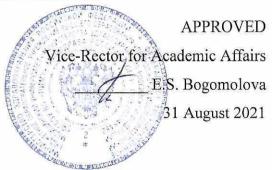
Federal State Budgetary Educational Institution of Higher Education "Privolzhsky Research Medical University" Ministry of Health of the Russian Federation



WORKING PROGRAM

Name of the academic discipline: **DEEP PHYSICAL EXAMINATION OF THE PATIENT**

Specialty: 31.05.01 GENERAL MEDICINE)

(code, name)

Qualification: GENERAL PRACTIONER

Department: ENDOCRINOLOGY AND INTERNAL DISEASES

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: (72 academic hours)

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

Developers of the working program:

Morozova Elena Pavlovna, Candidate of Medical Sciences, Associate Professor of the Department of Endocrinology and Internal Diseases, academic title Associate Professor.

The work program was reviewed and approved at a meeting of the Department of Endocrinology and Internal Medicine,
Protocol No. 9 dated April 15, 2021

AGREED

Deputy Head of EMA ph.d. of biology

Loytsova L. V

(signature)

April 15, 2021

1. The purpose and objectives of mastering the academic discipline "Deep physical examination of the patient". (hereinafter – the discipline):

1.1. The purpose of mastering the discipline: As a result of mastering the discipline program, the graduate should form universal, general professional and professional competencies: UK - 1,4,5; GPC - 1, 4, 5.10; PC - 5, 6, 7, necessary to achieve labor functions in accordance with the Professional Standard General practitioner (district general practitioner)

Universal competencies:

Systems and critical thinking (category)

UK-1 Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy

Communication.

UK-4 Able to use modern communication technologies, including in a foreign language, for academic and professional interaction

Intercultural interaction

UK-5 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.

GPC-1 Able to implement moral and legal norms, ethical and deontological principles in professional activities

Diagnostic instrumental examination methods

GPC-4 Able to use medical devices prescribed by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis

Etiology and pathogenesis

GPC-5 Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems

information literacy

GPC-10 Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security

Professional:

Examination of the patient in order to establish a diagnosis (labor function)

PC-5 Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient

PC-6 Able to refer a patient for a laboratory, instrumental examination, for a consultation with specialist doctors in the presence of medical indications in accordance with the current procedures for the provision of medical care, on the provision of medical care, taking into account the standards of medical care, as well as refer the patient for specialized medical care assistance in inpatient conditions or in a day hospital if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care

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)

1.2. Tasks of the discipline:

1. To form knowledge of symptoms, syndromes, history features, modern methods of clinical, laboratory and instrumental examination of patients with diseases of internal organs; etiology, pathogenesis, clinical manifestations, course features and possible complications occurring in a typical form in adult patients of various age groups; diagnostic criteria for diseases

and emergencies; methodology for making a diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)

- 2. To form the ability to determine the patient's status: collect anamnesis, conduct a survey of the patient and / or his relatives, conduct a physical examination of the patient (examination, palpation, percussion, auscultation, blood pressure measurement, etc.); conduct an initial examination of all body systems.
- 3. To form skills: evaluating the results of a physical examination of patients with diseases of the internal organs; interpretation of the results of laboratory, instrumental diagnostic methods; drawing up an algorithm for making a detailed clinical diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)
- 4. Provide an opportunity to gain practical experience in diagnosing diseases of internal organs in a simulation center
 - 1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- Algorithm for examining therapeutic patients, rules and stages of examining a patient, physical methods of examining a patient;
 - Anatomical, physiological, age and gender characteristics of a healthy and sick person;
- Causes of the main pathological processes in the body and 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, emergency conditions in patients with various therapeutic diseases, taking into account their course;
- Symptomatology of the most common diseases of internal organs, clinical picture, course features and possible complications of the most common diseases occurring in a typical form in different age groups;
- Classical methods of diagnostics, their diagnostic capabilities in the examination of a patient with a therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (immunological, endoscopic, methods of radiation diagnostics);
- Diagnosis methodology, diagnostic criteria. Principles of making a 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 its completion and maintenance;
- Lexical minimum of a general and terminological nature, basic medical terminology in Latin and foreign languages;
- Principles of ethics and deontology, rules of conduct for a doctor with colleagues, with middle 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 an anamnesis of life and history of the development of the disease in order to determine the status of the patient and obtain complete information about the disease, establishing the 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 primary examination of systems and organs of the patient;
- Identify the main pathological symptoms and syndromes, emergency 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 the 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 deciding on the need to provide him with medical care: critical condition, condition with pain syndrome, with a chronic disease, with an infectious disease, disability, geriatric problems;
- 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 ECG 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 spirogram for obstructive and restrictive types of respiratory failure;
 - Assess 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;
- Determine the 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 the rationale for the preliminary diagnosis, the design of the temperature sheet and the preparation of a plan for further examination of the patient. Report the patient's medical history at a medical conference:
 - Work with scientific and medical literature;
 - Publicly make a report, report, lead a discussion;
- Conduct training of patients and their relatives in the basic hygienic measures of a health-improving nature, the skills of self-control of the main physiological indicators, which contribute to the preservation and promotion of health, and the prevention of diseases.
- Carry out their activities taking into account the moral, ethical and legal norms accepted in society, keep medical secrets;
- Build and maintain working relationships with other team members; 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 terminological elements;

Possess:

- Application of medical knowledge in practice;
- Communication with medical staff, patients and their relatives, taking into account ethnic, confessional and cultural differences, ethical and deontological aspects of medical practice;
- Work with patients to inform them and their relatives in accordance with the requirements of the rules of "informed consent";
- Application of foreign languages to the extent necessary for communication and obtaining information from foreign sources, reading and writing skills in Latin for clinical and pharmaceutical terms and prescriptions;
 - Work with modern medical scientific literature and legal documents;
 - Collaboration with colleagues from related specialties;
- Carrying out a physical general clinical examination of the patient (survey, examination, palpation, percussion, auscultation, measurement of blood pressure, assessment of the characteristics of the pulse, respiration, ECG);
 - Filling in the medical history of an inpatient;
- Carrying out diagnostic measures for pathological symptoms and syndromes, emergency 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 for therapeutic and preventive measures, taking into account the development and course of the disease;
- Work on training patients and their relatives in the basic hygiene measures of a health-improving nature, the skills of self-control of the main physiological indicators, which contribute to the preservation and promotion of health, disease prevention.;
- Work on a personal computer using modern statistical programs for 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.

