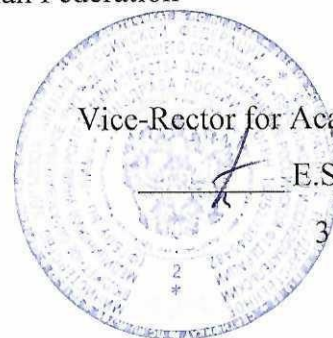


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **SELECTED ISSUES OF PROPAEDEUTICS OF INTERNAL DISEASES**

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

Qualification: **GENERAL PRACTITIONER**

Department: **Endocrinology and Internal Medicine**

Mode of study: **FULL-TIME**

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

Nizhny Novgorod

2021

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

Developers of the working program:

Morozova Elena Pavlovna, Candidate of Medical Sciences, Docent of the Department of Endocrinology and Internal Medicine.


Reviewers: Necrasov Alexey Anatolievich, Doctor of Medical Sciences, Docent, The head of the Department of Faculty and Polyclinic Therapy of "Privolzhsky Research Medical University";

Grygorieva Natalia Yurievna, Doctor of Medical Sciences, Docent, The head of the Department of Clinical Medicine of Nyzhegorodsky University named by N.I. Lobachevsky

The program was reviewed and approved at the department meeting of Endocrinology and Internal Medicine.

protocol № 9, date 15 of April 2021 y.

Head of the Department of Endocrinology and Internal Medicine,
Doctor of Medical Sciences professor,

 (Strongin L.G.)
(signature)

April 15, 2021

AGREED

Deputy chief of Head of the EMA  L. V. Lovtsova

April 15, 2021

1. The purpose and objectives of mastering the academic discipline “SELECTED ISSUES OF PROPAEDEUTICS OF INTERNAL DISEASES”

1.1. The purpose of mastering the discipline:

As a result of mastering the discipline program, a graduate should have universal, general professional and professional competencies: CC – 1,4,5; OPC – 1, 4, 5,10; PC – 5, 6, 7, necessary to achieve work functions in accordance with the Professional standard of a medical doctor (district therapist)

Universal competencies:

Systemic and critical thinking (category)

CC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions

Communication.

UK-4 is able to apply modern communication technologies, including in a foreign language, for academic and professional interaction

Cross-cultural interaction

CC-5 is able to analyze and take into account the diversity of cultures in the process of intercultural interaction

General professional competencies:

Ethical and legal foundations of professional activity.

OPK-1 is able to implement moral and legal norms, ethical and deontological principles in professional activity

Diagnostic instrumental methods of examination

OPK-4 is capable of using medical devices provided for by the procedure for providing medical care, as well as conducting examinations of the patient in order to establish a diagnosis

Etiology and pathogenesis

OPK-5 is able to evaluate morphofunctional, physiological states and pathological processes in the human body to solve professional tasks

Information literacy

OPK-10 is able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security

Professional:

Conducting a patient examination in order to establish a diagnosis (labor function)

PC-5 is 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 make a plan for laboratory and instrumental examinations of the patient

The PC-6 is able to refer the patient for laboratory, instrumental examination, for consultation with specialist doctors if there are medical indications in accordance with the current procedures for providing medical care, on issues of providing medical care taking into account the standards of medical care, as well as to refer the patient for specialized medical care in inpatient conditions or in a day hospital when availability of 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

PC-7 is able to carry out differential diagnostics with other diseases/ conditions, including urgent ones, to establish a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)

1.2. Tasks of the discipline:

1. To form knowledge of symptoms, syndromes, features of anamnesis, modern methods

of clinical, laboratory and instrumental examination of patients with diseases of internal organs; etiology, pathogenesis, clinical manifestations, features of the course and possible complications occurring in typical form in adult patients of various age groups; diagnostic criteria of diseases and emergency conditions; methodology of diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)

2. To form the ability to determine the status of the patient: to collect anamnesis, to conduct a survey of the patient and / or his relatives, to conduct a physical examination of the patient (examination, palpation, percussion, auscultation, blood pressure measurement, etc.); to conduct an initial examination of all body systems.

3. To form the skills of: evaluating the results of physical examination of patients with diseases of internal organs; interpreting the results of laboratory, instrumental diagnostic methods; compiling an algorithm for making a detailed clinical diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)

4. To provide the opportunity to acquire practical experience in the diagnosis of diseases of internal organs in the conditions of a simulation center³.

1.3. Requirements to the deliverables of mastering the discipline

At the end of the course of Propaedeutics of internal diseases, which includes a series of lectures, clinical practical classes, independent work, the student must:

Know:

- Algorithm of examination of therapeutic patients, rules and stages of examination of the patient, physical methods of examination of the patient;
- Anatomical and physiological, age and sexual characteristics of a healthy and sick person;
- The causes of the main pathological processes in the body and the mechanisms of their development; etiology, pathogenesis and preventive measures of the most common diseases;
- The main clinical symptoms and syndromes of diseases of internal organs, urgent conditions in patients with various therapeutic diseases, taking into account their course;
- Symptomatology of the most common diseases of internal organs, clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in different age groups;
- Classical diagnostic methods, their diagnostic capabilities in the examination of a patient with a therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (immunological, endoscopic, radiation diagnostic methods);
- Methodology of diagnosis, diagnostic criteria. Principles of clinical diagnosis in a therapeutic patient in accordance with the modern International Statistical Classification of Diseases ICD-10 (11);
- The structure of the medical history and the rules for filling it out and maintaining;
- Lexical minimum of general and terminological character, basic medical terminology in Latin and foreign languages;
- Principles of ethics and deontology, rules of conduct of a doctor with colleagues, with secondary and junior medical staff, with a patient, with his relatives;
- Factors shaping human health; diseases associated with the adverse effects of climatic and social factors.

