



ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казакхстанская медицинская академия»	044- /11 p.1 из 36
Department of "Propaedeutics of Internal Diseases", "Department of Pathology and Forensic Medicine", "Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology", "Pediatrics-1", Department of Biology and Biochemistry"		
Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

Syllabus

Department of Propaedeutics of Internal Diseases
Department of Pediatrics-1
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Biology and Biochemistry

Working curriculum of the discipline "Digestive and endocrine systems in pathology"
Educational program 6B10115 "Medicine"

1. General information about the discipline			
1.1	Discipline code: DESP 3215	1.6	Academic year: 2024-2025
1.2	Title of the discipline: Digestive and endocrine systems in pathology	1.7	Course: 3
1.3	Prerequisites: General pathology, digestive and endocrine systems in norm	1.8	Semester: 5
1.4	Post-prerequisites: Diseases of the digestive and endocrine system	1.9	Number of credits (ECTS): 6/180
	Cycle: BD	1.10	Component: UC
2. Discipline description			
<p>Integrated discipline "Digestive and endocrine systems in pathology": formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory studies, etiology, pathogenesis, morphogenesis, biological features of microorganisms of frequently occurring pathological processes of the digestive and endocrine systems, acquisition of skills in choosing research methods for diagnosis and medicines for the treatment of the most common diseases in adults and children.</p>			
3. Summative assessment form			
3.1	• Testing	3.5	Coursework
3.2	Written	3.6	Essay
3.3	Oral	3.7	Project
3.4	• OSPE/OSE or reception of practical skills	3.8	Other (specify)
4. Objectives of the discipline			
<p>Formation of a holistic view of the pathology of the digestive and endocrine systems, based on symptoms and syndromes, as well as on the methods of their research.</p> <p>Ensuring the achievement of the final results of training based on the joint study of the pathology of the digestive and endocrine systems on the propaedeutics of internal and pediatric diseases with fundamental disciplines.</p> <p>Formation of clinical thinking skills based on knowledge of the pathophysiological mechanisms of the course, pathoanatomical changes, complications and outcome of diseases, physical and clinical laboratory methods of examinations and drug selection in adults and children with the main clinical syndromes in the pathology of the digestive and endocrine systems.</p> <p>Development of research skills by analyzing scientific articles, analyzing experimental research and project activities.</p>			
5. Final learning outcomes (LO disciplines)			
LO1	Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of diseases of the digestive and endocrine system		
LO2	Knows the methods of questioning, physical examination of adults and children, uses clinical thinking in collecting information when drawing up a survey plan; outlines the scope of basic and additional studies to clarify the lesion syndrome in diseases of the digestive and endocrine system		
LO3	Uses clinical thinking to collect information when interpreting the results of morphological, laboratory and instrumental methods of studying patients with pathology of the digestive and endocrine systems, formulates a syndromic diagnosis, fills in the medical history.		

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA АКАДЕМИАСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979-	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казакстанская медицинская академия»	044- /11 p.2 из 36
Department of "Propaedeutics of Internal Diseases", "Department of Pathology and Forensic Medicine", "Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology", "Pediatrics-1", Department of Biology and Biochemistry"			
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LO4	Communicates information, ideas, problems, and solutions to patients and their family members, and is proficient in ethics and deontology in communicating with patients, their relatives, and colleagues.
LO5	Determines pathological processes at the organ and cellular levels, interprets data on the pathophysiology and morphology of diseases, taking into account the clinical data of patients, makes conclusions, explains the patterns of complications and outcomes of pathology of the digestive and endocrine systems, evaluates the results of experimental studies.
LO6	Selects medicines according to the diagnosis, prescribes prescriptions, determines the dosage regimen, recognizes undesirable effects of medicines, predicts the development of side effects and interactions of medicines used in the pathology of the digestive and endocrine systems

5.1	LO disciplines	Results of EP training, which are associated with LO disciplines
	LO 1 LO 2	LO 1 Applies in practice the fundamental principles of the study of knowledge in biomedical, clinical, epidemiological, and social - behavioral sciences.
	LO 3 LO 4	LO 2 Provides patient-centered care in the biomedical, clinical, epidemiological, and social-behavioral sciences focused on the diagnosis, treatment, and prevention of the most common diseases.
	LO 5 LO 6	LO 6 Conducts admission, diagnosis, treatment, dynamic observation and rehabilitation of children and adults, including pregnant women, based on the principles of evidence-based medicine.

6. Detailed information about the discipline

6.1	<ul style="list-style-type: none"> • Location of the Department of Biology and Biochemistry: Shymkent, Al-Farabi Square, 1, SKMA main academic building, 4th floor. • Location of the Department of Pathology and Forensic Medicine: Shymkent, Al-Farabi Square, 3, SKMA academic building No. 2, 4th floor, clasSIWoms No. 404 a, b, № 406, № 408, № 409, № 411 a, b; e-mail: Patan.gisto@mail.ru • Location of the Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology: Shymkent, Al-Farabi ave., 1, SKMA main academic building, 4th floor, auditorium № 419, № 421, № 425, № 429, № 431, № 434, № 417, lecture hall No. 4; tel. 40-82-06 (PBX), 227 (internal). • Location of the Department of Propaedeutics of Internal Diseases: Shymkent, ParkHealth Clinic, 26 Kabanbay Batyr str., 2nd floor; tel: 8 701 738 6114, e-mail: propedevtica_vb@mail.ru • Location of the Department of Pediatrics-1: 125 Argynbekov str., Shymkent, Regional Children's Hospital; e-mail: ped.rez@mail.ru
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6.2	Number of hours	Lectures	Practical lessons	Lab.lessons	SIWT	SIW
		12	48		18	84

6.3 Discipline study plan

Days																Hours
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Pathophysiology (1 cu.)	Lec				1				1							2
	Pract	2			2				2				2			8
	SIWT	1			1								1			3
	SIW	6			3								5			14+3(PA)=17
Pathanatomy (1 cu.)	Lec		1			1										2
	Pract		1			3			1				3			8
	SIWT					1			1				1			3
	SIW					6			3				5			14+3(PA)=17
Propaedeutics of children 's diseases	Lec		1								1					2
	Pract		3				1			3			1			8
	SIWT		1				1			1						3

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(1 cu.)	SIW			5				5				4					14+3(PA)=17
Propaedeutics of internal diseases (1.5 cu.)	Lec			1				1				1					3
	Pract			3				3				2	2		2		12
	SIWT			1				1				1			1		5
	SIW			6				5				6			4		21+5(PA)=26
Pharmacology (1 cu.)	Lec							1				1					2
	Pract		2					2				2				2	8
	SIWT		1							1	1						3
	SIW		6							5	3				3		14+3(PA)=17
Biochemistry (0.5 cu.)	Lec	1															1
	Pract	1				1						1					4
	SIWT					1											1
	SIW					8											8+1(PA)=9

7. Information about teachers

№	Full name	Degree and position	Email addresses	Research interests etc	Note
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Department of Biology and Biochemistry

1	Kenzhebekov Pernebek Kenzhebekovich	Professor	Pernebekkenzhebekovic@gmail.com	"Investigation of the chemical composition of volatile aroma-forming compounds in some meat products"	42 scientific publications, 1 textbook
2	Ordabekova Asmira Baltabayevna	senior lecturer	asmira75@mail.ru	"Bauyrdynuly zakymdanuyndagy selennin anti-oxidanttyk kasyeti"	22 scientific publications
3	Gulshahar Kenesbekovna Asilbekova	Gulshahar Kenesbekovna Asilbekova senior lecturer	shahats@mail.ru	"Microelementoses"	14 scientific publications
4	Beisebayeva Lyazzat Mukhtarovna	senior lecturer	lyzzatb70@list.ru	"Organization of clinical and diagnostic laboratory service in modern conditions in the Republic of Kazakhstan"	3 scientific publications
5	Kanzhigitova Muldir Zharkynbekkyzy	senior lecturer	molya_1503@mail.ru	Alka zhane burshak tukymdas osimdikterdi homologiyalyk katarlar zany boyynsha zertteu.	10 scientific publications
6	Zhienbayeva Aliya Aitbayevna	senior lecturer	of alia.zhienbaeva@mail.ru		3 scientific publications

Department of Pathology and Forensic Medicine

1	Sadykova Aliya	Head. Department of Pathology and	aliya.sadyko	Topic of the scientific direction "Pathology of the	Author of 84 scientific publications, 5 textbooks, 1
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	Shamilevna	Forensic Medicine, MD, Acting Professor	va.66 @mail .ru 66@m ail.ru	immune system, pathological anatomy of tumors"	patent for invention, 1 monograph
2	Bisimbayeva Saule Babatovna	PhD, Acting Associate Professor	Bisimb aeva@ inbox.r u @inbo x.ru	Topic of the scientific direction "Okpe tuberculezin ontayly emdeudin gigenalyk turgydan negizdeu"	Author of 40 scientific publications, 2 pre-patents, 1 patent, 1 monograph and 2 acts of implementation of research results
3	Dosybayev Bakhytzhан Krykbayevich	PhD, Acting Associate Professor	Krik85 @mail .ru @mail .ru	Topic of the scientific direction "Predictive assessment of the health of cement production workers"	Author of 14 scientific publications
4	Kulbalieva Zhannat Zhakslikovna	Kulbalieva PhD, Acting Associate Professor	zhann_ 7@mai l.ru @mail .ru	Topic of the scientific direction "The influence of lead on the oxidative metabolism of blood lipids and proteins and its correction with biophenicol"	Author of 44 scientific publications, 1 teaching manual, 2 acts of implementation of the results of research work and 3 acts of implementation of the results of educational and scientific research.methodological work
5	Kerimov Rasim Azatovich	Master's degree, senior lecturer	Kir- 2004@ list.ru @list.r u	Topic of the scientific direction "Diagnosis and prevention of colorectal cancer"	Автор 20 научных публикаций
6	Абильдина Каламкас Бержановна	Master's degree, assistant	Mskas 1972 @mail .ru	Theme of scientific direction "Morphogenesis of atherosclerosis of the aortic and renal arteries of the population of Shymkent"	Author of 19 scientific publications 1 training manual
7	Ignatieva Anastasia Sergeevna	Senior Lecturer	Zhelon kina_8 8 @mail .ru	-	-
8	Zhelonkina_88@ mail.ru--8 Gulmira Berdaliyeva	Senior Lecturer	Mira- 3505@ mail.ru - Автор @mail .ru	-	6 scientific publications
9	Atenova Nazgul Abayevna	Assistant	Acade m89@ mail.ru @mail .ru	The topic of the scientific direction is "The prevalence and pathological anatomy of coronavirus infection in residents of Shymkent"	Автор 2 научных публикаций
10	Kerimbekova Maryam	Assistant	-	-	-