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

The discipline is taught in __5_ semester/__3_ year of study.

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

- 1. physics,
- 2.mathematics,
- 3.chemistry,
- 4.bioorganic chemistry,
- 5. biology,
- 6.anatomy,
- 7.nursing,
- 8. biochemistry,
- 9.clinical aspects of biochemistry,
- 11.normal physiology,
- 12.methods for studying physiological functions,
- 13. pathological physiology,
- 14. clinical pathophysiology,
- 15.pathological anatomy,
- 16. clinical pathological anatomy,
- 17.pharmacology,
- 18. first aid,
- 19.educational practice patient care of a therapeutic profile.

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

- 1. Faculty Therapy,
- 2.Occupational Diseases,
- 3. Polyclinic Therapy,
- 4. Hospital Therapy,
- 5. Endocrinology,
- 6. Infectious Diseases.
- 7. Rheumatology,
- 8. Gastroenterology,

- 9. Basics of Emergency Care,
- 10. Work Practice Physician's Assistant,
- 11. Work Practice Physician's Assistant of an outpatient clinic.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition ${\bf r}$

Mastering the discipline aims at acquiring the following universal (UC) or/and general

professional (GPC) or/and professional (PC) competencies

	noiessioi	iai (GPC) 01/aii	d professional (PC) con	1		, ,,
	Commi	The content	Code and			mastering the dis	scipline, the
No	Comp	of the	name of the		S	tudents should:	
	etence	competence	competence		_		
	code	(or its part)	acquisition		know	be able to	possess
		(or its part)	metric				
1.	UC-1	Able to	IUK 1.1		methods of		research of
		carry out a	Knows:		critical analysis	knowledge	the problem
		critical	methods of		and evaluation	based on	of
		analysis of	critical		of modern	analysis,	professional
		problem	analysis and		scientific	synthesis,	activity
		situations	evaluation of		achievements;	etc.; collect	using
		based on a	modern		basic principles	data on	analysis,
		systematic	scientific		of critical	complex	synthesis
		approach,	achievement		analysis	scientific	and other
		develop an	s; basic		•	problems	methods of
		action	principles of			related to the	
		strategy	critical			professional	activity;
		23	analysis			field; search	developing
			IUK 1.2			for	an action
			Able to: gain			information	strategy to
			new			and solutions	solve
			knowledge			based on	professional
			based on			action,	problems
			analysis,			experiment	r
			synthesis,			and	
			etc.; collect			experience	
			data on			1	
			complex				
			scientific				
			problems				
			related to the				
			professional				
			field; search				
			for				
			information				
			and				
			solutions				
			based on				
			action,				
			experiment				
			and				
			experience				
			IUK 1.3 Has				
			practical				
ш			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			
2.	UC-4	Able to	IUK 4.1	basics of oral	express your	skills in
		apply	Knows: the	and written	thoughts in	compiling
		modern	basics of	communication	Russian and	texts in
		communicati	oral and	in Russian and	foreign	Russian and
		on	written	foreign	languages in	foreign
		technologies	communicati	languages,	business	languages
		, including	on in	functional	communicatio	related to
		in a foreign	Russian and	styles of the	n	professional
		language(s),	foreign	native		activities;
		for academic	languages,	language,		experience
		and	functional	requirements		in translating
		professional	styles of the	for business		medical texts
		interaction	native	communication		from a
			language,	, modern means		foreign
			requirements	of information		language
			for business	and		into Russian;
			communicati	communication		experience
			on, modern	technologies		of speaking
			means of			Russian and
			information			foreign
			and			languages
			communicati			
			on			
			technologies			
			IUK 4.2			
			Knows how			
			to: express			
			their			
			thoughts in			
			Russian and			
			foreign			
			languages in			
			business			

		communicati			
		on			
		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			
2 110	7.5 Alala 4a	languages	 41		alv:11a a.f
3. UC		IUK5.1	the main	competently,	skills of
	analyze and		categories of	accessible to	productive
	take into	main	philosophy, the	express	interaction in
	account the	C	laws of	professional	a mafassianal
	diversity o	1 1 7	historical	information in	professional
	cultures in	the laws of	development,	the process of	environment,
	the process		the foundations	intercultural	taking into
	of	development	of intercultural	interaction;	account
	intercultura		communication	observe	national,
	interaction	of	; basic concepts	ethical	ethno-
		intercultural	of human	standards and	cultural,
		communicati	interaction in	human rights;	confessional
		on; basic	an organization	analyze the	characteristic
		concepts of		features of	s;
		human		social	overcoming
		interaction		interaction,	communicati
		in an		taking into	ve,
		organization		account	educational,
		IUK5.2		national,	ethnic,
		Knows how		ethno-	confessional
		to:		cultural,	and other
		competently,		confessional	barriers in
		clearly		characteristics	the process
		present			of
	1	professional			intercultural
		professionar			
		information			interaction

	,	1			T	,
			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			
			characteristi			
			CS			
			IUK 5.3 Has			
			practical			
			experience:			
			productive			
			interaction			
			in a			
			professional			
			environment			
			, taking into			
			account			
			national,			
			ethno-			
			cultural,			
			confessional			
			characteristi			
			cs;			
			overcoming			
			communicati			
			ve,			
			educational,			
			ethnic,			
			confessional			
			and other			
			barriers in			
			the process			
			of			
			intercultural			
			interaction			
4	GPC-1	Able to	IOPC 1.1	foundations of	apply ethical	practical
		implement	Knows:	medical ethics	standards and	experience:
		moral and	basics of	and	principles of	solving
		morar ana	ousies of	una	principles of	BOTTING

