#### OŃTÚSTIK QAZAQSTAN **MEDISINA**

**AKADEMIASY** 

SOUTH KAZAKHSTAN **MEDICAL ACADEMY** 



«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.1 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

#### **Syllabus**

**Department of Morphophysiology Department of Biology and Biochemistry** Department of Phthisiopulmonology and Radiology **Department of Introduction to Clinic** 

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

1.	General information about the discipline		
1.1	Course code: NDES 2208	1.6	Academic year: 2024-2025
1.2	<b>Title of the course:</b> "The digestive and endocrine systems	1.7	Course: 2
	in the norm."		
1.3	<b>Prerequisites</b> : Introduction to the profession, Structural	1.8	Semester: 3
	organization of human physiological processes		
1.4	Postrequisites: general pathology, digestive and	1.9	Number of credits (ECTS): 6
	endocrine systems in pathology		
	Cycle: AP	1.10	Component: SW
2.	Description of the discipline		

Formation of fundamental knowledge about the morphofunctional and biochemical features of the digestive and endocrine systems. Anatomy of the digestive and endocrine systems. Visual research methods. Pre-medical care and patient-centered care skills.

3.	Summative Assessment Form		
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	Other (specify)

#### **Objectives of the discipline**

To develop in students a set of knowledge and understanding about the morphofunctional and biochemical features of the digestive and endocrine systems, the anatomy of the digestive organs and the endocrine system by studying visual

	gestive and endocrine systems, the anatomy of the digestive originals and the endocrine system by studying visual								
research	methods, as well as the development of pre-medical care skills for patients.								
5.	Final learning outcomes (LO of the discipline)								
PO1	Knows and understands the morphofunctional and biochemical features of the digestive and endocrine systems, the anatomy of the digestive organs and the endocrine system through the study of histological, biochemical and visual research methods								
PO 2	Demonstrates readiness to collect and analyze patient complaints, medical history data, examination results, laboratory, instrumental and other studies in order to recognize a condition or establish the presence or absence of a disease in order to monitor and care for patients.								
PO3	Applies knowledge of the structure and topography of organs and systems to master the skills of physical examination and providing first aid.								
PO4	Analyzes information obtained during histological and biochemical observations and determines their significance for characterizing the state of the body.								
PO5	Compares the results of observations with data obtained from modern sources of information, draws conclusions based on the results and explains the algorithms for conducting laboratory, instrumental and radiation research methods.								
5.1	LO disciplines Learning outcomes of the EP, which are associated with the discipline LO								

<u>~96</u>> SKMA -1979-**MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN

**MEDICAL ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.2 out of 52

	1		,																
	LO 1					. •				wledge i	n bio	omedi	cal, cl	linica	ıl, epi	demi	ological	and soc	cial-
	LO 2			behav	ioral	scien	ices in	prac	tice										
	LO 3																		
	LO 4									d care in									
	LO 5			•		gical	scien	ces a	imed	at diagr	iosin	g, trea	iting,	and j	preve	nting	the mo	st comm	ion
				diseas					• .										
						•		resu	lts of	the con	ducte	ed rese	earch	and l	nis pr	ofessi	ional ac	tivities b	oased
				on sci															
6.		iled infor																	
6.1		location																	sement
		internal																	CI.
		ocation o																	
		ocation o				of P	'hthisi	opuli	monc	ology and	d Ra	diolog	y: Cl	ınıc	"Eskı	ılap",	Sairam	iskaya si	tr. 198
		nail - el_1					ст.	1 .		1 .		C1	1	, 01			3'. M	14: 1: -:	1.
		location															ity Mu	ıltıdıscı	olinary
		ital, No. 2		Lnanac				iular,						na@i				CIVIT	7
6.2	180	ber of ho	urs			Lect	ures			actical		Labora	•		SI	VV		SIWT	-
	180					1/	<u> </u>		ie	ssons		wor	KS		1 (	0		102	
( )	C41-	1 C	41	! . 1! .		12	<u> </u>			48					18	8		102	
6.3	Study	plan for	the ai	_ ^		1		_	7	0	0	10	11	12	12	1.4	1.5	TT	Cond
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Hour	Cred it
																			It
Anaton	ıv	Lec	1						1			1		1				4	2,0
Tinaton	19	Pr	3				3		3		3	1	2	-		2		16	2,0
		SIW/SI		1/6				1/		2/6				1/		1/5		6	
		WT						6		Midte				6					
										rm-1									
Physiol	ogy	Lec		1						1			1					3	1,5
		Pr	4.00	2				2		2				2		2	2	12	
		SIW/SI	1/3				1/5										2/5	4	
		WT															Midt erm-		
																	2		
Histolo	σv	Lec			1						1							2	1,0
11150010	5)	Pr			1			1		1			1		2		2	8	1,0
		SIW/SI	1/3						1/				1/					3	
		WT							6				6						
Biocher	mistr	Lec					1											1	0,5
у				1		<u> </u>			ļ			1			ļ	ļ			ļ
		Pr		1		1					4	1		1				4	<u> </u>
		SIW/SI									1/5							1	
Basics	of	WT Lec		-				1		-							-	1	0,5
radiolog		Lec						1										1	0,3
14410108	5 <b>)</b>	Pr		1	2							2						4	
		SIW/SI		<u> </u>	1/6							1/						2	
		WT			1,0							5							
Introdu	ction	Lec				1												1	0,5
to the C	Clinic																		
		Pr				2									2			4	

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

#### Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.3 out of 52

	SIW/SI WT		1/5								1/			2	
7.	Information ab	out teach									0				
<u>No</u>	Information an	Full name			T 1	Degrees a	nd Po	sition				En	nail add	ress	
1.	Tanabayev Baima					ad of Dep	partme	nt, Ph		b.tai	nabay		mail.ru	2000	
2.	Murzanova Dinar	· Alpanovna			I	Acting PhD, Acti				dino	mur	70001	⁄a@gma	il com	
3.	Turekulova Akjar					nior Lect						@ma		II.COIII	
٥.			oviia		36	de	gree		5	,					
4.	Daken Tolenovich					Senior							@list.ru		
5.	Dzhubanishbaeva		-	a		Senior Lecturer, Master's degree							rat@mai	l.ru	
6.	Sisabekov Kasym	nkhan Erme	kbaevich		Prof	Professor, Doctor of Medical Sciences						v47@	mail.ru		
7.	Jumashev Seydaly	umashev Seydaly Nurakhovich  Soimbetova Karlygash Abibullaevna			Act	ing profe Medica			of	sult_	_med	l@ma	il.ru		
8.	Toimbetova Karlygash Abibullaevna					Senior	Lectu	rer					@mail.ru	1	
9.		Duysembiyeva Jazira Mereyovna				teacher					zhazira-0508@mail.ru				
10.	Zhakipbekova Ga	Zhakipbekova Galia Saparovna			Не	Head of Department, PhD, Acting Professor				Gali	Galiya_074@mail.ru				
11.	Satybaldieva Naz	gul Mutalkl	nanovna		N	laster's d			r	n_a_	_z_i_	92@r	mail.ru		
12.	Murina Natalia M	likhailovna				Senior		rer		nam	nuri12	2@ma	ail.ru		
13.	Azimbaeva Saule		novna		M	laster's d			r		saule.a@mail.ru				
14.	Kenzhebekov Per	nebek Kenz	hebekovicl	1		PhD, 1				kenz	kenzhebekov.p @gmail.com				
15.	Ordabekova Asm	ira Baltabay	/evna		Ma	Master's degree in biology, senior lecturer					asmira75@mail.ru				
16.	Asilbekova Gulsh	nahar Kenes	bekovna		Ma	ster's deg senior	ree in lectur		gy,	shah	nats@	mail.	.ru		
17.	Kanzhigitova Mo	ldir Zharky	nbekovna		Ma	ster's deg senior	ree in lectur		gy,						
18.	Beisebaeva Lyazz	zat Mukhtar	ovna			Senior	Lectu	rer		lyzz	atb70	0@lis	t.ru		
19.	Zhienbaeva Aliya	Altbayevn	a			tea	acher								
20.	Umurzakova Gau	har Amang	eldievna			departme	nt assi	stant		visu	ıal_di	iagnos	stics@m	al.ru	
21.	Umiraliyev Asset					departme							ev.72@n	nail.ru	
22.	Тулегенова Айгу	уль Асанба	евна	·		departme	nt assi	stant		taa8009@ma			.ru		
23.	Zhumadilova Akr	maral Rahm	atullaevna		5	Вав.кафед и.о.д	црой, в оцента			akmaral-			akmaral-aru@mail.ru		
24.	4. Ababakirova Dilsara Talibbaevna						istant			dilsara_ababakirova@mail.ru					
25.	Yermolaeva Olga	Alexandro	vna			ass	istant						nail.ru		

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY SCHAA

SKMA

-1979
ACADEMY

ACADEMY

ACADEMY

ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.4 out of 52

Day	Form of the lesson	Topic Title	Summary	LO disci pline s	Nu mb er of ho urs	Teaching methods/tec hnologies	Forms/ methods of assessmen t
1 day	Anatomy.  Lecture 1.	Morphofunction al characteristics of the organs of the oral cavity and pharynx	Oral cavity, lips, hard palate, soft palate, teeth, tongue. Glands of the oral cavity. Pharynx.	LO1	1	Introduction	Feedback (test questions)
	Anatomy.  Practical lesson 1.	Oral cavity, tongue, palate, teeth, salivary glands, pharynx, esophagus: structure, topography, functions	Oral cavity, lips, tongue, hard and soft palate, teeth, salivary glands, pharynx, esophagus: structure, topography, functions, blood supply, venous and lymphatic drainage, innervation.	LO1	3	work in small groups with anatomical preparations, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral Questioni ng Checklist; Situational Task Solution Checklist; Test Task Completio n Checklist
	Physiology SIW/SIWT1	Food motivation. Physiological bases of hunger and satiety. Physiological norms of nutrition. Physiological bases of rational nutrition. Metabolism and energy.	The concept of food motivation. Characteristics of hunger and satiety centers. Physiological norms of nutrition in different age groups. Characteristics of rational nutrition. The importance of metabolism and energy. Methods for determining the body's energy expenditure (direct and indirect calorimetry).	LO1	1/3	Preparation and defense of an abstract and presentation	Checklist
	Histology SIW/SIWT1	APUDsystem.	Hormones and their importance in the body. Concept of target cells and receptors to hormones.	LO 1 LO 2	1/3	Work in small groups, presentation defense,	Checklist for SIW assessmen t

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN

SKMA
-1979ACADEMY

ACADEMY

AO «Южно-Казахо

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.5 out of 52

			Structure and importance of the diffuse endocrine system.			glossary compilation.	
2Day	Anatomy SIW/SIWT1.	Blood supply, venous and lymphatic drainage, innervation of the stomach, small and large intestines.	Stomach, small and large intestine: blood supply, venous and lymphatic drainage, innervation.	LO1	1/6	Consultation on the most complex issues of the curriculum when performing SIW, work with educational literature, passing SIW in the form of: -Description of an anatomical preparation on the anatomical panel "Pirogov" -presentation	Assessme nt sheets for specific forms of completed assignmen ts
	Physiology Lecture 1	General characteristics of the digestive system.	Physiological features of the digestive system.	LO1	1	Introduction	Feedback (test questions)
	Physiology Practical lesson 1	Digestion in the mouth and stomach.	Functions of the gastrointestinal tract. The concept of digestion. Types of digestion. Physical and chemical processing of food in the oral cavity and stomach. Composition and functions of saliva. Enzymatic properties of gastric juice. Clinical and physiological research methods	LO1	2	discussion of the main issues of the topic, practical work, test assignments, solving situational problems	Oral survey, assessmen t of practical work, assessmen t of test assignmen ts, assessmen t of situational problem solving
	Biochemistry Practical lesson 1	Biochemistry of digestion. Metabolism of substances.	Biochemistry of digestion. Stages of energy metabolism in the body. Features of carbohydrate,	LO1 LO2	1	Seminar, situational tasks, testing	Checklist

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN

SKMA
-1979ACADEMY

ACADEMY

AO «Южно-Казахо

«Оңтүстік Қазақстан медицина академиясы» АҚ

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.6 out of 52

		Bioenergetics.	lipid, protein and amino acid metabolism in the norm. Vitamins.				
3Day	Histology Lecture 1	Histological structure of the endocrine system.	Morphofunctional characteristics of the endocrine system. Classification, sources and development. Features of the hypothalamus structure. Structure of the pituitary gland. Epiphysis. Structure of the thyroid gland. Parathyroid glands. Adrenal glands, cortex and medulla.	LO 1 LO 4	1	Overview lecture.	Answers to control questions.
	Histology Practical lesson 1	Peripheral organs of the endocrine system.	Structure of the thyroid gland. Parathyroid glands. Adrenal glands, cortex and medulla.	LO 1 LO 4	1	Work in small groups, checklist of histological preparations, microphotogr aphs	Practical Lesson Assessme nt Checklist.
	Basics of Radiology Practical Lesson 1	Radiation diagnostics of the digestive system. Basic methods of radiation diagnostics.	Radiation diagnostics of the digestive system. Basic methods of radiation diagnostics.	LO 2 LO 3 LO 5	2	Discussion, working with the provided radiological images	Oral questionin g, descriptio n of images, solving test tasks, solving crossword s, working with radiologic al images
	Fundamentals of radiological diagnostics SIW/SIWT1	Radiological diagnostics of intestinal obstruction.	Radiological diagnostics of intestinal obstruction.	LO 2 LO 4 LO 5	1/6	Preparation of presentations , compilation of crosswords, test assignments, situational tasks, work	Presentati on defense, crossword puzzle solving, test assignmen ts, situational

**MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ SKMA -1979-**MEDICAL** 

<u>~96</u>>

**ACADEMY** 

SOUTH KAZAKHSTAN

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.7 out of 52

						with radiological images	tasks, working with radiologic al images
4Day	Biochemistry Practical lesson 2	Enzymology.	Enzymology. Enzymes involved in the metabolism of proteins, fats and carbohydrates. Mechanism of enzyme action. Kinetics of enzymatic reactions.	LO1 LO2	1	Seminar, situational tasks, testing	Checklist
	Introduction to the clinic.  Lecture 1.	First aid for diseases of the digestive organs and endocrine system.	Symptoms of Digestive System Disorders. Principles of First Aid for Acute Abdominal Pain. First Aid for Abdominal Pain and Gastrointestinal Bleeding	LO 1 LO 2 LO 4 LO 5	1	Overview lecture	Feedback
	Introduction to the Clinic. Practical Session 1.	Methods of questioning complaints, anamnesis of the disease and life of a patient with diseases of the gastrointestinal tract.	Sequence and plan for filling out a patient's medical record. Title page. Passport data. Sequence and rules for describing a patient. The concept of active questioning of a patient. Sequence of conducting a general examination of a patient: conditions, rules and technique.	LO 1 LO 2 LO 5	1	Completing test assignments, solving clinical problems, performing practical work	Completin g test assignmen ts, solving clinical problems.
		Pre-hospital care for gastric and intestinal dyspepsia.	Causes of abdominal pain and gastrointestinal bleeding. Clinical manifestations of abdominal pain and gastrointestinal bleeding. Algorithm for providing first aid for abdominal pain and gastrointestinal bleeding.	LO 1 LO 2 LO 5	1	Completing test assignments, solving clinical problems, performing practical work	Completin g test assignmen ts, solving clinical problems.
	Introduction to the Clinic. SIW/SIWT1.	Clinical manifestations of dyspeptic disorders.	Dyspeptic disorders: nausea, vomiting, belching, heartburn, bloating. Details of symptoms, severity, connection with food intake, its quantity and	LO 1 LO 2 LO 5	1/5	Working with electronic information resources. Preparing a presentation,	Protection of presentatio ns, mind maps, test tasks

