« ULTRASOUND DIAGNOSTICS IN THE FIELD OF THE THERAPY AND ENDOCRINOLOGY »

(name of the academic discipline)

General Educational Program of higher education (<u>specialist's degree programs</u>) 31.05.01 General Medicine

Department: ENDOCRINOLOGY AND INTERNAL DISEASES

1. The purpose and objectives of mastering the academic discipline Basics of ultrasound diagnostics in the clinic of internal diseases (hereinafter – the discipline):

1.1. The main goal of mastering and teaching the discipline "Basics of ultrasound diagnostics in the clinic of internal diseases": to participate in forming competencies provided for by the specialty study program in accordance with the GEP HE with advanced development of elements corresponding to the profile of the discipline being studied

1.2. Tasks of the discipline:

- Acquaintance of students with the role and importance of ultrasound diagnostics in therapy and endocrinology in the general system of medical science and practice.
- Mastering by students of the basic skills of ultrasound diagnostics in therapy and endocrinology in accordance with the program of the discipline

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- 1. Physical and technical foundations of ultrasound diagnostics.
- 2. Indications for various methods of ultrasound diagnostics.
- 3. Terminology and basic methods of ultrasound diagnostics.

4. Methodology for ultrasound examination of the abdominal organs, heart, blood vessels and thyroid gland.

5. Fundamentals of ultrasound diagnostics of the abdominal organs, heart, blood vessels and thyroid gland.

6. Principles of differential diagnosis of pathology of the abdominal organs, heart, blood vessels and thyroid gland

Be able to:

1. Prepare the ultrasound scanner for work.

2. Select the required probe and examination settings.

3. Determine the indications for an ultrasound examination and write a referral for the study.

4. Write the ultrasound protocol and evaluate the ultrasound pathology of the abdominal cavity, heart, blood vessels and thyroid gland.

5. Follow the safety requirements when working on an ultrasound scanner.

Possess:

1. Skills of working with an ultrasound scanner:

- switch on the ultrasonic scanner and connecting various probes to it;

- switching in the course of research of various settings of ultrasonic scanning;

- adjusting the grayscale scanning and Doppler settings and selecting the optimal image parameters.

- 2. Principles of writing an ultrasound protocol.
- 3. Evaluation of the results of ultrasound in the context of the clinical picture.

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 " ULTRASOUND DIAGNOSTICS IN THE FIELD OF THE THERAPY AND ENDOCRINOLOGY " refers to the facultative discipline is teaching in 4th year of studying **2.2.** To study the discipline the following knowledge, skills and abilities are necessary, formed by previous disciplines: normal and pathological anatomy, normal and pathological physiology, histology, propaedeutics of internal diseases.

2.3. Mastering the discipline is required for forming the following knowledge - not applicable in connection with the optional study of the discipline