Be able to:

- Conduct a survey of the patient or his relatives, collect anamnesis of life and history of the disease in order to determine the status of the patient and obtain complete information about the disease, establishing possible causes of its occurrence in typical cases;
- Assess the factors affecting the patient's physical and psychological health: professional, environmental, cultural, ethnic, religious, individual, family, social risk factors;

- Conduct a clinical examination of patients using physical methods (examination, percussion, palpation, auscultation, measurement of blood pressure, respiratory rate, pulse) and identify objective signs of the disease;
- Conduct an initial examination of the patient's systems and organs;
- Identify the main pathological symptoms and syndromes, urgent conditions in patients with various therapeutic diseases, taking into account their course and substantiate them;
- Establish, substantiate and formulate a clinical diagnosis of the most common diseases of internal organs occurring in a typical form in accordance with the International Classification of Diseases ICD 10 (11);
- Assess the patient's condition and priorities for making a decision on the need to provide him with medical care: critical condition, pain syndrome, chronic disease, infectious disease, disability, geriatric problems;
- To plan the volume of additional laboratory and instrumental studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result;
- Decipher typical ECGs in 12 leads of a healthy person, as well as patients with the most frequent rhythm and conduction disorders, with ventricular myocardial hypertrophy, acute myocardial infarction and chronic forms of coronary artery disease;
- Interpret the spirogram in obstructive and restrictive types of respiratory disorders;
- Evaluate the phonocardiogram for mitral, aortic and tricuspid defects;
- Evaluate the results of a general blood test, urine, sputum, feces, pleural effusion, as well as a biochemical blood test;
- To determine changes in the main pulmonary syndromes from the radiograph of the lungs;
- Evaluate the results of ultrasound examination of internal organs and the results of echocardiography;
- Present the results of the examination of the patient in the form of a medical history with justification of the preliminary diagnosis, registration of a temperature sheet and drawing up a plan for further examination of the patient. To report the patient's medical history at a medical conference;
- Work with scientific and medical literature;
- Make a public presentation, report, and lead a discussion;
- To train patients and their relatives in basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention.
- To carry out their activities taking into account the moral, ethical and legal norms accepted in society, to keep medical secrets;
- Build and maintain working relationships with other members of the team; protect the rights of the doctor and the patient;
- Work with texts of professional content in a foreign language, use at least 900 terminological units and term elements;

Be able to:

Have practical experience:

- Applying medical knowledge in practice;
- Communication with medical personnel, with patients and their relatives, taking into account ethnic, confessional and cultural differences, ethical and deontological aspects of medical activity;
- Work with patients to inform them and their relatives in accordance with the requirements of the "informed consent" rules;
- The use of foreign languages to the extent necessary for communication and obtaining information from foreign sources, reading and writing skills in Latin clinical and pharmaceutical terms and recipes;
- Work with modern medical scientific literature and regulatory documents;

- Collaboration with colleagues of related specialties;
- Conducting a physical general clinical examination of the patient (survey, examination, palpation, percussion, auscultation, blood pressure measurement, assessment of pulse, respiration, ECG characteristics);
- Filling in the inpatient patient's medical history;
- Carrying out diagnostic measures of pathological symptoms and syndromes, urgent conditions in patients with various therapeutic diseases, taking into account their course;
- Interpretation of the results of laboratory, instrumental studies and methods of radiation diagnostics;
- Making a clinical diagnosis in a therapeutic patient, taking into account generally accepted requirements and the International Classification of Diseases ICD10 (11);
- Development of a plan of therapeutic and preventive measures taking into account the peculiarities of the development and course of the disease;
- Work on teaching patients and their relatives basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention.;
- Work on a personal computer using modern statistical programs of medical statistics and analysis.

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

The place of discipline in the structure of the OOP in the FGBOU IN the PIM of the Ministry of Health of Russia.

2.1. The discipline belongs to the academic cycle of Block 1 of the Discipline (modules), the variable part, the discipline of choice B1.V.DV.2

The discipline is studied in the sixth semester.

2.2. To study the discipline requires knowledge, skills and practical experience formed by previous disciplines and practices: physics, mathematics, chemistry, bioorganic chemistry, biology, anatomy, patient care, biochemistry, clinical aspects of biochemistry, normal physiology, methods of research of physiological functions, pathological physiology, clinical pathophysiology, pathological anatomy, clinical pathological anatomy, pharmacology, first aid, educational practice – patient care of therapeutic profile.

2.3. The study of the discipline is necessary to gain knowledge, skills and practical experience formed by subsequent disciplines and practices: faculty therapy, occupational diseases, polyclinic therapy, hospital therapy, endocrinology, infectious diseases, rheumatology, gastroenterology, fundamentals of emergency care, industrial practice – physician's assistant, industrial practice – assistant physician 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

№	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	is able to carry	1. IUK 1.1	methods of	to gain	research of

