12
	7	Cardiology			5		5	10
	7	Case report writing			5		10	15
2	8	Cardiology	10		36		20	66
	7	Occupational diseases	4				10	14
	8	Case report writing			5		10	15

	8	<i>Exam</i>						36
		TOTAL	30		96		90	252