

*Summary of the working program of the academic discipline*

**« DEEP PHYSICAL EXAMINATION OF THE PATIENT »**

**(name of the academic discipline)**

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

\_\_\_\_\_31.05.01 General Medicine

*code, name of the specialty*

*(31.05.01 General Medicine; 31.05.03 Dentistry, 33.05.01 Pharmacy)*

Department: \_\_\_\_\_ **ENDOCRINOLOGY AND INTERNAL DISEASES**

**1. The purpose of mastering the discipline** (*participation in the formation of relevant competencies – specify the codes*): UK - 1,4,5; GPC - 1, 4, 5.10; PC - 5, 6, 7

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

**2.1.** The discipline "Deep physical examination of the patient" refers to the educational cycle of Block 1 Disciplines (modules), variable part, discipline of choice B1.C.DV.1

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

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

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IUK 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	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	research of the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems

			<p>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 professional problems</p>				
2.	UC-4	<p>Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction</p>	<p>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 communication, modern means of</p>		<p>basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies</p>	<p>express your thoughts in Russian and foreign languages in business communication</p>	<p>skills in compiling texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian; experience of speaking Russian and</p>

			<p>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</p>				foreign languages
3.	UC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	<p>IUK5.1 Knows: the main categories of philosophy, the laws of historical development, the basics of intercultural communication</p>		the main categories of philosophy, the laws of historical development, the foundations of intercultural communication; basic concepts of human interaction in	competently, accessible to express professional information in the process of intercultural interaction; observe ethical standards and human rights;	skills of productive interaction in a professional environment, taking into account national, ethno-cultural, confessional

		<p>on; basic concepts of human interaction in an organization IUK5.2 Knows how 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, confessional characteristics</p> <p>IUK 5.3 Has practical experience: productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming</p>	<p>an organization</p>	<p>analyze the features of social interaction, taking into account national, ethno-cultural, confessional characteristics</p>	<p>characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction</p>
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			communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction				
4.	GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	<p>IOPC 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</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)	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>doctor and colleagues and patients (their legal representatives)</p> <p>IOPC 1.3</p> <p>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>				
5.	GPC-4	<p>Able to use medical devices provided for by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis</p>	<p>IOTC 4.1</p> <p>Knows the methodology for collecting anamnesis of life and diseases, complaints from patients (their legal representatives); method of examination and physical examination; clinical picture,</p>		<p>the methodology for collecting an anamnesis of life and diseases, complaints from patients (their legal representatives) ; methods of examination and physical examination; clinical picture, diagnostic methods for the most common diseases; methods of</p>	<p>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;</p>	<p>collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of the development of diseases; examination and physical examination of patients; diagnosis of</p>

		<p>diagnostic methods of the most common diseases; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; international statistical classification of diseases and related health problems (ICD); conditions requiring emergency medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of</p>	<p>laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; international statistical classification of diseases and related health problems (ICD); conditions requiring emergency medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</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 accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental)</p>	<p>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)</p>
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		<p>medical care, care, taking into account the standards of medical care 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</p>			<p>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</p>	<p>examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and related health problems (ICD); carrying out differential diagnostics of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision</p>
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		<p>accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; interpret and</p>		<p>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>of medical care, assistance taking into account the standards of medical care</p>
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			<p>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</p>				
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			<p>(treatment protocols) on the provision of medical care, care, taking into account the standards of medical care IDOPK 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</p>				
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			doctors; referral of patients for instrumental, laboratory, additional studies, consultation s of medical specialists in accordance with the current procedures for the provision of medical care, clinical recommenda tions, taking into account the standards of medical care; interpretatio n of data from additional (laboratory and instrumental ) examination s of patients; making a preliminary diagnosis in accordance with the international statistical classificatio n of diseases and related health problems (ICD); carrying out differential diagnostics of diseases; recognition				
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			of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care				
6.	GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve	IOPC-5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human		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	Has practical experience: assessment of basic morphological and functional data, physiological conditions and pathological