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN **MEDICAL** 

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.8 out of 52

			quality.			preparing a mind map, compiling test assignments.	
5Day	Anatomy. Practical lesson 2.	Stomach, small and large intestine: structure, topography, functions.	Stomach, small and large intestine: structure, topography, functions, blood supply, venous and lymphatic drainage, innervation.	LO1	3	work in small groups with anatomical specimens, torsos, dummies, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral Questioni ng Checklist; Situational Task Solution Checklist; Test Task Completio n Checklist
	Physiology SIW/SIWT2 Consultation on the implementatio n of SIW	Humoral regulation of functions. Age- related features.	Endocrine glands (pituitary gland, thyroid gland, parathyroid glands, thymus gland) and their hormones. Mechanism of action of hormones. Age- related features.	LO1	1/5	Preparation and defense of the presentation	Checklist
	Biochemistry Lecture 1	Biochemistry of digestion. Biochemistry of hormones.	Biochemistry of digestion. Biochemistry of hormones.	LO 1 LO 2	1	Overview	Feedback Questions

**MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ SOUTH KAZAKHSTAN **MEDICAL ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

2962

SKMA -1979-

p.9 out of 52

6Day	Anatomy SIW/SIWT2	Features of the structure, function of the liver, gallbladder and pancreas in children	Anatomical and physiological features of the liver and pancreas in children. Development of the pancreas. Intrahepatic and extrahepatic bile ducts. Common bile duct, gallbladder.	LO1	1/6	Consultation on the most complex issues of the curriculum when performing SRO, work with educational literature, passing SRO in the form of: -Description of an anatomical preparation on the anatomical panel "Pirogov" -presentation	Assessme nt sheets for specific forms of completed assignmen ts
	Physiology Practical Lesson 2	Functions of the small and large intestines.	The role of the small and large intestines in digestion.	LO1	2	discussion of the main issues of the topic, practical work, test assignments, solving situational problems	Oral survey, assessmen t of practical work, assessmen t of test assignmen ts, assessmen t of situational problem solving
	Histology Practical lesson 2	Peripheral organs of the endocrine system.	Structure of the thyroid gland. Parathyroid glands. Adrenal glands, cortex and medulla.	LO 1 LO 4	1	Work in small groups, checklist of histological preparations, microphotogr aphs	Practical Lesson Assessme nt Checklist.
	Basics of Radiology	Radiation diagnostics of the digestive system. Basic	Radiation diagnostics of the digestive system. Basic methods of radiation diagnostics of	LO2	1	Overview illustrative	Feedback

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

SCHA MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.10 out of 52

	Lecture 1	methods of radiation diagnostics of the gastrointestinal tract	the gastrointestinal tract				
7Day	Anatomy. Lecture 2.	Anatomy of the esophagus, stomach, small and large intestines	Esophagus, stomach, small intestine and large intestine.	LO1	1	Overview	Feedback (test questions)
	Anatomy. Practical lesson 3.	Liver, gallbladder, pancreas: structure, topography, functions.	Structure of the liver, gall bladder. Ligaments of the liver. Segmental structure of the liver. Structure of the pancreas. Blood supply, venous and lymphatic outflow, innervation.	LO1	3	work in small groups with anatomical specimens, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral Questioni ng Checklist; Situational Task Solution Checklist; Test Task Completio n Checklist
	Histology SIW/SIWT2	Major salivary glands.	General plan of the structure of the major and minor salivary glands.	LO 1 LO 4	1/6	Work in small groups, presentation defense, glossary compilation.	Checklist for evaluation SIW
8день	Anatomy. SIW/SIWT3	Midterm 1.	Consolidation of the material covered on the topics of the lecture, practical lesson, SRO and SRO	LO1	2/6	Written solution of integrated situational problems	Checklist for completin g integrated situational tasks

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN **MEDICAL** 

ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.11 out of 52

Physiology Lecture 2	ture 2 liver and pancreas in digestion. The role of the microflora of the large intestine. Defecation.  The role of the liver and properties of bile,		LO1	1	Introduction	Feedback (test questions)
Physiology Practical Lesson 3	liver and pancreas in the digestion	properties of bile, pancreatic, intestinal juices and their role in the hydrolysis and absorption	LO1	2	discussion of the main issues of the topic, practical work, test assignments, solving situational problems	Oral survey, assessmen t of practical work, assessmen t of test assignmen ts, assessmen t of situational problem solving
Histology Practical lesson 3	Organs of the oral cavity	Morphofunctional characteristics of the digestive system. Sources and course of embryonic development. Tonsils. Histophysiology of the esophagus.	LO 1 LO 4	1	Work in small groups, checklist of histo preparations, microphotogr aphs	Practical Lesson Assessme nt Checklist.

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY SCHAA SCADENY SKMA MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.12 out of 52

9Day	Practical lesson 4.  Practical lesson 4.  Cavity, pelvic cavity. Peritoneum, course of peritoneum. Floors of peritoneum at its derivatives.  Histology Lecture 2  Histological structure of the digestive system.  Biochemistry.  Composition human food. Structure and biological functions of coenzymes.  Anatomy. Lecture 3.  Features of the structure of the liver, pancrea The peritoneus and its derivatives.  Biochemistry Practical  The role of the liver in	cavity, pelvic cavity. Peritoneum, course of peritoneum.	Abdominal cavity, pelvic cavity. Peritoneum, course of peritoneum. Floors of peritoneum and its derivatives.	LO1	3	work in small groups with anatomical specimens, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral Questioni ng Checklist; Situational Task Solution Checklist; Test Task Completio n Checklist
	Lecture 2 structure of the digestive characteristics of the organs of the oral cavity,		LO 1 LO 4	1	Overview lecture.	Answers to security questions.	
		Structure and biological functions of	Composition of human food. Structure and biological functions of coenzymes.	LO1 LO2	1/5	Essay, presentation, glossary	Checklist for SIW assessmen t.
10 Day	Lecture 3.  structure of the liver, pancreas. The peritoneum and its  bladder. Topography of the liver. Ligaments of the liver. Segmental structure of the liver. Structure of		bladder. Topography of the liver. Ligaments of the liver. Segmental structure of the liver. Structure of the pancreas. Peritoneum and its derivatives. Floors	LO 1	1	Overview	Feedback (test questions)
		The role of the liver in metabolism.	The role of the liver in metabolism. The detoxifying function of	LO 1 LO2	1	Seminar, situational tasks, testing	Checklist

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



АСАДЕМУ
АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.13 out of 52

		the liver.				
Basics of Radiology Practical Lesson 2	Radiation methods of examination of the gastrointestinal tract. X-ray anatomy of the esophagus, stomach.	Radiation methods of examination of the gastrointestinal tract. X-ray anatomy of the esophagus, stomach.	LO 2 LO 5	2	Discussion, working with the provided radiological images	Oral survey, descriptio n of images, solving test tasks, solving crossword s, working with radiologic al images.
Fundamentals of SIW/SIWT2 radiology	Radiological diagnostics of diseases of the liver, gallbladder, pancreas	Radiation diagnostics of diseases of the liver, gall bladder, pancreas research.	LO 2 LO 5	1/5	Preparation of presentations , compilation of crosswords, test assignments, situational tasks, work with radiological images	Presentati on defense, crossword puzzle solving, test assignmen ts, situational tasks, working with radiologic al images

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

SKMA -1979-

SOUTH KAZAKHSTAN MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.14 out of 52

11 Day	Anatomy. Practical lesson 5.	Endocrine glands of the branchiogenic and neurogenic groups: structure, functions.	General anatomical and physiological properties of the endocrine glands. Branchiogenic group: thyroid gland, parathyroid glands, thymus gland. Neurogenic group: pituitary gland and pineal body (epiphysis). Blood supply, venous and lymphatic outflow, innervation.	LO1	2	work in small groups with anatomical specimens, torsos, dummies, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral Questioni ng Checklist; Situational Task Solution Checklist; Test Task Completio n Checklist
	Physiology Lecture 3	Hormonal regulation of physiological functions.	General properties of hormones, classification. Hypothalamic-pituitary- adrenal system. Endocrine glands	LO1	1	Introduction	Feedback (test questions)
	Histology.  Practical lesson 4	Stomach.	n. Structure of the stomach wall.  Cardiac, pyloric and proper glands of the stomach		1	Work in small groups, checklist of histo preparations, microphotogr aphs	Practical Lesson Assessme nt Checklist.
	Histology SIW/SIWT3			LO 1 LO 2	1/6	Work in small groups, presentation defense, glossary compilation.	Checklist for SIW assessmen t

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

SKMA -1979 -

2962

SOUTH KAZAKHSTAN MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.15 out of 52

12 Day	Anatomy. Lecture 4.	Morphofunction al characteristics of the organs of the endocrine apparatus, their role in regulating the activity of organs and systems of the body.	Branchiogenic group: Thyroid gland. Parathyroid glands. Thymus gland. Neurogenic group: Pituitary gland. Pineal gland. Adrenal system group. Mesodermal glands. Endodermal glands of the intestinal tube.	LOI	1	Overview	Feedback (test questions)
	Anatomy. SIW/SIWT 4	Malformations of the digestive tract.	Malformations of the hard palate. Atresia of the esophagus, anus and rectum.	LO1	1/6	Consultation on the most complex issues of the curriculum when performing SRO, work with educational literature, passing SRO in the form of: -Description of an anatomical preparation on the anatomical panel "Pirogov"-presentation	Assessme nt sheets for specific forms of completed assignmen ts
	Physiology Practical lesson 4	Endocrine glands. General characteristics of endocrine glands.	Endocrine glands (pituitary gland, thyroid gland, parathyroid glands, thymus gland) and their hormones.	LO1	2	обсуждение основных вопросов темы, выполнение практическо й работы, выполнение тестовых заданий, решение ситуационных задач	Oral survey, assessmen t of practical work, assessmen t of test assignmen ts, assessmen t of situational problem solving

MEDISINA AKADEMIASY SCHA MEDICAL ACADEMY

**ACADEMY** AO «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ АО «Южно Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology

p.16 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

Department of Introduction to Clinic

	Biochemistry Practical lesson 4	Biochemistry of hormones.	estine. Structure of the small intestine wall. Crypt villi and their role in digestion of complications. Gastric lavage technique. Preparing the patient for surgery. Enemas.  Complaints of endocrine system disease (increased mental excitability, their sleep disorders, irritability, sweating, palpitations, frequent stools, muscle		1	Seminar, situational tasks, testing.	Checklist
13 Day	Histology Practical lesson 5	Small intestine.	Structure of the small intestine wall. Crypt villi and their role in digestion.	LO 1 LO 3 LO 4	2	Work in small groups, checklist of histo preparations, microphotogr aphs	Practical Lesson Assessme nt Checklist.
	Introduction to the clinic.  Practical lesson 2.	intestine wall. Crypt vil and their role in digestic and their role in dige		LO 1 LO 4 LO5	1	Completing test assignments, solving clinical problems, performing practical work	Completin g test tasks, solving clinical problems. Checklist "Gastric lavage method".
		complaints in diseases of the endocrine system, their diagnostic value. History of the disease,	endocrine system disease (increased mental excitability, sleep disorders, irritability, sweating, palpitations, frequent	LO 1 LO 4 LO5	1	Completing test assignments, solving clinical problems, performing practical work	Completin g test tasks, solving clinical problems.
	Introduction to	Changes in appetite, taste perversion,	Concept. Causes. Symptoms of the disease. Detailing of symptoms,	LO 1 LO 2 LO 4	1/6	Working with electronic	Protection of presentatio

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ SOUTH KAZAKHSTAN

SKMA

MEDICAL

ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.17 out of 52

	Anatomy SIW/SIWT 5  Age-related features of endocrine glands.	movement disorders (diarrhea, constipation, flatulence). Clinical and laboratory characteristics of the main clinical syndromes of the endocrine	degree of severity, connection with food intake, its quantity and quality. Algorithm for examination of the thyroid gland. Methods of examination of the thyroid gland. Inspection. Primary examination of the thyroid gland	LO 5		information resources. Preparing a presentation, crossword, preparing a mind map, compiling test assignments.	ns, crosswords , mind maps, test tasks
14 Day	Practical	glands of the adrenal, mesodermal and endodermal groups: structure,	Glands of the adrenal group: adrenal glands, paraganglia. Mesodermal glands: testicle, ovaries. Endodermal glands of the intestinal tube: pancreas. Blood supply, venous and lymphatic drainage, innervation.	LO1	2	work in small groups with anatomical specimens, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral Questioni ng Checklist; Situational Task Solution Checklist; Test Task Completio n Checklist
		features of endocrine glands. Dysfunction of endocrine	Age-related characteristics and dysfunction of individual endocrine glands.	LO1	1/5	Consultation on the most complex issues of the curriculum when performing SRO, work with educational literature, passing SRO in the form of: -Description of an	Assessme nt sheets for specific forms of completed assignmen ts

**MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN SKMA -1979-**MEDICAL ACADEMY** 

<u>~96</u>>

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.18 out of 52

	Physiology Practical Lesson 5	Private physiology of endocrine glands.	Structural and functional characteristics of the hypothalamic-pituitary-adrenal system, pineal gland, thyroid, parathyroid, thymus. Research methods.	LO1	2	anatomical preparation on the anatomical panel "Pirogov" -presentation discussion of the main issues of the topic, practical work, test assignments, solving situational problems	Oral survey, assessmen t of practical work, assessmen t of test assignmen ts, assessmen t of situational problem solving
15 Day	Physiology Practical Lesson 6	Private physiology of endocrine glands.2	Mechanism of action of hormones. Adrenal glands, pancreas and their hormones. Structural and functional characteristics of the pancreas and sex glands	LO1	2	discussion of the main issues of the topic, practical work, test assignments, solving situational problems	Oral survey, assessmen t of practical work, assessmen t of test assignmen ts, assessmen t of situational problem solving
	PhysiologySI W/SIWT	Midterm - II.	Consolidation of the material covered on the topics of the lecture, practical lesson, SRO and SRO.	LO1 LO3 LO4	2/5	Written solution of integrated situational problems	Checklist for completin g integrated

