SYLLABUS

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

General information about the discipline	111.1	1 94 43. 60 11. 1 34 43.
Course code: DESP 3221	1.6	Academic year: 2025-2026
Course name: Digestive and endocrine systems in pathology	1.7	Course: 3
Prerequisites:Digestive and endocrine system is normal	1.8	Semester: 5
Postrequisites: Fundamentals of Internal Medicine	1.9	Number of credits (ECTS): 5/150
Cycle: BD	1.10	Component: IC
	Course code: DESP 3221 Course name: Digestive and endocrine systems in pathology Prerequisites: Digestive and endocrine system is normal Postrequisites: Fundamentals of Internal Medicine	Course code: DESP 3221 Course name: Digestive and endocrine systems 1.7 in pathology Prerequisites: Digestive and endocrine system is normal Postrequisites: Fundamentals of Internal Medicine 1.9

2. Description of the discipline

Integrated discipline: formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic laboratory parameters, issues of etiology, pathogenesis, morphogenesis of the digestive and endocrine systems, acquisition of skills in choosing and analyzing the effectiveness of diagnostic methods and properties of medicines for the treatment of diseases, taking into account the principles of evidence-based medicine and a patient-centered approach

3.	Summative Assessment Fo	rm	3. 90, 14 2, My 3's 90. At 3
3.1	• Testing	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral	3.7	Project
3.4	Assessment of practical skills	3.8	Another

4. Objectives of the discipline

Formation of a holistic understanding of the pathology of the digestive and endocrine systems, based on symptoms and syndromes, as well as on methods of their study.

Ensuring the achievement of final learning outcomes based on the joint study of the pathology of the digestive and endocrine systems in the propaedeutics of internal diseases with fundamental disciplines. Formation of clinical thinking skills based on knowledge of pathophysiological mechanisms of the course, pathological changes, complications and outcomes of diseases, physical and clinical laboratory methods of examination and selection of drugs in adults with the main clinical syndromes in pathology of the digestive and endocrine systems.

Development of research skills through the analysis of scientific articles, analysis of experimental studies and project activities.

and	project activities.
5.	Final learning outcomes (LO of the discipline)
LO 1.	Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the digestive and endocrine systems
LO 2.	Has knowledge of methods for interviewing adults, uses clinical thinking in collecting information when drawing up an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in pathology digestive and endocrine systems
LO 3.	Usesclinical reasoning in collecting information when interpreting results morphological, laboratory and instrumental research methods patients with pathology of the digestive and endocrine systems, formulates a syndromic diagnosis, fills out a medical history.

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LO 6.	regimen, reco	gnizes adver	se effe	cts o	f drug	gs, pre	edicts	the d	level	lopme					
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S.1	LO 1 LO 2	LO	1 Ap	ply f	undar	nenta	l kno	wled	ge in	bion	717			7.3	
901.K	4. norms of ethics and deontology in communication with patients, their relatives and colleagues LO Identifies pathologicalprocesses at the organ and cellular levels, interprets data on the pathophysiol and morphology of diseases taking into account the clinical data of patients, makes conclusions, explains the patterns of development of complications and outcomes of pathology of the digestive endocrine systems, evaluates the results of experimental studies LO Selects medicinalmeans in accordance with the diagnosis, writes prescriptions, determines the dost regimen, recognizes adverse effects of drugs, predicts the development of side effects and interaction of drugs used in pathology of the digestive and endocrine systems 5.1 LO discipline Learning outcomes of the EP, which are associated with the discipline LO 1 LO 1 Apply fundamental knowledge in biomedical, clinical, epidemiological sciences aimed at diagnosing, treating, and preventing the most common diseases. LO 5 LO 6 Provides outpatient consultation, diagnostics, treatment, dynamic monitoring and rehabilitation of pediatric and adult patients, including pregnant women, based on the principles of evidence-based medicine. LO 11 Analyzes the effectiveness of diagnostics and treatment results using the principles of personalized medicine. 6. Detailed information about the discipline 6. Detailed information about the discipline 6. Detailed information about the discipline 6. Lo action of the Department of Pathology and Forensic Medicine: Shymkent, Al-Farabi sq., 3, academic building No. 2 of SKMA. 4th floor, rooms No. 404 a, b, No. 406, No. 408, No. 409, No. 411 a, b; e-mail-Patan gisto@mail.ru • Location of the Department of Internal Medicine Propaedeutics: Shymkent, ParkHealth Clinic, Kabanbai Batyr St. 26, 2nd floor; tel.: 8 701 738 6114, e-mail:propedevtica vh@mail.ru • Location of the discipline Days Form of the lesson Propaedeutics of Internal Medicine Propaedeutics: Shymkent, ParkHealth Clinic, Kabanbai Batyr St. 26, 2nd floor; tel														
19.69	LO 5	LC mo	LO 6 Provides outpatient consultation, diagnostics, treatment, dynamic monitoring and rehabilitation of pediatric and adult patients, including												
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SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия» Department of Propaedeutics of Internal Medicine, Department of Pathology and Forensic Medicine, Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

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W ee k/ da y	Topic Title	SKILL SKILL SKILL	Summary	LO of disci plin e	Qua ntity of hour s	Methods/ learning technologies	Forms/ evaluation n methods	
1 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Propaedeutics of internal diseases. Lecture 1 Questioning, complaints, general examination of patients with pathology of the digestive and hepatobiliary system. Superficial and deep palpation of the abdomen using the Obraztsov method, percussion and palpation of the liver according to Kurlov and the pancreas, auscultation of the abdominal organs: determination of the lower border of the stomach.	gene patie of the hepa Supe palp using meth palp using ausc abdo detections	stioning, complaints, and examination of ents with pathology be digestive and atobiliary system. Efficial and deep ation of the abdomen of the Obraztsov and, percussion and ation of the liver of Kurlov, altation of ominal organs: remination of the er border of the each, palpation of the ereas.	LO2	1 St 1 St 2 St	Overview lecture	Blitz survey ReverseI am the connecti on	
J.F. SKING	Propaedeutics of internal diseases. Practical lesson 1 Complaints, questioning, general examination, superficial and deep palpation of the abdomen of patients with digestive system pathology. Diagnostic value.	gastri Exar cavit exar asse obta the a char Meth	aplaints typical of cointestinal diseases. mination of the oral cy. General mination and ssment of the data ined. Examination of abdomen and clinical acteristics. modology and mique for superficial deep palpation of the	LO1 LO2 LO6	Jaren Ja Jaren Jaren Jaren Jaren Jaren Jaren Jaren Jaren Jaren Jaren Ja	Discussion of the topic of the practical lesson, solving situational problems, learning and performing practical skills.	Checklist for oral questioni ng, assessme nt of practical skills.	

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7.KJ 7.KJ 7.KJ	Propaedeutics of internal diseases. SWIT/SIW 1 SIW tasks: theoretical training on the topic of the lesson.	Preparation and methodology for conducting instrumental and laboratory methods for examining patients with diseases of the digestive system.	LO1 LO2 LO6		Case technology (Case study)	Case Solution Checklist
2 edu kno 1 edu 1 edu 1 edu 1 edu 1 edu	Pharmacology.Lecture 1 Drugs that affect the function of the digestive organs.	Funds, influencing on gastrointestinal motilitytract, antispasmodics, laxatives and antidiarrheal means. Antimicrobialagents used for eradication therapy Antisecretory agents: proton pump inhibitors H2-histamine blockers, M-cholinergic blockers. Antacid and antisecretory agents. Gastroprotectors. Synthetic analogues of prostaglandins.	LOI	1 Si 1 Si 2 Si 2 Skin 2 Skin 2 Skin 2 Skin 2 Skin 2 Skin 2 Skin 2 Skin 3 Skin 4 Skin 4 Skin 5 Skin 6 Skin 8 Sk	Overview lecture	Blitz survey ReverseI am the connecti on
or skill	Pharmacology.Practical lesson 1 Medicines used for inflammatory diseases of the gastrointestinal tract and dyspepsia	Agents affecting gastrointestinal motility, antispasmodics, laxatives and antidiarrheals. Antimicrobials used for eradication therapy. Antisecretory agents: proton pump inhibitors H2 histamine blockers, M-anticholinergics. Antacid and antisecretory agents. Gastroprotectors.	LO6		Work in small groups, discuss the topic, case study	Checklist