	Otellovna				
11	Kurymbaeva Ainur Rashidovna	Assistant	Smp_z oj @mail .ru	-	-
12	Seidakbar Aisana Usenovna	Assistant	aseyda kbar @mail .ru	-	Автор 2 научных публикаций
13	Edige Aidana Zhandosovna	Assistant	a.edige 93 @ mail.ru	Theme scientific direction "influence of climate factors on the development of myocardial infarction among men of Shymkent"	
14	Zhazira Duisembieva Merekyzy	Assistant	zhazira 0508 @mail .ru	Theme scientific direction "scientific foundations of the formation of a healthy lifestyle of the population in the South Kazakhstan region"	Author of 3 scientific publications
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology					
1	Ibragimova Aigul Gaffarovna	Candidate of Pharmacological Sciences ,Acting Associate Professor	aygul_ ibr@m ail.ru	" Problems of rational use of medicines: effective and safe pharmacotherapy, pharmacoepidemiological, pharmacoeconomic, pharmacogenetic aspects. Personalized therapy. Development of herbal remedies and effective herbal medicine for various diseases"	Author of more than 20 scientific papers, textbooks, methodological recommendations
2	Abuova Gulnara Turganbaevna	Candidate of Biological Sciences ,Acting Associate Professor	abuova @mail .ru	"Pharmacoeconomic approaches to optimizing the treatment of acute respiratory infections in outpatient settings"	Author of more than 20 scientific papers, textbooks, and methodological recommendations
3	Korganbaeva Zaure Sarybayevna	Candidate of Biological Sciences, Acting Associate Professor	korgan baeva0 55@m ail.ru	«Justification of the protective effect of phytopreparations on blood and liver damage during lead intoxication"	Author of more than 20 scientific papers, textbooks, and methodological recommendations
4	Syrmanova Nurgul Rakhmanovna	MSc., senior assistant	n_rak hman @mail .ru	"Study of specific activity of extracts isolated from tapeworm plants"	Author of more than 20 scientific papers, textbooks, methodological recommendations
5	Muyutova Mahsuda Nasyrovna	mag. m. n., senior lecturer	mahsu _med @mail .ru	Clinical Pharmacology in General Medicine and Neurology	Author of 4 scientific articles
Department of Propaedeutics of Internal Diseases					

1	Bekmurzayeva Elmira Kuanyshevna	Head of the Department of Medicine, Professor If	Elmira-bek@mail.ru	Scientific work: "Clinical and hygienic features of the formation of diseases of the digestive system in workers of modern oil refining production (on the example of JSC "SHNOS")"	<p>Author of more than 260 scientific and methodological publications, 2 textbooks, 8 textbooks. Certificate of general practitioner, gastroenterologist and rheumatology of the highest category. 2005 - Doctor of Medical Sciences, approved by the Higher Attestation Commission of the Republic of Kazakhstan (diploma of State Medical Committee No. 0000379), (14.00.50 – "Occupational Medicine"), Professor in the specialty "Medicine" (diploma of PR No. 0000446), Higher Attestation Commission of the Republic of Kazakhstan.</p> <p>Under the guidance of E. K. Bekmurzayeva, 3 candidates of medical sciences were trained and approved by the Committee for Control and Certification in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan. Awarded for high scientific achievements with medals, diplomas and certificates: Robert Koch 2012, Peterkof 2014, Albert Schweitzer 2015, "Excellent Healthcare Worker of the Republic of Kazakhstan", Republican Grant of the Ministry of Education and Science of the Republic of Kazakhstan "Best University Teacher-2014"</p>
2	Sadykova Gulzhan Saparovna	Candidate of Medical Sciences, acting Associate Professor	gulzhan2171@mail.ru	Scientific work: "hepatoprotective effect of pannuvladin in toxic hepatitis".	Author of more than 35 scientific and methodological publications, 8 textbooks, Certificate of therapist of the highest category. Certificate of a specialist in GP
3	Baidullayev Bahram Muzaffarovich	Assistant	bbm2055@mail.ru -Автор@mail.ru	-	Author of more than 65 scientific and methodological publications, 6 textbooks. The certificate of the therapist of the highest category.

4	Akhaeva Laura Zhaksylykovna	Head teacher, assistant	Laura199 0a00@ma il.ru- Сертифи кат @mail.ru	-	Certificate of a specialist general practitioner. Author of 25 scientific publications.
5	Toktarova Gulnaz Abdimalikovna	Assistant	Toktar_8 585@mai l.ru- Сертифи кат @mail.ru	-	Certificate of a specialist therapist, functional diagnostics, cardiology. Author of 8 scientific publications and co-author of 1 teaching manual.
6	Batkhieva Madina Bekenovna	Assistant	Madin_m adina@m ail.ru- Соавтор @mail.ru	-	1 training manual. International APTIS certificate. Certificate of therapist
7	Tazhibayeva Azhar Bakytbekkyzy	Assistant	avril.tab @mail.r u- Сертифи кат	-	Certificate of a specialist general practitioner. Author of 29 scientific publications.
8	Amangeldieva Gulfairuz Seytimovna	Assistant	Amange ldievag7 1@mail. ru	-	GP certificate.

Department "Pediatrics-1"

1	Kemelbekov K. With	PhD	Kanat- 27018 4@mai l.ru	Pediatrics, Balalar surgionsy	Author of more than 80 scientific publications and 3 textbooks
2	Mustafina Kenzhegul Akhmetovna	K. A. PhD, Associate Professor	sayat. mka@ mail.r u	Pediatrics	Author scientific publications more than 70 and 3 textbooks
3	Baimakhanova B. B.	PhD, Associate Professor	Bakhti gul05 9@ma il.ru	Pediatrics	Author of scientific publications-5
4	Toleuova A. E.	Assistant	ai_ol_ ak.83 @mai l.ru	Pediatrics	Author of scientific publications more than 5 and 1 textbook
5	Baltabaeva B. S.	assistant	Boti.a sik@ mail.r u	Pediatrics	Author of scientific publications -6

6	Absadyk A.E-	assistant	Aidana .absadyk@mail.ru	Pediatrics	Author of scientific publications -7
7	Akhmetova G. Sh	assistant	ahmetovagauhar2306@mail.ru	Pediatrics	Author of scientific publications more than 5 and 1 textbook

8. Thematic plan

Week	Topic name	Summary	LO modules	Number of hours	Forms/ methods/ technologies of training	Forms/ methods of assessment
1	Pathological physiology. Practical lesson 1 Pathophysiology of digestion	Digestive insufficiency, causes and pathogenetic factors. Violations of food processing in the oral cavity and its passage through the esophagus. Digestive disorders in the stomach. HyRO - and hyperchlorhydria. Digestive disorders in the intestines. Malabsorption syndrome. Acceleration and deceleration of intestinal motility. Violation of the external secretion of the pancreas. Clinical significance	LO 3 LO 5	2	Work in small groups, discussion of the topic, case-study	Checklist
	Pathological physiology. SIWT / SIW 1 Peptic ulcer of the stomach and duodenum	Peptic ulcer of the stomach and duodenum, etiology, pathogenesis, manifestations, complications. Clinical significance	LO3 LO5	1/6	Case-study	Checklist
	Biochemistry. Lecture 1 Biochemistry of the digestive system in the pathology	Digestive disorders and their biochemical bases. Pathobiochemistry of the digestive system. Fermentopathies of the digestive system. Disorders of endocrine functions.	RO3 RO5	1	Review	Blitz survey Feedback
	Biochemistry. Practical lesson 1 Biochemistry of the digestive system in pathology	of lipid, protein and carbohydrate malabsorption. Pancreatic enzymes, markers of inflammatory diseases of the gastrointestinal tract. Biochemistry of the liver and biliary tract.	RO3 RO5	1	Seminar, situational tasks, testing	Checklist
2	Pathological anatomy. Lecture 1 Pathological anatomy of the gastrointestinal tract	Acute and chronic gastritis. Peptic ulcer of the stomach and duodenum. Appendicitis. Peritonitis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	1	Review lecture	Blitz survey Feedback