«Оңтүстік Қазақстан медицина академиясы» АҚ

 $\quad \text{and} \quad$ 

biochemical

does

not

MEDISINA AKADEMIASY



SOUTH KAZAKHSTAN **MEDICAL** 

ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.19 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

										situational tasks	
	Histolo Practica lesson	al	Colon/large Intestine	of the interior of the trace in the interior of the interior o	tures of the he wall of the stine. Endo he gastroint t. Lymphati he wall of the endix.	ne large crine cells estinal	LO 1 LO2 LO 4	2	Work in small groups, checklist of histo preparations, microphotogr aphs	Practical Lesson Assessme nt Checklist.	
	Подгот	говка и п	роведение пром	 нежуточ	ной аттест	ации		18			
9.	Teachin	ng and ass	sessment metho	ds							
9.1	Lectures					Introductory, overview (Answers to test questions) Overview and illustrative Overview lecture. Feedback (questions)					
9.2	Practica	Practical classes				tables, tables, discussion of the discussion of	ts, poster of the ma onal (clin stologica provided	rs, on tain issical) to	al preparations, the interactive p ues of the topic, asks, testing, we arations, microp logical images,	anel practical ork in small photographs,	
9.3	SIW/SIV	WT			Consultation performing in the formal performing in the formal performance in the formal perform	on on the mog SRO, worken of: on of an anatogov" -present and defense small groups articles on the problems, v	ost compositions of the composition of the composit	orepara obstracting a comp	sues of the curri mal literature, p ation on the ana et and presentati glossary, essay iling crossword adiological images, preparing ar	assing SRO tomical on , analysis of ls, test tasks, ges, working	
9.4	Midtern	1			Testing at	CTPC					
10.		nent Cri	teria								
10.1	_		essing the lear	ning o	utcomes o	f the discip	line				
	№ PO	Name ou	of learning tcomes	Unsat	tisfactory	Satisfac			Good	Excellent	
			nd understands orphofunctional	1. Do know	oes not and	1. Makes errors	gross when	1. the	Explains	1. Demonst	

describing

the

morphofunctio

rates

**MEDISINA AKADEMIASY** 

SKMA -1979-«Оңтүстік Қазақстан медицина академиясы» АҚ

<u>~96</u>>

SOUTH KAZAKHSTAN **MEDICAL** 

**ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

Working curriculum of the discipline: Digestive and endocrine systems in the norm

p.20 out of 52

	features of the digestive and endocrine systems, the anatomy of the digestive organs and the endocrine system through the study of visual research methods	understand the morphofunctio nal and biochemical features of the digestive and endocrine systems, the anatomy of the digestive organs and the endocrine system	morphofunctional and biochemical features of the digestive and endocrine systems, the anatomy of the digestive organs and the endocrine system	nal and biochemical features of the digestive and endocrine systems, the anatomy of the digestive organs and the endocrine system by studying visual research methods	knowled ge of the morphof unctional and biochemi cal features of the digestive and endocrin e systems, the anatomy of the digestive organs and the endocrin e system through the study
LO2	Demonstrates readiness to collect and analyze patient complaints, medical history data, examination results, laboratory, instrumental and other studies in order to recognize a condition or establish the presence or absence of a disease in order to monitor and care for patients.	1. Does not know the methods of collecting and analyzing patient complaints, examination results, laboratory, instrumental and other studies	1. Makes mistakes in collecting the patient's anamnesis and complaints, examination results, laboratory, instrumental and other studies in order to recognize the condition	1. Describes the collection and analysis of patient complaints, medical history data, examination results, laboratory, instrumental and other studies in order to recognize a condition or establish the presence or absence of a disease in order to monitor and care for patients.	of visual research methods  1. Demonstrat es knowledge of collecting and analyzing patient complaints, anamnesis data, examinatio n results, laboratory, instrument al and other studies in order to recognize a condition

MEDISINA AKADEMIASY

«Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN
MEDICAL
ACADEMY
AO «Южно-Казахо

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

Working curriculum of the discipline: Digestive and endocrine systems in the norm

<u>~96</u>>

p.21 out of 52

I	_O3 Applies knowledge of	LO3	1. Does not	1. Does not fully	1. Explains the	or establish the presence or absence of a disease in order to monitor and care for patients.  1. Applies
	the structure and topography of organs and systems to master the skills of physical examination and providing first aid.		know the structure and topography of organs and systems to master the skills of physical examination	describe the structure and topography of organs and systems to master physical examination skills	structure and topography of organs and systems to master the skills of physical examination and first aid.	knowledge of the structure and topography of organs and systems to master the skills of physical examinatio n and providing first aid.
	Analyzes information obtained during histological and biochemical observations and determines their significance for characterizing the state of the body.	LO4	1. Does not know the methods of conducting histological and biochemical observations to characterize the state of the body.	1. Does not fully know the methods of conducting histological and biochemical observations to characterize the state of the body.	1. Lists the information obtained during histological and biochemical observations, determines its significance for characterizing the state of the organism.	1. Freely demonstr ates informati on obtained during histologi cal and biochemi cal observati ons, determin es its significa nce for character izing the state of the organism

**MEDISINA** 

**AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN **MEDICAL** 

**ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

Working curriculum of the discipline: Digestive and endocrine systems in the norm

p.22 out of 52

	LO5	Compares the observations obtained from sources of i and draws obased on the laboratory stu	with data m modern nformation conclusions results of	know the resolve of observate with	tions data from irces	1. Does not for compare observation reswith data obtain from mod sources information 2. Does not for draw conclusi based on the rest of laborate studies;	ults and lern of laully dons ults cory	observations with day obtained fromodern source of information 2. Knows a draws conclusions based on t	of Comparand analyzes the results of observations of observations obtained from modern of sources informations, and demonstrates conclusions base	s sults tion data d of tio es tr io ed he of or
10.2	Metho	ds and criteria	a for evalua	tion						
	Check	list for practic	al lesson							
Letter	system	grade Dig	ital equivale	nt of points	]	Percentage content	į	Traditional sy	stem assessm	ient
	A		4,0			95-100		Exce	ellent	
	A -		3,67			90-94				
	B +		3,33			85-89		Fi	ine	
	В		3,0			80-84				
	В -		2,67			75-79				
	C +		2,33			70-74				
	C		2,0			65-69		Satisfa	actorily	
	C -		1,67		1	60-64				
	D+		1,33			55-59				
	D-		1,0			50-54				
	FX		0,5			25-49		Not sat	isfactory	
	F	i i	0			0-24				

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

<u>~365</u>~

SKMA -1979-

p.23 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

Form of control	Grade	Assessment Criteria
Verbal response	Excellent Corresponds to ratings: A (4.0; 95-100%); A- (3.67; 90-94%)	The student did not make any mistakes during the answer, was familiar with the theories, concepts and directions of the discipline being studied, gave them a critical assessment, and also used the scientific achievements of other disciplines.
	Good Meets ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	The student did not make any serious mistakes while answering, but made inaccuracies and minor errors that he corrected himself, and was able to systematize the program material with the help of the teacher.
	Satisfactory Corresponds to grades: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)	The student made fundamental mistakes while answering, limited himself to only the educational literature specified by the teacher, and experienced great difficulty in systematizing the material.
	Unsatisfactory FX (0.5; 25-49%) F (0; 0-24%)	The student made serious mistakes during the answer, did not study the main literature on the topic of the lesson, and was unable to use scientific terminology in histology and physiology.

**Small group Assessment Checklist** 

Work in	Excellent	The students, allocated to a small group, actively participated in the
small	Corresponds to	discussion of the main issues of the topic, at this time demonstrating
groups	ratings:	their logical thinking skills, and completely correctly answered questions
	A (4.0; 95-100%);	during the discussion.
	A- (3.67; 90-94%)	
	Good	The students assigned to the subgroup took an active part in the
	Meets ratings:	discussion of the main issues of the topic, and during the discussion they
	B+ (3.33; 85-89%)	were able to solve the problem, making mistakes that were corrected by
	B (3.0; 80-84%)	the students of the subgroup themselves.
	B- (2.67; 75-79%)	
	C+ (2.33; 70-74%)	
	Satisfactory	Students assigned to a small group were passive in discussing the main
	Corresponds to	points of the topic, while students in a small group carried out the
	grades:	discussion using reference literature/sources, making weak and
	C (2.0; 65-69%)	inconsistent mistakes.
	C- (1.67; 60-64%)	
	D+ (1.33; 55-59%)	
	D- (1.0; 50-54%)	
	Unsatisfactory	They were unable to find the correct answers to the main questions of
	FX (0.5; 25-49%)	the topic, did not participate in the group work, made mistakes and
	F (0; 0-24%)	inaccuracies, and did not use scientific terminology when answering.

MEDISINA AKADEMIASY SKMA SKMA MEDICAL ACADEMY

АСАБЕМТ АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ АО «Южно Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology

Department of Introduction to Clinic

Working curriculum of the discipline: Digestive and endocrine systems in the norm

p.24 out of 52

#### **Evaluation Sheet**

Full name of the student Anatomical Specimen Description Evaluation Criteria

N₂	Criteria for evaluating steps	Excellent	Good	Satisfactory	Fail
steps		90-100	70-89	50-69	0-49
		Gave a clear	Gave a fairly	I partially	Failed to
		and	complete answer,	completed the	complete the
		comprehensive	but was confused	task: I was	task: could not
		answer,	in terminology;	confused in my	name the
		correctly named	made minor	answer, I didn't	anatomical
		organs in Latin	inaccuracies	give the full	structures
		and Greek		names of the	
				anatomical	
				structures	
1.	The student recognizes the organ,	18-20	14-17,8	10-13,8	0-9,8
	gives its name in Latin, and if				
	necessary, in Greek				
2.	The student describes the holotopy of	18-20	14-17,8	10-13,8	0-9,8
	an organ using professional				
	terminology				
3.	The student describes the skeletotopy	18-20	14-17,8	10-13,8	0-9,8
	of an organ using professional				
	terminology				
4.	The student describes the syntopy of	18-20	14-17,8	10-13,8	0-9,8
	an organ using professional				
	terminology				
5.	Describes the anatomical structure of	18-20	14-17,8	10-13,8	0-9,8
	the organ.				
1		1		l	

Maximum score – 100. Total points \_\_\_\_\_ Signature of the teacher \_\_\_\_\_

#### **Completing test task (testing)**

Form of control	Grade	Assessment Criteria
Completing test tasks	Excellent	The student completed 90-100% of the test tasks
(testing)	Corresponds to ratings:	correctly.
	A (4.0; 95-100%);	
	A- (3.67; 90-94%)	
	Good	The student completed 75-89% of test tasks
	Meets ratings:	correctly.
	B+ (3.33; 85-89%)	·
	B (3.0; 80-84%)	
	B- (2.67; 75-79%)	
	C+ (2.33; 70-74%)	
	Satisfactory	The student completed 50-74% of test tasks
	Corresponds to grades:	correctly.
	C (2.0; 65-69%)	
	C- (1.67; 60-64%)	
	D+ (1.33; 55-59%)	
	D- (1.0; 50-54%)	
	Неудовлетворительно	The student completed less than 50% of the test
	FX (0.5; 25-49%)	tasks correctly.

**MEDISINA AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

<u>~362</u>~

SKMA -1979-

SOUTH KAZAKHSTAN MEDICAL **ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.25 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

	F (0; 0-24%)	
	Solving situations	al (clinical) problems
Form of control	Grade	Assessment Criteria
Solution of situational tasks	Excellent Corresponds to ratings: A (4.0; 95-100%); A- (3.67; 90-94%)  Good Meets ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	Actively participated in solving situational problems, showed original thinking, demonstrated deep knowledge of the material, and used scientific achievements of other disciplines in discussions.  Actively participated in the work, demonstrated knowledge of the material, allowed minor inaccuracies or errors that were corrected by the student himself.
	Corresponds to grades: in C (2.0; 65-69%) grades: D+ (1.33; 55-59%) D- (1.0; 50-54%)	When working in a group, he was passive, made inaccuracies and fundamental mistakes, and experienced great difficulty in systematizing the material.  Did not participate in the group work, answered the
	Unsatisfactory FX (0.5; 25-49%) F (0; 0-24%)	teacher's questions, made fundamental mistakes and inaccuracies, and did not use scientific terminology in his answers.

#### **Assessment Sheet Assessment Criteria for Mastering Practical Skills**

Full name of student\_

№	Criteria for evaluating steps		Lev	el	
п/ п		Excelle nt 90-100	Good 70-89	Satisfac tory 50-69	Unsat isfact ory 0-49
1.	Correct location of the organ on the torso, skeleton and on a living person	18-20	14-17,8	10-13,8	0-9,8
2.	The student must name the full name of the organ and describe its general structure.	18-20	14-17,8	10-13,8	0-9,8
3	The student must name the structural elements of this organ.	18-20	14-17,8	10-13,8	0-9,8
4.	After listing the structural elements of the organ, the student must show it on posters and tablets and give a description.	18-20	14-17,8	10-13,8	0-9,8
5.	During the description of the organ and its structural elements, the student must talk about the age-related characteristics of the organ.	18-20	14-17,8	10-13,8	0-9,8

#### ońtústik qazaqstan

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY



SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.26 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

Maximum score – 100. Total points Signature of the teacher
--

#### **Evaluation sheet**

#### **Evaluation criteria for the implementation of the scheme (courses of arteries)**

Full name of the student \_\_\_\_\_

No	Criteria for evaluating steps		Leve	el	
п/		Excellent 90-100	Good 70-89	Satisfact ory 50-69	Unsat isfact ory 0-49
1.	The student must correctly find and draw a diagram of the arterial routes.	18-20	14-17,8	10-13,8	0-9,8
2.	The student must give the full name of the arteries in Latin.	18-20	14-17,8	10-13,8	0-9,8
3	The student must correctly indicate the topography and projection of the arteries.	18-20	14-17,8	10-13,8	0-9,8
4.	Must list all branches of arteries	18-20	14-17,8	10-13,8	0-9,8
5.	The student must indicate the areas of blood supply	18-20	14-17,8	10-13,8	0-9,8

Maximum score – 100. Total points \_\_\_\_\_\_ Signature of the teacher \_\_\_\_\_

#### **Evaluation sheet**

#### Evaluation criteria for the implementation of the scheme (nerve courses)

Full name of the student \_\_\_\_\_

No	Criteria for evaluating steps	Уровень			
п/ п		Excellent 90-100	Good 70-89	Satisfact ory 50-69	Unsat isfact ory 0-49
1.	The student must correctly draw a diagram of the nerve pathways	18-20	14-17,8	10-13,8	0-9,8
2.	The student must give the full name of the nerves in Latin.	18-20	14-17,8	10-13,8	0-9,8
3	The student must correctly indicate the topography and projection of nerves	18-20	14-17,8	10-13,8	0-9,8
4.	Must list all branches of nerves	18-20	14-17,8	10-13,8	0-9,8
5.	The student must indicate the areas of innervation	18-20	14-17,8	10-13,8	0-9,8