		<p>out a critical analysis of problem situations based on a systematic approach, to develop a strategy for actions of</p>	<p>Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUK 1.2 is 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 actions, experiment and experience IUK 1.3 Has practical experience: researching the problems of professional activity using analysis, synthesis and other methods of intellectual activity; developing strategies for solving professional problems methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis to gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to to the professional field; to search for information and solutions based on actions, experiment and experience</p>	<p>critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis</p>	<p>new knowledge based on analysis, synthesis, etc.; to collect data on complex scientific problems related to the professional field; to search for information and solutions based on actions, experiment and experience</p>	<p>the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems</p>
2.	UC-4	<p>is able to apply modern communication technologies, including in a</p>	<p>4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional</p>	<p>fundamentals of oral and written communication in</p>	<p>express your thoughts in Russian and a</p>	<p>writing skills related to professional activity; experience in</p>

		foreign language(s), for academic and professional interaction	styles of the native language, requirements for business communication, modern means of information and communication technologies IUK 4.2 Can: express your thoughts in Russian and a foreign language in business communication Russian Russian Specialist 4.3 Has practical experience: drafting texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian;	Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies	foreign language in business communication	translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages
3.	UC-5	is able to analyze and take into account the diversity of cultures in the process of intercultural interaction of	IUK5.1 Knows: the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization 5.2 will be able to: present professional information competently and in an accessible manner in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, professional characteristics IUK 5.3 Has practical experience in:	the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization	to present professional information competently and in an accessible manner in the process of intercultural interaction; to observe ethical norms and human rights; to analyze the features of social interaction taking into account national, ethno-	skills of productive interaction in a professional environment, taking into account national, ethno-cultural, professional characteristics; overcoming communicative, educational, ethnic, professional and other barriers in the process of intercultural interaction

			productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction.		cultural, confessional characteristics	
4.	OPC-1	is able to implement moral and legal norms, ethical and deontological principles in professional activity	<p>IOPK 1.1 Knows: fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity</p> <p>IOPK 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 professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)</p> <p>IOPK 1.3 Has practical experience: solving standard tasks of professional activity on the basis of ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives),</p>	legal aspects of medical activity to apply ethical norms and principles of behavior of a medical worker when performing their professional duties; knowledge of modern legislation in the field of healthcare when solving problems of professional activity;	apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)	practical experience: solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity

			knowledge of legal aspects of medical activity			
5.	OPC-4	is able to use medical devices provided for by the procedure for providing medical care, as well as to conduct examinations of the patient in order to establish the diagnosis	<p>IOPK 4.1 Knows the methodology for collecting anamnesis of life and diseases, complaints from patients (their legal representatives); the methodology 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 their results; 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 current medical procedures, 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:</p> <p>collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of disease</p>	<p>collect complaints anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of diseases; 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 risk factors for oncological diseases; formulate a preliminary diagnosis, make a plan for conducting</p>	<p>collect complaints anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of diseases; 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 risk factors for oncological diseases; formulate a preliminary diagnosis, make a plan for conducting</p>	<p>collection of complaints, anamnesis of life and disease in patients (their legal representatives), identification of risk factors and causes of diseases; 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 instrumental, laboratory, additional studies, consultations of specialist doctors; referrals of patients for instrumental, laboratory, additional studies, consultations of specialist</p>

			<p>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 risk factors for cancer; formulate a preliminary diagnosis, make 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 to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of</p>	<p>laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the</p>	<p>laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the</p>	<p>doctors in accordance with current medical care procedures, clinical recommendations, taking into account medical care standards; 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 health-related problems (ICD); differential diagnosis 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 medical care in an urgent form; the use</p>
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			<p>basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring medical care in an urgent form; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p> <p>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 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 instrumental, laboratory, additional studies, consultations of specialist doctors; referrals of patients for</p>	<p>procedures for providing 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 basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic</p>	<p>procedures for providing 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 basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic</p>	<p>of medical devices in accordance with current medical procedures, 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>instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with current medical care procedures, clinical recommendations, taking into account medical care standards; 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 health-related problems (ICD); differential diagnosis 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 medical care in an urgent form; the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care methods of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of</p>	<p>diseases without obvious signs of life-threatening , requiring medical care in an urgent form; to use medical devices in accordance with current medical procedures , clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>	<p>diseases without obvious signs of life-threatening , requiring medical care in an urgent form; to use medical devices in accordance with current medical procedures , clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>	
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			<p>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 their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>			
6.	OPC-5	<p>is able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional tasks,</p>	<p>IOPK-5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems IOPC 5. 2 is able to: evaluate the basic morphofunctional data, physiological states and pathological processes in the human body IOPK5. 3. Has practical experience:</p>	<p>anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p>	<p>to evaluate the main morphofunctional data, physiological conditions and pathological processes in the human body</p>	<p>to check the main morphofunctional data, physiological conditions and pathological processes in the human body</p>

			assessment of basic morphofunctional data, physiological conditions and pathological processes in the human body when solving professional tasks			
7.	OPC-10	is 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 a	OPK10. 1.Knows: the capabilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activities IOPC10. 2.He is able to: apply modern information and communication technologies to solve the tasks of professional activity; carry out an effective search for information necessary to solve the tasks 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 activity, taking into account the basic requirements of information security IOPC 10 3. Has practical experience in the use of modern information and	to master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security	to apply modern information and communication technologies to solve the tasks of professional activity; to carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; to use modern medical and biological terminology	to master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security

			<p>bibliographic resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security, the possibilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activity</p>			
8.	PC-5	<p>is able to collect complaints, anamnesis of the patient's life and illness, conduct a full 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</p>	<p>IPK 5.1 Knows: The legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activity medical organizations and medical workers; methods of collecting complaints, anamnesis of the patient's life and illness; the methodology of a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs;</p>	<p>The legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; the method of failure, anamnesis of life and disease of the patient; the method of</p>	<p>regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the theory of functional systems; features of regulation of functional systems of the human body in pathological processes; methods of</p>	<p>collecting complaints, anamnesis of the patient's life and illness and analyzing the information received; conduct a full physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determining the order of the volume, content and sequence of diagnostic measures</p>