	<p>Pathological anatomy. Practical lesson 1 Pathological anatomy of the gastrointestinal tract</p>	<p>Acute and chronic gastritis. Peptic ulcer of the stomach and duodenum. Appendicitis. Peritonitis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance</p>	<p>LO3 LO5</p>	<p>1</p>	<p>Discussion of the topic, description of macro- and micro-preparations with conclusion, case-study</p>	<p>Checklist</p>
	<p>Pharmacology. Practical lesson 1 Agents used for inflammatory diseases of the gastrointestinal tract and dyspepsia</p>	<p>Agents affecting gastrointestinal motility, antispasmodics, laxatives and antidiarrheals. Antimicrobial agents used for eradication therapy. Antisecretory agents: proton pump inhibitors, H2-histamine blockers, M-holinoblockers. Antacids and antisecretory agents. Gastroprotectors. Synthetic analogues of prostaglandins. Features of use in children.</p>	<p>LO6</p>	<p>2</p>	<p>Work in small groups, discussion of the topic, case-study</p>	<p>Checklist</p>
	<p>Pharmacology of SIWT / SIW 1 Drugs used in intestinal and gastric dyspepsia syndrome. Drugs used in gastric and duodenal ulcer disease.</p>	<p>Drugs used in intestinal and gastric dyspepsia syndrome. Drugs used in gastric and duodenal ulcer disease. Indications and contraindications. Side effects. Features of use in children.</p>	<p>LO6</p>	<p>1/6</p>	<p>Discussion of the topic, defense of presentations, essays, analysis of scientific articles, glossary</p>	<p>Checklist</p>
<p>3</p>	<p>Propaedeutics of children's diseases. Lecture 1 Methods of research of sick children of different age groups with pathology of the digestive system.</p>	<p>General examination of sick children of different age groups with pathology of the digestive system. Objective research methods; examination of sick children with diseases of the gastrointestinal tract, diagnostic value of superficial and deep palpation of the abdomen, percussion of the liver and spleen, auscultation of the abdominal cavity. Examination of the skin, oral cavity and abdomen in the supine and standing positions. Deep palpation of the abdomen by the Obratsov method. Definitions of splash noise. Detection of a positive Mendel symptom.</p>	<p>LO1</p>	<p>1</p>	<p>Review lecture</p>	<p>Blitz survey Feedback</p>
	<p>Propaedeutics of children's diseases. Practical lesson 1</p>	<p>Complaints typical of diseases of the gastrointestinal tract in children of different age groups. Examination of the oral cavity. Examination of the abdominal assessment and clinical</p>	<p>RO2 RO3</p>	<p>3</p>	<p>Discussion of the</p>	<p>Checklist for an oral</p>

	Methods of research of sick children of different age groups with pathology of the digestive and hepatobiliary systems.	characteristics. Methods and techniques of conducting surface palpation of the abdomen in children by the Obraztsov-Strazhesko method. Methods and techniques of deep abdominal palpation in children by the Obraztsov-Strazhesko method. Methods and techniques for determining the lower border of the stomach. Method and technique of abdominal percussion to determine free fluid in the abdominal cavity. Method of questioning a sick child or parent with liver or spleen diseases. Methods and techniques of liver percussion according to Kurlov. Methods and techniques of palpation of the liver in children. Methods and techniques of percussion and palpation of the spleen in children of different age groups.			topic of the lesson, mastering practical skills.	survey and mastering practical skills.
	Propaedeutics of children's diseases. SIWT / SIW 1 Instrumental and laboratory methods for the study of patients with diseases of the digestive system in children of different age groups.	Laboratory determination of plasma bilirubin level, proteinograms, and enzyme content. Diagnostic significance of functional tests. Coprological research.	RO 4,5,6	1/5	Reception of practical skills.	Feedback to each student according to the "Sandwich" method, a checklist for evaluating practical skills.
4	Propaedeutics of internal diseases. Lecture 1 Inquiry, complaints, general examination and methods of laboratory and instrumental studies of patients with pathology of the digestive and hepatobiliary systems. Surface and deep palpation of the abdomen by Obraztsov method, percussion and palpation of the liver by Kurlov, auscultation of the abdominal organs:	Inquiry, complaints, general examination and methods of laboratory and instrumental studies of patients with pathology of the digestive and hepatobiliary systems. Surface and deep palpation of the abdomen by Obraztsov method, percussion and palpation of the liver by Kurlov, auscultation of the abdominal organs: determination of the lower border of the stomach. Diagnostic value	LO2	1	Overview lecture	Quick survey Feedback

	determination of the lower border of the stomach. Diagnostic value					
	Propaedeutics of internal diseases. Practical lesson 1 Complaints, inquiry, general examination and research methods of patients with pathology of the digestive and hepatobiliary systems. Diagnostic value	ocomplaints typical for diseases of the gastrointestinal tract. Examination of the oral cavity. General inspection and evaluation of the obtained data. Examination of the abdominal assessment and clinical characteristics. Methods and techniques of performing superficial and deep palpation of the abdomen by the Obraztsov-Strazhesko method. Methods and techniques for determining the lower border of the stomach. Method and technique of abdominal percussion to determine free fluid in the abdominal cavity. Method of questioning patients with liver disease. Methods and techniques of percussion and palpation of the liver according to Kurlov.	LO2 LO3 LO4	3	Discussion of the topic of practical training, solving situational problems, mastering and performing practical skills.	Checklist for an oral survey, assessment of practical skills.
	Propaedeutics of internal diseases. SIWT / SIW 1 Preparation and methods of conducting instrumental and laboratory methods in the study of patients with diseases of the digestive system and hepatobiliary system	Basic methods for conducting instrumental and laboratory methods in the study of patients with diseases of the digestive system and hepatobiliary system	LO2 LO3	1/6	Presentation defense	Checklist Presentation evaluation
5	Pathological physiology. Lecture 1 Pathophysiology of the liver	General etiology and pathogenesis of liver function disorders. Hepatic insufficiency, hepatic encephalopathy, hepatic coma, etiopathogenesis. Liver cirrhosis, etiopathogenesis, clinical and laboratory syndromes. The role of the liver in metabolic disorders. Jaundice, concept, types, etiopathogenesis. Clinical significance	LO1	1	Review lecture	Blitz survey Feedback
	Pathological physiology. Practical lesson 2 Pathophysiology of the liver	General etiology and pathogenesis of liver function disorders. Hepatic insufficiency, hepatic encephalopathy, hepatic coma, etiopathogenesis. Liver cirrhosis, etiopathogenesis, clinical and laboratory syndromes. The role of the liver in metabolic disorders. Jaundice, concept, types, etiopathogenesis. Clinical significance	LO3 LO5	2	Work in small groups, discussion of the topic, case-study	Checklist
	Pathological physiology. SIWT/SIW 2 Gallstone disease	Cholelithiasis, concept, etiology. Types of gallstones, pathogenesis of their formation. Clinical significance	LO3 LO5	1/3	Work in small groups, discussion of the topic,	Checklist

	Biochemistry. Practical lesson 2 Clinical significance of determination of digestive enzymes.	Clinical significance of determination of digestive enzymes. Gastric enzymes, markers of inflammatory diseases of the gastrointestinal tract	of RO3	1	case-study seminar, situational tasks, testing	Checklist
	Biochemistry. SIWT / SIW 1 Biochemistry of the liver in pathologies.	Bile-forming and excretory functions of the liver. Biochemistry of cholelithiasis. Disorders of liver function and metabolism in hepatitis, fatty infiltration and cirrhosis.	RO3 RO5	1/8	Essay, presentation, analysis of scientific articles, glossary	Checklist
6	Pathological anatomy. Lecture 2 Pathological anatomy of liver diseases	Hepatitis. Liver steatosis. Cirrhosis of the liver. Liver cancer. Pancreatitis. Pancreatic cancer. Cholecystitis is acute and chronic. Cholelithiasis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	1	Review lecture	Blitz survey Feedback
	Pathological anatomy. Practical lesson 2 Pathological anatomy of liver diseases	Hepatitis. Liver steatosis. Cirrhosis of the liver. Liver cancer. Pancreatitis. Pancreatic cancer. Cholecystitis is acute and chronic. Cholelithiasis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	3	Discussion of the topic, description of macro- and micro-preparations with a conclusion, case-study	Checklist
	Pathological anatomy. SIWT / SIW 1 Pathology of the gastrointestinal tract	Diseases of the esophagus and intestines. Diverticulosis of the esophagus and intestines. Esophagitis. Tumors of the esophagus. Enteritis. Colitis. Crohn's disease. Benign and malignant intestinal tumors. Malformations of the gastrointestinal tract. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/6	Case-study	Checklist
7	Propaedeutics of children's diseases. Practical lesson 2 Clinical syndromes of the digestive and hepatobiliary systems in children of different age groups.	Syndromes of gastric and intestinal dyspepsia. Acute abdominal syndrome, pain syndrome, gastroenterocolitic syndrome, lactase deficiency syndrome. Symptoms, causes, and diagnosis of the following syndromes: jaundice, ascites, portal hypertension and liver failure.	LO2 LO3	1	Discussion of the topic of the lesson, mastering practical skills	Checklist of an oral survey, mastering practical skills

	<p>Propaedeutics of children's diseases. SIWT/SIW 2 Malabsorption and irritable bowel syndrome in children.</p>	Malabsorption and irritable bowel syndrome in children. Clinical manifestations	LO 4,5,6	1/5	Reception of practical skills.	Feedback to each student according to the "Sandwich" method, a checklist for evaluating practical skills.
	<p>Pharmacology. Lecture 1 Means affecting the function of the digestive system.</p>	Drugs that affect the motility of the gastrointestinal tract, antispasmodics, laxatives and antidiarrheal agents. Antimicrobial agents used for eradication therapy. Antisecretory agents: proton pump inhibitors, H ₂ -histamine blockers, M-holinoblockers. Antacids and antisecretory agents. Gastroprotectors. Synthetic analogues of prostaglandins.	LO1	1	Review lecture	Blitz survey Feedback
	<p>Pharmacology. Practical lesson 2 Drugs used in liver diseases, in the syndrome of external secretory pancreatic insufficiency</p>	Means used in pancreatic excretory dysfunction. Means of substitution therapy used in pancreatic gland function insufficiency. Peculiarities of use in children.	LO6	2	Work in small groups, discussion of the topic, case-study	Checklist
8	<p>Propaedeutics of internal diseases. Lecture 2 Leading clinical syndromes (gastric and intestinal dyspepsia) in gastroenterology. Leading clinical syndromes (jaundice and liver failure) in hepatology. Diagnostic significance.</p>	Predisposing factors and causes leading to the development of gastric and intestinal dyspepsia syndrome; jaundice and liver failure syndrome. Clinical features	LO2	1	Overview lecture	Quick survey Feedback
	<p>Propaedeutics of internal diseases.</p>	Prediposing factors and causes leading to the development of gastric and intestinal	LO2 LO 3	3	Discussion of the topic	Checklist for an oral