Максимальный балл – 100. Итого баллов \_\_\_\_\_ Подпись преподавателя\_\_\_\_

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.27 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

# **Evaluation Sheet Multimedia Presentation Evaluation Criteria**Full name of the student \_\_\_\_

No	Criteria	Level, score in points				
		Excellent 90-100	Good 70-89	Satisfac tory 50-69	Unsatis factory 0-49	
1.	The presence of a title slide with a heading, a presentation plan, a sufficient number of slides, a list of references and Internet sources.	9-10	7-8,9	5-6,9	0-4,9	
2.	The content of the presentation corresponds to the topic and the objectives.	9-10	7-8,9	5-6,9	0-4,9	
3.	Arrange slides in a logical sequence.	9-10	7-8,9	5-6,9	0-4,9	
4.	Style of presentation of the material (conciseness, clear wording, structure).	9-10	7-8,9	5-6,9	0-4,9	
5.	Use of modern sources of information in sufficient quantity.	9-10	7-8,9	5-6,9	0-4,9	
6.	Ability to generalize material and draw clear and precise conclusions.	9-10	7-8,9	5-6,9	0-4,9	
7.	Level of orientation in the presentation material.	9-10	7-8,9	5-6,9	0-4,9	
8.	Ability to report clearly, competently, and consistently.	9-10	7-8,9	5-6,9	0-4,9	
9.	The ability to defend one's position and the ability to respond constructively to criticism.	9-10	7-8,9	5-6,9	0-4,9	
1 0	Quality of slide design (colourfulness, clarity, etc.).	9-10	7-8,9	5-6,9	0-4,9	

Maximum score – 100. Total points \_\_\_\_\_ Signature of the teacher \_\_\_\_\_

## **Evaluation Sheet X-ray Description Evaluation Criteria**

Full Name of the student\_\_\_\_\_

№	Criteria for evaluating steps	Level			
п/п		Excellent 90-100	Good 70-89	Satisfac tory 50-69	Unsat isfact ory 0-49
1.	The student must correctly identify the area of research	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25
2.	The student must correctly determine the projection of the image (front, side, back)	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25
3	The student must correctly indicate the anatomical structures of the bone and joints being examined.	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25
4.	The student must be able to determine the age characteristics of the organ being examined.	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25

#### ońtústik qazaqstan

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology
Department of Biology and Biochemistry
Department of Phthisiopulmonology and Radiology
Department of Introduction to Clinic

p.28 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

	Maximum score. Total poin	its Signature	of the teacher _		
	Checklist for assessing	g the practical lesso	n on the basics of	histology	
	Evaluation criteria		L	evel	
№		Excellent	Good	Satisfactory	Unsatisfactor
					y
1	Answers questions from the individual test on the Quizizz program	40	28	20	0
2	Answers oral survey questions (small groups)	20	14	10	0
3	Fills in tables	20	14	10	0
4	Performs situational tasks	20	14	10	0
	Итого:	100	70	50	0

<u>~362</u>~

SKMA

## **Evaluation Sheet X-ray Description Evaluation Criteria**

Full name of the student \_\_\_\_\_

No	Criteria for evaluating steps	Level				
п/п		Excellent 90-100	Good 70-89	Satisfac tory 50-69	Unsat isfact ory 0-49	
1.	The student must correctly identify the area of research	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25	
2.	The student must correctly determine the projection of the image (front, side, back)	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25	
3	The student must correctly indicate the anatomical structures of the bone and joints being examined.	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25	
4.	The student must be able to determine the age characteristics of the organ being examined.	22,5-25	17,5-22,25	12,5- 17,25	0- 12,25	

Maximum score – 100. Total points \_\_\_\_\_ Signature of the teacher \_\_\_\_\_

Written response to the questions of this assignment

No	Assessment Criteria	Баллы			
1	The student demonstrated original thinking, demonstrated deep knowledge of the				
	material, and used scientific achievements of other disciplines in his answer. He used	27-30			
	scientific terminology.				
2	The student demonstrated knowledge of the material, made minor inaccuracies that were	21-26			
	corrected by the student himself. Used scientific terminology.				
3	The student made inaccuracies and minor mistakes while answering, used scientific				
	terminology, experienced great difficulty in systematizing the material, and needed the				
	teacher's help.				
4	The student did not answer the teacher's questions, made fundamental mistakes and				
	inaccuracies, and did not use scientific terminology in his answers.				

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY SOUTH REDICAL ACADE

SOUTH KAZAKHSTAN MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology
Department of Biology and Biochemistry
Department of Phthisiopulmonology and Radiology
Department of Introduction to Clinic

p.29 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

#### Performing laboratory work

№	Assessment Criteria	Scores
1	Completed practical and laboratory work on time and without any errors and submitted	
	reports on them, took an active part in the discussion of the results of the work, made	27-30
	reasonable conclusions, and demonstrated original thinking	
2	Completed practical and laboratory work on time and submitted reports on them	21-26
	without any fundamental comments, took an active part in the discussion of the results	
	of the work	
3	Completed practical and laboratory work on time and submitted reports on them. Was	
	not active during work, needed help from the teacher	
4	Untimely submitted reports on practical work, made fundamental mistakes in their	
	implementation. Did not complete all practical work provided by the program. Did not	
	participate in the discussion of the results of the work.	

#### **Practical skills**

Form of control	Grade	Assessment criteria
Practical skills	Excellent Corresponds to scores: A (4.0; 95-100%) A- (3.67; 90-94%)	The student has excellent practical skills: knows the methodology for performing practical skills quite accurately, has sufficient patient care skills.
	Good Corresponds to scores: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	The student has good practical skills: knows the methodology for performing practical skills insufficiently accurately, has sufficient patient care skills.
	Satisfactory Corresponds to scores: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.0; 50-54%)	The student has satisfactory practical skills: knows the basic provisions of the methodology for performing practical skills, but performs patient care skills with gross errors.
	Unsatisfactory Corresponds to scores FX (0.5; 25-49%) F (0; 0-24%)	The student does not have a sufficient level of practical skills (does not know and cannot apply patient care skills).

#### Checklist for SRO assessment

#### **Evaluation sheet**

Criteria for evaluation of presentation in multimedia format Full name of the student \_\_\_\_\_

№	Criterion	Level, score in points

#### ońtústik qazaqstan

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY



SOUTH KAZAKHSTAN **MEDICAL** 

**ACADEMY** AO «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.30 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

		<b>Great</b> 90-100	<b>Fine</b> 70-89	Satisfac tory 50-69	Dissat isfied 0-49
1.	Availability of a title slide with a heading, presentation plan, sufficient number of slides, list of references and Internet sources.	9-10	7-8,9	5-6,9	0-4,9
2.	Correspondence of the presentation content to the topic and set objectives.	9-10	7-8,9	5-6,9	0-4,9
3.	Arrangement of slides in a logical sequence.	9-10	7-8,9	5-6,9	0-4,9
4.	Style of presentation of the material (conciseness, clear wording, structure).	9-10	7-8,9	5-6,9	0-4,9
5.	Use of modern sources of information in sufficient quantity.	9-10	7-8,9	5-6,9	0-4,9
6.	Ability to generalize the material, to draw clear and distinct conclusions.	9-10	7-8,9	5-6,9	0-4,9
7.	Level of orientation in the presentation material.	9-10	7-8,9	5-6,9	0-4,9
8.	Ability to report clearly, competently, consistently.	9-10	7-8,9	5-6,9	0-4,9
9.	Ability to defend one's position and the ability to respond constructively to criticism.	9-10	7-8,9	5-6,9	0-4,9
10	Quality of slide design (colorfulness, clarity, etc.).	9-10	7-8,9	5-6,9	0-4,9

Maximum score – 100. Total points \_\_\_\_\_ Teacher's signature \_\_\_\_

#### **Analysis of scientific articles:**

	is of scentific at tices.	1
№	Assessment criteria	Points
1	The work is done neatly and submitted on time, independently written on at least 3 pages of printed text. Thoughts on the problem are presented clearly and reasonably. References to authors are provided everywhere in the text of the work. When defending the work, the text is not read, but narrated. Confidently and accurately answers all questions. Articles no more than 5 years old were used for the work.	27-30
2	The work is done neatly and submitted on time, independently written on at least 3 pages of printed text. Thoughts on the problem are presented clearly, but without arguments. References to authors are provided everywhere in the text of the work. When defending the work, the text is not read, but narrated. When answering questions, makes minor errors. Articles no more than 5 years old were used for the work.	21-26
3	The work is done neatly and submitted on time, independently written on at least 2 pages of printed text. Thoughts on the problem are presented in a scattered manner, without arguments. In the text of the work, references to the authors are not indicated everywhere. When defending the work, the text is read. Answers questions uncertainly, makes fundamental mistakes. Articles more than 5 years old were used for the work. The work is written in less than 2 printed text. Thoughts are presented in a scattered manner, without arguments. There are no references to the authors in the text of the work. When defending the work, the text is read. When answering	15-20

#### OŃTÚSTIK QAZAQSTAN **MEDISINA**

#### SKMA -1979-**AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

<u>~365</u>~

SOUTH KAZAKHSTAN **MEDICAL** 

**ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

#### Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.31 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

	questions, makes gross mistakes, does not navigate the material. Articles more than 5 years old were used for the work.		
4	Assessment criteria	0-14	1

**Preparation of written creative work (essay)** 

№	Evaluation Criteria	Points
1	The content of the work fully corresponds to the topic; the topic is deeply and	27-30
	reasonably disclosed. The composition is harmonious, logical and consistent	
	presentation of thoughts. The problem of the essay is clearly formulated. There are	
	no factual errors. The conclusion contains inferences that logically follow from the	
•	content of the main part.	21.26
2	The topic is disclosed sufficiently fully and convincingly with minor deviations	21-26
	from it. The thesis is clearly formulated, corresponding to the topic of the essay. The	
	main part logically, connected, but not fully substantiated the proposed thesis, there	
	are isolated factual inaccuracies.	
3	A correct, but one-sided or insufficiently complete answer to the topic is given.	15-20
	Deviations from it or individual errors in the presentation of factual material were	
	made. The material is presented logically enough, but there are individual violations	
	of the sequence of expression of thoughts. The conclusions do not fully correspond	
	to the content of the main part	
4	The topic is not fully disclosed, which indicates superficial knowledge.	0-14
	Characterized by a random arrangement of material, lack of connection between	
	parts. Distinguished by the presence of gross speech errors.	

Form of control	Grade	Evaluation criteria
Working with the provided images	Excellent Corresponds to grades: A (4.0; 95-100%);	Selects the optimal method of radiological examination.  Determines the full list of indications and contraindications for radiological examination. Explains
	A- (3.67; 90-94%)	and shows the X-ray anatomy of the area being examined, and the projection of the image.
	Good Corresponds to grades: B+ (3.33; 85-89%); B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)  Selects the optimal method of radiological Makes minor mistakes when determining contraindications for radiological examination.  Determines the X-ray anatomy of the area examined, and the projection of the image	
	Satisfactory Corresponds to grades: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.0; 50-54%)	Selects the optimal method of radiological examination.  Makes gross mistakes when determining indications and contraindications for radiological examination.  Determines the X-ray anatomy of the area being examined incompletely.
	Unsatisfactory Corresponds to grade: FX (0.5; 25-49%) F (0; 0-24%)	Cannot find the optimal method of radiological examination. Makes gross mistakes when determining indications and contraindications for radiological examination. Makes gross mistakes when determining the

MEDISINA AKADEMIASY

**АКАDEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ



АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

Working curriculum of the discipline: Digestive and endocrine systems in the norm

p.32 out of 52

		X-ray anatomy and the projection of the image.		
Form of control	Grade	Evaluation criteria		
Crossword	Excellent Corresponds to ratings: A (4.0; 95-100%); A- (3.67; 90-94%)	This is given if the student has composed a crossword puzzle of 7 or more words, the words are joined 4 or more times, there are no mistakes in the crossword questions, the questions are composed correctly, logically and predetermine the necessary answer, the design meets the requirements.		
	Fine Corresponds to the following grades: B+ (3.33; 85-89%); B (3.0; 80-84%); B- (2.67; 75-79%); C+ (2.33; 70-74%);	This is given if the student has composed a crossword puzzle of 7 words, the words are joined 3 times, there are no fundamental mistakes in the crossword questions, the questions are composed correctly, but there are minor inaccuracies, the design meets the requirements.		
	Satisfactorily Corresponds to the following grades: C (2.0; 65-69%); C- (1.67; 60-64%); D+ (1.0; 50-54%); D-(1.0; 50-54%)	This is given if the student has composed a crossword puzzle of 7 words, the words are joined 2 times, the crossword questions contain inaccuracies, mistakes.		
	Unsatisfactory Corresponds to the assessment FX (0.5; 25-49%); F (0; 0-49%)	This is given if the student has composed a crossword puzzle of less than 7 words, the words are joined less than 2 times (or do not join); the crossword questions contain fundamental, gross mistakes.		

#### **Checklist for SIW assessment**

	CHECKING TOT BY THE MEDICINE						
	Evaluation criteria	Level					
No		Excellent	Good	Satisfactory	Unsatisfacto		
					ry		
1	Evaluation of protection of histological	40	28	20	0		
1	micropreparations						
2	Evaluation of protection of electron	40	28	20	0		
	micrographs						
3	Evaluation of compilation of a glossary	20	14	10	0		
	Total:	100	70	50	0		

Preparation and protection of histological micropreparations and microphotographs

	F	
Form of control	Grades	Assessment criteria
Preparation of a	Excellent	The student prepared a presentation of 3 micropreparations
presentation of	Matches ratings:	and 3 microphotographs on the topic within the specified
histological	A (4,0; 95-100%);	time, independently, accurately, with at least 6 informative
micropreparatio	A- (3,67; 90-94%)	tables, using at least 5 literary sources and having a detailed

MEDISINA AKADEMIASY



«Оңтүстік Қазақстан медицина академиясы» АҚ

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.33 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

ns and microphotograp hs and its defense.	Good Matches ratings: B+ (3,33; 85-89%);	plan, provided diagrams, tables and figures corresponding to the topic, demonstrated deep knowledge of the topic during the defense and answered all the questions asked without error.  The student prepared a presentation of 3 micropreparations and 3 microphotographs on the topic within the specified time, independently, accurately, with at least 6 informative
	B (3,0; 80-84%); B- (2,67; 75-79%); C+ (2,33; 70-74%);	tables, using at least 5 literary sources and having a detailed plan, provided diagrams, tables and figures corresponding to the topic, demonstrated good knowledge of the topic during the defense, made minor errors when answering questions.
	Satisfactorily Corresponds to ratings: C (2,0; 65-69%); C- (1,67; 60-64%); D+ (1,0; 50-54%); D-(1,0; 50-54%)	The student prepared a presentation of 3 micropreparations and 3 microphotographs on the topic within the specified deadline, independently, but carelessly, with at least 6 informative tables, using less than 5 literary sources and with an incomplete plan, provided an insufficient number of diagrams, tables and figures relevant to the topic, answered questions uncertainly during the defense, made fundamental mistakes. The student did not prepare a presentation of 3 micropreparations and 3 microphotographs on the topic within the specified deadline, or prepared it within the specified deadline, but not independently, carelessly, with less than 6 informative tables, without indicating literary sources, in the absence of a plan, made gross mistakes when answering questions or was unable to answer questions and did not defend the work.
	Unsatisfactory Corresponds to ratings FX (0,5; 25-49%); F (0; 0-49%)	The student prepared a presentation of 3 micropreparations and 3 microphotographs on the topic within the specified time, independently, accurately, with at least 6 informative tables, using at least 5 literary sources and having a detailed plan, provided diagrams, tables and figures corresponding to the topic, demonstrated deep knowledge of the topic during the defense and answered all the questions asked without error.