			<p>regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the theory of functional systems; features of regulation of functional systems of the human body in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules for interpreting their results</p> <p>IPK 5.2 is able to: collect complaints, anamnesis of the patient's life and illness and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the order of volume, content and sequence of diagnostic measures</p>	<p>complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs;</p>	<p>laboratory and instrumental studies to assess the state of health, medical indications for research, rules for interpreting their results</p>	
9.	PC-6	<p>Is able to refer the patient for laboratory, instrumental examination, for consultation with specialist doctors if there are medical indications in accordance with the current procedures for providing medical care,</p>	<p>IPK 6 1. Knows: general issues of organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; procedures for providing medical</p>	<p>general issues of organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health,</p>	<p>to justify the need and scope of laboratory examination of the patient; to justify the need and scope of instrumental examination of the</p>	<p>substantiation of the need and scope of laboratory examination of the patient; substantiation of the need and scope of instrumental examination of the patient; justification</p>

		clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care, as well as to refer the patient for specialized medical care in inpatient conditions or in conditions of a day hospital in the presence of 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	care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care IPK 6 2. Is able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	medical indications for conducting research, rules for interpreting their results; procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care	patient; to justify the need to refer the patient for consultations with specialist doctors; to determine medical indications for the provision of emergency, including emergency specialized, medical care	of the need to refer the patient for consultations with specialist doctors; determination of medical indications for the provision of emergency, including emergency specialized, medical care
10.	PC-7	is able to carry out differential diagnostics with other diseases/conditions, including urgent ones, to establish a diagnosis taking into account the current international statistical classification of diseases and health-related	IPK 7.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting	etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal	analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting	interpretation of the results of collecting information about the patient's disease; interpretation of data obtained during laboratory examination of the patient; interpretation

		problems (ICD)	<p>their results; ICD IPK 7.2 is 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 the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases</p>	<p>organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; ICD</p>	<p>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 the consultations of the patient by specialist doctors; to carry out differential diagnostics of diseases of internal organs from other diseases of the analysis of the results of the examination of the patient, if necessary, substantiation and planning of the volume of additional</p>	<p>of data obtained during instrumental examination of the patient; interpret data obtained during consultations of the patient by specialist doctors; differential diagnosis of diseases of internal organs from other diseases</p>
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					studies	
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4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Examination of a patient with blood diseases. The main syndromes and diseases of the blood system 1. Principles of diagnosis in diseases of the hematopoietic organs	<p>1. Features of complaints: general and specific. Anamnesis features: connection with past infections, chronic inflammatory diseases, etc.</p> <p>2. Physical examination methods in the diagnosis of blood diseases. General examination: skin coloration, hemorrhages, traces of scratching. Examination of the oral cavity: swelling, puffiness, bleeding gums, redness, cracks, atrophied papillae of the tongue, necrotic changes on the tonsils, etc. Palpation of lymph nodes, liver, spleen: lymphadenopathy, hepatosplenomegaly.</p> <p>3. Laboratory and instrumental research methods. Clinical blood analysis, bone marrow analysis, studies for hemorrhagic syndrome: coagulation of whole blood, duration of bleeding, blood clot retraction, capillary resistance, prothrombin index.</p> <p>4. The main clinical syndromes in diseases of the hematopoietic organs: anemia syndrome, hemorrhagic syndrome, myeloproliferative, lymphoproliferative syndromes Clinical manifestations, laboratory diagnostics.</p> <p>5. The main diseases of the hematopoiesis system. Anemia: posthemorrhagic, iron deficiency, hemolytic, aplastic. Leukemia: acute and chronic. Chronic myeloid leukemia and lymphocytic leukemia. Hemorrhagic diathesis: hemophilia, thrombocytopathies, vasopathies. Etiology, pathogenesis, clinical manifestations, diagnostic methods, principles of treatment.</p>
2	UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Examination of a patient with diseases of the joints and musculoskeletal system. The main syndromes and diseases of the musculoskeletal system	<p>1. The basic principles of diagnosis of diseases of joints and muscles. Questioning. Features of complaints and anamnesis.</p> <p>2. Physical methods in rheumatology. General and local inspection. Examination of joints, muscles, bones. Palpation. Conducting special motor tests.</p> <p>3. Laboratory and instrumental research methods in rheumatology. Biochemical blood tests (protein fractions, acute phase proteins); uric acid, its clearance; rheumatoid factor; resoquin test. Immunological methods: CEC, immunoglobulins, cryoglobulins, antibodies to antigenic determinants of streptococcus, hepatitis B virus, C, cardiolipin, native DNA, collagen, complement content, HLA-27. Immunofluorescence methods: smears from the urethra, cervix, rectum on chlamydia, mycoplasma, ureaplasma.</p> <p>4. Methods of radiation diagnostics in rheumatology. Radiography of bones and joints, spine, ultrasound of joints, CT and MRI of joints and spine, densitometry, arthroscopy, puncture of joints, biopsy of synovial membranes.</p> <p>5. The main diseases of the joints. Rheumatoid arthritis, ankylosing spondyloarthritis, osteoarthritis, gout, reactive arthritis, osteoporosis, Reiter's disease. Etiology, pathogenesis, clinical manifestations, laboratory and instrumental diagnostic methods, principles of treatment..</p>
3	UC-1,4,5 OPK-1,4,5,10	Acute allergic diseases.	Acute allergic reactions in the clinic of internal diseases. Urticaria. Quincke's edema. Anaphylactic shock. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency