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SKI,	Mg. edu, M. K. Skur	Synthetic analogues of prostaglandins. Features of use in children.	19:60	GU	11 SKUS	Siegni,
kus grik	PharmacologySWIT/SIW 1 SIW tasks: theoretical training on the topic of the lesson.	Medicines used for intestinal and gastric dyspepsia syndrome. Medicines used for gastric ulcer and duodenal ulcer. Indications and contraindications. Side effects. Peculiarities of use in children.	LO6	1/6	Discussiontopi cs, presentation defense, essay, analysis of scientific articles, glossary	Checklist
	Pathological anatomy. Lecture 1 Pathological anatomy of the gastrointestinal tract	Acute and chronic gastritis. Gastric ulcer and duodenal ulcer. Appendicitis. Peritonitis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance.	LOI	SKI SKI	Overview lecture	Blitz survey ReverseI am the connecti on
skur ogen ogen ogen ogen ogen ogen ogen ogen	Pathological anatomy. Practical lesson 1 Pathological anatomy of the gastrointestinal tract	Acute and chronic gastritis. Gastric ulcer and duodenal ulcer. Appendicitis. Peritonitis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance.	LO3 LO5	4.00 km2, km2, km2, km2, km2, km2, km2, km2,	Discussion of the topic, description of macro- and micropreparation s with a conclusion, casestudy	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pathological anatomy. SWITSIW 1 SIW tasks: theoretical training on the topic of the lesson.	Diseases of the esophagus and intestines. Diverticulosis of the esophagus and intestines. Esophagus and intestines. Esophagitis. Esophageal tumors. Enteritis. Colitis. Crohn's disease. Benign andMalignant tumors of the intestine. Malformations of the gastrointestinal tract. Etiology. Pathogenesis. Morphogenesis.	LO3 LO5	1/6	Case study	Case solution checklist

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4 / du / d	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 value.	Predisposing factors and causes leading to the development of gastric and intestinal dyspepsia syndrome; jaundice syndrome and liver failure. Clinical features.	LO2	sking skin sking skin skin skin skin skin skin skin skin	Overview lecture	Blitz survey ReverseI am the connecti on
Sklug Sklug Sgn.k	Propaedeutics of internal diseases. Practical lesson 2 Complaints, questioning, general examination, palpation and percussion of the liver according to Kurlov and pancreas of patients with pathology of the hepatobiliary system. Diagnostic value.	Complaints, questioning, general examination, palpation of the liver and pancreas of patients with hepatobiliary system pathology. Diagnostic value.	LO1 LO2 LO6	Skus Skus Skus Skus	Discussion of the topic of practical about classes, solving situational problems, learning and implementing practical skills.	Checklist for oral questioni ng, assessme nt of practical skills.
13.60 7.KJ	Propaedeutics of internal diseases. SWIT/SIW 2 SIW tasks: theoretical training on the topic of the lesson	Preparation and methodology for conducting instrumental and laboratory methods for examining patients with diseases of the hepatobiliary system.	LO1 LO2 LO6	1/1	Integrated monitoring of educational achievements using control educational cases	Checklist case solutions
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Pathological physiology. Practical lesson 1 Pathophysiology of digestion	Insufficiency of digestion, causes and pathogenetic factors. Disorders of food processing in the oral cavity and its passage through the esophagus. Digestive disorders in the stomach. Hypo- and hyperchlorhydria. Digestive disorders in the intestine. Malabsorption syndrome. Acceleration and deceleration of intestinal peristalsis.	LO3 LO5		Work in small groups, discuss the topic, case study	Case solution checklist

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9.6g	kus egn irk karasegn	Disorders of external secretion of the pancreas. Clinical significance	ia.e. kna.e 1.kl 1.kl	KT KT Skus Jugiet	Sking edn'y by Sking edn'y segn'y edn'y segn	SKWS'EGIN
147 124	Pathological physiology SWIT/SIW 1 SLO tasks: theoretical training on the topic of the lesson	Peptic ulcer of the stomach and duodenum, etiology, pathogenesis, manifestations, complications. Clinical significance	LO3 LO5	1/2	Case study	Case solution checklist
18. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	Pathological physiology. Lecture 1 Pathophysiology of the liver	General etiology and pathogenesis of liver dysfunction. Liver failure, liver 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	LOI	AL S	Overview lecture	Blitz survey Reverse I am the connecti on
13/21/21/21/21/21/21/21/21/21/21/21/21/21/	Pathological physiology. Practical lesson 2 Pathophysiology of the liver	General etiology and pathogenesis of liver dysfunction. Liver failure, hepatic encephalopathy, hepatic coma, etiopathogenesis. Liver cirrhosis, etiopathogenesis, clinical and laboratory syndromes. The role of the liver in liver dysfunction. metabolism. Jaundice, concept, types,	LO3 LO5	13.ed	Work in small groups, discuss the topic, case study	Case solution checklist

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5. K. Y.	Pathological physiology. SWIT/SIW 2 SLO tasks: theoretical training on the topic of the lesson.	Gallstone disease, concept, etiology. Types of gallstones, pathogenesis of formation. Clinical meaning	LO3 LO5	1/6	Case study	Case solution checklist
ing ski	Propaedeutics of internal diseases. Lecture 3 Questioning, complaints, general examination of patients with endocrine pathology and palpation of the thyroid gland. Methods of examining patients with endocrine pathology. Diagnostic meaning.	Questioning patients with endocrine pathology. Data from physical examination methods of the endocrine system. General examination: examination of the face, eyelids, skin; palpation of the thyroid and pancreas: methods and techniques. Predisposing factors and causes	LO2	SKU SKU SKU SKU SKU SKU SKU SKU SKU SKU	Overview lecture	Blitz survey ReverseI am the connecti on
30,000	Propaedeutics of internal diseases. Practical lesson 3 Leading clinical syndromes (gastric and intestinal dyspepsia) in gastroenterology. Diagnostic value.	Predisposing factors and causes leading to the development of gastric and intestinal dyspepsia syndrome. Clinical features.	LO1 LO2 LO6	Asi a.edi krna krna krna krna krna krna krna krna	Discussion of the topic of practical about classes, solving situational problems, learning and implementing practical skills.	Checklist for oral questioni ng, assessme nt of practical skills.
KU,	Propaedeutics of internal diseases. SWIT/SIW 3 SLO tasks: preparation for midterm control Border control #1	Topics of lectures, practical classes, independent work, covered during 1-6 days of training.	LO1 LO2 LO6	1/1	Integrated monitoring of educational achievements with using control training cases, testing	Checklist case solutions, testing checklist
14. 14. 14. 14. 14. 14. 14. 14. 14. 14.	Pharmacology.Lecture 2 Hormonal and antihormonal agents.	Drugs used for hypothyroidism in adults. Drugs used for hyperthyroidism, their effect on metabolism. Antithyroid drugs, glucocorticosteroids. Indications and	LOI	18.69	Overview lecture	Checklist