#### **Presentation Defense**

Form of control	Grade	Evaluation criteria	
Presentation Defense	Excellent Corresponds to points: A (4,0; 95-100%) A- (3,67; 90-94%)	The student prepared a presentation on the topic within the specified time, independently, accurately, with at least 20 concise and informative slides, using at least 5 literary sources and having a detailed plan, provided diagrams, tables and figures relevant to the topic, demonstrated deep knowledge of the topic during the defense and answered all questions asked without error.	

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN

SKMA
-1979ACADEMY

ACADEMY

ACADEMY

ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.34 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

Good Corresponds to points: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)  Satisfactory Corresponds to points: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The student prepared a presentation on the topic within the specified time, independently, accurately, with at least 20 concise and informative slides, using at least 5 literary sources and having a detailed plan, provided diagrams, tables and figures relevant to the topic, demonstrated good knowledge of the topic during the defense, and made minor errors when answering questions.  The student prepared a presentation on the topic by the appointed time, independently, but carelessly, with at least 20 meaningless slides, using less than 5 literary sources and an incomplete plan, provided an insufficient number of diagrams, tables and figures relevant to the topic, answered questions uncertainly during the defense, made fundamental mistakes
Unsatisfactory Corresponds to points FX (0,5; 25-49%) F (0; 0-24 %)	The student did not prepare a presentation on the topic by the appointed time, or prepared it by the appointed time, but not independently, carelessly, with less than 20 meaningless slides, without indicating literary sources, in the absence of a plan, made gross mistakes when answering questions or was unable to answer questions and did not defend the presentation on the topic.

Compiling a glossary

Form of control	Grade	Evaluation criteria
Compiling a glossary	Great Corresponds to ratings: A (4,0; 95-100%); A- (3,67; 90-94%)	correctly formulated the concepts, and provided a translation into Kazakh and English.
	Good Corresponds to points: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The student compiled a glossary on the topic within the specified time, independently, accurately, with at least 10 terms, correctly formulated the concepts, made minor mistakes when compiling the glossary, and provided a translation into Kazakh and English.
	Satisfactory Corresponds to points: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The student compiled a glossary on the topic within the specified time, independently, but carelessly, with less than 10 terms, made fundamental mistakes when compiling the glossary, and provided a translation into Kazakh and English.
	Unsatisfactory Corresponds to points FX (0,5; 25-49%)	The student did not compile a glossary on the topic within the specified time, or compiled it within the specified time, but not independently, carelessly, with less than 10 terms on the topic, made gross errors when compiling the glossary, and did not provide a translation into Kazakh

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN MEDICAL ACADEMY

**ACADEMY** AO «Южно-Казахстанская медицинская академия»

**АКАDEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.35 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

	F (0; 0-24 %)	and English.
--	---------------	--------------

Preparing a mind map

<u>~365</u>~

SKMA -1979-

Form of control	Grade	Evaluation criteria
Preparing a mind map	Excellent Corresponds to points: A (4,0; 95-100%) A- (3,67; 90-94%)	The mind map is done neatly, completed on time, completed independently using at least 5 literary sources. Diagrams, tables and drawings corresponding to the topic are provided. When defending, the material is not read, but told. Confidently and accurately answers all questions.
	Good Corresponds to points: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%) C+ (2,33; 70-74%)	The mind map is done neatly and completed on time, done independently using at least 4 literary sources. Diagrams, tables and drawings are provided that correspond to the topic. When defending the material, he does not read, but tells. When answering questions, he makes minor mistakes.
	Satisfactory Corresponds to points: C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	The mind map is done neatly and completed on time, done independently using at least 3 literary sources. Diagrams, tables and drawings corresponding to the topic are provided. When defending, the material is not read, but told. Confidently and accurately answers all questions. When defending, the text is read. Uncertainly answers questions, makes fundamental mistakes.
	Unsatisfactory Corresponds to points FX (0,5; 25-49%) F (0; 0-24 %)	The mind map is done carelessly and not submitted on time, it was not written independently using less than 3 literary sources. When defending, he reads the text. When answering questions, he makes gross mistakes, does not navigate the material.

**Preparing test assignments** 

Form of control	Grade	Evaluation criteria
Preparing test assignments	Excellent Corresponds to points: A (4,0; 95-100%) A- (3,67; 90-94%) Good Corresponds to points: B+ (3,33; 85-89%) B (3,0; 80-84%) B- (2,67; 75-79%)	Test tasks contain at least 20 questions. Submitted on time. The basis of the test is meaningful. Test tasks are formulated clearly, correctly, specifically. Uniform and adequate answer options. There is an answer algorithm. Correct answers are correctly marked.  Test tasks contain at least 15 questions. Submitted on time. The basis of the test is meaningful. Test tasks are formulated clearly, correctly, specifically. Different types of answers. There is an answer algorithm. Correct answers are correctly marked.
	C+ (2,33; 70-74%)  Satisfactory Corresponds to points:	Test tasks contain 10 or fewer questions. Submitted on time. The test basis is not meaningful. There are test tasks that are formulated unclearly, incorrectly, and non-specifically. There

#### ońtústik qazaqstan

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology
Department of Biology and Biochemistry
Department of Phthisiopulmonology and Radiology
Department of Introduction to Clinic

p.36 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

C (2,0; 65-69%) C- (1,67; 60-64%) D+ (1,0; 50-54%)	are different types of answers. There is an answer algorithm. Not all correct answers are marked correctly.	
Unsatisfactory Corresponds to points FX (0,5; 25-49%) F (0; 0-24 %)	Test assignments are not submitted within the established deadlines. The content of the test assignments does not correspond to the topic, the topic is poorly covered, quantitative requirements are not met.	

SKMA

#### Checklist for assessing the final control

Criteria for assessing the description of histological micropreparations

Evaluation criteria		Level				
No		Great	Good	Satisfactory	Unsatisf	
		90-100	70-89	50-69	actory	
					49 -0	
1	Identifies the slide under the microscope	10,0	7,0	5,0	0	
2	Records the color of the slide	10,0	7,0	5,0	0	
3	Gives a full description of the slide	30,0	21,0	15,0	0	
4	Records its function	10,0	7,0	5,0	0	
5	Performs a sketch of the slide	40,0	28,0	20,0	0	
	Итого	100,0	70,0	50,0	0	

#### Checklist for assessing the boundary control

Criteria for assessing the description of histological micrographs

	Evaluation Criteria	Level			
$N_{\underline{0}}$		Great	Good	Satisfactory	Unsatisfact
		90-100	70-89	50-69	ory
					49 -0
1	Identifies the photomicrograph	10,0	7,0	5,0	0
2	Describes the photomicrograph	40,0	28,0	20,0	0
3	Records its function	10,0	7,0	5,0	0
4	Draws the photomicrograph	40,0	28,0	20,0	0
	Total	100	70	50	0

#### **Checklist for midterm control**

Form of control	Grade	Evaluation criteria
Written survey on tickets (clinical tasks)	Excellent Corresponds to points: A (4,0; 95-100%)	This is given if the student did not make any mistakes or inaccuracies while answering. Is familiar with the theories, concepts, and trends in the discipline being studied and gives them a critical assessment. Completion
and testing	A- (3,67; 90-94%)  Good Corresponds to points: B+ (3,33; 85-89%) B (3,0; 80-84%)	of test assignments by 90-100%.  This is given if the student did not make any serious mistakes while answering, made minor inaccuracies or major errors that were corrected by the student himself, and was able to systematize the program material with the help of the teacher. Completes test assignments by

MEDISINA AKADEMIASY



АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ Department of Morphophysiology

Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

Working curriculum of the discipline: Digestive and endocrine systems in the norm

p.37 out of 52

	- (2,67; 75-79%) + (2,33; 70-74%)	70-89%.
Co po C c	atisfactory orresponds to bints: (2,0; 65-69%) - (1,67; 60-64%) + (1,0; 50-54%)	This is given if the student made inaccuracies and minor errors while answering, limited himself to the textbook literature specified by the teacher, and experienced great difficulties in systematizing the material. Completes test assignments by 50-69%.
Co to FX	nsatisfactory orresponds points X (0,5; 25-49%) (0; 0-24 %)	This is given if the student made major errors while answering, did not work through the main literature on the topic of the lesson; cannot use the scientific terminology of the discipline, answers with gross stylistic and logical errors. Completes test tasks at 0-49%.

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.38 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

- 1. Билич Г. Л. Анатомия человека. Атлас. В 3 т. Т.1. Опорно-двигательный аппарат. Остеология. Синдесмология. Миология [Электронный ресурс] : учебник / Г. Л. Билич, В. А. Крыжановский. Электрон. текстовые дан.
- 2. (104 Мб). М.: ГЭОТАР Медиа, 2013. эл. опт. диск

<u>~ሪქ</u>ხე~

SKMA

- 3. Билич Г. Л. Анатомия человека. Атлас. В. 3 т. Т. 3 [Электронный ресурс]: учебник / Г. Л. Билич, В. А. Крыжановский. Электрон. текстовые дан. ( 157 Мб). М.: ГЭОТАР Медиа, 2013. 792 с. эл. опт. диск
- 4. Билич Г. Л. Анатомия человека. Атлас. В 3 т. Т. 2 [Электронный ресурс]: учебник / Г. Л. Билич, В. А. Крыжановский. Электрон. текстовые дан. (179 Мб). М.: ГЭОТАР Медиа, 2013. 824 с. эл. опт. диск
- 5. Анатомия человека. В 2 т. Т. 1 [Электронный ресурс] : учебник / под ред М. Р. Сапина. Электрон. текстовые дан. ( 674 Мб). М. : ГЭОТАР Медиа, 2013. 528 с. эл. опт. диск
- 6. Анатомия человека. В 2 т. Т. 2 [Электронный ресурс] : учебник / под ред М. Р. Сапина. Электрон. текстовые дан. ( 674 Мб). М. : ГЭОТАР Медиа, 2013. 456 с. эл. опт. диск
- 7. Адам анатомиясы. 3 т. 2-ші т. Спланхнология және жүрек-тамыр жүйесі [Электронный ресурс]: оқулық / И. В. Гайворонский [т/б.]; қазақ тіл. ауд. А.Б. Аубакиров. Электрон. текстовые дан. (836Мб). М.: ГЭОТАР Медиа, 2016. 488 б. с.
- 8. Адам анатомиясы. 3 томдық. 1- ші т. Тірек-қимыл аппараты [Электронный ресурс] : оқулық / И. В. Гайворонский [т/б.]; қазақ тіл. ауд. А. Б. Аубакиров. Электрон. текстовые дан. (795Мб). М.: ГЭОТАР Медиа, 2015. 416 б. с.
- 9. Рақышев, А. Р. Адам денесі. 3 томдық. 1 т. [Электронный ресурс]: оқулық / А. Р. Рақышев. Электрон. текстовые дан. (490Мб). М.: ГЭОТАР Медиа, 2015. 456 бет. эл. опт. диск
- 10. Рақышев, А. Р. Адам денесі. 3 томдық. 3 т. [Электронный ресурс]: оқулық / А. Р. Рақышев. Электрон. текстовые дан. (1,42Мб). М.: ГЭОТАР Медиа, 2015. 376 бет. эл. опт. диск (CD-ROM).
- 11. Рақышев А. Р. Адам денесі. 3 томдық. 2 т. [Электронный ресурс]: оқулық / А. Р. Рақышев. Электрон. текстовые дан. (1,42Мб).-М.: ГЭОТАР Медиа, 2015. 472 бет. эл. опт. диск (CD-ROM).
- 12. Несеп-жыныс ағзаларының анатомиясы. Ахмад Н.С., 2019/ЦБ Aknurpress / https://aknurpress.kz/reader/web/2357
- 13. Адам анатомиясы. Досаев Т.М., 2019./ ЦБ Aknurpress / https://aknurpress.kz/reader/web/1054

### Физиология

- 1. ШандауловА.Х. Основы общей физиологии<a href="https://mbook.kz/ru/index\_brief/373/">https://mbook.kz/ru/index\_brief/373/</a>
- 2. Нормальная физиология [Электронный ресурс] : учебник / под ред. Б. И. Ткаченко. 3-е изд., испр. и доп. Электрон.текстовые дан. ( 53,1Мб). М. : ГЭОТАР Медиа, 2017. эл. опт.диск
- 3. Основы общей физиологии: учебник / А.Х. Шандаулов.— Алматы: Эверо,2020.— 240 б.: <a href="https://elib.kz/ru/search/read\_book/91/">https://elib.kz/ru/search/read\_book/91/</a>
- 4. Бабский Е.Б., Бабская Н.Е.Физиология человека, I том, Алматы: издательство «Эверо», 260 с., 2020/ <a href="https://www.elib.kz/ru/search/read\_book/42/">https://www.elib.kz/ru/search/read\_book/42/</a>
- 5. Бабский Е.Б., Бабская Н.Е.Физиология человека, II том, / Алматы: издательство «Эверо», 260 с., 2020/https://www.elib.kz/ru/search/read\_book/43/

# OŃTÚSTIK QAZAQSTAN **MEDISINA**

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY

<u>~db</u>>

SKMA

SOUTH KAZAKHSTAN

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.39 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