	Practical lesson 2 Leading clinical syndromes (gastric and intestinal dyspepsia, jaundice and liver failure) in gastroenterology. Diagnostic value.	dyspepsia syndrome; jaundice and liver failure syndrome. Clinical features	LO 4		of practical training, solving situational problems, mastering and performing practical skills.	survey, assessment of practical skills.
	Propaedeutics of internal diseases. SIWT 2 <i>Midterm №1</i>	Topics of lectures, practical classes, and independent work completed during 1-8 days of training	LO 1 LO 2 LO 3 LO 4 LO 5 LO 6	1/5	Integrate-Integrated control of educational achievements using the following methods: control training cases, description	Quick survey
9	Pathological physiology. Lecture 2 General pathophysiology of the endocrine system	The main mechanisms of endocrine gland dysfunction. Violation of central regulatory mechanisms. Feedback mechanism. Pathological processes in the gland itself. Peripheral mechanisms of impaired hormone activity. Clinical significance	LO1	1	Review lecture	Blitz survey Feedback
	Pathological physiology. Practical lesson 3 General pathophysiology of the endocrine system	The main mechanisms of endocrine gland dysfunction. Violation of central regulatory mechanisms. Feedback mechanism. Pathological processes in the gland itself. Peripheral mechanisms of impaired hormone activity. Clinical significance	LO3 LO5	2	Work in small groups, discussion of the topic, case-study	Checklist
	Pathological physiology. SIWT/SIW 3 Autoimmune mechanisms of endocrine disorders	Mechanisms of autoimmunization of endocrine glands. Types of autoantibodies that damage endocrine gland cells. Variants of binding of autoantibodies to receptors. Clinical significance	LO3 LO5	2	Case-studyf	Checklist
	Pharmacology. SIWT/SIW 2 Hormonal agents. Glucocorticoids. Mineralocorticoids.	Classification of hormonal agents. Glucocorticoids. Glucocorticoids for systemic and local use. Drugs used in Icenko-Cushing's disease. Mineralocorticoids. Mechanism of action. Indications and contraindications.	LO6	1/5	Discussion of the topic, defense of presentations, essays, analysis of scientific articles, glossary	Check-list

	Biochemistry. Practical lesson 3 Biochemistry of the endocrine system in pathology.	Pituitary and hypOthalamic hormones. HyRO-and hyperfunction, basic principles of diagnosis . Endocrine function of the pancreas: disorders and diagnosis.	RO3 RO5	1	Seminar, situational tasks, testing	Checklist
10	Pathological anatomy. Practical lesson 3 Pathological anatomy of the endocrine system	Pathology of the thyroid gland. Colloidal goiter. Parenchymal goiter. Diffuse toxic goiter. Mixidema. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1	Discussion of the topic, description of macro - and micro-parameters with a conclusion , case-study	Chec klist
	Pathological anatomy. SIWT/SIW2 Pathological anatomy of the gastrointestinal tract	Malformations of the gastrointestinal tract and hepatobiliary system, types, pathological anatomy. ROrtal hypertension syndrome.Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/3	Case-study	Checklist
	Pharmacology. Lecture 2 Hormonal and antihormonal drugs.	Medications used for hypothyroidism in adults. Drugs used for hyperthyroidism, their effect on metabolism. Antithyroid drugs, beta-blockers, and corticosteroids. Indications and contraindications. Side effects. Medications used for hyperglycemia and hypoglycemia. Medications used for hypoglycemia syndrome.Mechanism of action, indications. Side effects.	LO1	1	Overview lecture	Checklist
	Pharmacology. Practical lesson 3 Thyroid hormones and antithyroid agents. Parathyroid preparations	Drugs used in hypothyroidism in adults. Drugs used in hyperthyroidism, their effect on metabolism. Antithyroid drugs, glucocorticosteroids. Indications and contraindications. Side effects.	LO6	2	Work in small groups, discussion of the topic, case-study	Check-list
	Pharmacology. SIWT/SIW 3 Sex hormone drugs.	Ovarian hormone preparations. Hormones of the male sex glands and antiandrogenic substances. Mechanism of action, indications. Side effects. Peculiarities of use in childhood.	LO6	1/3	Discussion of the topic, defense of presentations, essays, analysis of scientific articles, glossary	Check-list
11	Propaedeutics of children	Survey of sick children of various ages with endocrine system pathology. Data of	of LO 1	1	Review lecture	Blitz survey

	's diseases. Lecture 2 Methods of research of sick children of different age groups with endocrine system pathology.	physical methods of studying the endocrine system in children. General examination: examination of the face, eyelids, skin; palpation of the thyroid gland and pancreas				Feedback
	Propaedeutics of children 's diseases. Practical lesson 3 Methods of research of sick children of different age groups with endocrine system pathology. Leading clinical syndromes (hypo - hyperthyroidism) in endocrinology.	Survey of sick children of various ages with endocrine system pathology. Data of physical methods of studying the endocrine system in children. General examination: examination of the face, eyelids, skin; palpation of the thyroid gland and pancreas, hypo- and hyperthyroidism syndrome.	RO2 RO3	3	Discussion of the topic of the lesson, mastering practical skills.	Checklist of an oral survey, mastering practical skills
	Propaedeutics of children 's diseases. SIWT/SIW 3 Sex glands: sex formation and maturation. Endocrine forms of obesity	Sex glands: sex formation and maturation. Classification. Estimates of puberty. Problems of obesity among children Definition. Classification, risk factors in children.	O 4,5,6	1/4	Reception of practical skills.	Feedback to each student according to the "Sandwich" method, a checklist for evaluating practical skills.
12	Propaedeutics of internal diseases. Lecture 3 Methods of research of patients with endocrine system pathology. Diagnostic value. Leading clinical syndromes (hypo-hyperthyroidism, hypo-hyperglycemia) in endocrinology.	Survey of patients with endocrine system pathology. Data of physical methods of endocrine system research. General examination: examination of the face, eyelids, skin; palpation of the thyroid and pancreas: methods and techniques. Predisposing factors and causes leading to the development of hypo – and hyperthyroidism syndrome; hypo – and hyperglycemia syndrome	LO2	1	Overview lecture	Quick survey Feedback
	Propaedeutics of internal diseases. Practical lesson 3 Methods of research of patients with endocrine	Inquiry, complaints and general examination of patients with endocrine system pathology. Features of the anamnesis of the disease and the patient's life.	LO2 LO3 LO4	2	Discussion of the topic of practical training, solving	Checklist for an oral survey, assessment

	system pathology. Palpation of the thyroid and pancreas. Diagnostic value	Pathological symptoms detected in patients with endocrine system disorders. Diagnostic value Palpation of the thyroid and pancreas (determination of the Shoffar zone, Hubergritz-Skulsky, pain point: Desjardins, Hubergritz, Mayo-Robson)			situational problems, mastering and performing practical skills.	of practical skills.
	Propaedeutics of internal diseases. SIWT / SIW 3 Laboratory and instrumental methods of investigation in patients with diseases of the endocrine system. Endocrine forms of obesity, classification, risk factors.	Laboratory and instrumental methods of examination in patients with diseases of the endocrine system (determination of thyroid hormones: TSH, T3 T4, Anti-TRO; determination of pancreatic hormones)	LO2 LO3	1 / 6	Presentati on defence	Checklist for evaluatin g presentati on
	Biochemistry. Practical lesson 4 Biochemistry of thyroid hormones.	Thyroid hormones : Hypo- and hyperfunctions diagnosis . Disorders of the regulatory function of hormones and the functions of the endocrine glands.	LO3 LO5	1	seminar, situationa l tasks, testing	Checklist
13	Pathological Physiology. Practical lesson 4 Pathophysiology of individual endocrine glands.	Hypo-and hyperfunction of the pituitary gland, adrenal glands, thyroid and parathyroid glands, etiopathogenesis, manifestations. Itsenko-Cushing's disease and syndrome. Addison's disease. Conn's syndrome. Hypo - and hyperthyroidism. Hypo - and hyperparathyroidism. Disorders of the intracretory function of the pancreas. Diabetes mellitus, types, etiopathogenesis, manifestations, complications. Clinical significance	LO3 LO5	2	Work in small groups, discussion of the topic, case-study	Checklist
	Pathological physiology. SIWT / SIW 3 Endemic goiter	Endemic goiter, concept, etiology, pathogenesis, manifestations. Clinical significance	LO3 LO5	1/5	Case-study	Checklist
	Propaedeutics of internal diseases. Practical lesson 4 Leading clinical syndromes (hypo-, hyperglycemia, hypo- and hyperparathyroidism) in endocrinology. Diagnostic value	Syndromes of hypo -, hyperglycemia, syndromes of hypo- and hyperparathyroidism in childhood, clinical features. Laboratory and instrumental research methods, interpretation of results.	LO2 LO3 LO4	2	Discussion of the topic of practical training, solving situational problems, mastering and performin g practical skills	Checklist of an oral survey, assessment of practical skills
14	Pathological anatomy. Practical lesson 4 Pathological anatomy of	Diabetes mellitus. Etiology.	LO3 LO5	3	Discussion of the topic,	Checklist

	the endocrine system. Diseases of the pancreas	Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance			description of macro- and micro-parameters with a conclusion, case-study	
	Pathological anatomy. SIWT / SIW 3 Pathological anatomy of the endocrine system. Pathology of the thyroid gland	Goiter of Ho Chi Minh City. Riddel's goiter. Thyroid cancer. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/5	Case-study	Checklist
14	Propaedeutics of children's diseases. Practical lesson 4 Diagnostics of the main syndromes of the endocrine system in children	Clinical manifestation of the following syndromes: hypo-hyperglycemia; Symptoms, causes of hypoglycemic and hyperglycemic coma syndromes. Adrenogenital syndrome. Syndromes of hypo- and hyperparathyroidism in childhood	RO2 RO3	1	Discussion of the topic of the lesson, mastering practical skills.	Checklist of an oral survey, mastering practical skills
	of Propaedeutics of children's diseases. SIWT / SIW 4 Sex glands: sex formation and maturation.	Sex glands: sex formation and maturation. Classification. Grades puberty	RO 4,5,6	1/3	Reception of practical skills.	Feedback to each student according to the "Sandwich" method, a checklist for evaluating practical skills.