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rws Kws	Pharmacology.Practical lesson 2 Medicines used for liver diseases, for exocrine pancreatic insufficiency syndrome	Drugs used in cases of pancreatic excretory dysfunction. Substitution therapy drugs used in cases of pancreatic insufficiency. Peculiarities of use in children.	LO6	31	Work in small groups, discuss the topic, case study	Checklist
1.K1 1.K1 1.K1 1.K1	Pharmacology.SWIT /SIW 2 SIW tasks: theoretical training on the topic of the lesson.	Classification of hormonal agents. Glucocorticoids. Glucocorticoids for systemic and local use. Drugs used in Itsenko-Cushing's disease. Mineralocorticoids. Mechanism of action. Indications and contraindications.	LO6	1/6	Discussiontopi cs, presentation defense, essays, scientific analysis article, glossary	Checklist
1 KT 8 KM 8	Propaedeutics of internal diseases. Practical lesson 4 Leading clinical syndromes (jaundice and liver failure) in hepatology. Diagnostic value.	Predisposing factors and causes leading to the development of jaundice syndrome and liver failure. Clinical features.	LO1 LO2 LO6		Discussion of the topic of practical about classes, solving situational problems, learning and performing practical skills.	Checklist for oral examinati on, assessme nt of practical skills
edu skrift skrift	Propaedeutics of internal diseases. SWIT/SIW 4 SLO tasks theoretical training on the topic of the lesson	Laboratory research methods in patients with endocrine system diseases (determination of thyroid hormones: TSH, T3 T4, Anti-TPO; determination of pancreatic hormones).	LO1 LO2 LO6	or edu.k	Case solving	Case Solution Checklist Solution of cases specified in the content on the topic of

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70,	Ja. J. Egg Mik 1 3 Skylus	S EGD MIKE SHELLE	19. G	JU.	AT SK. Wo.	the lesson
5 7 10 0 0 0 7 7	Pathological anatomy. Lecture 2 Pathological anatomy of liver diseases	Hepatitis. Liver steatosis. Cirrhosis. Liver cancer. Pancreatitis. Pancreatic cancer glands. Acute and chronic cholecystitis. Gallstone disease. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	Start Start	Overview lecture	Blitz survey ReverseI am the connecti on
13.64 13.64 13.64 20.64	Pathological anatomy. Practical lesson 2Pathological anatomy of liver diseases	Hepatitis. Liver steatosis. Cirrhosis. Liver cancer. Pancreatitis. Pancreatic cancer glands. Acute and chronic cholecystitis. Gallstone disease. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	J. K. Skill	Discussion of the topic, description of macro- and micropreparation s with a conclusion, case study	.\ \ \ \ \ \ \ \
J. K.	Pathological anatomy. SWIT/SIW 2 SIW tasks: theoretical training on the topic of the lesson.	Malformations of the gastrointestinal tract and hepatobiliary system, types, pathological anatomy. Portal hypertension syndrome. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/3	Case study	Case Solution Checklist
9	Propaedeutics of internal diseases. Lecture 4	Predisposing factors and causes leading to the development of hypo-,	LO2	T. D.	eginiky	Blitz survey ReverseI

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1 SKI	Leading clinical syndromes (hypo-, hyperthyroidism, hypo-, hyperglycemia) in endocrinology.	hyperthyroidism, hypo-, hyperglycemia. Clinical features.	KUG'S	3.6qn	W. Skyno	am the connecti on
A SKING SKIN	Propaedeutics of internal diseases. Practical lesson 5 Questioning, complaints and general examination of patients with endocrine system pathology. Features of the patient's medical history and life. Pathological symptoms identified in patients with endocrine system disorders. Diagnostic value	Questioning, complaints and general examination of patients with endocrine system pathology. Features of the patient's medical history and life. Pathological symptoms identified in patients with endocrine system disorders. Diagnostic value. Palpation of the thyroid and pancreas (determination of the Chauffard zone, Gubergritz-Skulsky, pain points: Desjardins, Gubergritz, Mayo-Robson). Leading clinical syndromes (hypohyperglycemia) in endocrinology. Diagnostic value.	LO1 LO2 LO6	Skuly Skuly	Discussion of the topic of practical about classes, solving situational problems, learning and performing practical skills.	Checklist for oral questioning, assessment of practical skills.
sedul skuri sk su s su s sk su s sk su s s s s	Propaedeutics of internal diseases. SIW /SWIT 5 SIW tasks: theoretical training on the topic of the lesson	Analysis andinstrumental research methods in patients with endocrine system diseases.	LO1 LO2 LO6	1/1 2du.k 2du.k 13.edu 14.k 1	Case technology	Case Solution Checklist Solution of cases specified in the content on the topic of the lesson
10	Pathological physiology. Lecture 2 General pathophysiology endocrine system	The main mechanisms of dysfunction of the endocrine glands. Disruption of central regulatory mechanisms. Feedback mechanism.	LOI	Varia Varia	Overview lecture	Blitz survey Reversel am the connecti on

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. Skil	kna.edu.kl. skna.edu.kl. skna.edu.kl. skna.edu.kl. skna.edu.kl. skna.edu.kl. kl. skna.edu.kl. s	Pathological processes in the gland itself. Peripheral mechanisms of hormonal activity disturbance. Clinical significance	12. Skings	TUS'S	s eqn'y y skulg	SKUS EGIT
SKI SKI SKUS SKUS SKUS SKUS SKUS SKUS SK	Pathological physiology. Practical lesson 3 General pathophysiology of the endocrine system	The main mechanisms of dysfunction of the endocrine glands. Disruption of central regulatory mechanisms. Feedback mechanism. Pathological processes in the gland itself. Peripheral mechanisms of hormonal activity disturbance. Clinical significance	LO3 LO5	a edi du k	Work in small groups, discuss the topic, case study	Case solution checklist
18.60	Pathological physiology. SWIT/SIW 3 SIW tasks: theoretical training on the topic of the lesson.	Endemic goiter, concept, etiology, pathogenesis, manifestations. Clinical significance	LO3 LO5	1/6	Case study	Case solution checklist
110 1.12 1.12 1.12 1.12	Pathological anatomy. Practical lesson 3 Pathological anatomy of the endocrine system	Diabetes mellitus. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	Sqn's	Discussion of the topic, description of macro- and micropreparation s with a conclusion, case study	()
1.K1, edu na.el sknir	Pathological anatomy. SWIT/SIW 3 SIW tasks: theoretical training on the topic of the lesson.	Colloid goiter. Parenchymatous goiter. Diffuse toxic goiter. Myxedema. Hoshimoto's goiter. Riddel's goiter. Thyroid cancer. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/5	Case study	Case Solution Checklist
12	Propaedeutics of internal diseases.	Predisposing factors and causes leading to the	LO1 LO2	2	Discussion of the topic of	Checklist for oral

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911.K	Practical lesson 6 Leading clinical syndromes (hypo-, hyperthyroidism, hypo-, hyperglycemia) in endocrinology. Diagnostic value. Propaedeutics of internal	development of hypo-, hyperthyroidism, hypo-, hyperglycemia. Clinical features. Topics of lectures,	LO6	sku g'edn	practical about classes, solving situational problems, learning and performing practical skills. Integrated	questioni ng, assessme nt of practical skills.
KLUG KLUG	diseases. SWIT/SIW 6 SIW tasks: preparation for midterm control. Midterm control No. 2	practical classes, independent work,	LO1 LO2 LO6	g.edu grikj	monitoring of educational achievements with using control training cases, testing	testing
Sking Sking	Pharmacology.Practical lesson 3 Thyroid hormones and antithyroid drugs. Preparations parathyroid gland	Drugs used for hypothyroidism in adults. Drugs used for hyperthyroidism, their effect on metabolism. Antithyroid drugs, Glucocorticosteroids. Indications and contraindications. Side effects.	LO6	2,K1 2,K1 2,K1 2,K1	Work in small groups, discuss the topic, case study	Checklist
Skus Jasequi Jasequi	Pharmacology. SWIT/SIW 3 SIW task: Sex hormone preparations.	Ovarian hormone preparations. Male sex gland hormones and antiandrogenic substances. Mechanism Actions, indications. Side effects. Features of use in childhood.	LO6	1/2	Discussion topics, presentation defense, essays, analysis of scientific articles, glossary	Checklist
W.	Intermediate certification	1 3 Killy 5 6 90 17 14 1	SISK	VO3	6070,17	15 hours
9.	Teaching and assessment	methods	KL 1	STATE	US SO SON A	1 54 1
9.1		verview lectures	, I'A	15	Ky, 3. 90.	Kr 5"
9.2	m th pr la re	ork in small groups, discussion acro- and micropreparations wite practical lesson, solving situat actical skills, writing prescription oratory tests. search, solving situational problem.	th a contional properties, into	clusion roblem erpretin	n. Discussion of the is, learning and per ing the results of clin	e topic of forming nical
9.3	SWIT/SIW C	ase study, analysis of scientific a esentation and practical skills d	articles,	projec	et implementation,	essay.