- 6. Бабский Е.Б., Бабская Н.Е.Физиология человека, 3 том, / Алматы: издательство «Эверо», 228 с., 2020 г. <a href="https://www.elib.kz/ru/search/read\_book/44/">https://www.elib.kz/ru/search/read\_book/44/</a>
- 7. Косицкий Г.И Физиология человека.: І-том/ 3–е изд., перераб. и доп.—Алматы: Эверо, 2020. 268 с. <a href="https://www.elib.kz/ru/search/read-book/874/">https://www.elib.kz/ru/search/read-book/874/</a>
- 8. Косицкий Г.И Физиология человека: II-том. / 3—е изд., перераб. и доп.— Алматы: Эверо, 2020. 284<a href="https://www.elib.kz/ru/search/read\_book/875/">https://www.elib.kz/ru/search/read\_book/875/</a>
- 9. ГеоргиеваС.А.Физиология человека. –Алматы: Эверо, 2020. ил., 480 https://www.elib.kz/ru/search/read\_book/2796/
- 10. Касымбеков В.К. и др.Ситуационные задачи по курсу нормальной физиологии. Учебно-методическое пособие /— Алматы: Эверо, -2020. 144 c.https://www.elib.kz/ru/search/read\_book/2774/
- 11. Материалы к лекциям по курсу нормальной физиологии. Часть I / Н. А. Барбараш, М. В. Чичиленко, Г. Я. Двуреченская [и др.]. Кемерово : 2008. 192 с. URL: <a href="https://www.iprbookshop.ru/6150.html">https://www.iprbookshop.ru/6150.html</a>
- 12. Материалы к лекциям по курсу нормальной физиологии. Часть II. Висцеральные системы и их регуляция / Н. А. Барбараш, М. В. Чичиленко, Г. Я. Двуреченская [и др.]. Кемерово : 2008. 156 с.— URL: <a href="https://www.iprbookshop.ru/6151.html">https://www.iprbookshop.ru/6151.html</a>
- 13. Шандаулов А.Х. Жалпы физиология негіздері<a href="https://mbook.kz/ru/index\_brief/374/">https://mbook.kz/ru/index\_brief/374/</a>
- 14. Миндубаева Ф.А., АбушахмановаА.Х.,Шандаулов А.Х.Физиология пәнінен практикалық сабақтарғаарналған нұсқау/Оқу әдістемелік құрал.- Алматы, Эверо, 2020.-175 б. https://www.elib.kz/ru/search/read\_book/605/
- 15. Адам физиологиясы. Динамикалық сызбалар:оқулық / [Электронный ресурс] К. В. Судаков [ж.б.]; қазақтіл. ауд. М. Қ. Қанқожа. Электрон.текстовые дан. (105Мб). М.:ГЭОТАР Медиа, 2017. 464б.
- 16. Қалыпты физиология [Электронный ресурс] :оқулық / қаз.тіл. ауд. Ф. А. Миндубаева ; ред. К. В. Судаков. Электрон.текстовые дан. (1,42Мб). М. : ГЭОТАР Медиа, 2015. 864 бет.эл. опт. диск
- 17. Адам физиологиясы. 1-кітап.Торманов Н., ТөлеухановС., 2015 <a href="http://rmebrk.kz/book/1153557">http://rmebrk.kz/book/1153557</a>
- 18. Торманов, Н., Төлеуханов, С.Адамфизиологиясы: оқулық: Оқулық.1-кітап. Алматы: Бастау, 2015. 344б. <a href="http://rmebrk.kz/book/1153557">http://rmebrk.kz/book/1153557</a>
- 19. ШандауловА.Х Жалпы физиология негіздері: оқулық / А.Х. Шандаулов.— Алматы:Эверо, 2020.— 232 б <a href="https://www.elib.kz/ru/search/read">https://www.elib.kz/ru/search/read</a> book/6998/
- 20. Қалыпты физиология бойынша ахуалдық есептер жиынтығы/Оқуәдістемелікқұралы / В.Қ. Қасымбеков, Р.Е., Нұргалиева, А.Т. Қалдыбаева. – Алматы: Эверо, 2020. –152 б.<u>https://elib.kz/ru/search/read\_book/2776/</u>

#### Гистология

- 1. Гистология, эмбриология, цитология [Электронный ресурс] : учебник / под ред. Ю. И. Афанасьева. Электрон. текстовые дан. (41.1Мб). М. : ГЭОТАР Медиа, 2016. 800 с.
- 2. Гистология. Комплексные тесты: ответы и пояснения [Электронный ресурс]: учебное пособие / под ред. С. Л. Кузнецова. Электрон. текстовые дан. (41.1Мб). М.: ГЭОТАР Медиа, 2014. 288 с. –

MEDISINA **AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN **MEDICAL** 

**ACADEMY** 

<u>~ሪქ</u>ხე~

SKMA

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.40 out of 52

- Гистология [Электронный ресурс]: учебное пособие / С. Ю. Виноградов. -Электрон. текстовые дан. (39.6Мб). - М.: ГЭОТАР - Медиа, 2014. - 184 с. –
- Быков, В. Л. Гистология, цитология и эмбриология [Электронный ресурс]: атлас: учеб. пособие / В. Л. Быков, С. И. Юшканцев. - Электрон. текстовые дан. ( 68,6 Мб). - М.: ГЭОТАР - Медиа, 2013. - 296 с. эл.
- Гистология, эмбриология, цитология [Электронный ресурс]: учебник / под ред. Ю. И. Афанасьева. - Электрон. текстовые дан. (41.1Мб). - М.: ГЭОТАР -Медиа, 2016. - 800 с.
- Гистология с основами цитологии. 6.
- 7. Газизова. А. И., Мурзабекова. Л. М., 2019https://aknurpress.kz/login
- Гистология. Схемы, таблицы и ситуационные задачи по частной гистологии. Виноградов С.Ю., Диндяев С.В., Криштоп В.В. и др, 2012<a href="https://aknurpress.kz/login">https://aknurpress.kz/login</a>
- Абілхайров, С.Ы., Алдабергенова, А.К. Цитология және гистология: Электрондық оқұлық. . - Жетісай: Университет "Сырдария", 2018.http://rmebrk.kz/
- Аяпова, Жұлдызай Омарқызы Гистология 2 [Мәтін] : оқу құралы / Жұлдызай Омарқызы Аяпова. - 2-бас. толықт. - Алматы : Эверо, 2017. -323 6.http://elib.kaznu.kz/.
- Аяпова, Жұлдызай Омарқызы Цитология, эмбриология және гистология [Мәтін]: Жоғары медициналық оқу орындарында оқитын студ. арн. оқу құралы / Ж. О. Аяпова. - Алматы : Эверо, 2017. - 269 б. .http://elib.kaznu.kz/.
- Базарбаева, Жаннат Мусілімқызы Гистология практикумы [Мәтін]: оқу құралы / [ред. Г. Рүстембекова]; әл-Фараби атын. ҚазҰУ. - Алматы : Казак ун-ті, 2016. - 112, [2] б. .http://elib.kaznu.kz/.
- Гистология, цитология и эмбриология [Электронный ресурс]: электронно-микроскопические микрофотографии для студентов / ГУ КГМУ имени С. И. Георгиевского, Кафедра гистологии и эмбриологии. -Симферополь: Б.и., 2013. - 48 с. .http://elib.kaznu.kz/.
- Бородулина, О.В.
- Цитология и гистология Cytology and histology: Практикум. / Костанайский гос. педагогический университет им. У. Султангазина. - Костанай: КГПУ им.У.Султангазина, 2020. - 100 c. - http://rmebrk.kz/
- ATLAS OF HISTOLOGY with Functional Correlations. Thirteenth Edition, Wolters Kluwer.2017.- 1102 p.
- Theory and practice of Histological techniques. Eighth edition. Elsevier Limited.2019.-554 p.
- Textbook of Human Histology. With Color Atlas and Practical Guide/8 th Edition.Jaypee Brothers Medical Publishers .2011.-386 p.
- USMLE Step 1.Lecture Notes 2018. by Kaplan. 2018. -425 p/ 18.
- 19. Zhumabayeva, S.E., Boken, T.S.
- Cytology and histology: Educational-methodical complex... Kokshetau: KGU, 2017. -101 p.http://rmebrk.kz/
- 20. Бородулина, О.В.
  - Цитология и гистология Cytology and histology: Практикум. / Костанайский гос. педагогический университет им. У. Султангазина. - Костанай: КГПУ им. У. Султангазина, 2020. - 100 с. - http://rmebrk.kz/

# OŃTÚSTIK QAZAQSTAN MEDISINA

MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

<u>~db</u>>

SOUTH KAZAKHSTAN **MEDICA**I.

SKMA -1979-ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.41 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

### Основы лучевой диагностики

- 1. Лучевая диагностика заболеваний органов дыхания и средостения [Электронный ресурс]: учебное пособие / Е. Б. Бекмуратов [и др.]; М-во здравоохранения и социального развития РК. ЮКГФА. Электрон. текстовые дан. Шымкент: [б. и.], 2016. эл. опт. диск (CD-ROM)(8.91Мб)
- 2. Сәулелі диагностика [Электронный ресурс] :оқулық / қазақтіл. ауд. А. Б. Ахметбаева ; ред. басқ. Г. Е. Труфанов. Электрон. текстовые дан. (421Мб). М. : ГЭОТАР Медиа, 2014. 576б. с.
- **3.** Патоморфология и лучевая диагностика некоторых заболеваний легких невоспалительной природы у недоношенных новорожденных Серикбай М.Қ. , 2020/https://aknurpress.kz/login
- 4. Дифференциальная диагностика и лечение туберкулеза у взрослых и детей. Бекембаева Г.С., Жандаркулов А.А., 2018/https://aknurpress.kz/login
- **5.** Диагностика и лечение заболеваний органов дыхания. Имангазинова С.С., 2016/https://aknurpress.kz/login
- 6. Лучевая терапия : Учебник. / Под ред. Г.Е. Труфанова. 3-е изд., перераб. и доп. М.: ГЭОТАР-Медиа, 2018. 484 с. <a href="http://rmebrk.kz">http://rmebrk.kz</a>
- 7. Медициналық рентгенология. Оқулық. Жоғарғы медициналық мекемелердің студенттері үшін. / Л.Д. Линденбратен, Л.Б. Наумов, І том. Алматы, «Эверо» баспасы, 2020, 253 б. <a href="https://www.elib.kz/ru/search/read\_book/538/">https://www.elib.kz/ru/search/read\_book/538/</a>
- 8. Медициналық рентгенология. Оқулық. Жоғарғы медициналық мекемелердің студенттері үшін. / Л.Д. Линденбратен, Л.Б. Наумов, ІІ том. Алматы, «Эверо» баспасы, 2020, 286 б. <a href="https://www.elib.kz/ru/search/read-book/543/">https://www.elib.kz/ru/search/read-book/543/</a>
- 9. Хамзин Әбілкәрім. Сәулелік диагностика. Екінші кітап. Ас қорыту жүйесі мүшелерінің қалыпты кәрінісі және ауруларының сәулелік белгілері: монография. Алматы: «Эверо» 2020. 112 б.

### Введение в клинику

- **1.**Датхаев, У. М. Коммуникативные навыки [Электронный ресурс] : учебник / У. М. Датхаев, М. А. Асимов, Г. Ж. Умурзахова . Электрон. текстовые дан.(5,21 МБ). Алматы : Эверо, 2016. 256 с. эл. опт. диск (CD-ROM)
- **2.** Асимов, А. А. Коммуникативтік дағдылар [Электронный ресурс] : оқулық / М. А. Асимов, А. А. Сұлтанбеков . Электрон. текстовые дан.(7,30МБ). Алматы : Эверо, 2016. 260 бет. эл. опт. диск (CD-ROM).
- **3.**Адилова, Л. М. Мейіргердің манипуляциялық әрекетінің алгоритмдері [Электронный ресурс] : оқу құралы = Алгоритмы сестринских манипуляций : учеб. пособие М. : "Литтерра", 2016. 248б.
- **4.**Коммуникативтік дағдырлар. Комммуникативные навыки. Communication skills. Алматы, TOO "Эверо", 118 https://www.elib.kz/ru/search/read\_book/601/
- **5.**Дәрігер мамандығына кіріспе. Клиника, құқық, этика және коммуникация негіздері. Асимов М.А., Оразбакова Г.О., Мадалиева С.Х., Багиярова Ф.А.,2017/ https://aknurpress.kz/reader/web/1545
- **6.**Жедел медициналық жәрдем Қаныбеков А., 2017 <a href="https://aknurpress.kz/reader/web/1346">https://aknurpress.kz/reader/web/1346</a>
- 7. Диагностика және жедел медициналық көмек көрсету алгоритмі / algorithm of diagnosis and emergency care Алпысова А.Р., 2015 https://aknurpress.kz/reader/web/1348

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

2962

SKMA -1979-

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.42 out of 52

	8. Арынгазин, К.Ш., Мажимова, М.Б.
	Первая доврачебная помощь при несчастных случаях : Учебно-методическое
	пособие. / Сост. К. Ш. Арынгазин Павлодар: Кереку, 2013 73 с.
	http://rmebrk.kz/book/68579
	9.S. Kabiyeva Introduction in clinic: Textbook, volume I. – Almaty: 2020 – 263
	p.https://elib.kz/ru/search/read_book/324/
	10. Кабиева С.М.Введение в клинику: Учебник. Том І./С.М. Кабиева Алматы:
	Эверо, 2020. –304 с <a href="https://www.elib.kz/ru/search/read_book/316/">https://www.elib.kz/ru/search/read_book/316/</a>
Laboratory Physical	Skeleton, set of bones, dummies, torso, electronic tablets, interactive anatomical table
Resources	"Pirogov", anatomical panel "Pirogov"
Resources	Microscopes, set of micropreparations, atlas of microphotographs.
	Dummies, Sivtsev table, Forster perimeter, electrocardiograph, tonometer, phonendoscope,
	Sali hemometer.
	Biochemical analyzer, spectrophotometers, set of reagents, test tubes
	Simulators of the Center of Practical Skills
Literature	Анатомия
Literature	Основная
	1. Борзяк Э. И. Анатомия человека. Фотографический атлас. В 3 т. Т. 3.
	Внутренние органы нервная система: учебное пособие - М.: ГЭОТАР - Медиа,
	2016 488 c
	2. Борзяк Э. И. Анатомия человека. Фотографический атлас.В 3-х томах.Том 2.
	Сердечно- сосудистая система. Лимфатическая система М.: ГЭОТАР - Медиа,
	2015. – 368 c.
	3. Борзяк Э. И. Анатомия человека. Фотографический атлас. В 3-х томах. Том 1.
	Опорно - двигательный аппарат М.: ГЭОТАР – Медиа, 2014 480 с
	4. Гайворонский И. В. Анатомия человека. В 2 т. Т. 1. Система органов опоры и
	движения. Спланхология: учебник - М.: ГЭОТАР - Медиа, 2014
	5. Анатомия человека. В 3 т. Т. 1. Опорно-двигательный аппарат:
	иллюстрированный учебник / под ред. Л. Л. Колесникова; М-во образования и науки РФ М.: ГЭОТАР - Медиа, 2014 320 с
	6. Анатомия человека. Т.1: учебник: в 2-х томах / под ред. М. Р. Сапина [и др.]
	М.: ГЭОТАР - Медиа, 2022 528 с.
	7. Анатомия человека. Т.2: учебник: в 2-х томах / под ред. М. Р. Сапина [и др.]
	М.: ГЭОТАР - Медиа, 2021 464 с.
	8. Привес М. Г. Анатомия человека: учебник / М. Г. Привес, Н. К. Лысенков, В.
	И. Бушкович М. : ГЭОТАР - Медиа, 2022 896 с
	9. Кузенбаева Ә. О. Адам анатомиясы. 1 - кітап: оқу құралы / Алматы: Эверо,
	2016 292 бет. с.
	10. Кузенбаева Ә. О. Адам анатомиясы. 2- кітап: оқу құралы Алматы: Эверо,
	2016 248 бет. с.
	11. Рақышев А. Р. Адам денесі. 3 томдық. Т. 1. Сүйектер туралы ілім. – М.:
	ГЭОТАР - Медиа, 2014
	12. Рақышев А. Р. Адам денесі. 3 томдық. Т. 3. Жүйке жүйесі. Сезім мүшелері:
	оқулық / А. Р. Рақышев М. : ГЭОТАР - Медиа, 2014 376
	13. Рақышев А. Р. Адам денесі. 3 томдық. Т. 2. Ас қорыту жүйесі. Тыныс алу
	жүйесі. Несеп-жыныс жүйесі. Эндокриндік бездер. Тамырлар туралы ілім. Лимфа
	жүйесі- М.: ГЭОТАР - Медиа, 2014.
	14. Netter F. H.Atlas of Human Anatomy. Saunders / Elsevier, 2014
	1.1. Activity and the state of