 T .	T				
legal norms,	medical		deontology;	behavior of a	standard
ethical and	ethics and		fundamentals	medical	problems of
deontologica	deontology;		of legislation in	worker in the	professional
l principles	fundamental		the field of	performance	activity
in	s of		healthcare;	of their	based on
professional	legislation in		legal aspects of	professional	ethical
activities	the field of		medical	duties;	norms and
detivities	healthcare;		practice	knowledge of	deontologica
	legal aspects		practice	modern	l principles
	of medical			legislation in	when
				the field of	
	practice				interacting
	IOPC 1.2 Is			healthcare in	with
	able to:			solving	colleagues
	apply ethical			problems of	and patients
	norms and			professional	(their legal
	principles of			activity; apply	representativ
	behavior of			the rules and	es),
	a medical			norms of	knowledge
	worker in			interaction	of the legal
	the			between a	aspects of
	performance			doctor and	medical
	of their			colleagues	practice
	professional			and patients	
	duties;			(their legal	
	knowledge			representative	
	of modern			s)	
	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				
	representativ				
	es)				
	IOPC 1.3				
	Has practical				
	experience:				
	solving				
	standard				
	problems of				
	professional				
	activity				
 •		I			

_		T	· · · · ·	 		
			based on			
			ethical			
			norms and			
			deontologica			
			1 principles			
			when			
			interacting			
			with			
			colleagues			
			and patients			
			(their legal			
			representativ			
			es),			
			knowledge			
			of the legal			
			aspects of			
			medical			
			practice			
5.	GPC-4	Able to use	IOTC 4.1	the	collect	collecting
		medical	Knows the	methodology	complaints,	complaints,
		devices	methodolog	for collecting	anamnesis of	anamnesis of
		provided for	y for	an anamnesis	life and	life and
		by the order	collecting	of life and	disease in	disease in
		of medical	anamnesis of	diseases,	patients (their	patients
		care, as well	life and	complaints	legal	(their legal
		as conduct	diseases,	from patients	representative	representativ
		examination	complaints	(their legal	s), identify	es),
		s of the	from	representatives)	risk factors	identifying
		patient in	patients	; methods of	and causes of	risk factors
		order to	(their legal	examination	the	and causes
		establish a	representativ	and physical	development	of the
			es); method	examination;	of diseases;	
		diagnosis	of	clinical picture,		development of diseases;
			examination	diagnostic	apply methods of	examination
				methods for the	examination	
			and physical examination;	most common		and physical examination
			clinical	diseases;	and physical examination	of patients;
			picture,	methods of	of patients;	diagnosis of
			diagnostic	laboratory and	interpret the	the most
			methods of	instrumental	results of the	common
			the most	studies for	examination	diseases;
						identification
			common diseases;	assessing the state of health,	and physical examination	of risk
			methods of	medical		factors for
					of patients;	
			laboratory	indications for	diagnose the	major
			and	conducting	most common	cancers;
			instrumental	studies, rules	pathology in	formulating
			studies for	for interpreting	patients;	a 1: :
			assessing the	their results;	identify risk	preliminary
			state of	international	factors for	diagnosis,
			health,	statistical	cancer;	drawing up a
			medical	classification of	formulate a	plan for

indications for conducting studies, rules for interpreting their results; international statistical classificatio n 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 recommenda tions (treatment protocols) on the provision of 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

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 recommendatio ns (treatment protocols) on the provision of medical care, care, taking into account the standards of medical care

preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendati ons, 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 recommendati ons, 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 recommendati

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 recommenda tions, taking into account the standards of medical care: interpretatio n of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and related health problems

(their legal representativ es), identify risk factors and causes of diseases; apply methods of examination and physical examination of patients; interpret the results of the examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommenda tions, taking into account the standards of medical care; refer patients for

ons, taking into account the standards of medical care; interpret and analyze the results of consultations with patients' specialists; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; to carry out differential diagnostics of diseases in patients; identify clinical signs of sudden acute diseases, conditions. exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care; apply medical devices in accordance with the current procedures for the provision of medical, clinical recommendati

ons (treatment

(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 recommenda tions (treatment protocols) on the provision of medical care. assistance taking into account the standards of medical care

			г -
	laboratory,		protocols) on
	instrumental		the provision
	and		of medical
	additional		care, care,
	studies in		taking into
	accordance		account the
	with the		standards of
	current		medical care
	procedures		
	for the		
	provision of		
	medical		
	care, clinical		
	recommenda		
	tions, taking		
	into account		
	the standards		
	of medical		
	care; refer		
	patients for		
	consultation		
	s to		
	specialist		
	doctors in		
	accordance		
	with the		
	procedures		
	for		
	providing		
	medical		
	care, clinical		
	recommenda		
	tions, taking		
	into account		
	the standards		
	of medical		
	care;		
	interpret and		
	analyze the		
	results of		
	consultation		
	s with		
	patients'		
	specialists;		
	interpret and		
	analyze the		
	results of		
	basic		
	(clinical)		
	and		
	additional		
	(laboratory,		
ш	(moormory,	l	l l

instrumental
examination
methods; to
carry out
differential
diagnostics
of diseases
in patients;
identify
clinical signs
of sudden
acute
diseases,
conditions,
exacerbation
s 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
recommenda
tions
(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	
representativ	
es),	
identifying	
risk factors	
and causes	
of diseases;	
examination	
and physical	
examination	
of patients;	
diagnosis of	
the most	
common	
diseases;	
identificatio	
n of risk	
factors for	
major	
cancers;	
formulating	
a	
preliminary	
diagnosis,	
drawing up a	
plan for	
instrumental,	
laboratory,	
additional	
studies,	
consultation	
s with	
specialist	
doctors;	
referral of	
patients for	
instrumental,	
laboratory,	
additional	
studies,	
consultation	
s of medical	
specialists in	
accordance	
with the	
current	
procedures	

г	
	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
	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			
		recommenda			
		tions			
		(treatment			
		protocols)			
		on the			
		provision of			
		medical			
		care,			
		assistance			
		taking into			
		account the			
		standards of			
6. GPC-5	Able to	medical care IOPC-5.1	anatomy	evaluate the	Use prestical
0. GPC-3	assess	Knows:	anatomy, histology,	main	Has practical experience:
	morphofunct	anatomy,	embryology,	morphofuncti	assessment
	ional,	histology,	topographic	onal data,	of basic
		embryology,	1 0 1		
	physiologica		anatomy,	physiological conditions	morphologic
	1 conditions	topographic	physiology,		al and functional
	and	anatomy,	pathological	and	data,
	pathological processes in	physiology,	anatomy and	pathological processes in	physiologica
	the human	pathological	physiology of	the human	l conditions
	body to	anatomy and physiology	human organs and systems	body	and
	solve	of human	and systems	body	pathological
	professional	organs and			processes in
	problems	systems			the human
	problems	IOPC 5.2			body in
		Able to:			solving
		evaluate the			professional
		basic			problems
		morphofunct			Procionis
		ional data,			
		physiologica			
		l conditions			
		and			
		pathological			
1 1		processes in			ļ l