PK-5,6.7	care
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5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units (CU)	volume in academic hours (AH)	4	5	6	
Classroom work, including	0,61	22	-	22		
Lectures (L)	0,17	6	-	6		
Laboratory practicum (LP)*	-	-	-	-	-	
Practicals (P)	-	-	-	-	-	
Seminars (S)	0,44	16	-	16	-	
Student's individual work (SIW)	-	-	-	-	-	
Mid-term assessment	0,39	14	-	14		
credit/exam (<i>specify the type</i>)						
TOTAL LABOR INTENSITY	-	36		36		

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	s e m	Name of the section of the academic discipline	Types of academic work* (in AH)						total
			L	LP	PZ	KPZ	C	SRS	
1	6	Examination of a patient with blood diseases. The main syndromes and diseases of the blood system	2	-	-	7	-	6	15
2	6	Examination of a patient with diseases of the joints and musculoskeletal system. The main syndromes and diseases of the musculoskeletal system.	2	-	-	7	-	6	15
3	6	Acute allergic diseases.	2	-	-	2	-	2	6
		TOTAL							

* L- lectures

LP – laboratory workshop

PZ – practical exercises

KPZ – clinical practical training

C – seminars

SRS – independent work of a student

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH Semester 6
1	Modern diagnostic capabilities in diseases of the hematopoiesis system. The main syndromes in blood diseases	2
2	Modern diagnostic capabilities in diseases of the musculoskeletal system. The main clinical syndromes in diseases of the joints	2
3	Acute allergic reactions. Modern diagnostics and treatment approaches	2
	TOTAL (total - AH)	6

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

№	Name of laboratory practicums	Volume in AH Semester 6	
1	The main syndromes and diseases of the blood system. Features of physical examination of the patient. Modern laboratory and instrumental methods of research in hematology. Blood diseases. Anemia. Erythremia. Leukemia. Hemorrhagic diathesis. Classification, etiology, pathogenesis, clinical manifestations, diagnosis. Modern principles of treatment. Patient curation.	7	
2	Main syndromes in diseases of the musculoskeletal system. Features of physical examination of the patient. Modern laboratory and instrumental research methods in rheumatology. Diseases of the joints. Rheumatoid arthritis. Osteoarthritis. Ankylosing spondylitis. Gout. Reactive arthritis. Etiology, clinical manifestations, diagnosis, principles of treatment. Patient curation.	7	
3	Acute allergic reactions in the clinic of internal diseases. Urticaria. Quincke's edema. Anaphylactic shock. Etiology, clinical manifestations, modern diagnostics and treatment approaches	2	
	TOTAL (total - AH)	16	

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

№	Types and topics of SIW	Volume in AH semester 6	
1	Work with lecture material, review and study of literature, work with electronic educational resources on the topic: Major syndromes and diseases of the blood system. Features of physical examination of the patient. Modern laboratory and instrumental methods of research in hematology. Blood diseases. Anemia. Erythremia. Leukemia. Hemorrhagic diathesis. Classification, etiology, pathogenesis, clinical manifestations, diagnosis. Modern principles of treatment. Preparation for clinical practical classes; answers to control questions; preparation for computer testing, solving situational professional tasks.	7	
2	Work with lecture material, review and study of literature, work with electronic educational resources on the topic: The main syndromes in diseases of the musculoskeletal system. Features of physical examination of the patient. Modern laboratory and instrumental research methods in rheumatology. Diseases of the joints. Rheumatoid arthritis. Osteoarthritis. Ankylosing spondylitis. Reactive arthritis. Gout. Etiology, clinical manifestations, diagnosis, principles of treatment. Interpretation of radiographs, joint MRI results, preparation for clinical practical training; answers to control questions; preparation for computer testing, solving situational professional tasks.	7	
3	Work with lecture material, study of lectures and educational literature Review and study of literature, work with electronic educational resources on the topic: Acute allergic reactions in the clinic of internal diseases. Urticaria. Quincke's edema. Anaphylactic shock. Etiology, clinical manifestations, modern diagnostics and treatment approaches.	2	

	Interpretation of research results, allergological tests, preparation for clinical practical classes; answers to control questions; preparation for computer testing, solving situational professional tasks.	
	TOTAL (total - AH)	16

6.2.4. Student's research work:

№	Name of seminar topics	Semester
1	Differential diagnosis of anemia	6
2	Erythremia in the practice of a general practitioner	6
3	Hemorrhagic diathesis in the practice of a general practitioner	6
4	Acute leukemia. Modern diagnostics. Principles of treatment	6
5	Chronic leukemia. Modern diagnostics. Principles of treatment	6
6	Modern methods of laboratory and instrumental diagnostics for joint diseases	6
7	Osteoarthritis in the practice of a general practitioner. Modern approaches in diagnosis and treatment	6
8	Differential diagnosis of rheumatoid arthritis	6
9	Modern laboratory and instrumental diagnostics of reactive arthritis	6
10	Differential diagnosis of gout	6
11	Pathogenetic approaches in the treatment of rheumatoid arthritis	6
12	Ankylosing spondylitis. Current state of the problem	6
13	Urticaria and Quincke's edema in the practice of a general practitioner	6
14	Quincke's edema and anaphylactic shock in the practice of a general practitioner	6
15	Iron deficiency anemia in the clinic of internal diseases	6

The following educational technologies are used in the process of teaching the discipline:

1. Informational lecture, visualization lecture, problem lecture.
2. Clinical practical exercises at the patient's bedside, requiring the use of practical skills, discussion seminars, clinical analyses, practical training based on the case method, computer simulation.
3. The use of game technologies with the recreation of situations through educational, business and role-playing games.