		professional problems	organs and systems IOPC 5.2 Able to: evaluate the basic morphofunctional data, physiological conditions and pathological processes in the human body IOPC5. 3. Has practical experience: assessment of basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems				processes in the human body in solving professional problems
7.	GPC-10	Able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies	IOPC10. 1.Knows: the possibilities of reference and information systems and professional databases; methods of information search, information and communication technologies		the possibilities of reference and information systems and professional databases; methods of information search, information and communication technologies; modern medical and biological terminology;	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	the use of modern information and bibliographic resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into

		<p>, taking into account the basic requirements of information security</p>	<p>; modern medical and biological terminology; basics of information security in professional activity  IOPC10. 2. Knows how 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</p>		<p>basics of information security in professional activity</p>	<p>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 and</p>	<p>account the basic requirements of information security</p>
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			account the basic requirements of information security IOPC 10 3. Has practical experience in: using modern information and bibliographic resources, using special software and automated information systems to solve standard problems of professional activity, taking into account the basic requirements				
8.	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	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		Legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents that determine the activities of medical organizations and medical workers; method of collecting complaints, anamnesis of life and illness of the patient; a technique for a complete	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 volume,	collection of complaints, anamnesis of life and illness of the patient and analysis of the information received; conducting a complete physical examination of the patient (examination , palpation, percussion, auscultation) and interpreting its results; determining

	and instrumental examinations of the patient	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		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	content and sequence of diagnostic measures	the order of volume, content and sequence of diagnostic measures
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			<p>pathological processes; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results</p> <p>IPC 5.2 Able to: collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures</p>				
9.	PC- 6	Able to refer the patient for laboratory,	IPC 6 1. Knows: general issues of		general issues of organizing medical care for the	justify the need and scope of laboratory	substantiation of the need and scope of laboratory

	instrumental examination, for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the provision of medical	organizing medical care for the population, methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting studies, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care IPC 6 2. Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the		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	examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	examination of the patient; substantiation of the need and scope of instrumental examination of the patient; substantiation of the need to refer the patient for consultations to specialist doctors; determination of medical indications for the provision of emergency, including emergency specialized, medical care
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		care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care	need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care				
10	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)	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;		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	analysis of the obtained results of the examination of the patient, if necessary, justification and planning of the volume of additional studies; interpreting the results of collecting information about the patient's disease; interpretation of data obtained during the laboratory examination of the patient; interpretation of data obtained during the instrumental examination of the

			<p>ICD 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>			<p>carry out differential diagnostics of diseases of internal organs from other diseases</p>	<p>patient; interpret data obtained during consultations of the patient by medical specialists; differential diagnosis of diseases of internal organs from other diseases</p>
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#### 4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is  2  CU (  72  AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semesters		
	volume in credit units (CU)	volume in academic hours (AH)	4	5	6
Classroom work, including	1,22	44	-	44	
Lectures (L)	0,28	10	-	10	
Laboratory practicum (LP)*	-	-	-	-	-
Practicals (P)	-	-	-	-	-
Seminars (S)	0,94	34	-	34	-
Student's individual work (SIW)	0.78	28	-	28	-
Mid-term assessment					
credit/exam ( <i>specify the type</i> )	-	- credit		- credit	
<b>TOTAL LABOR INTENSITY</b>	<b>2</b>	<b>72</b>	<b>-</b>	<b>72</b>	

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

№	Competence code	Section name of the discipline
1	UK-1,4,5 GPC- 1,4,5,10 PC-5,6.7	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the respiratory system
2	UK-1,4,5 GPC- 1,4,5,10 PC-5,6.7	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the heart and blood vessels
3	UK-1,4,5 GPC- 1,4,5,10 PC-5,6.7	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the digestive system
4	UK-1,4,5 GPC- 1,4,5,10 PC-5,6.7	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the urinary system