			body IOPC5. 3. Has practical experience: assessment of basic morphologic al and functional data, physiologica l conditions and pathological			
			processes in the human			
			body when			
			solving professional			
			problems	 		
7	GPC- 10	Able to solve standard tasks of professional activity using information, bibliographi c resources, medical and biological terminology, information and communicati on technologies , taking into account the basic requirements of information security	IOPC10. 1.Knows: the possibilities of reference and information systems and professional databases; methods of information search, information and communicati on technologies ; modern medical and biological terminology; basics of information security in professional activity IOPC10. 2. Knows how	the possibilities of reference and information systems and professional databases; methods of information search, information and communication technologies; modern medical and biological terminology; basics of information security in professional activity	apply modern information and communicatio n 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	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 account the basic requirements of information security
			to: apply modern		information and	
			information		communicatio	

T , T	
and	n
communicati	technologies
on	in
technologies	professional
to solve the	activities,
problems of	taking into
professional	account the
activity; to	basic
carry out an	requirements
effective	of
search for	information
information	security
necessary to	and
solve the	and
problems of	
professional	
activity	
using	
reference	
systems and	
professional	
databases;	
use modern	
medical and	
biological	
terminology;	
master and	
apply	
modern	
information	
and	
communicati	
on	
technologies	
in	
professional	
activities,	
taking into	
account the	
basic	
requirements	
of	
information	
security IOPC 10 3.	
Has practical	
experience	
in: using	
modern	
information	
and	
bibliographi	

	1	T	T	T	Т	T
			c resources,			
			using special			
			software and			
			automated			
			information			
			systems to			
			solve			
			standard			
			problems of			
			professional			
			activity,			
			taking into			
			account the			
			basic			
0	DC 5	A 1-1 - 4 -	requirements	I a sialadia m a C	4114	114:
8	PC- 5	Able to	IPC 5.1	Legislation of	to collect	collection of
		collect	Knows: The	the Russian	complaints,	complaints,
		complaints,	legislation of	Federation in	anamnesis of	anamnesis of
		anamnesis of	the Russian	the field of	life and	life and
		the patient's	Federation	health	disease of the	illness of the
		life and	in the field	protection,	patient and	patient and
		illness,	of health	regulatory legal	analyze the	analysis of
		conduct a	care,	acts and other	information	the
		complete	regulations	documents that	received;	information
		physical	and other	determine the	conduct a	received;
		examination	documents	activities of	complete	conducting a
		of the	that	medical	physical	complete
		patient	determine	organizations	examination	physical
		(examinatio	the activities	and medical	of the patient	examination
		n, palpation,	of medical	workers;	(examination,	of the patient
		percussion,	organization	method of	palpation,	(examination
		auscultation)	s and	collecting	percussion,	, palpation,
		, formulate a	medical	complaints,	auscultation)	percussion,
		preliminary	workers;	anamnesis of	and interpret	auscultation)
		diagnosis	method of	life and illness	its results;	and
		and draw up	collecting	of the patient; a	determine the	interpreting
		a plan for	complaints,	technique for a	sequence of	its results;
		laboratory	anamnesis of	complete	volume,	determining
		and	life and	physical	content and	the order of
		instrumental	disease of	examination of	sequence of	volume,
		examination	the patient; a	the patient	diagnostic	content and
		s of the	technique	(examination,	measures	sequence of
		patient	for a	palpation,		diagnostic
		1	complete	percussion,		measures
			physical	auscultation);		
			examination	etiology,		
			of the	pathogenesis		
			patient	and		
			(examinatio	pathomorpholo		
			n, palpation,	gy, clinical		
			percussion,	picture,		
			auscultation)	differential		
	<u> </u>		auscultation)	umeremial		

	1	
	; etiology,	diagnosis,
	pathogenesis	course features,
	and	complications
	pathomorph	and outcomes
	ology,	of diseases of
	clinical	internal organs;
	picture,	patterns of
	differential	functioning of
	diagnosis,	a healthy
	course	human body
	features,	and
	· ·	mechanisms for
	complication s and	
		ensuring health from the
	outcomes of	
	diseases of	standpoint of
	internal	the theory of
	organs;	functional
	patterns of	systems;
	functioning	features of the
	of a healthy	regulation of
	human body	the functional
	and	systems of the
	mechanisms	human body in
	for ensuring	pathological
	health from	processes;
	the	methods of
	standpoint of	laboratory and
	the theory of	instrumental
	functional	studies for
	systems;	assessing the
	features of	state of health,
	the	medical
	regulation of	indications for
	the	conducting
	functional	studies, rules
	systems of	for interpreting
	the human	their results
	body in	then results
	<u> </u>	
	pathological	
	processes;	
	methods of	
	laboratory	
	and	
	instrumental	
	studies for	
	assessing the	
	state of	
	health,	
	medical	
	indications	
	for	
	conducting	
1	<i>9</i>	

г		T T		T	
		studies, rules			
		for			
		interpreting			
		their results			
		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			
		(examinatio			
		n, palpation,			
		percussion,			
		auscultation)			
		and interpret			
		its results;			
		determine			
		the sequence			
		of volume,			
		content and			
		sequence of			
		diagnostic			
		measures			
9. PC- 6	Able to refer	IPC 6 1.	general issues	justify the	substantiatio
	the patient	Knows:	of organizing	need and	n of the need
	for	general	medical care	scope of	and scope of
	laboratory,	issues of	for the	laboratory	laboratory
	instrumental	organizing	population,	examination	examination
	examination,	medical care	methods of	of the patient;	of the
	for a	for the	laboratory and	justify the	patient;
	consultation	population,	instrumental	need and	substantiatio
	with	methods of	studies for	scope of	n of the need
	specialist doctors if	laboratory	assessing the	instrumental examination	and scope of instrumental
	there are	and instrumental	state of health, medical		examination
	medical	studies to	indications for	of the patient; justify the	of the
	indications	assess the	conducting	need to refer	patient;
	in	state of	studies, rules	the patient for	substantiatio
	accordance	health,	for interpreting	consultations	n of the need
	with the	medical	their results;	with specialist	to refer the
	current	indications	procedures for	doctors;	patient for
	7 3 11 0 11 0		procedures for	3000010,	Patient 101