Only 70% of interactive classes from the volume of classroom work.

Examples of educational technologies in an interactive form:

1. Discussion of educational clinical case histories during a practical lesson.

2. Collective discussion of anamnesis, symptoms, objective signs of the patient's disease based on the results of practical work at the patient's bedside – seminar-discussion.
3. Student clinical Conference.

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

№	Se mes ter No.	Types of control		Name of section of academic discipline	Competence codes	Assessment formats		
						types	number of test questions	number of test task options
1.	6	Current monitoring	Control of the student's independent work, control of the development of the topic Examination of a patient with blood diseases.	The main syndromes and diseases of the blood system				
2.	6	Mid-term assessment	Control of the student's independent work, control of the development of the topic, control of the development of practical skills Examination of a patient with diseases of the joints and musculoskeletal system.	Interpretation of the results of blood and bone marrow studies				
3.	6	Mid-term assessment	Control of the student's independent work, control of the development of the topic, control of the development of practical skills Acute allergic diseases.	Acute allergic diseases.				

	Exam/ Credit		Intermediate certification. Credit All sections of the discipline Control questions					
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7.1. Examples of evaluation tools:

1. Intermediate certification - questions to prepare for the test:

1. The importance of anamnesis and physical examination in the diagnosis of major syndromes in diseases of the blood system.
2. The importance of anamnesis and physical examination in the diagnosis of major syndromes in diseases of the musculoskeletal system.
3. The importance of anamnesis and physical examination in the diagnosis of major syndromes in diseases of the joints.
4. The main syndromes in hematology. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies.
5. The main syndromes in traumatology. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies.
6. Anemia syndrome Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies.
7. Iron deficiency anemia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
8. B12-deficiency anemia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
9. Posthemorrhagic anemia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
10. Hemolytic anemia Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
11. Acute leukemia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
12. Chronic leukemia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
13. Hemorrhagic diathesis. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
14. Erythremia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
15. Thrombocytopenia. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
16. Rheumatoid arthritis. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
17. Ankylosing spondylitis. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
18. Gout. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
19. Reactive arthritis. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
20. Osteoarthritis. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
21. Reiter's disease. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.

22. Urticaria. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
23. Quincke's edema. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
24. Anaphylactic shock. Definition, etiology, clinical manifestations, objective signs, laboratory and instrumental studies. Treatment.
25. Modern research methods in hematology.
26. Modern research methods in rheumatology.
27. Modern research methods in immunology and allergology.
28. Methods of radiation diagnostics in rheumatology.
29. Allergological tests in the diagnosis of allergies. Skin and conjunctival tests.
30. Immunological research in the clinic of internal diseases.

2. Test control "Main syndromes in blood diseases"

1. What kind of noise can be heard in iron deficiency anemia?

- A) early systolic
- B) late systolic
- C) pansystolic
- D) diastolic with a presystolic component
- E) long-lasting

2. At the Hb level of 64 g/l, anemia is regarded as:

- a) mild severity;
- b) moderate severity;
- c) severe severity.
- D) this is a normal level of Hb

3. Enlarged lymph nodes are characteristic of:

- a) anemic syndrome;
- b) hyperplastic;
- c) hemorrhagic;
- d) plethoric;
- e) jaundice.

4. Leukemides are lymphoid infiltration:

- a) in the bones;
- b) joints;
- c) skin;
- d) lungs;
- e) the brain.

5. The spleen reaches a large size:

- a) in acute leukemia;
- b) chronic lymphocytic leukemia;
- c) chronic myeloid leukemia.
- d) with iron deficiency anemia

6. The following type of bleeding is characteristic of hemoblastosis:

- a) microcirculatory;
- b) hematonic;

- c) mixed;
- d) vasculitic purple;
- e) angiomatous.

7. Bleeding from the hole of the removed tooth for more than 30 minutes is characteristic of:

- a) infectious-toxic syndrome;
- b) hemorrhagic;
- c) anemic;
- d) cytolysis.

8. Hyperplastic syndrome is characterized by complaints:

- a) the proliferation of gingival papillae, their bleeding;
- b) enlargement of lymph nodes;
- c) skin leukemides;
- d) difficulty eating;
- e) dysphagia.

9. What kind of shortness of breath is most characteristic of anemia?

- A) stridorous breathing
- B) expiratory dyspnea
- C) Kussmaul breathing or Cheyne-Stokes breathing
- D) Cheyne-Stokes breathing or Biota breathing
- E) inspiratory dyspnea

10. What is an ECG sign of the development of myocardial ischemia in anemia?

- A) ST segment depression, left ventricular overload
- B) overload of the right ventricle
- C) the development of tachyarrhythmia
- D) development of atrioventricular blockade
- E) the appearance of a pathological Q wave

3. Situational tasks

Task 1

Erythrocytes $3 \times 10^{12}/l$, hemoglobin 60 g/l, color index 0.6, leukocytes $6.2 \times 10^9/l$, eosinophils 2%, rod-shaped neutrophils 2%, segmented neutrophils 68%, lymphocytes 20%, monocytes 8%, platelets $224.2 \times 10^9/l$, ESR 26 mm/h, hypochromia +++, anisocytosis +++, poikilocytosis +++.

1 Give a conclusion on the hemogram.

2 Which hematological syndromes are characterized by this analysis?

Task 2

Erythrocytes $1.32 \times 10^{12}/l$, hemoglobin 42 g/l, color index 1, leukocytes $1.9 \times 10^9/l$, eosinophils 1%, rod-shaped neutrophils 1%, segmented neutrophils 8%, lymphocytes 87%, monocytes 3%, reticulocytes 0.2%, platelets $4.4 \times 10^9/l$, ESR 66 mm/h.