MEDISINA AKADEMIASY SKMA -1979-VII, ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.43 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

15. Drake R. L., Vogl A. W., Mitchell A. W. M. Gray's Anatomy for Students Churchill Livingstone, Elsevier, 2014

### Дополнительная

«Оңтүстік Қазақстан медицина академиясы» АҚ

- 1. Неттер Ф. Атлас анатомии человека: атлас М.: ГЭОТАР Медиа, 2015. 624 с
- 2. Анатомия человека. В 3 т. Т 2. Спланхнология и сердечно-сосудистая система: иллюстрированный учебник / М-во образования и науки РФ; под ред. Л. Л. Колесникова. М.: ГЭОТАР Медиа, 2014. 320
- 3. Анатомия по Пирогову. Атлас анатомии человека. В 3 т. Т. 2. Голова. Шея: М.: ГЭОТАР Медиа, 2013
- 4. Адам анатомиясы. 4-том. Нерв жүйесі (нерв жүйесі, сезім ағзалары): атлас / Ә. Б. Әубәкіров. Астана Фолиант, 2012.
- 5. Адам анатомиясы. 3- том. Жүрек тамыр жүйесі (жүрек, қан тамырлар, лимфа тамырлар): атлас/ Ә. Б. Әубәкіров [т.б.]; ред. А. А. Идрисов. Астана: Фолиант, 2010.
- 6. Адам анатомиясы. 2-том. Ішкі мүшелер жүйесі және эндокринді бездер атлас / Ә. Б. Әубәкіров [ж. б.]; - Астана: Фолиант, 2008. - 251 бет
- 7. Аубакиров А. Б. Адам анатомиясы: атлас. Астана: "Сарыарқа", 2008.
- 8. Неттер Ф. Атлас анатомии человека: атлас М.: ГЭОТАР Медиа, 2015. 624 c

#### Физиология

#### Основная:

- 1. Косицкий, Г. И. Физиология человека. Т.1: учебник / Г. И. Косицкий. 3-е изд. перераб. и доп. Алматы: Newbook, 2021. 268 с.
- 2. Косицкий, Г. И. Физиология человека. Т.2 : учебник / Г. И. Косицкий. 3-е изд. перераб. и доп. Алматы :Newbook, 2021. 284 с
- 3. Косицкий, Г. И. Физиология человека. Т.3: учебник / Г. И. Косицкий. 3-е изд. перераб. и доп. Алматы: Newbook, 2021. 152 с
- 4. Бабский, Е. Б. Адам физиологиясы. 1 том :оқулық. Алматы :Эверо, 2015. 234 бет
- 5. Бабский, Е. Б. Адам физиологиясы. 2 том :оқулық. 3-бас. Алматы :Эверо, 2015. 238 бет
- 6. Бабский, Е. Б. Адам физиологиясы. 3 том :оқулық. 3-бас. Алматы :Эверо, 2015. 218 бет
- 7. Адам физиологиясы. 1 том: оқулық / ред. Г. И. Косицкий. ;Қазақтілінеаударған Ф. А. Миндубаева. Алматы :Эверо, 2015. 294 бет
- 8. Адам физиологиясы. 1том :оқулық / ред. Г. И. Косицкий. ;Қазақтілінеаударған Ф. А. Миндубаева. Алматы :Эверо, 2015. 294 бет
- 9. Адам физиологиясы. Зтом :оқулық / ред. Г. И. Косицкий. -;Қазақтілінеаударған Ф. А. Миндубаева. - Алматы :Эверо, 2015. - 320 бет
- 10. Нормальная физиология: учебник / Под ред. Л. 3. Теля, Н. А. Агаджаняна; Мво образ. и науки РФ. Рек. ГБОУ ВПО "Первый МГМУ им. И. М. Сеченова". М. : "Литтерра", 2015. 768 с. : ил
- 11. Нормальная физиология: учебник / Под ред.академика РАМН Б.И. Ткаченко.

MEDISINA **AKADEMIASY** 

SOUTH KAZAKHSTAN SKMA **MEDICAL ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.44 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

М.: ГЭОТАР - Медиа, 2018. - 688 с. +опт. диск (CD-ROM)

<u>~db</u>>

- Эсенбекова, З. Э. Курс лекций по нормальной физиологии : учебное пособие / 3. Э. Эсенбекова, Т. Н. Наумова, А. С. Алипбекова. - 3-е изд. доп. и перераб. -Бишкек: [б. и.], 2019. - 365 с.
- Нормальная физиология: учебник / Под ред. Л. З. Теля, Н. А. Агаджаняна; Мво образ. и науки РФ. - М.: "Литтерра", 2015.
- Физиология человека: учебник / под ред. Е.Б.Бабского. Алматы: Эверо, 2014. - 743 c
- Адам физиологиясы. 1том :оқулық / ред. Г. И. Косицкий. ;Қазақ тіліне аударған Ф. А. Миндубаева. - Алматы :Эверо, 2015. - 294 бет
- Адам физиологиясы. 2том :оқулық / ред. Г. И. Косицкий. ;Қазақ тіліне аударған Ф. А. Миндубаева. - Алматы : Эверо, 2015. - 320 бет
- Адам физиологиясы. 3 том :оқулық / ред. Г. И. Косицкий. ;Қазақ тіліне аударған Ф. А. Миндубаева. - Алматы :Эверо, 2015. - 320 бет
- Бабский, Е. Б. Адам физиологиясы. 1 том :окулық /. 3-бас. Алматы :Эверо, 2015. - 234 бет
- Бабский, Е. Б. Адам физиологиясы. 2 том :оқулық. 3-бас. Алматы :Эверо, 2015. - 238 бет
- Бабский, Е. Б. Адам физиологиясы. 3 том :окулык. 3-бас. Алматы :Эверо, 2015. - 218 бет
- Сайдахметова, А. С. Физиологиядан тәжірибелік сабақтарға нұсқаулар: оқу құралы. - Караганды : АҚНҰР, 2016. - 260 бет. с.
- Калыпты физиология: окулық / РФ БҒМ; ред. басқ. К. В. Судаков; М.: ГЭОТАР - Медиа, 2015. - 864 бет. + эл. опт. диск

### Дополнительная:

- Миндубаева, Ф. А. Руководство к практическим занятиям по физиологии : учебно-методическое пособие /. - Алматы :Эверо, 2016. - 208 с
- Касымбеков, В. Қ. Қалыпты физиология бойынша ахуалдық есептер жиынтығы: оқу-әдістемелік құрал /. - Алматы: Эверо, 2016. - 152 бет. С
- Қасымбеков, В. Қ. Физиологиялық зерттеу әдістері : оқу- әдістемелік құрал / Алматы: Эверо, 2016. - 176 бет. с.
- Ситуационные задачи по курсу нормальной физиологии: учебнометодическое пособие / В. К. Касымбеков [и др.]. - Алматы :Эверо, 2016. - 144 с
- Сайдахметова, А. С. Физиологиядан тәжірибелік сабақтарға нұсқаулар. -Караганды: АҚНҰР, 2016. - 260 б.
- Ситуационные задачи по курсу нормальной физиологии: учебнометодическое пособие /В. К. Касымбеков [и др.]. - Алматы :Эверо, 2016. - 144 с.
- Қасымбеков, В. Қ. Қалыпты физиология бойынша ахуалдық есептер жиынтығы: оқу-әдістемелік құрал / Алматы : Эверо, 2016. - 152 бет. с.
- Қасымбеков, В. Қ. Физиологиялық зерттеу әдістері: оқу- әдістемелік құрал / В. К. Қасымбеков, Ф. К. Балмағанбетова, А. Т. Қалдыбаева. - Алматы : Эверо, 2016. -176
- Рахыжанова, С. О. Физиология анатомия негіздерімен: оқуқұралы / С. О. Рахыжанова, А. С. Сайдахметова, Г. М. Токешева; ҚР денсаулықсақтауминистрлігі; СММУ. - ; СММУ оқу-әдістемелік кеңесі шешімімен бекіт. және бас. ұсынылған. - Қарағанды : ЖК "Ақнұр", 2014. - 200 бет.

### ońtústik qazaqstan

MEDISINA AKADEMIASY SKMA MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.45 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

- 10. Ситуационные задачи по курсу нормальной физиологии: учебнометодическое пособие /В. К. Касымбеков [и др.]. Алматы :Эверо, 2016. 144 с.
- **11.** Нұрмұхамбетұлы, Ә. Орысша-қазақшамедициналық (физиологиялық) сөздік = Русско-казахский медицинский (физиологический)

### Гистология

#### Основная

- 1. Гистология, эмбриология, цитология: окулық / ред. басқ. Ю. И. Афанасьев; Н. А. Юрина; қаз. тіліне ауд. Және жауапты ред. Р. Ж. Есимова; К. Т. Нурсейтова. 6-бас., өңд. жәнетолықт. М. : ГЭОТАР Медиа, 2014. 896 бет. Ил
- 2. Гистология. Комплексные тесты: ответы и пояснения [Текст]: учебное пособие / под ред. проф. С. Л. Кузнецова, проф. Ю. А. Челышева. М.: ГЭОТАР Медиа, 2014. 288 с.: ил
- 3. Тұңғышбаева, 3. Б. Цитология және гистология негіздері [Мәтін] : оқулық / 3. Б. Тұңғышбаева. Алматы : АҚНҰР, 2019. 248 бет. с.
- 4. Данилов, Р. К. Гистология, эмбриология, цитология [Текст] : учебник / Р. К. Данилов, Т. Г. Боровая. М.: ГЭОТАР Медиа, 2018. 520 с. : ил
- 5. Юй Р. И. Основы гистологии полости рта и зубов : учебное пособие для стоматологов / Р. И. Юй, . 2-е изд., доп. и перераб. Алматы : TechSmith, 2023. 232 с
- 6. Inderbir Singh. Textbook of Human Histology.With Color Atlas and Practical Guide/8 th Edition.Jaypee Brothers Medical Publishers .2016.-302 р.Перевод Гистология человека
- 7. Dudek Ronald W. Embryology / Ronald W. Dudek. 5th ed. [s. l.]: Wolters Kluwer, 2014. 158 р. Перевод заглавия: Эмбриология
- 8. Gartner Leslie P. Cell Biology and Histology / Leslie P. Gartner. 8th ed. [s. l.]: Wolters Kluwer, 2019. 436 р. (BRS. Board Review Series)Перевод заглавия: Клеточная биология и гистология

### Дополнительная

- 1. Тұңғышбаева З.Б. Цитология және гистология негіздері : практикум / З. Б. Тұңғышбаева. Алматы : АҚНҰР, 2019. 152 бет. С
- 2. Textbook of Human Histology. Inderbir Singh /Sixth Edition/Inderbir Singh 2010.- 386 р. Перевод Учебник по гистологии человека

### Биохимия

### Основная

- 1. Биохимия, под ред. Чл.-корр. РАН, проф. Е.С. Северина.- М., 2011
- 2. Тапбергенов С.О. «Медицинская и клиническая биохимия».- Эверо, 2017. Ітом;
- 3. Тапбергенов С.О. «Медицинская и клиническая биохимия».- Эверо, 2017. Птом;
- 4. Тапбергенов С.О. Медицинская биохимия. Астана, 2011.
- 5. «Биохимия» Е.С. Севериннің ред. басшылығымен, «ГЭОТАР, Медиа», 2014ж;
- 6. Тапбергенов С.О. Медициналық биохимия Алматы, 2011
- 7. Сейтембетов Т.С. Биологиялық химия-Алматы 2011
- 8. Сеитов З.С., Биохимия, Алматы, 2012

### Дополнительная:

- 1. Кэмпбелл М.К., Биохимия, 1-часть, Алматы-2013;
- 2. Биохимия: учебник / под ред. Е. С. Северина. 5-е изд., испр. и доп. -

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.46 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

- 3. М.: ГЭОТАР Медиа, 2011.
- 4. Руководство к практическим занятиям по биологической химии: учеб.методическое рук. для студентов мед. ВУЗов / под ред. С. О. Тапбергенова. -Алматы :Эверо, 2012. - 150 с.
- 5. Биологическая химия с упражнениями и задачами : учебник / под ред. С. Е. Северина. М. : ГЭОТАР Медиа, 2011. 624 с. +эл. опт.диск (CD-ROM
- 6. Биохимия сұрақтары мен жауаптары. ҚР ҰҒА корр., проф. С.М.Адекеновтің ред. басшылығымен.-Астана,2003.
- 7. П.К.Кенжебеков, «Биологиялық химия», Шымкент, 2005ж.

<u>~ሪქ</u>ხე~

SKMA

- 8. Асилбекова Г.К., Ордабекова А.Б., «Гормондар биохимиясы», Шымкент, 2012ж
- 9. Baynes J.W., Dominiczak M.H. Medical Biochemistry, Mosby Elsevier, 2014
- 10. Ferrier, Denise R. Biochemistry: Lippincott's Illustrated Reviewes: textbook/Denise
- 11. R. Ferrier. -7th ed.- Philadelphia: Wolters Kluwer, 2017.