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

pre	professional (GPC) or/and professional (PC) competenciesCompetenContent ofCode andAs a result of studying the discipline, students									
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		situations	evaluation of	scientific	collect data on	analysis,				
		on the	modern	achievements;	complex	synthesis and				
		basis of a	scientific	basic	scientific	other methods				
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		approach,	basic	critical	to the	activity;				
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			to: gain new		on action,	professional				
			knowledge		experiment and	problems				
			based on		experience					
			analysis,							
			synthesis, etc.;							
			collect data on							
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			problems							
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			practical							
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instrumental studies to pathology in of risk factors	
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assess the state of health, cancer risk oncological	
of health, medical factorsзаболева diseases;	
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medical indications for ний; formulate a formulation of indications for conducting proliminary	
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conducting research, rules diagnosis, draw diagnosis,	
research, rules for up a plan for drawing up a	
for interpreting interpreting laboratory, plan for	
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the the additional instrumental,	
International International studies in laboratory,	
Statistical Statistical patients in additional	
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	of Diseases	of Diseases	the procedures	consultations
	and health-	and Health	for the provision	of specialist
	related	Problems	of medical care,	doctors;
	problems	(ICD);	clinical	referral of
	(ICD);	conditions	recommendation	patients to
	conditions	requiring	s, taking into	instrumental,
	requiring	emergency	account medical	laboratory,
	emergency	medical care;	standardsпомощ	additional
	medical care;	the procedure	и; refer patients	studies,
	the procedure	for the use of	to laboratory,	consultations
	for the use of	medical	instrumental and	of specialist
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	ons (treatment	protocols) on	account the	into account
	protocols) on	the provision	standards of	the standards
	the provision	of medical	medical care;	of medical
	of medical	care,	refer patients for	care;interpretat
	care,	assistance	consultations to	ion of data
	assistance	taking into	specialist	from
	taking into	account the	doctors in	additional
	account the	standards of	accordance with	(laboratory
	standards of	medical care	the procedures	and
	medical care		for the provision	instrumental)
	IOPK 4.2 Is		of medical care,	examinations
	able to: collect		clinical	of patients;
	complaints,		recommendation	making a
	anamnesis of		s, taking into	preliminary
	life and		account the	diagnosis in
	disease in		standards of	accordance
	patients (their		medical care;	with the
	legal		interpret and	International
	representatives		analyze the	Statistical
	-		results of	Classification
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			consultations by	of Diseases
	causes of		specialist	and Related
	disease; apply		doctors of	
	methods of		patients;	Problems
	examination		interpret and	(ICD);
	and physical		analyze the	differential
	examination of		results of the	diagnosis of
	patients;		main (clinical)	diseases;
	interpret the		and additional	recognition of
	results of		(laboratory,	conditions that
	examination		instrumental)	occur in
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	and physical	methods of	sudden acute
	examination of	examination;	diseases,
	patients;	conduct	exacerbation
	diagnose the	differential	of chronic
	most common	diagnosis of	diseases
	pathology in	diseases in	without
	patients;	patients; identify	obvious signs
	identify risk	clinical signs of	of a threat to
	factors for	sudden acute	the patient's
	cancer;	diseases,	life and
	formulate a	conditions,	requiring
	preliminary	exacerbations of	emergency
	diagnosis,	chronic diseases	medical care;
	draw up a plan	without obvious	the use of
	for laboratory,	signs of a threat	medical
	instrumental	to life, requiring	devices in
	and additional	emergency	accordance
	studies in	medical care;	with the
	patients in	apply medical	current
	accordance	devices in	procedures for
	with the	accordance with	the provision
	procedures for	the current	of medical,
	the provision	procedures for	clinical
	of medical	the provision of	recommendati
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	recommendati	recommendation	,
	ons, taking		protocols) on the provision
	into account	s (treatment protocols) on the	of medical
	the standards	-	
	of medical	1	care, care
			taking into
	care; refer	care taking into	account the
	patients to	account the	standards of
	laboratory, instrumental	standards of	medical care
		medical care	
	and additional		
	studies in		
	accordance		
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	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		

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ons, taking	
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care; interpret	
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Statistical	
Classification	
of Diseases	
and Related	
Health	
Problems	
(ICD);	
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diagnosis of	
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			requiring			
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3.	GPC-7	Able to	GPC 7.1	methods of	develop a	skills in
		prescribe	Knows:	drug and non-	treatment plan	developing a
		treatment	methods of	drug	for patients with	treatment plan
		and	drug and non-	treatment,	the most	for patients
		monitor its	drug	medical	common	with the most
		effectiven	treatment,	indications for	diseases in	common
		ess and	medical	the use of	accordance with	diseases in
		safety	indications for	medical	the procedures	accordance
			the use of	devices in the	for the provision	with the
			medical	most common	of medical care,	current
			devices in the	diseases;	clinical	procedures for
			most common	groups of	recommendation	the provision
			diseases;	drugs used to	s, taking into	of medical
			groups of	provide	account the	care, clinical
			drugs used to	medical care	standards of	recommendati
			provide	in the	medical care;	ons, taking
			medical care	treatment of	prevent or	into account
			in the	the most	eliminate	the standards
			treatment of	common	complications,	of medical
			the most	diseases; the	side effects,	care; providing
			common	mechanism of	undesirable	medical care
			diseases; the	their action,	reactions,	
			mechanism of	medical		in emergency
					including	and emergency
			their action,	indications	unforeseen ones,	form to
			medical	and	resulting from	patients with
			indications and	contraindicati	diagnostic or	the most
			contraindicatio	ons to the	therapeutic	common
			ns to the	appointment;	manipulations,	diseases, in
			appointment;	compatibility,	the use of drugs	accordance
			appointment;	compatibility,	the use of drugs	accordance