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9.4	Border control	Integrated n	nonitoring of educ	cational achievements wit	PACING SECTION			
	S. Op. Tr		ol training cases, t	esting	Ch. Wo Ser M			
10.	Evaluation criteria		is go, Kr	24 140 3:00 90.1	the strike of the			
10. 1	Criteria for assessing the learning outcomes of the discipline							
№ L O	Name of learning outcomes	Unsatisfactor y	Satisfactorily	Good	Excellent			
	1. Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the digestive and endocrine systems	1. Doesn't have the basics semiotics and syndromology, does not deGood symptoms and syndromes. 1. Cannot explain the etiology,pathog enesis and morphogenesis pathological changesdigestive and endocrine systems	1. Does not have a basic understanding of semiotics and syndromology, makes gross errors in determining symptoms and syndromes in pathologies of the digestive and endocrine systems. 2. Makes mistakeswhen explaining etiology, pathogenesis and morphogenesis of pathological changes in the digestive and endocrine systems	1. Has a basic knowledge of semiotics and syndromology, will identify symptoms and syndromes. 2. Explains the etiology, pathogenesis and morphogenesis of pathological changes in the digestive and endocrine system, but allows for minor inaccuracies	1. Fluent in the basics semiotics and syndromology, independently determines symptoms and syndromes. 2. Explains etiology fluently, pathogenesis and morphogenesis pathological changes in the digestive systemoh and endocrine systems			
LO 2	1. Has mastered the methods conducting a survey of adults, uses clinicalthinking in assembly information when drawing up a plan examinations; outlines the volume main and	1. Doesn't know the basics physiologicalpr ocesses in the gastrointestinal tract and hepatobiliarysy stems, not understands regulation digestion activities.	1. Makes mistakes in description basic physiological processes in the gastrointestinal tract and hepatobiliary system, explanation regulations	1. Describes basic physiologicalprocesses in the gastrointestinal tract and hepatobiliarysystems, understands regulation digestive activities. 2. Capable fully explain	1.Demonstratest main physiologicalwhat processes Gastrointestinal tract and hepatobiliaryoh system, deep understands regulation digestiveof the process.			

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5971 1.47 1.840	additional research to clarify the syndrome defeats at pathologies digestive andendocrine system	2. Not capable explain mechanisms digestive process	digestion. 2.Capable of making mistakes explain the mechanisms digestive process	mechanisms digestiveabout the process	2. Capablesketch mechanisms digestive of the process
	Uses clinical thinking in assembly information when interpretations results morphological, lab oratory and instrumental research methods patients at pathologies digestive and endocrine system, formulates syndromic diagnosis, fills out medical history	1. Doesn't know main metabolic pathways that affect the function of the gastrointestinal tract and hepatobiliarysy stems. 2. Doesn't understand biochemical processes associated with digestive andhepatobilia ry system.	1. Doesn't fully know the basics metabolic pathways, affecting the function of the gastrointestinal tract and hepatobiliary systems. 2. Poor understanding biochemical processes associated with digestion	1.Explains main metabolicwhat are the ways influencing on the function of the gastrointestinal tract and hepatobiliarysystems. 2. Understands and understands well biochemical processes related with digestion	1. Owns skills clinical thinking, applies knowledge in collection information at interpretations results morphologicalki, laboratory and instrumental methods research patients at gastrointestinal pathologies Andhepatobiliary system, 2. formulates syndromic diagnosis, fills history diseases. 3. Effective decides situational tasks
LO 4	Reports information, ideas, problems and solutions patients and their members family, owns ethical standards and deontology in	Doesn't know how to apply knowledge of the gastrointestinal tract and hepatobiliary system in clinical context, not acquired skills	Not fully capable apply knowledge about Gastrointestina l tract and hepatobiliary system in clinical In this context,	Lists information about the gastrointestinal tract and hepatobiliary system in clinical context, conducts collection of complaints, clinical history and physical	Free demonstrates knowledge of the gastrointestinal tract and hepatobiliaryoh system in clinical context, collects complaints, clinical history and physical

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SAN	communication with patients, their relatives and colleagues	in collecting complaints, clinical anamnesis and physical examination of patients with gastrointestinal diseases and hepatobiliarysy stems for providing first aid, is not able to interpret the results of laboratory and instrumental studies	the collection of complaints, clinical history and physical examination of patients with diseases of the gastrointestinal tract and hepatobiliary system for the provision of first aid is carried out with errors, poorly oriented in the interpretation of the results of laboratory and instrumental studies	examination of patients with diseases of the gastrointestinal tract and hepatobiliary system with the provision of first aid, well versed in the interpretation of the results of laboratory and instrumental studies	examination of patients with gastrointestinal diseases and hepatobiliaryoh system with the provision of first aid, is well versed in interpreting the results of laboratory and instrumental studies
	Identifies pathologicalproce sses 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 development of complications and outcomes of pathology of the digestive and endocrine systems, evaluates the results of experimental	Incapable of identifying pathological processes at the organ and cellular levels, makes gross errors. 1. Cannot interpret data on the etiology, pathophysiolog y and morphology of diseases, taking into account the clinical data of patients. 2. Makes mistakes conclusions, poorly oriented and does not	Identifies pathologicalpr ocesses at the organ and cellular levels, but makes gross errors. 1. Cannot interpret independently data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 2. Makes erroneous conclusions, has difficulty independently	Identifies pathologicalprocesses at the organ and cellular levels. 1. Interpretsdata on etiology, pathophysiologistgy and morphology diseases taking into account the clinical data of patients. 2. Draws conclusions, explains regularitydevelopment of complications and outcomes of pathologies of the digestive and endocrine systems. 3. Evaluates the results of experimentalresearch, but allows for minor inaccuracies. Decidessituational	Independentbut determines pathological processes at the organ and cellular levels. 1.Independently interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 2. Draws conclusions, explains the patterns of developmentcomplic ations and outcomes of pathology of the digestive and endocrine systems

SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия»

Department of Propaedeutics of Internal Medicine, Department of Pathology and Forensic Medicine, Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

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SKI	studies Ling a color of the co	explain the patterns of development of complications and outcomes of pathology of the digestive and endocrine systems. Incapable of judging	digestive and endocrine systems. 3. It's difficultevaluat e the results of experimental research, allows for	tasks skina edulu klaskina edulu kla	L skina. eo du.k. 1. skina. eo du.k. 1. skina. edu.k. na. edu.k. skina. edu.k. skina. edu.k. 1. skina. edu.k. 1. skina. edu.k. 1. skina. edu.k. 1. skina. edu.k. 1. skina. edu.k.
LO 6	Selects medicinalmeans in accordance with the diagnosis, writes prescriptions, determines the dosage regimen, recognizes adverse effects of drugs, predicts the development of side effects and interactions of drugs used in pathology of the digestive and endocrine systems	DeGoods the overallpharmac ological group of drugs. 1. writes outrecipe with making mistakes	fundamental Selects pharmacologic algroup of drugs by organs and systems. Writes a prescription using reference literature/sourc es	Selects medicinalmeans for the treatment and prevention of the most common diseases. 1. Writes out a prescriptionfor a given drug the drug is error-free. 2. Calculates the dose of medicine means	Selects medicinaldrugs from various pharmacological groups in accordance with indications for use, contraindications and side effects 1. Writes outrecipe for 1. medicinalmeans in the most suitable dosage form depending on age, gender, functional characteristics. Calculates doses using various methods and determines the frequency and duration of use of the drug
	Methods and critericklist for practical l		301.11.2	100 - 600 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Way of San A
	10.2. Methods and c		ation	K 10. 60 111	1. 4. 0. 0
	Checklist for practic			2 CK 73. 00 11	1 3 44 00
	No. Evaluation crite		t Good S	atisfactorily Un	satisfactory
17.7	Practical classes:	BACCHEIR		and action of the control of the con	Jacob Lactor J