.		.,		4
procedures	for	the provision of	determine	consultations
for the	conducting	medical care,	medical	to specialist
provision of	studies, rules	clinical	indications	doctors;
medical	for	recommendatio	for the	determinatio
care, clinical	interpreting	ns (treatment	provision of	n of medical
recommenda	their results;	protocols) on	emergency,	indications
tions	procedures	the provision of	including	for the
(treatment	for the	medical care,	emergency	provision of
protocols)	provision of	standards of	specialized,	emergency,
on the	medical	medical care	medical care	including
provision of	care, clinical			emergency
medical	recommenda			specialized,
care, taking	tions			medical care
into account	(treatment			medical care
the standards	protocols)			
of medical	on the			
care, and	provision of			
also refer the	medical			
patient for	care,			
providing	standards of			
specialized	medical care			
medical care	IPC 6 2.			
in an	Able to:			
inpatient	justify the			
setting or in	need and			
a day	scope of			
hospital if	laboratory			
there are	examination			
medical	of the			
indications	patient;			
in	justify the			
accordance	need and			
with the	scope of			
current	instrumental			
procedures	examination			
for the	of the			
provision of	patient;			
medical	justify the			
care, clinical	need to refer			
recommenda	the patient			
tions	for			
(treatment	consultation			
protocols)	s with			
on the	specialist			
provision of	doctors;			
medical	determine			
care, taking	medical			
into account	indications			
the standards	for the			
of medical				
	provision of			
care	emergency,			
	including			

_	1	I		1			
			emergency				
			specialized,				
			medical care				
10	PC- 7	Able to	IPC 7.1		etiology,	analyze the	analysis of
		make a	Knows:		pathogenesis	results of the	the obtained
		differential	etiology,		and	patient's	results of the
		diagnosis	pathogenesis		pathomorpholo	examination,	examination
		with other	and		gy, clinical	if necessary,	of the
		diseases/con	pathomorph		picture,	justify and	patient, if
		ditions,	ology,		differential	plan the scope	necessary,
		including	clinical		diagnosis,	of additional	justification
		emergencies,	picture,		course features,	studies;	and planning
		to establish a	differential		complications	interpret the	of the
		diagnosis	diagnosis,		and outcomes	results of	volume of
		taking into	course		of diseases of	collecting	additional
		account the	features,		internal organs;	information	studies;
		current	complication		methods of	about the	interpreting
		international	s and		laboratory and		the results of
		statistical	outcomes of		instrumental	patient's disease;	
		classificatio	diseases of		studies for	*	collecting information
		n of diseases				interpret the data obtained	about the
			internal		assessing the		
		and related	organs;		state of health,	during the	patient's
		health	methods of		medical	laboratory	disease;
		problems	laboratory		indications for	examination	interpretatio
		(ICD)	and		conducting	of the patient;	n of data
			instrumental		studies, rules	interpret the	obtained
			studies for		for interpreting	data obtained	during the
			assessing the		their results;	during the	laboratory
			state of		ICD	instrumental	examination
			health,			examination	of the
			medical			of the patient;	patient;
			indications			interpret the	interpretatio
			for			data obtained	n of data
			conducting			during	obtained
			studies, rules			consultations	during the
			for			of the patient	instrumental
			interpreting			by medical	examination
			their results;			specialists; to	of the
			ICD			carry out	patient;
			IPC 7.2 Able			differential	interpret data
			to: analyze			diagnostics of	obtained
			the results of			diseases of	during
			the patient's			internal	consultations
			examination,			organs from	of the patient
			if necessary,			other diseases	by medical
			justify and				specialists;
			plan the				differential
			scope of				diagnosis of
			additional				diseases of
			studies;				internal
			interpret the				organs from
			results of				other
<u> </u>	1	I.					3,1121

		collecting		diseases
		information		uiscases
		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		
		consultation		
		s of the		
		patient by		
		medical		
		specialists;		
		to carry out		
		differential		
		diagnostics		
		of diseases		
		of internal		
		organs from		
		other		
		diseases		
Щ	ı			

4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competen ce code	Section name of the discipline	The content of the section in teaching units
		Physical	Features of the physical examination of the patient with diseases of the
	UK-1,4,5	examination of the	respiratory system. Possibilities of inspection, palpation, percussion,
	GPC-	patient and methods	auscultation in the diagnosis of diseases of the bronchopulmonary
1	1,4,5,10	of laboratory and	apparatus.
	PC-5,6.7	instrumental	Features of percussion and auscultation of patients with combined
	PC-3,0.7	research in diseases	pathology.
		of the respiratory	Methods of laboratory, instrumental and functional diagnostics in

		system	pulmonology. The function of external respiration. Spirometry.
			Obstructive and restrictive types of ventilation disorders. Peakflowmetry. Bodyplethysmography. Study of the diffusion capacity
			of the lungs. Pulse oscillometry Methods of radiation diagnostics.
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	Features of the physical examination of the patient with diseases of the cardiovascular system. Possibilities of inspection, palpation, percussion, auscultation in the diagnosis of diseases of the heart and vessels of the apparatus. Features of percussion and auscultation of the heart in diseases of the valvular apparatus. Heart murmurs, classification. Noise characteristics. Extracardiac and intracardiac murmurs. Organic and functional noises. Systolic and diastolic murmurs. Differences between organic and functional heart murmurs. Phonocardiogram in mitral and aortic heart disease. The value of methods of functional diagnostics in cardiology. ECG. ECHO-KG. load tests. pharmacological tests. The value of methods of radiation diagnostics in cardiology. X-ray or X-ray of the chest. Ultrasound examination of the heart and blood vessels. Angiocardiography. Nuclear magnetic resonance imaging of the heart and large vessels. Radionuclide study of the contractility of the heart. perfusion scintigraphy.
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	Features of the physical examination of the patient with diseases of the digestive system. Possibilities of inspection, palpation, percussion, auscultation in the diagnosis of diseases of the gastrointestinal tract, liver, pancreas. Modern functional and instrumental research methods in gastroenterology. The study of gastric juice, pH-metry, duodenal sounding. Methods of radiation diagnostics. Endoscopic methods. Possibilities of laboratory methods in gastroenterology.
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	Features of the physical examination of the patient with diseases of the kidneys and urinary system. Possibilities of inspection, palpation, percussion, auscultation in the diagnosis of kidney and urinary diseases. Modern functional and instrumental research methods in nephrology. Urine study. Methods of radiation diagnostics. Endoscopic methods. Possibilities of functional laboratory methods in nephrology. Assessment of glomerular filtration rate and tubular reabsorption.