		competibility.	possible	and (an) madiant	with the
		compatibility,	possible complications,	and (or) medical devices, non-	with the
		possible	1 '	,	current
		complications, side effects,	side effects, undesirable	drug treatment	procedures for
		undesirable	reactions,		the provision of medical
			,		
		reactions,	including serious and		care, clinical recommendati
		including serious and			
			unforeseen;		ons, taking
		unforeseen;	features of the		into account
		features of the	provision of		the standards
		provision of	medical care		of medical
		medical care	in emergency		care; selection
		in emergency	forms.		and
		forms GPC 7.2 Is			prescription of
					medicines,
		able to:			medical
		develop a			devices with
		treatment plan			the most
		for patients			common
		with the most			diseases for
		common diagonage in			the treatment
1		diseases in			of the most
		accordance			common
		with the			diseases in
		procedures for			children and
		the provision			adults in
		of medical			accordance
		care, clinical			with the
		recommendati			current
		ons, taking			procedures for
		into account			the provision
		the standards			of medical
		of medical			care, clinical
		care; prevent			recommendati
		or eliminate			ons, taking
		complications,			into account
		side effects,			the standards
		undesirable			of medical
		reactions,			care;
		including			evaluation of
		unforeseen			the efficacy
		ones, resulting			and safety of
		from			the use of
		diagnostic or			drugs, medical
		therapeutic			devices and
1		manipulations,			non-drug
1		the use of			treatment in
		drugs and (or)			patients with
		medical			the most
		devices, non-			common
		drug treatment			diseases;
		GPC 7.3 Has			selection and

practical	appointment of
experience in:	non-drug
developing a	treatment to
treatment plan	patients with
for patients	the most
with the most	common
common	diseases in
diseases in	accordance
accordance	with the
with the	procedures for
current	the provision
procedures for	of medical
the provision	care, clinical
of medical	recommendati
care, clinical	ons, taking
recommendati	into account
ons, taking	the standards
into account	of medical
the standards	care;
of medical	prevention and
care; providing	treatment of
medical care	complications,
in emergency	side effects,
and emergency	adverse
form to	reactions,
patients with	including
the most	unforeseen
common	ones, arising
diseases, in	as a result of
accordance	diagnostic or
with the	therapeutic
current	manipulations,
procedures for	the use of
the provision	drugs and (or)
of medical	medical
care, clinical	devices, non-
recommendati	drug
ons, taking	treatment;
into account	providing
the standards	medical care
of medical	to patients
care; selection	with sudden
and	acute diseases,
prescription of	conditions,
medicines,	exacerbation
medical	of chronic
devices with	diseases
the most	without
common	obvious signs
diseases for	of a threat to
the treatment	the patient's
of the most	life in an

· · · · · · · · · · · · · · · · · · ·		-
	common	urgent form;
	diseases in	the use of
	children and	drugs and
	adults in	medical
	accordance	devices in the
	with the	provision of
	current	medical care
	procedures for	in an
	the provision	emergency
	of medical	form
	care, clinical	
	recommendati	
	ons, taking	
	into account	
	the standards	
	of medical	
	care;	
	evaluation of	
	the efficacy	
	and safety of	
	the use of	
	drugs, medical	
	devices and	
	non-drug	
	treatment in	
	patients with	
	the most	
	common	
	diseases;	
	undesirable	
	reactions,	
	including	
	unforeseen	
	ones, resulting	
	from	
	diagnostic or	
	therapeutic	
	manipulations,	
	the use of	
	drugs and (or)	
	medical	
	devices, non-	
	drug	
	treatment;	
	providing	
	medical care	
	to patients	
	with sudden	
	acute diseases,	
	conditions,	
	exacerbation	
1 1 1	of chronic	

4.	PC-1	Provision of primary	diseases without obvious signs of a threat to the patient's life in an urgent form; the use of drugs and medical devices in the provision of medical care in Emergency ID-4 - Able to assess the need	Indications, limitations	Assess the patient's	Skills in conducting
		health care to the population	for therapeutic and diagnostic measures and prescribe their implementatio n in the pathologies	and contraindicati ons for the implementatio n of diagnostic and therapeutic	condition and prescribe diagnostic and therapeutic measures depending on the result within	examination and interpreting the results obtained, determining the tactics of
			studied within the discipline	measures within the framework of the studied disease	the framework of the studied diseases	diagnosis and treatment for the studied diseases

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

Total labor intensity of the discipline is		.H)
Types of classes	Labor	intensity
	volume in	volume in
	credit units	academic hours
	(CU)	(AH)
classroom work, including	1	36
Lectures (L)	0,22	8
Laboratory practicum (LP)*	-	-
Practicals (P)	0,69	24
Seminars (S)	-	-
Student's individual work(SIW)	1	36
Mid-term assessment	0,11	4
TOTAL LABOR INTENCITY	2	72

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

п/ №	Name of the section of the academic discipline	Types of academic work* (in AF					in AH)
		L	LP	Р	S	SIW	total
1.	General questions of ultrasaund diagnostics	2		3		2	5
2.	Particular issues of ultrasound diagnostics	6		21		34	28

3.	Mid-term assessment				4
	TOTAL	8	24	36	72