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10	Written response to the questions of this assignment	30	21	5 15 ma.	gn. Ko skurses
2	Oral answer on questions of this task	30	21	15 SKN	Augier 60 m. Kr. 2kgh
3	Completing test tasks	12	58	9. 6.	SKALO SEGUITA
4	Solving situational problems	28	20 5	14	1. 1 d. 0 klus sign gri
	General:	100	70	50	111: 1 0 Kr. 35. 60.
Che	ecklist of situational ta	sks	So Military	r et vo.	50,11,611 841, 30.
N o.	Evaluation criteria	SK, KWG.	13.60 G/11.1	K 1 sking.	Points
.ed	given task. Demonstrate biochemical parameter biofluid analysis data. conclusions on a situat understanding of the ne	s when int Demonstraional task,	terpreting the ates the ability while demo	e proposed ty to draw logical nstrating a deep	1 Skung edniky
20	Possesses the necessary task. Allows for minor Is able to draw correct task.	y knowled inaccurac	ge to solve to ies when dis	his situational cussing this case.	"Good" 70-89%
3	Allows minor inaccura difficulty interpreting a Draws conclusions wit	nalyses p	roposed in a		"Satisfactory" 50-69%
4)	Allows fundamental er Passive, unable to dray				"Unsatisfactory" 0-49%
Che	cklist for assessing a le	esson	11. 11.	1777	17 11 21 -0

Form of control	Grade	Evaluation criteria
Carrying out practical work	Excellent corresponds to scores of 95-100 90-94	 completed the practical work on time and without any errors and submitted a report on it; took an active part in the discussion of the research results; made a well-reasoned conclusion, while demonstrating original thinking
socaliya ski	Good corresponds to scores of 85-89 80-84	- completed the practical work on time and submitted a report on it, making minor mistakes;
Kus segranik	75-79 70-74	- took an active part in the discussion of the research results
1 skurgiedni	Satisfactorily corresponds to scores of 65-69 60-64	- completed the practical work on time and submitted a report on it, having made fundamental mistakes;

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us seconity	50-54	- was not active during the discussion and needed the teacher's help
skrivas edu	Does not meet the scores satisfactorily 25-49	- failed to submit a report on practical work on time, made serious mistakes, and did not complete all the practical work
M.K. S. SKULUS.E	Unsatisfactory corresponds to scores 0-24	required by the program; - did not take part in the discussion of the results of the work
Case study	Excellent corresponds to scores of 95-100 90-94	solved cases within a certain time;gave full answers to all questions
Skus egn y	Good corresponds to scores of 85-89 80-84 75-79 70-74	 solved cases within a certain time; gave complete answers to all questions; made minor mistakes when solving cases
An'k skusi	Satisfactorily corresponds to scores of 65-69 60-64 50-54	 solved cases within a certain time; gave incomplete answers to questions; made fundamental mistakes when solving cases
skug'edn'y	Unsatisfactory corresponds to scores 25-49 Does not meet the scores satisfactorily 0-24	 solved cases incorrectly or did not solve them at all; made gross mistakes when solving cases
Interpretation of clinical laboratory test results	Excellent corresponds to scores of 95-100 90-94	- correctly, without any errors, interpreted the results of clinical laboratory tests; - made a reasonable conclusion
kwg.gg.egn.k7 g.egn., k7 egn.k7	Good corresponds to scores of 85-89 80-84 75-79 70-74	 correctly interpreted the results of clinical laboratory tests, making minor errors; made a reasonable conclusion
Kr zkwa sego	Satisfactorily corresponds to scores of 65-69 60-64 50-54	 correctly interpreted the results of clinical laboratory studies, having made fundamental errors; made an unfounded conclusion
igi egninika eku	Does not meet the scores satisfactorily 25-49 Unsatisfactory	 incorrectly interpreted the results of clinical and laboratory tests, making gross errors; did not draw a conclusion
Discussion of the topic	corresponds to scores 0-24 Excellent corresponds to scores of 95-100 90-94	 did not make any mistakes during the discussion; was oriented in the theories, concepts and directions of the discipline and gave them a critical assessment;

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War Segraniky	skiring sedulik KT sig	- used scientific achievements of other disciplines
KI SKUUS EKUS EQUI. KI SKUUS EQ	Good corresponds to scores of 85-89 80-84 75-79 70-74	 during the discussion he did not make any gross mistakes, but he did make inaccuracies and minor errors, which he corrected himself; managed to systematize the program material with the help of the teacher
a.edu.i.kl.kl.ski gedu.i.kl.kl.kl.kl.	Satisfactorily corresponds to scores of 65-69 60-64 50-54	 made fundamental mistakes during the discussion; limited himself to only the educational literature specified by the teacher; experienced Excellent difficulty in systematizing the material
X1 sking. ede	Does not meet the scores satisfactorily 25-49	made gross mistakes during the discussion;did not study the basic literature on the
gn.Kl sking	Unsatisfactory corresponds to scores 0-24	topic of the lesson;failed to use the scientific terminologyof the discipline
The test is assessed using a multi-point	Excellent corresponds to scores of 90-94	- correctly completed 90-100% of test tasks
knowledge assessment system.	Good corresponds to scores of 85-89 80-84 75-79 70-74	- correctly completed 70-89% of test tasks
signiky skular	Satisfactorily corresponds to scores of 65-69 60-64 50-54	- correctly completed 50-69% of test tasks
kusisegnik	Unsatisfactory corresponds to scores 25-49 Unsatisfactory corresponds to scores 0-24	- completed less than 50% of test tasks correctly

Checklist for ass	essing practical skills "P	ropaedeutics of internal diseases''
Form of control	Grade	Evaluation criteria
Implementatio n of practical skills	Excellent corresponds to grade 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 primary and secondary complaints, and is well-versed in the collected anamnesis of life and
KT skilusisis Skilusisis	edn'ky skrusy	disease. - Conduct physical examination accurately: - general examination (examination of the skin and subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood

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	- 	AND DY	
	19. 300 14 1	2. My, 3.0 30	pressure);
· 1	U. J. O. YO. K.	51 1/11 2:0	- palpation (determination of resistance, pain, vocal
5	11 (Up 2 60 YD).	15 2/2 Via 6	fremitus, localization, amplitude, area, strength,
	ch was en m	11 ch 20.	
.1	· 1/1, 28. 000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pulsation, consistency, mobility, diameters, peristalsis,
Kr	1 2. 171, 3.	90, Kr 2, My	zones of pain, rigidity),
) ·	Kr 21 We	40. KT 26	- Percussion (determination of comparative, topographic
$\lambda \mathcal{O}$. 15 Ct. 20	e 11: 11 et	boundaries of the lungs, area, excursion; determination
	William Child	9. 60	of absolute and relative boundaries of the heart,
0	00 1/2 2 1/1/	. 3. 3db. K	
2.	900 Kr 3	1410 Jie 111. KT	configuration, diameter and vascular bundle;
10.	36 40. 12 3	F. Wo So M.	determination of the boundaries of the liver, spleen and
0	0. 60 711.11	ch. vs. so."	stomach, percussion symptom);
6.	Vg. 600 11 1	3 1/11, 33. 300	- auscultation (listening to vesicular and bronchial
. 7	TU. 3:000 1/1	2, 11/11/29	breathing, wheezing, crepitations, pleural friction noise
, 5	11/10 2:00 1/1.	Kr 24 Was 6	1
	SK, WO 60 11)	1. 11 ch via.	in the lungs; listening to normal and pathological heart
11	9/1, VS. 60.	11. 1. All of	tones and murmurs, diastolic and systolic murmur).
1.1	1. 14 20.	300 1/4 2 S. MU.	- Substantiates and makes a tentative syndromic
V .	Kr 2, 111, 5;	9/1. Kr 26	diagnosis.
77	1. Kr 26. Wa	70. M. B	- Used additional literature when preparing for the
8	10. 15 ch 2	10, 60, 111, 11	
9	6, 11.7.11.	V3. 600 11/K	lesson. Systematizes the material on the topic.
19.	300 1 H 1 3 1	M. J. 30, 190, 1	Communicates effectively in medical practice,
	2.0 M. Kr 3	1, 1410 Sign 1/1.	objectively conveys relevant information, knows and
$\Omega_{i,j}$	10 50 YD. 17	St. Vo. Sp. 417	uses the norms of ethics and deontology when
1	VO. 60, 7/7.	1 941, Vg. 600	performing
	th, vs. oo "F	1 3 1/11 23.	
1	, 10, 3, 9,	K 2, My	skill;
	G	ood O	- The student is well oriented when questioning and
V	Se Co	orresponds to B+	examining patients. Correctly selects questions when
7.		cores (3.33; 85-89%)	collecting anamnesis, accurately analyzes the main and
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(3.0; 80-84%)	secondary complaints, is well oriented in the collected
~Q)			
	70, Kr 22 B	- (2.67; 75-79%)	anamnesis of life and disease.
		+ (2.33; 70-74%)	-It is good to conduct a physical examination:
YO.	o you to the		
1/0	6/11/11/2	K, VO. OO. 11'L	- general examination (examination of the skin and
	segn. Kr 30	Killy Sien 911 .	- general examination (examination of the skin and subcutaneous fat, visible mucous membrane
	19.5 GIN. KY 310	skusi seguit	subcutaneous fat, visible mucous membrane,
SKI	igiegniki sk	7 skulgi en egir.	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood
SKI	kusiseniki se	1 3 skulgi sogning	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure);
SKY S	Kugiedniki se	1.K1 skugieniseli.k	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal
7	skugiedniki se	J.K. K. Skina. edi. Edi. K. Skina. edi. Edi. K. Skina. edi. Edi. K. Skina. edi. Edi. Edi. K. Skina. edi. Edi. Edi. Edi. Edi. Edi. Edi. Edi. E	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure);
X 7 X	skug egnik egnik	J.K.J. SKWa. S	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength,
7.4	ia.edu.kr. a.edu.kr. krna.edu.kr. a.edu.kr. 1. skrna.edu.kr. a.edu.kr.	ski kusi skusi edi i k	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis,
7 1.4	1. Kl. 1. Skulgisepi. Kl. Skulgisepi. Skulgisepi. Kl. Skulgisepi.	z skina. skina edi. k z skina edi. k z skina edi. k z skina edi. k	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity),
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	J.K. Skina edil.k.	2 skina. eu edu. skina. edu. skina. edu. kl. skina. edu. kl. skina. edu. kl. skina. edu. skina. edu. kl. skina.	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity), - Percussion (determination of comparative, topographic
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	is edu. Klaskus edu	na a eduku ku skina e	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity), - Percussion (determination of comparative, topographic boundaries of the lungs, area, excursion; determination
7 X X X	ig edn' ky kug edn' ky	na.edu.kl skina.edu.kl J. skina.edu.kl skina.edi J. kl skina.edu.kl J. kl skina.edu.kl	subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity), - Percussion (determination of comparative, topographic
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	Usice GOT IN TO SERVICE GOT	Makes a presumptive syndrome-based diagnosis	7
	Satisfactorily corresponds to points C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)	without substantiating the data. The student is able to navigate through questioning and examining patients, analyzes primary and secondary complaints with errors, and has poor understanding of the collected anamnesis of life and illness. There are errors in the 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, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity), Percussion (determination of comparative, topographic boundaries of the lungs, area, excursion; determination of 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, crepitations, pleural friction noise in the lungs; listening to normal and pathological heart tones and murmurs, diastolic and systolic murmur). Unable to compare relationship between the main symptoms and syndromes. Makes a presumptive syndrome-based diagnosis without substantiating the data Low level of communication in medical practice;	10 10 10 10 10 10 10 10 10 10 10 10 10 1
1/1	Unsatisfactory	subjectively conveys appropriate information; The student has no idea about the main and secondary).Y
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	corresponds to FX points (0.5; 25-49%)	complaints and is not familiar with the collected anamnesis of life and illness. - Is unable to carry out practical skills to interpret their results. Does not see the connection between objective physical examination data: - general examination (examination of the skin and subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure); - palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity), - Percussion (determination of comparative, topographic boundaries of the lungs, area, excursion; determination	12 / 13 / 13 / 13 / 13 / 13 / 13 / 13 /

Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus)

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Name of a tissue Character	an organ or	10	3.	21 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	0 11 1 3 34 10	
Evaluatio		Excellent	Good	Satisfactorily	Unsatisfactory	
	assessing answ			microscopic specime		
	s/conclusion	20	15	10	2000 6 90.10	
consister 5 Patholog	gical	11.12	CKWS.	· 60/11/4 2, 24	Kuis of egn (1) XI	
patholog Localiza shape (if condition bottom),	gical focus: ation, size, f an ulcer – n of the , color,	Kugisedo Kugisedo Kugisedo	usiednik inikrikt	1 Skiring Eding	igie egniii ky i skuigieg	
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Name of	f the organ	4	3	2	70 K SK 70	
Evaluat		Excellent	Good	Satisfactorily	Unsatisfactory	
Unsatisfacto corresponds scores (0; 0-		nds to F 0; 0-24%)	stomach, percussion syntage auscultation (listening breathing, wheezing, creating the lungs; listening to tones and murmurs, diasony at the lungs; listening to tones and murmurs, diasony at the lungs; listening to tones and murmurs, diasony at the lungs; listening to tones and murmurs, diasony at the lungs; listening to tones and murmurs, diasony at the lungs; listening to tones and murmurs, diasony at the lungs; listening the data and proper information, does use the norms of ethics at performing the skill. Grateacher's questions, without using specific terms and successful and succe		and vascular bundle; undaries of the liver, spleen and mptom); to vesicular and bronchial epitations, pleural friction noise o normal and pathological heart stolic and systolic murmur). table to compare relationship stoms and syndromes. Makes a based diagnosis without the group work. Incapable of ical practice; does not convey as not possess and is not able to and deontology when coss errors when answering the erminology in your answers.	

	localization, description	111000	n. Kr	2, My 30 90. 1	T SE WO SE YIV.
3	Coloring	100	1	1 50 100 300 700	OT 26 100 SO 11
4	Pathological diagnosis/conclusion	5 Skilling	4 600	2 5 5km na. ed	O. K. Skiller
5	Total	20	15	10 1 5 10	0 77. T Sp. 20.
1	2 2 14/10 3:0 4/0	Kr 5	11000	11. KT 24. Wo	8 47. KT 34. X

Checklist forSWIT /SIW

No.	Evaluation	Level	KL 55	W. S. M. K	St. Wo. 6, 47. 15
7.	criteria	Excellent	Good	Satisfactorily	Unsatisfactory
SIW	and SWIT:	100	10.10	St. Wo. En M.	KT 3K 20, 60 M
A NO	Presentation Defense	50	35	25 Km 25 ed	1. 0 3 sk kus 18 sc
2	Executionpractic al skills	50 SK KM	35	25 54 70	is of the second
	General:	100	70	50	00, 000

Form control	Grade	Evaluation criteria
Solving situational problems using tickets	"Excellent" 90-100%	The student accurately analyzes the main and secondary complaints, and is well oriented in the collected anamnesis of life and illness. Connects data from objective physical examination (palpation, auscultation, percussion), correctly interprets data from laboratory and instrumental studies. Able to evaluate pathophysiological patterns of research results. Finds and compares the relationship between the main symptoms and syndromes. Justifies and sets presumptive syndrome diagnosis. The student answered the question on the task without error based on understanding, knowledge and clinical thinking regarding the given clinical situation. Conducts basic physical research on a given problem using an algorithm without errors (practical skill #1) Conducts basic physical research on a given problem using an algorithm without errors (practical skill #2) The student is excellent at understanding primary and secondary complaints and is well oriented in the collected anamnesis of life and illness.
kT ekwaied ekwaiednik waiednik	"Good" 70-89%	 <u>Connects</u>data from objective physical examination (palpation, auscultation, percussion), incorrectly interprets data from laboratory and instrumental studies. There are errors in assessing the pathophysiological patterns of the research results. <u>Finds and compares</u> the relationship between the main symptoms and syndromes. <u>Puts</u> presumptive syndrome diagnosis without data