15	Pharmacology. Practical lesson 4 Medications used for hyperglycemia I and hypoglycemia	Medications used for hyperglycemia and hypoglycemia. Medications used for hyperglycemia syndrome. Mechanism of action, indications. Side effects.	LO1 LO6	2	Work in small groups, discussion of the topic, case-study	Checklist
	Propaedeutics of internal diseases. Practical lesson 5 Leading clinical syndromes (hypo - hyperglycemia,) in endocrinology. Diagnostic value.	The leading clinical syndromes (hypo - hyperglycemia) in endocrinology. Diagnostic value.	LO2 LO3 LO4	2	Discussion of the topic of practical training, solving situational problems, mastering and performing practical skills.	Checklist for an oral survey, assessment of practical skills.
	Propaedeutics of internal diseases. SIWT 4 <i>Midterm control №2</i>	Topics of lectures, practical classes, independent work completed during 9-16days of training	LO 1 LO 2 LO 3 LO 4 LO 5 LO 6	2/4	Integrated-Integrated control of educational achievements using control training cases, testing	Checklist
8.1	Intermediate certification					18 hours
9.	Teaching methods					
9.1	Lectures	Overview lectures				
9.2	Practical exercises	Work in small groups, discussion of the topic, case-study, description of macro-and micro-preparations with a conclusion. Discussion of the topic of practical training, solving situational problems, mastering and performing practical skills.				
9.3	SIWT / SIW	Case-study, analysis of scientific articles, project implementation, essays. Protect your presentation and practical skills.				
9.4	Midterm	Integrated control of academic achievements c using control training cases, testing				
10.	Evaluation criteria					

10.1 Criteria for evaluating the results of the discipline					
No.	Name of the training results	Unsatisfactory	Satisfactory	Good	Excellent
LO 1	Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of digestive and endocrine system pathologies	1. Does not know the basics of semiotics and syndromology, does not identify symptoms and syndromes. 2. Cannot explain the etiology, pathogenesis and morphogenesis of pathological changes in the digestive and endocrine systems	1. Does not know the basics of semiotics and syndromology, makes gross mistakes in determining symptoms and syndromes in the pathology of the digestive and endocrine systems. 2. Makes mistakes when explaining the etiology, pathogenesis and morphogenesis of pathological changes in the digestive and endocrine systems	1. He knows the basics of semiotics and syndromology, identifies symptoms and syndromes. 2. Explains the etiology, pathogenesis, and morphogenesis of pathological changes in the digestive and endocrine systems, but admits minor inaccuracies	1. He is fluent in the basics of semiotics and syndromology, and independently identifies symptoms and syndromes. 2. Freedombut explains the etiology, pathogenesis and morphogenesis of pathological changes in the digestive and endocrine systems
LO2	Knows the methods of questioning, physical examination of adults and children, uses clinical thinking in collecting information when drawing up a survey plan; outlines the scope of basic and additional studies to clarify the lesion syndrome in the pathology of the digestive and endocrine systems	1. Does not know the basic physiological processes in the gastrointestinal tract and hepatobiliary system, does not understand the regulation of digestive activity. 2. Unable to explain the mechanisms	of the digestive process1.Makes mistakes when describing the main physiological processes in the gastrointestinal tract and hepatobiliary system, explaining the regulation of digestion. 2. Able to explain the mechanisms of the digestive process with errors	1.Describes the main physiological processes in the gastrointestinal tract and hepatobiliary system, understands the regulation of digestive activity. 2. Able to fully explain the mechanisms of the digestive process	of the digestive process1.Demonstrates the basic physiological processes of the gastrointestinal tract and hepatobiliary system, deeply understands the regulation of the digestive process. 2. Able to sketch the mechanisms of the digestive process.
LO 3	Uses clinical thinking to collect information when interpreting the results of morphological, laboratory and instrumental methods of studying patients with pathology of the digestive and endocrine systems, formulates a syndromic diagnosis, fills in the medical history	1.Does not know the main metabolic pathways that affect the function of the gastrointestinal tract and the hepatobiliary system. 2.Does not understand the biochemical processes associated with the digestive and hepatobiliary systems.	1.Does not fully know the main metabolic pathways that affect the function of the gastrointestinal tract and the hepatobiliary system. 2.Poorly understands the biochemical processes associated with digestion	1.Explains the main metabolic pathways that affect the function of the gastrointestinal tract and the hepatobiliary system. 2.Has a good understanding and understanding of the biochemical processes involved in digestion	1.Has the skills of clinical thinking, applies knowledge in collecting information when interpreting the results of morphological, laboratory and instrumental methods of studying patients with pathology of the gastrointestinal tract and hepatobiliary system, 2.formulates a syndromic

					diagnosis, fills in the medical history. 3. Effectively solves situational problems
LO 4	Communicates information, ideas, problems and solutions to patients and their family members, knows the norms of ethics and deontology in communicating with patients, their relatives and colleagues	Does not know how to apply knowledge about the gastrointestinal tract and hepatobiliary tract.patients with diseases of the gastrointestinal tract and hepatobiliary system for first aid, unable to interpret the results of laboratory and instrumental studies	Not fully able to apply knowledge about the gastrointestinal tract and hepatobiliary system in a clinical context, collection of complaints of the clinical history and physical examination of patients with diseases of the gastrointestinal tract and hepatobiliary system in a clinical context, collection of complaints of the clinical history and physical examination of patients with diseases of the GIT and hepatobiliary system for first aid performs with errors, is poorly oriented in interpreting the results of laboratory and instrumental studies	Lists information about the GIT and hepatobiliary system in a clinical context, collects complaints from the clinical history and physical examination of patients with diseases of the gastrointestinal tract and hepatobiliary system with first aid, is well-versed in interpretation results of laboratory and instrumental studies	Fluently demonstrates knowledge about the gastrointestinal tract and the hepatobiliary system in a clinical context, collects complaints from clinical anamnesis and physical examination of patients with diseases of the gastrointestinal tract and the hepatobiliary system with first aid, is well-versed in interpreting the results of laboratory and instrumental studies
LO 5	Determines pathological processes at the organ and cellular levels. interprets data on the pathophysiology and morphology of diseases, taking into account the clinical data of patients, makes conclusions, explains the patterns of complications and outcomes of pathology of the digestive and endocrine systems, evaluates the results of experimental	studies1. It is not able to detect pathological processes at the organ and cellular levels, and makes gross mistakes. 2. Cannot interpret data on the etiology, pathophysiology, and morphology of diseases based on the clinical data of patients. 3. Makes erroneous conclusions, is poorly oriented and does not explain the patterns of development of complications and outcomes of pathology of the	1. It detects pathological processes at the organ and cellular levels, but makes gross mistakes. 2. Cannot independently interpret data on the etiology, pathophysiology, and morphology of diseases based on the clinical data of patients. 3. Makes erroneous conclusions, finds it difficult to independently explain the patterns of development of complications and outcomes of pathology	1. Determines pathological processes at the organ and cellular levels. 2. Interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 3. Draws conclusions, explains the regularities of complications and outcomes of pathology of the digestive and endocrine systems. 4. Evaluates the	1. Independently determines pathological processes at the organ and cellular levels. 2. Independently interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 3. Makes conclusions, explains the patterns of development of complications and outcomes of pathology of the



		digestive and endocrine systems. 4. Unable to evaluate the results of experimental studies, makes fundamental mistakes. 5. Unable to solve situational problems	of the digestive and endocrine systems. 4. It is difficult to evaluate the results of experimental studies, admits fundamental inaccuracies. 5. Solves situational problems, but makes fundamental mistakes	results of experimental studies, but admits minor inaccuracies. 5. Solves situational problems	digestive and endocrine systems. 4. Evaluates the results of experimental studies. 5. Effectively solves situational problems
LO 6	Selects medicines in accordance with the diagnosis, prescribes prescriptions, determines the dosage regimen, recognizes undesirable effects of medicines, predicts the development of side effects and interactions of medicines used in the pathology of the digestive and endocrine systems	1. Defines the general pharmacological group of medicinal products. 2. writes out a prescription with mistakes	1. Selects the pharmacological group of medicinal products by organs and systems. 2. Prescribes a prescription using reference literature / sources	1. Selects medicines for the treatment and prevention of the most common diseases. 2. Writes out a prescription for the specified drug without errors. 3. Calculates the dose of drug	1. Selects medicines from various pharmacological groups according to indications for use, contraindications and side effects 2. Prescribes medicines in the most appropriate dosage form, depending on age, gender, and functional characteristics. 3. Calculates doses by various methods and determines the frequency and duration of use of the drug