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

Type of educational work		ntensity	Labor	intensity	
	volume in	volume in		semester	-
	credit units (CU)	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 (specify the type)	-	- credit		- credit	
TOTAL LABOR INTENSITY	2	72	-	72	

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the	J1		es of acaden	nic work* (in AH)	
	academic discipline	L	LP	P	S	SIW	total
1	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the	2	-	9	-	8	CPC
2	respiratory system Physical examination of the						
2	patient and methods of laboratory and instrumental research in diseases of the heart and blood vessels	4	-	12	-	10	28
3	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the digestive system	2	-	8	-	6	16
4	Physical examination of the patient and methods of laboratory and instrumental research in diseases of the urinary system	2	-	5	-	4	11

^{* -} L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

No॒	Name of lecture topics	Volume in AH			
		semester 4	semester 5	semester 6	
1	Functional research methods in pulmonology. The function of external respiration. Obstructive and restrictive types of ventilation disorders		2		
2	Features of auscultation of the heart and blood vessels in diseases of the valvular apparatus of the heart		2		
3	Functional research methods in cardiology. Opportunities and benefits.		2		
4	Modern functional and instrumental research methods in diseases of the digestive system		2		
5	Modern functional and instrumental research methods in diseases of the urinary system		2		
	TOTAL (total - AH)		10		

6.2.2. The thematic plan of practicals

No	Name of laboratory practicums	Volume in AH		
		semester 4	semester 5	semester 6

1			
1	Features of the physical examination of a patient	4	
	with diseases of the respiratory system. The value of	4	
	examination methods in the diagnosis. Practical		
	work on the development of practical skills of		
	examination, palpation, percussion and auscultation		
	in lung diseases.		
2	Possibilities of modern functional research methods		
	in pulmonology. The function of external		
	1 65	5	
	respiration. Spirometry. Obstructive and restrictive		
	types of ventilation disorders. Peakflowmetry.		
	Bodyplethysmography. Study of the diffusion		
	capacity of the lungs. Pulse oscillometry. Practical		
	work. Interpretation of research results.		
3	Features of the physical examination of a patient		
	with diseases of the cardiovascular system. The		
	value of examination methods in the diagnosis.	5	
	Practical work on the development of practical skills		
	of examination, palpation, percussion and		
	auscultation in cardiovascular diseases		
4	Possibilities of modern functional research methods		
-	in cardiology. Electrocardiography. Tests with		
		7	
		,	
	Phonocardiography. Methods of radiation		
	diagnostics. Practical work. Interpretation of		
	research results.		
5	Features of an objective examination of a patient		
	with diseases of the digestive system. The value of	0	
	methods of physical examination and modern	8	
	functional and instrumental methods of research in		
	the diagnosis. Practical work on the development of		
	practical skills of examination, palpation, percussion		
	and auscultation, interpretation of the results of the		
	study		
6	Features of an objective examination of a patient		
	with diseases of the kidneys and urinary system.		
	The value of methods of physical examination and		
	modern functional and instrumental methods of	5	
	research in the diagnosis. Practical work on the		
	~		
	development of practical skills of examination,		
	palpation, percussion and auscultation,		
	interpretation of the results of the study.	2.1	
	TOTAL (total - AH)	34	

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

No	Types and topics of SIW	Volume in AH		[
		semester 4	semester 5	semester 6
1	Work with lecture material, review and study of literature, work with electronic educational resources on the topic: Features of a physical examination of a			
	patient with diseases of the respiratory system. The value of examination methods in the diagnosis. Work with electronic educational programs on lung auscultation, preparation for clinical practical classes;		4	

		Т	T	
	answers to control questions; preparation for computer			
	testing, classes in a multi-profile accreditation and			
	simulation center, practical training in percussion,			
	palpation, auscultation skills.			
2	Work with lecture material, review and study of			
	literature, work with electronic educational resources			
	on the topic: Possibilities of modern functional			
	research methods in pulmonology. The function of			
	external respiration. Spirometry. Obstructive and			
	restrictive types of ventilation disorders.		4	
	Peakflowmetry. Bodyplethysmography. Study of the			
	diffusion capacity of the lungs. Pulse oscillometry.			
	Work with electronic educational programs on lung			
	auscultation, interpretation of radiographs, spirometry			
	results, preparation for clinical practical classes;			
	answers to control questions; preparation for computer			
	testing, solving situational professional problems.			
3	Work with lecture material, study of lectures and			
	educational literature on the topic: Features of a			
	physical examination of a patient with diseases of the			
	cardiovascular system. The value of examination			
	methods in the diagnosis. Practical work on		5	
	developing practical skills in palpation, percussion and		5	
	auscultation, skills in measuring blood pressure, pulse			
	palpation, apex beat, determining their characteristics,			
	percussion of the borders of the heart, auscultation of			
	heart sounds and murmurs, work with electronic			
	educational programs on heart auscultation, classes in			
	a multidisciplinary accreditation simulation center.			
4	Work with lecture material, study of lectures and			
-	educational literature on the topic: Possibilities of			
	modern functional research methods in cardiology.			
	Electrocardiography. Tests with physical activity.			
			5	
	pharmacological tests. Phonocardiography. Methods of radiation diagnostics. Practical work. Interpretation of			
	*			
	the results of ECG, FCG, ECHO-KG, classes in a			
	multidisciplinary accreditation and simulation center.			
5	Work with lecture material, study of lectures and			
	educational literature on the topic: Features of an			
	objective examination of a patient with diseases of the		6	
	digestive system. The value of methods of physical			
	examination and modern functional and instrumental			
	methods of research in the diagnosis. Practical work on			
	the development of practical skills of palpation,			
	percussion and auscultation, interpretation of the			
	results of the study.			
6	Work with lecture material, review and study of			
	literature, work with electronic educational resources			
	on the topic: Features of an objective examination of a		4	
	patient with diseases of the kidneys and urinary			
	system. The value of methods of physical examination			
	and modern functional and instrumental methods of			
	research in the diagnosis. Practical work on the			
	development of practical skills of palpation, percussion			
	and auscultation, interpretation of the results of the			
	study.		28	
	TOTAL (total - AH)		20	

In the process of teaching the discipline, the following educational technologies are used:

- 1. Informational lecture, visualization lecture, problematic lecture.
- 2. Clinical practical exercises at the bedside, requiring the use of practical skills, seminars, discussions, clinical reviews, practical exercises based on the case method, computer simulation.
- 3. The use of gaming 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. Practical work on developing the skills of palpation, percussion, auscultation.
- 2. Collective discussion of the anamnesis, symptoms, objective signs of the patient's disease based on the results of practical work at the patient's bedside a seminar-discussion.
- 3. Student clinical conference.