# Основы лучевой диагностики и фтизиатрии

#### Основная

- 1. Лучевая диагностика : учебник / М-во образования и науки РФ ; под ред. Г. Е. Труфанова. ; Рек. ГОУ ВПО "Первый МГМУ им. И. М. Сеченова". М. : ГЭОТАР Медиа, 2015. 496 с.
- Сәулелі диагностика: оқулық /. : ГЭОТАР Медиа, 2014. 576 бет.
- 3. Лучевая диагностика : учебник / М-во образования и науки РФ ; под ред. Труфанова Г. Е. ; Рек. ГОУ ВПО «Первый МГМУ им. И. С. Сеченова» .–М. : ГЭОТАР Медиа, 2013.-496 с
- 4. Лучевая терапия: учебник / М-во образования и науки РФ ; под ред. Г. Е. Труфанова. Рек. ГОУ ВПО "Первый Моск. гос. мед. ун-т им. И. М. Сеченова". М. : ГЭОТАР Медиа, 2013. 208 с.
- 5. Илясова, Е. Б. Лучевая диагностика [Текст] : учеб. пособие / Е. Б. Илясова, М. Л. Чехонацкая, В. Н. Приезжева. М. : ГЭОТАР Медиа, 2013. 280 с. : ил
- 6. Лучевая диагностика заболеваний органов дыхания и средостения [Текст]: учебное пособие / Е. Б. Бекмуратов [и др.]; М-во здравоохранения и социального развития РК. ЮКГФА. Шымкент: [б. и.], 2016. 104 с
- 7. Рентгенологическая диагностика туберкулеза органов дыхания у детей и подростков [Текст] : учебное пособие / Р. А. Агзамова [и др.]. Алматы : New book, 2022
- 8. Lindenbraten, L. D. Medical x-ray radiography. Part 1. [Текст] : course book / L. D. Lindenbraten, L. B. Naumov. Almaty : "Evero", 2017. 208 p.
- 9. Lindenbraten, L. D. Medical x-ray radiography. Part 2. [Текст] : course book / L. D. Lindenbraten, L. B. Naumov. Almaty : "Evero" , 2017. 236 p. ISBN: 5500.00 Тг. Перевод заглавия: Медицинская рентгеновская радиография

### Дополнительная

- 1. Лучевая диагностика органов грудной клетки: национальное рук. / Гл. ред. серии С. К. Терновой, Гл. ред. тома В. Н. Троян, А. И. Шехтер. М.: ГЭОТАР Медиа, 2014. 584 с.
- 2. Бургенер, Фрэнсис А. Лучевая диагностика заболеваний костей и суставов. Более 1000 рентгенограмм: руководство: атлас: пер. с англ. / Фрэнсис А. Бургенер, М. Кормано, Т. Пудас; под ред., С. К. Тернового, А. И. Шихтера. М.: ГЭОТАР -

MEDISINA AKADEMIASY SKMA MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.47 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

Медиа, 2014. - 552 с.

- 3. Хамзин, Ә. Сәулелік диагностика. 1 кітап : монография / . Алматы : New book, 2022. 148 бет
- 4. Хамзин, Ә. Сәулелік диагностика. 2 кітап : монография / . Алматы : New book, 2022. 109 бет
- 5. Ultrasonography in Obstetrics and Gynecology.Mary E.Norton,Leslie M.Scoutt,Vickie A.Feldstein.- Elsevier, 2017. 1252 p.
- 6. Sutton David. Radiology and imagig for medical students. 7th ed. CHURHILL LIVINGSTONE. Elsevier

### Введение в клинику

### Основная:

- 1. Клиникаға кіріспе. Том 1 [Мәтін] :оқулық / С. М. Кабиева [ж.б.] ; ҚР денсаулықсақтау және әлеуметтік даму министрлігі. ҚММУ. Алматы :Эверо, 2016. 287 б. с
- 2. Каркабаева, А. Д. Клиникаға кіріспе-2. 1 -бөлім [Мәтін] :оқуқұралы / А. Д. Каркабаева, Н. Н. Теляева. Астана : [б. и.], 2017. 152 бет. с.Каркабаева, А. Д. Клиникаға кіріспе-2. ІІ-бөлім [Мәтін] :оқуқұралы / А. Д. Каркабаева, Н. Н. Теляева. [Б. м.] : Астана, 2017. 208 бет. с
- 3. Каркабаева, А. Д. Клиникаға кіріспе-2. ІІ-бөлім [Мәтін] : оқуқұралы / А. Д. Каркабаева, Н. Н. Теляева. [Б. м.] : Астана, 2017. 208 бет. с
- 4. Толекова, С. 3. Клиникаға кіріспе [Мәтін] :оқу құралы / С. 3. Толекова. Қарағанды : ЖК "Ақнұр", 2013. 244 бет. с
- 5. Теляева, Н. Н. Введение в клинику -2. Ч. 1 [Текст] : учеб. пособие / Н. Н. Теляева, А. Д. Каркабаева. Астана : [б. и.], 2017. 214 с.
- 6. Теляева, Н. Н. Введение в клинику -2. Ч. II [Текст] : учеб. пособие / Н. Н. Теляева, А. Д. Каркабаева. Астана : [б. и.], 2017. 210 с
- 7. Кабиева, С. М. Введение в клинику. Т. 1. [Текст] : учебник / С. М. Кабиева. Алматы :Эверо, 2016. 304 с
- 8. Курноскина В. П. Пациенттің клиникалық жағдайын бағалау : оқу құралы / В. П. Курноскина, Д. К. Жүнісова. Қарағанда : Medet Group , 2020. 224 бет

### Дополнительная:

- 1. Алпысова А. Р. Ауруханаға дейінгі кезеңде жедел көмек көрсету алгоритмдері = Алгоритмы оказания неотложной помощи на догоспитальном этапе : оку құралы / А. Р. Алпысова, Н. В. Молодовская ; ҚР Денсаулық сақтау және әлеуметтік даму министрлігі. Караганда : АҚНҰР, 2019. 120 б. с.
- 2. Қаныбеков А. Жедел медициналық жәрдем : оқу құралы / А. Қаныбеков. 2-ші бас. Караганды : АҚНҰР, 2017. 266 бет. с.
- 3. Аяпов К. Модернизация сестринского образования Казахстана : сб. / К. Аяпов. 2-е изд., перераб. [б. м.] : New book, 2022. 220 с.
- 4. Kabiyeva, S. Introduction in clinic. Volume 1 [Текст] : textbook / S. Kabiyeva. Almaty : "Evero" , 2016. 263 p.
- 5. Hammer, Gary D. Pathophysiology of Disease: An Introduction to Clinical Medicine / Gary D. Hammer. 7nd ed. New York: Mg Graw Hill. Education, 2014. 762 p.
- 6. Пациенттерді оқыту : оқу құралы / Д. К. Жүнісова [және т. б.]. Қарағанды : АҚНҰР, 2020. 104 бет

### ońtústik qazaqstan

MEDISINA AKADEMIASY



SOUTH KAZAKHSTAN **MEDICAL** 

ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.48 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

7. Методы клинических лабораторных исследований: к изучению дисциплины / ред. В. С. Камышников. - 6-е изд. перераб. - М.: Медпресс-информ, 2013. - 736 с.

8. Даулетбаев Д.А. Мейірбике манипуляциясы алгоритмдері (стандарттары) Эверо-2024

### 12. Discipline Policy

Requirements for students:

- 1. not to be late for classes;
- 2. not to miss classes without good reason;
- 3. to have anatomical gloves, tweezers and a scalpel;
- 4. to be active during practical classes;
- 5. to be able to work in a team;
- 6. to complete and pass self-regulatory work tasks on time, according to schedule;
- 7. not to do extraneous things during classes;
- 8. to be tolerant, open and friendly towards fellow students and teachers;
- 9. to observe ethical standards of conduct when working with anatomical specimens and organs of the human body;
- 10. to treat the property of the department with care;
- 11. to make up missed classes for good reasons in a timely manner;

«Оңтүстік Қазақстан медицина академиясы» АҚ

- 12. to observe safety precautions in the classroom.
- 13. During lectures/practical classes/self-regulatory work tasks, students are prohibited from:
- 14. using mobile devices/gadgets;
- 15. leaving the classroom/classroom (leaving the workplace at the clinical/industrial base) without the teacher's permission.

### **Dress code requirements**

The student must:

1.have a clean, ironed medical gown, cap/hat;

2.have a neat hairdo, short-cut nails; (for girls: bright makeup and bright nail polish are not allowed).

### **Penalties:**

- 1. In case of a single violation of the module policy, the student receives a verbal warning from the teacher.
- 2. In case of repeated violations of the module policy, the student provides an explanatory note addressed to the head of the department.
- 3. In case of a systematic violation of the discipline policy, the head of the department submits a corresponding report to the dean's office.
- A student who fails to appear for the midterm control without a valid reason and receives an unsatisfactory grade for one of the types of control (MK1, MK2, TKsr) is not admitted to the exam in the discipline; A student who fails to appear for the midterm control for a valid reason, immediately after starting classes, with the permission of the dean's office, receives a work-off sheet.
- For 1 absence from lectures, for an invalid reason, the penalty point is 1.0 point and is subtracted from the midterm control grades.
- For 1 absence from the SIW, for an unjustified reason, the penalty point is 2.0 points and is subtracted from the SIW grades
- Incentive points are taken into account according to the department policy. Incentive points are added to the grade of the midterm control. For active participation in the work of the SIW and seminars in each discipline, the student is awarded an incentive point from 5 to 10.

If students do not score 50% of the current rating (i.e. 30 points), they are not allowed to take the final control (exam).

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

### The student must:

• observe medical ethics and deontology;

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN
MEDICAL
ACADEMY

DICAL ADEMY

П, АСАВЕМ НО «Южно-Казахстанская медицинская академия»

SKMA

«Оңтүстік Қазақстан медицина академиясы» АҚ

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.49 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

- do not smoke in the academy;
- keep the department clean;
- do not damage furniture in classrooms;
- treat textbooks with care;
- maintain the appearance of a medical student;
- observe safety regulations;
- wear masks during the flu epidemic;
- do not miss classes without a good reason;
- make up classes missed for a good reason on time, but only with permission from the dean's office and at the time determined by the teacher;
- do not be late for classes;
- have the necessary documentation for classes: syllabus, methodological recommendations for classes, lectures, notebook and textbook;
- prepare for classes conscientiously;
- be active during classes;
- do not engage in extraneous activities during classes: do not talk, do not smoke, do not chew 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 another subject;
- maintain silence and order during breaks;
- complete and submit SRO (electronic) on time according to the schedule; with written work checked for plagiarism.

### Penalties for failure to complete sections of the work:

- if a lecture is missed without a valid reason, the grade for the midterm assessment is reduced by 1 point for each missed lecture;
- if a midterm assessment is missed without a valid reason, the grade for the SIW is reduced by 2 points for each missed lesson;
- if the SIW is not submitted on time without a valid reason (later than the specified week), the SIW is not accepted;
- if the discipline policy is violated once, the student is given a warning;
- if the discipline policy is violated repeatedly, information about the student's behavior is sent to the dean's office of the faculty;

Criteria for non-admission to the final assessment

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

### 13. Academic policy based on the moral and ethical values of the academy

## Academic Policy. 4-v. Student Honor Code

### P.12. Grading Policy

Final assessment – students who have fully mastered the course program and have received an admission rating are admitted to the exam.

The final assessment is calculated automatically based on the average assessment of the current assessment, the average assessment of the interim assessments, and the assessment of the final assessment:

Admission rating (60%) = average assessment of the interim assessments (20%) + average assessment of the current assessment (40%)

Average grade of midterm controls = MC1 + MC2 / 2

Average grade of current control = arithmetic mean of current grades taking into account the average grade for SIW and penalty points.

Final grade (100%) = MCmd x  $0.2 + ACS 0.4 + FC \times 0.4$ 

<u>~cdb</u>>-

SKMA

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.50 out of 52

Working curriculum of the discipline: Digestive and endocrine systems in the norm

Final grade (100%) = Admission rating (60%) + Final control (40%)

### **Example of calculating the final grade of a student:**

Penalty points:

For example, a student missed 2 lectures =  $1.0 \times 2 = 2.0 \text{ points}$ 

For missing 1 SRO = 2.0 points

MC 1 - 80 points

MC 2 - 90 points

MC aver = (80-2)+90 = 84 points

Average arithmetic assessment of current control (practical and laboratory classes) – 80 points

SIW 1-75 points

SIW 2 - 85 points

SIWT... – number of SROs

Average assessment for SRO = 75 + 85 + N... = 80 points

2 + N...

Average current grade taking into account SRO and penalty points:

 $TKSr^* = TKsr + SROsr - Ksro = 80 + (80 - 2.0) = 158 = 79.0$ 

222

Admission rating (60%) = RKsr x  $0.2 + TKsr x 0.4 = 84 x 0.2 + 79.0 \times 0.4 = 16.8 + 31.6 = 48.4$ points

Final control (40%), for example, the student answered 45 questions correctly out of 50 (90%),

 $90 \times 0.4 = 36 \text{ points}$ 

Final grade (100%) =

1) RD (60%) + IC (40%) = 48.4 + 36 = 84.4 points

2) RKsr x 0.2 + TKsr x 0.4 + IR x 0.4 = 84.0 x 0.2 + 79.0 x 0.4 + 90x 0.4 = 16.8 + 31.6 + 36 = 84.4points

MCaver – average grade of interim controls

CCaver– average grade of current control

FC – grade of final control

PK 1 – mid-term control 1

PK 2 – mid-term control 2

AR– admission rating

ACGT\* – average current grade taking into account SIW and penalty points

CML – coefficient of missing the 1st lecture

CMSIW– coefficient of missing the 1st SIW

## ońtústik qazaqstan

«Оңтүстік Қазақстан медицина академиясы» АҚ

MEDISINA AKADEMIASY SOUTH KAZAKHSTAN

SKMA -1979-

MEDICAL ACADEMY

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.51 out of 52

	n, approval and revision		
Library and Information Center	Protocol № 9 14.06. 24	Head of the LIC Darbicheva R.I.	Der
Date of approval at the department	Protocol № 11 30. 05. 84	Acting Head of the Department Ermolaeva O.A.	def
Date of approval at the department	Protocol № 10 28.05. Ju	Head of the Department of Morphophysiology, Ph.D., Acting Professor Tanabaev B.D.	28
Date of approval at the department	Protocol № 13 30. 05. 24	Head of the Department of Biology and Biochemistry, Professor Esirkepov M.M.	4.48
Date of approval at the department	Protocol No 12 27.05. du	Head of the Department of Phthisiopulmonology and Radiology, Ph.D. Kasaeva L.T.	M. M. 8
Date of approval for AC EP	Protocol № 11 14. 06. 24	Chairman of the AC Kalmenov N.J.	Mil

OŃTÚSTIK QAZAQSTAN **MEDISINA** 

<u>~96</u>> SKMA -1979-**AKADEMIASY** «Оңтүстік Қазақстан медицина академиясы» АҚ

SOUTH KAZAKHSTAN

**MEDICAL ACADEMY** 

АО «Южно-Казахстанская медицинская академия»

Department of Morphophysiology Department of Biology and Biochemistry Department of Phthisiopulmonology and Radiology Department of Introduction to Clinic

p.52 out of 52