10.2 Assessment criteria for teaching methods and technologies

Multi-point knowledge assessment system

Letter system	score Digital equivalent of points	Percentage content	Traditional system score
A	4.0	95-100	Excellent
A -3.67	3,67	90-94	
B +	3.33	85-89	Good
B	3.0	80-84	
B -2.67	2,67	75-79	
S +	2.33	70-74	Satisfactory
S	2.0	65-69	
C -1.67	1,67	60-64	
D+	1.33	55-59	
D-	1.0	50-54	Unsatisfactory
FX	0.5	25-49	
F	0	0-24	

Checklist of situational tasks

#	Evaluation criteria	Scores
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ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA АКАДЕМИАСЫ «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казакстанская медицинская академия»	044- /11 p.23 из 36
Department of "Propaedeutics of Internal Diseases", "Department of Pathology and Forensic Medicine", "Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology", "Pediatrics-1", Department of Biology and Biochemistry"		
Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

1	Shows original thinking when analyzing a situational problem. Makes full use of the theoretical knowledge required to solve this problem. Shows excellent knowledge of reference biochemical parameters when interpreting the proposed data of bioliquid analyses. Demonstrates the ability to draw logical conclusions on a situational problem, while showing a deep understanding of the necessary educational material.	"Excellent" 90-100%
2	Has the necessary knowledge to solve this situational problem. Allows unprincipled inaccuracies in the discussion of this case. Able to draw correct conclusions on the proposed situational problem.	"Good" 70-89%
3	Admits unprincipled inaccuracies in the discussion of this problem, and it is difficult to interpret the analyses proposed in the situational problem. Draws conclusions with difficulty.	"Satisfactory" 50-69%
4	Makes fundamental mistakes in the discussion of the situational problem. Passive, unable to draw appropriate conclusions.	"Unsatisfactory" 0-49%

Checklist of practical training

№	Assessment criteria	Level			
		Excellent	Good	Satisfactory	Unsatisfactory
Practical training:					
1	Written answer to the questions of this task	30	21	15	0
2	Oral answer to the questions of this task	30	21	15	0
3	Completing test tasks	12	8	6	0
4	Solving situational problems	28	20	14	0
	Total:	100	70	50	0

Checklist of SIW and SIWT


SR OP No.	Evaluation criteria	Level			
		Excellent	Good	Satisfactory	Unsatisfactory
SIW and SIWT:					
1	Defending a presentation	50	35	25	0
2	Performing practical skills	50	35	25	0
	Overall:	100	70	50	0

Checklist for assessment classes

Form of control	Evaluation	Assessment Evaluation criteria
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Work in small groups (practical work)	Perfectly matches the scores 95-100 90-94	- completed the practical work in a timely manner and without any errors and passed the report on it; - took an active part in the discussion of the research results; - made a reasonable conclusion, showed original thinking
	Well matches the scores 85-89 80-84 75-79 70-74	- completed practical work in a timely manner and submitted a report on it, making unprincipled mistakes; - took an active part in the discussion of the research results
	Satisfactorily matches the scores 65-69 60-64 50-54	- completed practical work in a timely manner and passed the report on it, making fundamental mistakes; - did not show any activity during the discussion, needed the teacher's help
	Unsatisfactorily matches the scores of 25-49	- did not pass the report on practical work in time, made gross mistakes, did not complete all the practical work provided for in the program;
	Unsatisfactorily matches the scores 0-24	- did not participate in the discussion of the results of the work
Case-study	Perfectly matches the scores 95-100 90-94	-solved the cases in a certain time; - gave complete answers to all questions
	Well matches the scores 85-89 80-84 75-79 70-74	- solved cases in a certain amount of time. - gave full answers to all your questions. - made unprincipled mistakes when solving cases
	, Satisfactorily matches the scores 65-69 60-64 50-54	-solved cases in a certain amount of time; - gave incomplete answers to questions. - made fundamental mistakes when solving cases
	Unsatisfactorily corresponds to points 25-49	- incorrectly solved cases or did not solve them at all; - made gross mistakes when solving cases
	Unsatisfactorily matches the scores 0-24	
Work in small groups (interpretation of the results of clinical and laboratory studies)	Perfectly matches the scores 95-100 90-94	- correctly interpreted the results of clinical and laboratory tests without any errors. - made a reasonable conclusion
	Well matches the scores 85-89 80-84 75-79 70-74	- correctly interpreted the results of clinical and laboratory studies, making unprincipled mistakes; - made a reasonable conclusion

	<p>that satisfactorily matches the scores 65-69 60-64 50-54</p>	<p>- correctly interpreted the results of clinical and laboratory studies, making fundamental mistakes; -made an unsubstantiated conclusion</p>
	<p>that Unsatisfactorily matches the scores 25-49</p>	<p>- incorrectly interpreted the results of clinical and laboratory studies.- laboratory tests, making gross mistakes; - did not make a conclusion</p>
	<p>Unsatisfactorily matches the scores 0-24</p>	
Discussion of the topic	<p>Perfectly matches the scores 95-100 90-94</p>	<p>- did not make any mistakes during the discussion; - was well versed in the theories, concepts and directions of the discipline and gave them a critical assessment; - used the scientific achievements of other disciplines</p>
	<p>Well matches the scores 85-89 80-84 75-79 70-74</p>	<p>- during the discussion, he did not make any gross mistakes, but made inaccuracies and unprincipled errors corrected by himself; - managed to organize the program material with the help of the teacher</p>
	<p>Satisfactorily matches the scores 65-69 60-64 50-54</p>	<p>- made fundamental mistakes during the discussion; - limited himself only to the educational literature specified by the teacher; - experienced great difficulties in organizing the material</p>
	<p>Unsatisfactorily matches the scores 25-49</p>	<p>- made gross mistakes during the discussion; - did not study the main literature on the topic of the lesson; - failed to use the scientific terminology of the discipline</p>
	<p>Unsatisfactorily matches the scores 0-24</p>	
	Testing	<p>Perfectly matches the scores 95-100 90-94</p>
<p>Well matches the scores 85-89 80-84 75-79 70-74</p>		<p>- completed correctly 70-89% of test tasks</p>
<p>Satisfactorily matches the scores 65-69 60-64 50-54</p>		<p>- completed correctly 50-69% of test tasks</p>
<p>Unsatisfactorily matches the scores 25-49</p>		<p>- completed correctly less than 50% of test tasks</p>

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Department of "Propaedeutics of Internal Diseases", "Department of Pathology and Forensic Medicine", "Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology", "Pediatrics-1", Department of Biology and Biochemistry"		
Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

	Unsatisfactorily matches the scores 0-24	
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Checklist for evaluating responses based on the description of macro preparations

no.	Rating criteria / rating	Excellent	Good	Satisfactory	Unsatisfactory
1	Organ name	4	3	2	0
2	Organ size	10	7	5	0
3	Surface: condition of the capsule or serous membrane, dullness, gloss, overlap	1	1	1	0
4	Characteristics of the pathological focus: Localization, size, shape (if the ulcer is a fundus condition), color, consistency	5	4	2	0
5	Pathoanatomical diagnosis / conclusion				
6	Total	20	15	10	0

Checklist for evaluating responses according to the description of micro-preparations

no	Evaluation criteria / rating	Excellent	Good	Satisfactory	Unsatisfactory
1	Name of the organ or tissue	4	3	2	0
2	Characteristics of pathological changes: localization, description	10	7	5	0
3	Color	1	1	1	0
4	Pathoanatomical diagnosis / conclusion	5	4	2	0
5	Total	20	15	10	0

Checklist for evaluating analysis of scientific articles


Rating in points by %	Unsatisfactory (0- 49%)	Satisfactory (65- 54%)	Good (70-89%)	Excellent (90-100%)
Evaluation criteria				
Article structure	1. Does not name the structural components of the scientific article	1. Doesn't follow the order of the scientific article structure when listing, skips components	1. Lists the structural components of a scientific article, but violates the order of structure	1. Observes the order of structure of the scientific article when listing: - Title - Authors - Publisher - Summary - General part (introduction, purpose, materials and methods, results and discussion) - Conclusions - List of references

Analysis of the content of the scientific article	1. Does not understand the urgency of the problem, is not able to discuss the content of article	1. Understands the urgency of the problem 2. Lists the purpose of the work, materials used in the work, and methods 3. Understands the content of a scientific article 4. Lists the conclusions, references in this article	1. Assumes the relevance of problem 2. Explains the purpose of the work, the materials and methods used in the work 3. Substantiates the conclusions 4. Justifies the selected list of references in this article	1. Independently substantiates and argues the relevance of problem 2. Explains the purpose of the work, the materials and methods used in the work 3. Freely expounds the semantic content of the scientific article 4. Argues and justifies the conclusions 5. Has the skill of using literature and justifies the selected list of references in this article
The answer to additional questions (on the topic of the article for the discipline)	1. Does not answer additional questions on topic	1. Does not understand the problem when answering additional questions	. Applies the knowledge gained in the practical lesson on the topic when answering additional questions	1. Applies the knowledge gained in the practical lesson on the topic when answering additional questions, gives a deep and exhaustive argumentation

Checklist for evaluating the practical skills of "Propaedeutics of internal diseases"