1 Give a conclusion on the hemogram.

2 Which hematological syndromes are characterized by this analysis?

Task 3

A 35-year-old patient was admitted to the hospital with complaints of chest pain, which appeared for the first time a few weeks ago. The pain radiates to both shoulders and the shoulder blade on

the left. An attack of pain appeared when walking. In addition, she feels interruptions in the work of the heart, shortness of breath with minimal load, her head is spinning. It is known from the anamnesis that she has copious menstrual bleeding. Two births in the last 5 years. Breastfeeding for a year. On objective examination, the condition is of moderate severity, the patient is pale, the fingers are pale and cold. She has brittle nails and hair. There are jams in the corners of the mouth. Vital signs: pulse rate 115 per minute, pulse regular, low filling, respiratory rate 24 per minute, blood pressure 100/60 mmHg, temperature 37.0.. During auscultation of the heart, deaf regular heart tones with a heart rate of 115 per minute, soft systolic blowing noise with a volume of no more than 3 above the base of the heart are heard.

task:

1. Name and justify the syndromes
2. Formulate the diagnosis in accordance with the modern classification.
2. Schedule an additional laboratory and instrumental examination of the patient.

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

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Strongin L. G. Guidelines for case reports, anamnesis collection and physical examination : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 64 p. 10 10		
2	Pocket Guide by Bickley Lynn S. Bates on Physical Examination and Anamnesis Collection. Lippincott, 2013.		
3	Gritsevskaya I.M. Learning to listen and understand the patient: a textbook on learning Russian as a foreign language in the framework of clinical practice for foreign medical students. NizhGMA Publishing House, 2014. – 150 p. 1,155		
4	Botova S. N. Practical aspects of spirometry : a textbook for foreign medical students. NNSMA Publishing House, 2015.- 56 p. 3 5		
5	Strongin L. G. Interpretation of ECG data: a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 68 p. 5 15		
6	Strongin L. G. Diabetes mellitus : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2015.-100 p. 2 30		
7	P. Kumar, M. Clark..Clinical Medicine / ed. – 8th ed. – Edinburgh: Saunders, 2012. – 1286 p. 1 50		
8	Longo Dan L. Harrison's Principles of Internal Medicine. Vol. 1. McGraw-Hill, 2012 - 15		
9	Longo Dan L. Harrison's Principles of Internal Medicine. Vol.2. McGraw-Hill, 2012 - 15		

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Collection of clinical history and examination.- Welsby Philip D. Churchill Livingston, 2002– 158 p.		
2	Shchukin Yu.V. Propaedeutics of internal diseases Methods of patient research: textbook. Rostov-on-Don: Phoenix,		

	2014. – 287s. 1 there is	
3	Propaedeutics of internal diseases : textbook. V. T. Ivashkin, A.V.Okhlobystin, Moscow: GEOTAR-Media, 2006 - 176 p.	
4	Swash M. Hutchison Clinical methods, - 21st ed. – Edinburgh: W.B. Saunders, 2002. – 501 p.	
5	J. R. Hampton "ECG made easy" – 7th ed. – Edinburgh: Churchill Livingstone, 2008. – 179 p	
6	V. Kumar, A. K. Abbas Robbins and Kotran "Pathological foundations of disease" edited by Vinay Kumar and Abul K. Abbas. 7th ed.- Elsevier Saunders, 2005. (2005) - 1525 p. 1 CD.	
7	N. A. Boone, N. R. College, B. R. Walker, J. Hunter. Davidson's Principles and Practice of Medicine / edited – 20th ed. – Edinburgh: Churchill Livingstone, 2006. – 1381 p.	
8	Mukhin N.A. Propaedeutics of internal diseases : a textbook with an appendix on a CD - 2nd ed. supplement and revision – M. : GEOTAR-Media, 2009. – 848 p.	
9	Butov M.A. Propaedeutics of internal diseases: a textbook..., Moscow: FORUM, 2011. – 512s.	
10	D. A. Shikhnebiev, Propaedeutics of internal diseases with the basics of general patient care: a textbook for students of medical universities – Makhachkala : Nauka-Dagestan, 2015. – 252 p.	

8.3. List of methodological recommendations for independent work of students:

1. Strongin L. G. Guidelines for case reports, anamnesis collection and physical examination : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 64 p. 10 10
- 2 Pocket Guide by Bickley Lynn S. Bates on Physical Examination and Anamnesis Collection. Lippincott, 2013. 1 70
3. Gritsevskaya I.M. Learning to listen and understand the patient: a textbook on learning Russian as a foreign language in the framework of clinical practice for foreign medical students. NizhGMA Publishing House, 2014. – 150 p. 1,155
4. Botova S. N. Practical aspects of spirometry : a textbook for foreign medical students. NNSMA Publishing House, 2015.- 56 p. 3 5
5. Strongin L. G. Interpretation of ECG data : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 68 p. 5 15
6. Strongin L. G. Diabetes mellitus : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2015.-100 p. 2 30
7. P. Kumar, M. Clark..Clinical Medicine / ed. – 8th ed. – Edinburgh: Saunders, 2012. – 1286 p. 1 50
8. Longo Dan L. Harrison's Principles of Internal Medicine. Vol. 1. McGraw-Hill, 2012 - 15
9. Longo Dan L. Harrison's Principles of Internal Medicine. Vol.2. McGraw-Hill, 2012 - 15
10. Collection and examination of clinical history.- Welsby Philip D. Churchill Livingstone, 2002– 158 p.
11. Propaedeutics of internal diseases : textbook. V. T. Ivashkin, A.V.Okhlobystin, Moscow: GEOTAR-Media, 2006 - 176 p.
12. Swash M. Hutchison clinical methods, - 21st ed. – Edinburgh : W.B. Saunders, 2002. – 501 p.
13. J. R. Hampton "ECG made easy" – 7th ed. – Edinburgh: Churchill Livingstone, 2008. – 179 p
14. V. Kumar, A. K. Abbas Robbins and Kotran "Pathological foundations of disease" edited by Vinay Kumar and Abul K. Abbas. 7th ed.- Elsevier Saunders, 2005. (2005) - 1525 p. 1 CD.
15. N. A. Boone, N. R. College, B. R. Walker, J. Hunter. Principles and Practice of Davidson Medicine / edited – 20th ed. – Edinburgh: Churchill Livingstone, 2006. – 1381 p
16. D. Kasper, E. Braunwald, A.Fauci, S.Hauser "Principles of Harrison's Internal Medicine" / edited – 16th ed. McGraw-Hill Medical Publishing Department, 2018. – 2783s. – 1