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

				is for ongoing me		Assessmen		
№	Se mes ter No.	Types of	control	Name of section of academic discipline	Competence codes	types	number of test questions	number of test task options
	5		Control of mastering the topic	Physical examination of the patient and methods of		Test tasks	10	Unlimited (computer tested)
1.		Current monito ring	Monitoring the student's individual work	laboratory and instrumental research in diseases of the respiratory system Main syndromes and diseases of the respiratory system		Testing practical skills	5	10
	5		Контроль самостоятельн ой работы студента, контроль	Physical examination of		Test tasks	10	Unlimited
2.		Current monito ring	освоения темы, контроль освоения практических навыков	the patient and methods of laboratory and instrumental research in diseases of the		Practical tasks for interpret ing research results	1	Correspon ds to the number of students in the group
				heart and blood vessels		Testing practical skills	5	10

	5	Current	Control of the	<u> </u>		20	
	3	monito	student's		Test	20	Unlimited
		ring	independent		tasks		
			work, control		tusks		
			of the			1	15
			development		Indivi	du	
			of the topic, control of the	Physical	al sur		
			development	examination of			
			of practical	the patient and			
			skills	methods of	Testir practi		10
3				laboratory and	skills	Cai	
				instrumental research in			
				diseases of the	Practi		15
				digestive	tasks interp		
				system	ing		
					resear	ch	
					results	S	
					test		1.5
					questi	on 3	15
					S		
	5	Current	Control of the			10	Unlimited
	3	monito	student's		Test	10	Ommined
		ring	independent		tasks		
			work, control		tuono		
			of the			1	15
			development of the topic,		Indivi	du	
			control of the		al sur	vey	
			development				
			of practical	Dhysical	Practi		
			skills	Physical examination of	tasks		Correspon
				the patient and	interp ing	ret	ds to the number of
				methods of	resear	ech	students in
4				laboratory and	results		the group
				instrumental research in	Tartin		10
				diseases of the	Testir practi		10
				urinary system	skills	cui	
					Gt.	ion 1	15
					Situat al tasl	1011	
					artasi	X.5	
						5	15
					test		
					questi	on	
					S		
	5	Mid-	Credit		test	3	35
5		term		All sections of	questi	on	
		assess ment		the discipline	S		
		1 1112111			1		

			Practical	1	30
			tasks for		
			interpret		
			ing		
			research		
			results		

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

No॒	Name according to bibliographic	Number of c	opies
	requirements		
		at the department	in the library
1.	Strongin L. G. Guide to case report writing, history taking and physical examination: textbook for the international english speaking medical students. Publishing House of NNSMA, 2014 64 p.	10	10
2	Bickley Lynn S. <u>Bates' pocket guide to physical examination and history taking</u> . Lippincott, 2013.	1	70
3.	Грицевская И.М. Учимся слушать и понимать больного: учебное пособие по изучению русского языка как иностранного в рамках клинической практики для иностранных студентов-медиков. Изд-во НижГМА, 2014. — 150 с.	1	155
4.	Botova S. N. Practical aspects of spirometry: textbook for the overseas medical students. Publishing House of NNSMA, 2015 56 p.	3	5
5.	Strongin L. G. Interpretation of ECG data: textbook for the international english speaking medical students. Publishing House of NNSMA, 2014 68 p.	5	15
6.	Strongin L. G. Diabetes mellitus: textbook for the international english speaking medical students. Publishing House of NNSMA, 2015 100 p.	2	30
7.	P. Kumar, M. ClarkClinical medicine / edited by – 8th ed. – Edinburgh : Saunders, 2012. – 1286 p.	1	50
8.	Longo Dan I. Harrison's principles of internal medicine. V.1. McGraw-Hill, 2012	-	15
9.	Longo Dan l. Harrison's principles of internal medicine. V.2. McGraw-Hil, 2012	-	15

8.2. Further reading

No	Name according to bibliographic	Number of copies	
	requirements		
		at the department	in the library
1.	Clinical history taking and examination Welsby		
	Philip D. Churchill Livingstone, 2002–158p.	1	1
2	Щукин Ю.В. Пропедевтика внутренних болезней		1
	Методы исследования пациента: учебное		
	пособие. Ростов-на-Дону: Феникс, 2014. – 287с.		
3.	Internal diseases propedeutics: textbook. V. T.		
	Ivashkin и A.V.Okhlobystin, Moscow : GEOTAR-	1	130

	Media, 2006 - 176 c.		
4.	Swash M. Hutchison's Clinical Methods, – 21st ed.		
	 − Edinburgh : W.B. Saunders, 2002. – 501 c. 	1	41
5.	J. R. Hampton The ECG made easy – 7th ed. –		
	Edinburgh: Churchill Livingstone, 2008. – 179 c.	1	14
6.	V. Kumar, A. K. Abbas Robbins and Cotran		
	pathologic basis of disease edited by Vinay Kumar и	-	15
	Abul K. Abbas . 7th ed Elsevier Saunders, 2005.		
	(2005) - 1525 c. 1 CD-Rom.		
7.	N. A. Boon, N. R. Colledge, B. R. Walker, J. A. A.		
	Hunter. Davidson's principles and practice of	-	4
	medicine / edited by -20 th ed. $-$ Edinburgh:		
	Churchill Livingstone, 2006. – 1381 c.		
8.	Мухин Н.А. Пропедевтика внутренних болезней		
	: учебник с приложением на компакт- диске – 2-е		
	изд. доп. и перераб. – М.: ГЭОТАР-Медиа, 2009.	1	98
	– 848 c.		
9.	Бутов М.А Пропедевтика внутренних болезней:		
	учебное пособие, Москва: ФОРУМ, 2011. –	1	1
	512c.		
10.	Д. А. Шихнебиев, Пропедевтика внутренних		
	болезней с основами общего ухода за больными:		
	учебное пособие для студентов медицинских		
	вузов – Махачкала : Наука-Дагестан, 2015. – 252	-	1
	c.		