Form of control	Evaluation	Evaluation criteria
Performing practical skills	Perfectly corresponds to grades A(4.0; 95-100%); A-(3.67; 90-94%)	-The student is well-versed in questioning and examining patients. Correctly and accurately selects questions when collecting anamnesis, accurately analyzes the main and secondary complaints, perfectly navigates the collected anamnesis of life and disease. - Accurately conduct a physical examination: --general examination (examination of the skin and subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); -palpation (determination of resistance, soreness, vocal tremor, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, soreness zones, rigidity), -Percussion (determination of the comparative, topographic boundaries of the lungs, area, excursion; determination of the absolute and relative boundaries of the heart, configuration, diameter and vascular bundle; determination of the boundaries of the liver, spleen and stomach, tingling symptom); -auscultation (listening to vesicular and bronchial breathing, wheezing, crepitation, pleural friction noise in the lungs; listening to normal and pathological tones and heart murmurs, diastolic and systolic noise). -Substantiates and makes a presumptive syndromic diagnosis. - I used additional literature in preparation for the lesson. Systematizes the material on this topic. Effectively communicates in medical practice, objectively conveys appropriate information, owns and uses

	<p>It corresponds well to the points B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)</p>	<p>the norms of ethics and deontology when performing the skill;</p> <ul style="list-style-type: none"> -The student is well-versed in questioning and examining patients. He correctly selects questions when collecting anamnesis, accurately analyzes the main and secondary complaints, perfectly navigates the collected anamnesis of life and disease. -It is good to conduct a physical examination: <ul style="list-style-type: none"> -general examination (examination of the skin and subcutaneous fat patch, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure) -Palpation (determination of resistance, soreness, vocal tremor, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, soreness zones, rigidity), -Percussion (determination of the comparative, topographic boundaries of the lungs, area, excursion; determination of the absolute and relative boundaries of the heart, configuration, diameter and vascular bundle; determination of the boundaries of the liver, spleen and stomach, tingling symptom); -auscultation (listening to vesicular and bronchial breathing, wheezing, crepitation, pleural friction noise in the lungs; listening to normal and pathological tones and heart murmurs, diastolic and systolic noise). - Makes a presumptive post-syndrome diagnosis without substantiating the data.
	<p>Satisfactorily corresponds to the points C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)</p>	<ul style="list-style-type: none"> - The student is guided by the questioning and examination of patients, analyzes the main and minor complaints with errors, is poorly oriented in the collected anamnesis of life and disease. - There are errors when conducting a physical examination: <ul style="list-style-type: none"> -general examination (examination of the skin and subcutaneous fat patch, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure. -palpation (determination of resistance, soreness, vocal tremor, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, soreness zones, rigidity), -Percussion (determination of the comparative, topographic boundaries of the lungs, area, excursion; determination of the absolute and relative boundaries of the heart, configuration, diameter and vascular bundle; determination of the boundaries of the liver, spleen and stomach, tingling symptom); -auscultation (listening to vesicular and bronchial breathing, wheezing, crepitation, pleural friction noise in the lungs; listening to normal and pathological tones and heart murmurs, diastolic and systolic noise). - Is not able to compare the relationship between the main symptoms and syndromes. Makes a presumptive post-syndrome diagnosis without substantiating the data - Low level of communication in medical practice; subjectively conveys appropriate information;


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	Unsatisfactorily corresponds to FX scores (0.5; 25-49%)	<p>- The student has no idea about the main and secondary complaints, does not navigate the collected anamnesis of life and disease.</p> <p>-Is not able to carry out practical skills to interpret their results. He does not see the connection between the data of the objective physical examination:</p> <ul style="list-style-type: none"> -general examination (examination of the skin and subcutaneous fat patch, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure. -palpation (determination of resistance, soreness, vocal tremor, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, soreness zones, rigidity), -Percussion (determination of the comparative, topographic boundaries of the lungs, area, excursion; determination of the absolute and relative boundaries of the heart, configuration, diameter and vascular bundle; determination of the boundaries of the liver, spleen and stomach, tingling symptom); -auscultation (listening to vesicular and bronchial breathing, wheezing, crepitation, pleural friction noise in the lungs; listening to normal and pathological tones and heart murmurs, diastolic and systolic noise).
	Unsatisfactorily corresponds to F scores (0; 0-24%)	<p>It does not find and is not able to compare the relationship between the main symptoms and syndromes. He makes a presumptive syndromic diagnosis without substantiating the data</p> <p>- He did not participate in the work of the group. He is unable to communicate in medical practice; does not convey proper information, does not possess and is not able to use the norms of ethics and deontology when performing the skill. When answering the teacher's questions, gross mistakes are made, without using specific terminology in the answers.</p>

Checklist for evaluating written tasks at the midterm (PID/PCD)


Form of control	Evaluation	Assessment Evaluation criteria
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Solving situational problems	with "Excellent" tickets 90-100%	The student accurately <u>analyzes</u> the main and secondary complaints, perfectly <u>navigates</u> the collected anamnesis of life and illness. <u>Связует</u> Connects the data of objective physical examination (palpation, auscultation, percussion), correctly <u>interprets</u> the data of laboratory and instrumental studies. Able to <u>assess</u> pathophysiological patterns of research results. <u>Finds and compares</u> the relationship between the main symptoms and syndromes. <u>Justifies and puts</u> a presumptive post-syndromic diagnosis.
		The student accurately answered the question on the problem based on understanding, knowledge and clinical thinking about the given clinical situation.
		Accurately performs basic physical research on this problem using the algorithm (practical skill #1)
		Accurately performs basic physical research on this problem using the algorithm (practical skill #2)
	"Good" 70-89%	The student perfectly <u>understands</u> the main and secondary complaints, is well- <u>versed</u> in the collected anamnesis of life and illness. Connects data from an objective physical examination (palpation, auscultation, percussion), <u>and interprets</u> data from laboratory and instrumental studies with errors. There are errors in <u>assessing</u> the pathophysiological patterns of the study results. <u>Finds and compares</u> the relationship between the main symptoms and syndromes. <u>Makes</u> an assumed post-syndrome diagnosis without substantiating the data
		The student answered the question on the problem not in full volume for this clinical situation
		Conduct basic physical studies on this problem with gaps according to the algorithm (practical skill #1)
		Perform basic physical research on this problem with gaps in the algorithm (practical skill #2)
	"Satisfactory" 50-69%	of students <u>analyze</u> the main and secondary complaints with errors, poorly <u>oriented</u> in the collected anamnesis of life and disease. <u>Connects them</u> Connects the data of objective physical examination (palpation, auscultation, percussion), correctly <u>interprets</u> the data of laboratory and instrumental studies. Unable to <u>assess</u> the pathophysiological patterns of the study results. <u>It is not able to compare</u> the relationship between the main symptoms and syndromes. <u>Makes</u> an assumed post-syndrome diagnosis without substantiating the data
		The student answered the question on the problem without understanding, knowledge and clinical thinking on this clinical situation


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		Conducts basic physical studies on this problem with fundamental errors (practical skill #1)
		Conducts basic physical research on this problem with fundamental errors (practical skill #2)
	"Unsatisfactory" 0-49%	The student has no idea about the main and secondary complaints, is not <u>guided</u> in the collected anamnesis of life and illness. <u>Doesn't see the connection</u> between the data of an objective physical examination (palpation, auscultation, percussion), and doesn't <u>interpret it correctly</u> data from laboratory and instrumental studies. Does not know how to <u>evaluate</u> pathophysiological regularities of the results of the study. <u>Does not find and is not able to compare</u> the relationship between the main symptoms and syndromes. <u>Puts</u> an assumed post-syndrome diagnosis without substantiating the data The student gave an incorrect answer to the question on the problem The skill shown on this problem does not correspond to the algorithm (practical skill #1) The skill shown for this task doesn't match the algorithm (practical skill #2)

11. Learning resources	
Electronic resources	-Электронная библиотека ЮКМА - https://e-lib.skma.edu.kz/genres -Республиканская межвузовская электронная библиотека (РМЭБ) – http://rmebrk.kz/ -Цифровая библиотека «Акнурпресс» - https://www.aknurpress.kz/ -Электронная библиотека «Эпиграф» - http://www.elib.kz/ -Эпиграф - портал мультимедийных учебников https://mbook.kz/ru/index/ -ЭБС IPR SMART https://www.iprbookshop.ru/auth -информационно-правовая система «Заң» - https://zan.kz/ru -Cochrane Library - https://www.cochranelibrary.com/
Electronic textbooks	Electronic resources (PVB) Ivashkin, V. T. Internal diseases propedeutics [Электронный ресурс] : textbook / V. T. Ivashkin, A. V. Okhiobystin. - Электрон. текстовые дан. (142Мб). - М. : ГЭОТАР - Медиа, 2017. - эл. опт. диск (CD-ROM). Внутренние болезни. Т. 2 [Электронный ресурс] : учебник / под ред. В. С. Моисеева. - 3-е изд., испр. и доп. - Электрон. текстовые дан. (45.1Мб). - М. : ГЭОТАР - Медиа, 2015. - 895 с. Внутренние болезни. Т. 1 [Электронный ресурс] : учебник / под ред. В. С. Моисеева. - 3-е изд., испр. и доп. - Электрон. текстовые дан. (66.5Мб). - М. : ГЭОТАР - Медиа, 2015. - 960 с. Ішкі аурулар./Бимурзаев Ф.Н., Зарипова Г.К. , 2020/ https://aknurpress.kz/reader/web/2594 Ішкі аурулар пәнінен клиникалық тапсырмалар жинағы. Ержанова Г.А., Муханова А.К. , 2016/ https://aknurpress.kz/reader/web/2370 Шкі аурулар пропедевтикасынан жағдаяттық тапсырмалар Оразова Б.О., Марченко Т.В. , 2016 / https://aknurpress.kz/reader/web/2348 Пропедевтика внутренних болезней : Учебник. / Т.С. Рябова, Е.С. Рысс, В.Я. Плоткин и др.. - СПб.: СпецЛит, 2015. - 414 с. http://rmebrk.kz/