8.4 Electronic educational resources for teaching academic subjects

8.4.1. Internal Electronic Library System of the University (IELSU)

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
	Internal Electronic Library System (EBS) PIM	Works of PIM employees (textbooks, manuals, collections of tasks, manuals, laboratory work, monographs, etc.)	Access by individual login and password from any computer and mobile device is not limited	

8.4.2. Electronic educational resources acquired by the University

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic library of a technical university (EBS "Student Consultant" Textbooks and manuals for higher medical and pharmaceutical education.		Access by individual login and password from any computer and mobile device	
2	Database "Doctor's consultant. Electronic Medical Library" National guidelines, clinical guidelines, textbooks, monographs, atlases, reference books, etc. Access by individual login and password from any computer and mobile device is not limited		Access by individual login and password from any computer and mobile device	
3	Database "Electronic library system "Bukap" Educational and scientific medical literature of Russian publishers, including translated editions. The collection of subscription publications is formed point-by-point. Access by individual login and password from any computer and mobile device.		Access by individual login and password from any computer and mobile device	

8.4.3 Open access resources

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
1.	EBS "Student Consultant"	Educational resource (www.studentlibrary.ru) for	Free from any computer and mobile device.

		students of medical and pharmaceutical universities is an electronic library system (EBS) that provides access via the Internet to electronic versions of educational, scientific literature and additional materials.	
2	«Free Medical Journals»	Catalog of links to foreign medical journals, open for free access to the full texts of articles. http://www.freemedicaljournals.com / Free from any computer and mobile device.	Free from any computer and mobile device.
3	http://www.freebooks4doctors.com/	Catalog of links to foreign medical journals, open for free access to the full texts of articles. http://www.freemedicaljournals.com / Free from any computer and mobile device.	Free from any computer and mobile device.
4	High Wire. Library of the Sciences and Medicine	A large database of journal articles is presented on the website of the Stanford University Publishing House. Individual journals are completely open for free access. http://highwire.stanford.edu/	Free from any computer and mobile device.
5	BioMed Central	Electronic archive of open access to the results of research in the field of medicine, biology and technology. The portfolio includes articles from more than two hundred peer-reviewed journals http://www.biomedcentral.com	Free from any computer and mobile device.
6	Oxford Medicine	Online is a collection of publications of the Oxford Publishing House on medical topics, combining over 350 publications into a common resource with the possibility of cross-searching. Publications include The Oxford Handbook of Clinical Medicine and The Oxford Textbook of Medicine, the electronic versions of which are constantly updated. http://www.oxfordmedicine.com	Free from any computer and mobile device.
7	PubMed	Is a free search engine in the largest medical bibliographic database MedLine. Documents medical and biological articles from specialized literature, and also provides links to full-text	Free from any computer and mobile device.

		articles. http://www.ncbi.nlm.nih.gov/pubmed	
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9. Material and technical support for mastering an academic discipline

9.1. The list of premises required for conducting classroom classes in the discipline.

1. Lecture hall equipped with presentation equipment, multimedia complex (screen, laptop, projector).
2. An auditorium equipped with an interactive complex for practical classes and conferences.
3. Classrooms for conducting practical classes with students (3 classrooms), information stands, computers, interactive whiteboards, multimedia complex, slide show, DVD films by sections: methods of examination of a patient in therapeutic practice, assessment of vital signs, examination of a patient with diseases of the respiratory system, cardiovascular system, gastrointestinal diseasesintestinal tract, with joint diseases, auscultation of the heart, auscultation of the lungs, cardiac murmurs.
4. Offices for working with patients receiving medical care in therapeutic, cardiological, intensive care, polyclinic departments, as well as undergoing examination in the department of functional diagnostics and endoscopy.

9.2. List of equipment* required for conducting classroom classes in the discipline.

1. Information stands
2. Personal computers
3. Interactive whiteboard with multimedia complex
4. TV
5. Slide show,
6. DVD films by sections: methods of examination of a patient in therapeutic practice, assessment of vital signs, examination of a patient with diseases of the respiratory system, cardiovascular system, gastrointestinal tract diseases, joint diseases, auscultation of the heart, auscultation of the lungs, cardiac murmurs.
7. Magnetic marker boards
8. Sets of thematic tables and multimedia visual materials on various sections of the discipline
9. A set of electrocardiograms, spiograms, echocardiograms, radiographs, blood tests, urine, sputum

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

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	