8.3. Electronic educational resources for teaching academic subjects 8.3.1. Internal Electronic Library System of the University (IELSU)

No	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1	Internal Electronic Library System (VEBS) PIMU	Proceedings of PIMU staff (textbooks, manuals, collections of tasks, methodological manuals, laboratory work, monographs, etc.)	individual login and password	Not limited

8.3.2. Electronic educational resources acquired by the University

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic library of a technical university (ELS "Student Consultant"	Textbooks and teaching aids for higher medical and pharmaceutical education.	Access by individual login and password from any computer and mobile device	Not limited
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	Not limited
3	Database "Electronic Library System "Bukap"	Educational and scientific medical literature of Russian publishing houses, incl. translated editions. The collection of	Access by individual login and password from any computer and	Not limited

subscription publications is formed point by point.	From university computers -	
	access is	
	automatic.	

8.3.3 Open access resources

<u>№</u>	Open access resources Name of the electronic resource	crce Brief description (content) Access conditions			
712	Traine of the electronic resource	Σπος αενοπριίου (comein)	Access conditions		
1.	ЭБС «Консультант студента»	The educational resource (www.studentlibrary.ru) for students of medical and pharmaceutical universities is an electronic library system (ELS) that provides access via the Internet to electronic versions of educational, scientific literature and additional materials.	Free from any computer and mobile device.		
2.	«Free Medical Journals»	Catalog of links to foreign medical journals, open for free access to full texts of articles. http://www.freemedicaljournals.com/	Free from any computer and mobile device.		
3.	Free Books for Doctors	Books on medicine in English in the public domain http://www.freebooks4doctors.c om/	Free from any computer and mobile device.		
4.	«High Wire. Library of the Sciences and Medicine»	The Stanford University Press website has a large database of journal articles. Some 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 over two hundred peer-reviewed journals http://www.biomedcentral.com	Free from any computer and mobile device.		
6.	Oxford Medicine Online	A collection of Oxford Press' medical publications that brings together over 350 titles in a cross-searchable resource. Publications include The Oxford Handbook of Clinical Medicine and The Oxford Textbook of Medicine, which are constantly updated electronically. http://www.oxfordmedicine.com	Free from any computer and mobile device.		
7.	PubMed	Free search system in the largest medical bibliographic database MedLine. Documents	Free from any computer and mobile device.		

medical and biological articles
from the specialized literature,
and also provides links to full-
text articles.
http://www.ncbi.nlm.nih.gov/pu
bmed/

9. Material and technical support for mastering an academic discipline

- 9.1. List of premises for classroom activities for 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. Rooms for conducting practical classes with students (3 audiences), information stands, computers, interactive whiteboards, a multimedia complex, a slidescope, DVD films by sections: methods of examining a patient in therapeutic practice, assessing vital signs, examining a patient with diseases of the respiratory system, cardiovascular system, with diseases of the gastrointestinal tract, with diseases of the joints, auscultation of the heart, auscultation of the lungs, heart murmurs.
- 4. Rooms for working with patients receiving medical care in the therapeutic, cardiological, resuscitation, outpatient departments, as well as undergoing examination in the department of functional diagnostics and endoscopy.
- 9.2. List of equipment for classroom activities for the discipline
 - 1. Information stands
 - 2. Personal computers
 - 3. Interactive whiteboard with a multimedia complex
 - 4. TV
 - 5. Slidescope,
- 6. DVD films by sections: methods of examining a patient in therapeutic practice, assessment of vital signs, examination of a patient with diseases of the respiratory system, cardiovascular system, diseases of the gastrointestinal tract, diseases of the joints, auscultation of the heart, auscultation of the lungs, heart murmurs.
 - 7. Magnetic whiteboards
 - 8. Sets of thematic tables and multimedia visual materials for various sections of the discipline
- 9. A set of electrocardiograms, spirograms, echocardiograms, radiographs, blood tests, urine, sputum

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

	Software	number	Type of software	Manufacture	Number in	Contract No.
Ite		of		r	the unified	and date
m		licenses			register of	
no.					Russian	
					software	
1	Wtware	100	Thin Client	Kovalev	1960	2471/05-18
			Operating System	Andrey		from
				Alexandrovic		28.05.2018
				h		
2	MyOffice is	220	Office Application	LLC "NEW	283	without
	Standard. A			CLOUD		limitation,
	corporate user			TECHNOLO		with the right
	license for			GIES"		to receive
	educational					updates for 1
	organizations,					year.
	with no					
	expiration date,					
	with the right to					
	receive updates					
	for 1 year.					

3	3	LibreOffice		Office Application	The	Freely	
					Document	distributed	
					Foundation	software	
4	1	Windows 10	700	Operating systems	Microsoft	Azure Dev	
		Education				Tools for	
						Teaching	
						Subscriptio	
						n	
5	5	Yandex. Browser		Browser	«Yandex»	3722	
6	6	Subscription to					23618/HN100
		MS Office Pro					30 LLC
		for 170 PCs for					"Softline
		FGBOU VO					Trade" from
		"PIMU" of the					04.12.2020
		Ministry of		Office			
		Health of Russia	170	Application	Microsoft		

10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of *Name of the department*

CHANGE REGISTRATION SHEET

working program for the academic discipline NAME OF THE ACADEMIC DISCIPLINE							
Field of	study / specialty / scie	ntific specialty:)			
Training	g profile:	(coae, na	(code, name)				
Training	(name	e) - for master's degree programs					
Mode of	f study:						
	full-time/mixed attendance mode/extramural						
Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature			
1							
Approved at the department meeting of Endocrinology and Internal Medicine,							
Protocol No9of15.04.2021							
Head of	the Department						

signature

print name

department name, academic title