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	<p>Внутренние болезни в работе врача общей практики : Учебное пособие. / К.Ж. Садыкова, Ш.У. Скендерова, С.К. Саттиева. - Туркестан: Туран, 2017. - 96 с. http://rmebrk.kz/</p> <p>Жаманкұлов, Қыдырқожа Абдолкәрімұлы. Ішкі аурулар [Мәтін] : оқулық / Қ. А. Жаманкұлов; Батыс Қазақстан мем. медицина акад.. - Ақтөбе : [б. ж.], 2013. - 669 б. https://elib.kaznu.kz/book/1767</p> <p>Пропедевтика внутренних болезней: Учебник. – 6-е изд., I - том перераб. и доп. (Учеб. лит. Для студентов медицинских вузов). – Алматы: Эверо, 2020. – 400 с. https://elib.kz/ru/search/read_book/676/</p> <p>Пропедевтика внутренних болезней: Учебник. – 6-е изд., II - том перераб. и доп. (Учеб. лит. Для студентов медицинских вузов). – Алматы: Эверо, 2020. – 212 с. https://elib.kz/ru/search/read_book/682/</p> <p>Пропедевтика внутренних болезней: Учебник. – 6-е изд., III - том перераб. и доп. (Учеб. лит. Для студентов медицинских вузов). – Алматы: Эверо, 2020. – 208 с. https://elib.kz/ru/search/read_book/684/</p> <p>Нұрсұлтанова С.Д., Бакирова Р.Е., Мамашалиева С.Б., Беков Е.К., Мадиева Л.С. Жүрек тамыр жүйесінің аурулары бар наукастарды тексеру әдісі және техникасы. Оқу-әдістемелік құрал. - Алматы, «Эверо» баспасы. -2020. https://elib.kz/ru/search/read_book/705/</p> <p>Ахметов Қайырғали Жәлелұлы. Ішкі аурулар пропедевтикасы пәнінің клиникалық дәрістері. Алматы: «Эверо», 2020. – 262 бет https://elib.kz/ru/search/read_book/22/</p> <p>Ішкі ағза ауруларының пропедевтикасы. Оқулық Айтмбет Б.11- Алматы «Эверо» 2018ж,-568 бет. https://elib.kz/ru/search/read_book/3086/</p>
Laboratory physical resources	
Special programs	
Journals (electronic journals)	
Literature	<p>Main literature (PVB)</p> <p>Василенко, В. Х. Пропедевтика внутренних болезней. Т. 1. : Учебник / В. Х. Василенко, В. В. Василенко ; . - Алматы : Newbook, 2021. - 400. с.</p> <p>Василенко, В. Х. Пропедевтика внутренних болезней. Т. 2. : Учебник / В. Х. Василенко, В. В. Василенко ; . - Алматы : Newbook, 2021. - 212. с.</p> <p>Василенко, В. Х. Пропедевтика внутренних болезней. Т. 3. : Учебник / В. Х. Василенко, В. В. Василенко ; . - Алматы : Newbook, 2021. - 208. с.</p> <p>Мухин , Н. А. Ішкі аурулар пропедевтикасы: оқулық. - М. : ГЭОТАР - Медиа, 2015. - 672 бет-</p> <p>Василенко, В. Х. Ішкі аурулар пропедевтикасы. Т. 1. [Мәтін] : оқулық / В. Х. Василенко, В. В. Василенко ; мем. тілге ауд. К. Асқамбай. - Алматы : Эверо, 2015. - 336 б. с</p> <p>Василенко, В. Х. Ішкі аурулар пропедевтикасы. Т. 2 [Мәтін] : оқулық / В. Х. Василенко, В. В. Василенко ; мем. тілге ауд. К. Асқамбай. - Алматы : Эверо, 2015. - 176 б. с</p> <p>Василенко, В. Х. Ішкі аурулар пропедевтикасы. Т. 3 [Мәтін] : оқулық / В. Х. Василенко, В. В. Василенко ; мем. тілге ауд. К. Асқамбай. - Алматы : Эверо, 2015. - 192 б. с</p> <p>Айтмбет, Б. Н. Ішкі ағза ауруларының пропедевтикасы: оқулық Алматы : Эверо, 2014. - 568 бет.-</p>

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Гребенев, А. Л. Пропедевтика внутренних болезней [Текст] : учебник / А. Л. Гребенев. - 5-е изд., перераб. и доп. - Алматы : Эверо, 2014. - 520 с

"Тынысалужүйесі" модулі: интеграцияланғаноқулық = Модуль "Дыхательная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 272 бет. с.

"Жүрек-қан тамырлар жүйесі" модулі : интеграцияланған оқулық = Модуль "Сердечно-сосудистая система" : интегрированный учебник / С. Б. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 344 бет. с. : ил.

"Ас қорытужүйесі" модулі: интеграцияланғаноқулық = Модуль "Пищеварительная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 376 бет. с. : ил.

"Зәршығаружүйесі" модулі: интеграцияланғаноқулық = Модуль "Мочевыделительная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : Литтерра, 2014. - 256 бет. с. : ил.

"Қан түзуші жүйесі" модулі: интеграцияланған оқулық = Модуль "Кровотворная система" : интеграционный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 288 бет. с.

"Эндокриндік жүйе" модулі: интеграцияланған оқулық = Модуль "Эндокринная система" : интеграционный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 328 бет. с.

"Тірек-қимылжүйесі" модулі : интеграцияланғаноқулық = Модуль "Опорно-двигательная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : Литтерра, 2014. - 240 бет. с. : ил.

"Жүйкежүйесі" модулі: интеграцияланғаноқулық = Модуль "Нервная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 264 бет. с. : ил.

Vasilenko, V. K. Propaedeutics of internal diseases. 1-volume: textbook / - Almaty : "Evero" , 2017. - 364 p.


Vasilenko, V. K. Propaedeutiks of internal diseases. 2- volum : textbook / . - Almaty : "Evero" , 2017. - 364 p.

Vasilenko, V. K. Propaedeutics of internal diseases. 3- volume : textbook / . - Almaty : "Evero" , 2017. - 188 p

12. Discipline policy

Requirements for students (attendance, behavior, grading policy, penalties, incentive measures, etc.)

- to observe medical ethics and deontology;
- not to smoke in the academy;
- to observe cleanliness in the department;
- not to spoil the furniture in classrooms;
- to take care of textbooks;

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- to observe the appearance of a student of a medical university;
- to comply with the requirements of the discipline. safety rules;
- wear medical masks during quarantine and observe the sanitary and epidemiological regime;
- do not skip classes without a valid reason;
- work out classes that are missed for a valid reason in a timely manner, but only if the dean's office is approved and at the time specified by the teacher;
- do not be late for classes;
- have the necessary documentation in the classroom: syllabus, guidelines for use a notebook and textbook;
- prepare for classes in good faith;
- be active during classes;
- do not engage in extraneous activities during classes: do not talk, do not smoke, do not chew chewing gum, do not eat, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for classes in other disciplines;
- observe silence and order during breaks;
- perform SIWs in a timely manner.


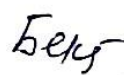



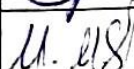
Penalties for non-fulfillment of work sections:

- if you skip lectures without a valid reason, the assessment of midterm decreases – 1 point for each missed lecture;
- if you miss a class without a valid reason, the assessment of the midterm is reduced-2 points for each missed lesson;
- if the discipline policy is violated once, the student is warned;
- if the discipline policy is systematically violated, information about the student's behavior is transmitted to the dean's office of the faculty.

Criteria for non-admission to the final control:

a student who has received an unsatisfactory grade for one of the types of controls (M1, M2, average grade of the current control) is not allowed to take the final control in the discipline.

13.	Academic policy based on the moral and ethical values of the Academy
	SCMA Regulations and Rules. Academic policy.
	R.4 Student's Code of Honor
	R.10. Organization of the educational process
	R.12. Rating policy
	The final rating is calculated automatically based on the average rating of the current control, the average rating of the midterm, and the final control rating.
	$\text{Final score (100\%)} = \text{AR}(60\%) + \text{FC}(40\%)$ $\text{AR}(60\%) = \text{Magr}(20\%) + \text{CCavg}(40\%)$ $\text{Mavg} = (\text{M1} + \text{M2}) : 2$ $\text{Final score (100\%)} = \text{Mavg} \times 0.2 + \text{CCavg} \times 0.4 + \text{FC} \times 0.4$
	AR-admission rating
	FC- assessment of final control
	Mavg– average assessment of midterm taking into account penalty points
	CCavg– average assessment of current control taking into account SIW
	M1 – midterm 1
	M2 - midterm 2

14. Approval, approval and revision			
Date of approval with the Library and Information Center	Protocol №	Full name of the head of the LIC	Signature
«14» 06 2024.	№ 9	Darbicheva R.I.	
Date of approval at the department	Protocol №	Full name of the head of the Department	Signature
«31» 05 2024.	№ 10	"Department Propaedeutics of internal diseases" doctor of medical sciences, professor Bekmurzayeva E.K.	
«26» 05 2024.	№ 11	"Department of Pathology and Forensic Medicine", doctor of medical sciences, acting as a professor A.Sh. Sadykova	
«21» 05 2024.	№ 10	Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology, candidate of pharmacological sciences, docent, acting as a professor Zh.S.Toxanbayeva	
«31» 05 2024.	№ 10	Department of Pediatrics-1, PhD K.S. Kemelbekov	
«30» 05 2024.	№ 13	Department of Biology and Biochemistry, candidate of medical sciences, M.M. Yesirkeпов	
Date of approval on AC EP	Protocol №	S.N.P. chairman EPC	Signature
«14» 06 2024.	№ 11	Kalmenov N. Zh.	