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Checklist for as Score in points By %	Unsatisfactory (0-49%)	Satisfactory (65-54%)	Good (70-89%)	Excellent (90-100%)
1 SK SKNOORS. 1.KL SKNOORS. 2.KL S	"Unsatisfactor y" 0-49%	Conducts basic phresh fundamental error. The student has not complaints and is life and illness. Doesn't see the companient of the examination (palpointerprets data from the Unable to evaluate results. Does not find and between the main puts presumptive stata. The student gave a task The demonstrated algorithm (practice)	sysical research on a sysical research on a sysical research on a sysical skill #2 o idea about the manot familiar with the ma	a given problem with) in and secondary ne collected anamnesis of objective physical percussion), incorrectly astrumental studies. al patterns of research
edu.kl.kl.s. ia edu.kl.kl.s. kna.edu.kl.s. ia edu.kl.kl.s. ia edu.kl.kl.s. ia edu.kl.kl.s. ia edu.kl.kl.s. ia edu.kl.kl.s.	"Satisfactory" 50-69%	errors and has poor of life and illness. Connects data from auscultation, perculaboratory and instruments. Unable to assess presults. Unable to compare symptoms and symptoms are symptoms and symptoms are symptoms.	n objective physica assion), correctly intrumental studies. The relationship be dromes. Syndrome diagnosis ared the question or owledge and clinical process.	patterns of research etween the main s without data n the problem without al thinking on the given a given problem with
king sking edu 1.K1 sking edu	Solo Segniniky	this clinical situati Conduct basic phy in the algorithm (p Conduct basic phy in the algorithm (p	on. vsical research on a practical skill #1) vsical research on a practical skill #2)	given problem with gaps given problem with gaps

Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus)

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Analysis contentsscientif ic article	1. Does not understand the	skug'egn'y	J.K. Sking, en	(introduction, materials and methods, Results and discussion - Conclusions
contentsscientif		, S' -A''; . O		- Bibliography
ina edu. kl jedu. kl jedu. kl jedu. kl jedu. kl jedu. kl jedu. kl jedu. kl jedu. kl	relevance of the problem, is not capable of discussion content of the article	1. Understan ds the relevance problems 2. Listspurpose of work, materials and methods used in the work 3. Understand s the content scientific article Listsconclusions, list of references in this article	1. Suggests relevance problems 2. Explains the purpose of the work, materials and methods used in the work presents the content of a scientific article 3. Justifies the conclusions 4. Justifiessele cted list of literature in this article	1. On one's ownsubstantiates and argues relevance of the problem 2. Explains the purpose of the work, used in the work Materials and methods 3. Freely expresses semantic content scientific article 4. Argues and justifies conclusions 5. Has the skill of using literature and justifies the selected list of references in this article
Answer to additional questions (on the topic of the article for the discipline)	1. Does not answer additional questions on the topic	1. Does not know the task at hand problem when answering additional questions	1. Applies the knowledge gained in practical training occupation knowledge on the topic when answering additional questions	1. Apply the knowledge gained during the practical lesson on the topic when answering additional questions, gives a deep and comprehensive argumentation

Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus)

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A	4.0	95-100	Excellent
A-	3.67	90-94	26 Wy 3'65 M. KJ 25 Wy 3'65 M
B+	3.33	85-89	Good
B	3.0	80-84	1 th 2 2 My 3:0 90. 15 26, 40 3:0
B	2.67	75-79	S. The Service Sign of the St. Mg
C+	2.33	70-74	300 1K 2 2 KUR 3 : 6 90. Kr 2 26 KU
30 1/1/C 3/1/	2.0	65-69	Satisfactorily
60 NC-11 6	1.67	60-64	3. 500 1/4 1 2, My 3. 900 1/4 2
D+	1.33	55-59	1, 03. 600 1/h 1 2, 1/4, 03. 690 1/h
(D-7/), (1.0	50-54	K1, 30, 600, 11/4, 1 2, K1, 35, 600, 11/4
FX	0.5	25-49	Unsatisfactory
SE OF N	10 %	0-24	1 34, 49. 60, 11. 14, 1 3, 341, 49. 690

11. Educational resources

Electronic resources

Propaedeutics of internal diseases

- Электронная библиотека ЮКМА https://e-lib.skma.edu.kz/genres
- Республиканская межвузовская электронная библиотека (РМЭБ) http://rmebrk.kz/
- Цифровая библиотека «Aknurpress» https://www.aknurpress.kz/
- Электронная библиотека «Эпиграф» http://www.elib.kz/
- Эпиграф портал мультимедийных учебников https://mbook.kz/ru/index/
- **36C IPR SMART** https://www.iprbookshop.ru/auth
- информационно-правовая система «Заң» https://zan.kz/ru
- Medline Ultimate EBSCO
- eBook Medical Collection EBSCO
- Scopus https://www.scopus.com/

Electronic textbooks

Propaedeutics of internal diseases

1) Ivashkin, VTInternal diseases propedeutics [Electronic resource]: textbook. - Electron. text data (142MB). - M: GEOTAR - Media, 2017. - email. wholesale Disk 2) Ishki aurular./Bimurzaev G.N., Zaripova G.K., 2020.

https://aknurpress.kz/reader/web/2594

- 3) Ishki aurular clinics. Erzhanova G.A., Mukhanova A.K.,
- 2016/https://aknurpress.kz/reader/web/2370
- 4) Ishki aurular propedeuticsynan zhafdayattyk tapsyrmalar

Orazova B.O., Marchenko T.V., 2016/https://aknurpress.kz/reader/web/2348

- 5) Akhmetov Kayyrgali Zhaleluly. Ishki aurular propaedeutics for clinics. Almaty: "Evero", 2020. 262 bet https://elib.kz/ru/search/read_book/22/
- 6) Internal non-infectious diseases with clinical radiological assessment KSU named after A. Baitursynov, 2011. 94 p. http://rmebrk.kz/book/1024356
- 7) Ajay K. Singh. Joseph Loscalzo. The Brigham Intensive Review of Internal Medicine Question and Answer Companion: Oxford: Oxford University Press. 2014 //eBook Collection EBSCO
- 8) Thomas Ciesielski .Washington Manual General Internal Medicine Consult: Third edition. Philadelphia: Wolters Kluwer Health. 2017 //eBook Collection EBSCO
- 9) Internal diseases. V. 1[Electronic resource]: textbook / ed. V. S. Moiseeva. 3rd ed., rev. and additionally Electron. text data (66.5MB). M.: GEOTAR Media, 2015. 960

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- 10) Internal diseases. V. 2 [Electronic resource]: textbook / ed. V. S. Moiseeva. 3rd ed., rev. and additionally - Electron. text data (45.1MB). - M.: GEOTAR - Media, 2015. -895
- 11) Propaedeutics of internal diseases: Textbook. / T.S. Ryabova, E.S. Ryss, V.Ya. Plotkin et al. - St. Petersburg: SpetsLit, 2015. - 414 p. http://rmebrk.kz/book/1174389
- 12) Internal diseases in the work of a general practitioner: Study guide. / K.Zh. Sadykova, Sh.U. Skenderova, S.K. Sattiev. - Turkestan: Turan, 2017. - 96 p.http://rmebrk.kz/book/1167635
- 13) Propaedeutics of Internal Diseases: Textbook. 6th ed., Volume I reworked and additional – Almaty: Evero, 2020. – 400 p. https://elib.kz/ru/search/read book/676/
- 14) Propaedeutics of Internal Diseases: Textbook. 6th ed., II volumerevised and enlarged (Textbook for students of medical universities). – Almaty: Evero, 2020. 212 p.https://elib.kz/ru/search/read_book/682
- 15) Propaedeutics of Internal Diseases: Textbook. 6th ed., III volume revised and supplemented. (Textbook. Literature for students of medical universities). - Almaty: Evero, 2020. - 208 p. https://elib.kz/ru/search/read_book/684/
- 16) Nursultanova S.D., Bakirova R.E., Mamashalieva S.B., Bekov E.K., Madieva L.S. Zhurek tamyr zhuyesinin aurular bar naukastardy tekseru ədisi zhəne tekhnikasy. Oku-ədistemelik kural.- Almaty, "Evero" baspasy. -2020.

https://elib.kz/ru/search/read book/705/

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- 17) Ishki afza aurular propaedeutics. Okulyk Aitmbet B.11 Almaty "Evero" 2018, 568 bet. https://elib.kz/ru/search/read_book/3086/
- 18) Stryuk, Raisa Ivanovna. Internale diseases: in 3 parts: Part 1 textbook / R. I. Stryuk, I. V. Maey; [First. Moscow State Medical University named after I. M. Sechenov]. - Almaty: Evero, 2016. - URL:

http://elib.kz/ru/search/read_book/2766/.

19) Stryuk, Raisa Ivanovna. Internale diseases: in 3 parts: Part 2 textbook / R. I. Stryuk, I. V. Maev - Almaty: Evero, 2016. -

URL:https://elib.kz/ru/search/read_book/2767/

20) Stryuk, Raisa Ivanovna. Internale diseases: in 3 parts: Part 3 textbook / R. I. Stryuk, I. V. Maev. - Almaty: Evero, 2016. -

URL:https://elib.kz/ru/search/read_book/2768/

- 21) Pimenov, Yu. S. Internal Medicine. Volume 1: study guide / Yu. S. Pimenov, I. V. Roganova, L. N. Finko. - Moscow: REAVIZ, 2008. - 146 p. / Digital educational resource IPR SMART:https://www.iprbookshop.ru/10141.html
- 22) Roganova, I. V. Internal Medicine. Volume 2: study guide / I. V. Roganova, V. F. Roganov, I. O. Prokhorenko. - Moscow: REAVIZ, 2008. - 132 p. / Digital educational resource IPR SMART:https://www.iprbookshop.ru/10142.html
- 23) Clinical tasks in internal medicine: a tutorial / R. I. Saifutdinov, L. K. Kozlova, O. V. Bugrova [et al.]. - Orenburg: Orenburg State Medical Academy, 2012. - 152 p. URL:https://www.iprbookshop.ru/21817.html

Pathological physiology:

1. Pathological physiology. Tazhiribelik sabaktarga nuskau [Electronic resource]: oku kuraly = Pathophysiology. Guide to practical exercises: textbook / Kaz. tiline aud. S. B. Zhutikova; ed. V. V. Novitsky. - Electron. text data (63.4MB). - M.: GEOTAR Media, 2014. - 768 bet. email wholesale disk (CD-ROM)

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- 2. Adam physiology. Dynamics syzbalar atlases [Electronic resource]: okulyk / K. V. Sudakov [reinforced concrete]; Kazak tel. room M.K. Kankozha. Electron. text data (105MB). M.: GEOTAR Media, 2017. 464b.
- 3. Pathological physiology. Doszhanova M.P. , Almaty: Evero, 2015 Central Bank Aknurpress / https://www.aknurpress.kz/reader/web/2476
- 4. Kravtsov V.I. et al. Test tasks on pathological physiology with elements of profiling / Edited by professor V.I. Kravtsov. Almaty: Evero, 2020. 116 p. https://www.elib.kz/ru/search/read_book/472/
- 5. Kravtsov V.I. et al. Test tasks on pathological physiology with elements of profiling / Edited by professor V.I. Kravtsov. Almaty: Evero, 2020. 128 p. https://www.elib.kz/ru/search/read_book/471/
- 6. Kravtsov V.I. et al. Test tasks on pathological physiology with elements of profiling / Edited by professor V.I. Kravtsov. Almaty: Evero, 2020. 104 p. https://www.elib.kz/ru/search/read_book/473/
- 7. Pathological physiology: volume 2. Okulyk/Kazakh tiline audargan, zhauapt editor Zh.B. Akhmetov., Almaty: Evero, 2020 200 https://www.elib.kz/ru/search/read_book/91/
- 8. Pathological physiology: 1 volume. Okulyk/Kazak tiline audargan, zhauapt editor Zh.B.Akhmetov., Almaty: Evero, 2020 240 p. https://www.elib.kz/ru/search/read_book/88/
- 9. Pathological Physiology: Textbook for Medical Universities. Volume 2. Almaty: Evero, 2020 216 https://www.elib.kz/ru/search/read_book/98/
- 10. Ado A.D., Ado M.L., Pytskogo V.I., Poryadina G.V., Vladimirova Yu.L. Pathological physiology: textbook for medical universities. Volume 1. Almaty: Evero, 2020 248 p. https://www.elib.kz/ru/search/read_book/96/
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12. Discipline Policy

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Requirements for students, attendance, behavior, grading policies, penalties, incentives, etc.

- observe medical ethics and deontology;
- no smoking in the academy;
- maintain cleanliness in the department;
- do not damage furniture in clasSIW oms;
- treat textbooks with care;
- maintain the appearance of a medical university student;
- maintain personal hygienestudents (short and clean nails, clean and ironed medical uniform, special change of shoes)
- observe safety regulations;
- during quarantine, wear medical masks and comply with sanitary and epidemiological regulations;
- do not miss classes without a good reason;

- classes missed for a valid reason must be made up in a timely manner, but only with permission from the dean's office and at a time determined by the teacher;
- don't be late for classes;
- have the necessary documentation in class: syllabus, methodological instructions for classes, lectures, notebook and textbook;
- prepare conscientiously for classes and lectures;
- be active during classes;
- do not engage in other activities during classes: do not talk, do not smoke, do not chew gum, do not eat food, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for classes in another subject;
- maintain silence and order during breaks;
- implement SLO in a timely manner.

Penalties for failure to complete sections of the work:

- if you miss lectures without a valid reason, your grade for the midterm assessment will be reduced
- − 1 point for each missed lecture;

If you miss a SLO without a valid reason, your midterm assessment score will be reduced by 2 points for each missed lesson;

- in case of a single violation of the discipline policy, the student is given a warning;

In case of systematic violation of the discipline policy, information about the student's behavior is transferred to the faculty dean's office.

Criteria for non-admission to final control:

A student who has received an unsatisfactory grade for one of the types of assessments (RC 1, RC 2, average assessment of the current assessment) is not admitted to the final assessment for the discipline.

13. Academic policy based on moral and ethical values of JSC "UKMA"

Academic policy based on the moral and ethical values of the academy

Regulations and Rules of YUKMA. Academic policy. P.4. Code of honor of the student

P.10. Organization of the educational process P.12. Grading policy

The final grade is calculated automatically based on the average grade of the current control, the average grade of the midterm control and the grade of the final control.

Final assessment(100%) = RD (60%) + IR (40%)

RD(60%) = RKsr(20%) + TKsr(40%)

 $\mathbf{RKSR} = (\mathbf{PK1} + \mathbf{PK2}): 2$

Final assessment(100%) = PKcp x 0.2 + TKcp x 0.4 + UK x 0.4

RD- admission rating

IR- assessment of the final control

RKSR– average grade of the final assessment taking into account penalty points

TKSR- average assessment of current control taking into account SIW

RK1- midterm control 1

RK2- boundary control 2

ONTÚSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN MEDICAL

ACADEMY AO «Южно-Казахстанская медицинская академия»

Department of Propaedeutics of Internal Medicine, Department of Pathology and Forensic Medicine, Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Working curriculum of the discipline "Digestive and endocrine systems in pathology" (Syllabus)

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«16» 0 6 2025	King Wigge	Department of Pathology and Forensic Medicine, MD, Acting Professor Sadykova A.Sh.	1. Office	
« <u>Lb»</u> 06 2025	1 Skyling	Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology PhD, Associate Professor, Acting Professor Toksanbaeva Zh.S.	Mefes	
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