	OUTH KAZAKHSTAN
MEDISINA SKMA	MEDICAL
	CADEMY
«Оңтүстік Қазақстан медицина академиясы» АҚ 🏹 А	О «Южно-Казахстанская медицинская академия»
Department of "Normal Anatomy"	42/11
Department of "Normal and Pathological Physiological Physi	ogy" 45/11
Department of "Pathological Anatomy and Histol	ogy"
Department of "Biology and Biochemistry	46/11
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Department of "Normal Anatomy" Department of "Normal and Pathological Physiology" Department of "Pathological Anatomy and Histology" Department of "Biology and Biochemistry Department "Introduction to the clinic"

Working curriculum of the discipline "Blood and lymph are normal" Educational program: 6B10115 "Medicine"

1.	General information about the discipline					
1.1	Discipline code: KLN 2210	1.6	Academi	c year: 2023-2024		
1.2	Name of discipline: "Blood and lymph are normal."	1.7	Kours: 2			
1.3	Prerequisites: Introduction to the profession,	1.8	Semester	: 3		
	Structural organization of human physiological					
	processes.					
1.4	Postrequisites: Blood and lymph in pathology	1.9	Number	of credits (ECTS): 3/90		
	Cycle: BD	1.10	Compone	ent: UC		
2.	Description of the discipline	•				
Morph	ofunctional and biochemical features of blood and lymph,	general n	nethods of	examining a patient with diseases of		
-	matopoietic and lymphatic systems. Types and interpretatio	-				
3.	Summative Assessment Form	-				
3.1	✓ Testing		3.5	Coursework		
3.2	Writing		8.6	Essay		
3.3	Oral		3.7	Project		
3.4	OSPE/OSKE or practical skills reception	2	3.8	Other (specify)		
4.	Goals of the discipline	. 11	C (1			
	ation in students of a complex of knowledge and under					
	n, about the basic patterns of metabolic processes that					
	n at the cellular, tissue and organ level of the whole o		, as well a	is skills in clinical and laboratory		
	ch methods, pre-medical care and patient - centered car	e.				
5.	Final learning outcomes (module LO)					
LO1	demonstrates knowledge of the structures and gener	-		0		
	tissues, hematopoietic organs and lymphatic system					
	the standpoint of general physiology and integrative h					
LO 2	demonstrates knowledge of the basic metabolic proc	esses oc	curring in	tissues, the mechanisms of their		
	regulation at the cellular level and the possible co	nsequer	ices of th	eir disruption. Knows the basic		
	biochemical constants of biological fluids of the huma	n body i	in normal	conditions		
LO3	shows readiness to collect and analyze the patient's co	omplain	ts, his mee	dical history, examination results,		
	laboratory, instrumental and other studies in order to	recogniz	the cond	dition or establish the presence or		
	absence of the disease for monitoring and caring for pa	atients				
LO4	Demonstrates: own knowledge and skills when cond	lucting	biochemic	al, morphophysiological studies;		
	the ability to conduct a literature search and analysi	-				
	discipline; ability to work in a team. Has an unders					
	approaches in the diagnosis of human diseases. Takes					
	new discoveries and techniques					
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LO disciplines EP learning outcomes with which LO disciplines are ass	anistad

5.1	LO disciplines	EP lear	ning outcome	es with which LO	disciplines	are associ	iated		_	
	LO 1	LO 1 – 1	Provides patie	nt-centered care ir	n the field of	biomedic	cal, clinical	, epidemiologic	cal	
	LO 2	and socio-behavioral sciences for the most common diseases.								
		and soc	10-001111/10111	sciences for the in		i uiscases.				
	LO 3									
	LO 4	LO 4 – C	Conducts effe	ective measures a	imed at dia	ignosing,	treating, a	and preventing	g	
		commo	n and early f	orms of diseases	_					
			-		•					
6.	Detailed information	ation about the discipline								
6.1	Location of the De	partment	of Morphopl	hysiology - pl. A	l-Farabi 1,	main acad	demic buil	ding, ground fl	loc	
	internal tel. – 40-82-2									
	Shymkent, st. Al-Far									
					oi, audiene	$c_{3} = 1240$	+a, 0, 1	±00, 112±00, 112•	<u>-</u> 0	
	№411a, b. Departmer									
	Physiology: Shymken	ıt, sq. Al-	Farabi, educat	tional building №2	2, 4-5 floor;	tel.40-82-2	26 (422.42)	3);		
	Department of Biolog	gy and Bi	iochemistry:pl	l. Al-Farabi 1, mai	n academic	building, 4	th floor			
	Department of "Intro							Hospital, №2	2.	
	Zhandosova, 92/9 (me			•	•	5	J	;	-, -	
<i>(</i>)		-				x 1	GHUD	GTU		
6.2	Number of hours	Lect	ures	Pract.		Lab.	SIWP	SIW		
		6		24		-	18	42		
5.3 Dis	cipline study plan									
№	Discipline		Lecture	Prak	SIWP	SIW		Number of hours		
1 day	Anatomy			1	1	3				
1 day	Physiology		-	-	1	3				
	Histology		-		-	-				
	Biochemistry		1	2	-	-				
	Introduction to the clinic		-	-	-	-				
2	Anatomy		1	1	-	-				
day	Physiology		-	-	-	-				
	Histology		-	-	1	3				
	Biochemistry		-	2	-	-				
	Introduction to the clinic		-	-	1	3				
Day	Anatomy		-	-	-	-				
3	Physiology		1	1	-	-				
	Histology		-	1	-	-				
·	Biochemistry Introduction to the clinic		-	- 1	2	4				
4 day	Anatomy		-	1	- 1	2				
4 day	Physiology		-	-	1	2				
	Histology				-	-				
	Biochemistry		1	2	-	-				
	Introduction to the clinic		-	-	-	-				
5 day	Anatomy		-	-	-	-				
	Physiology		-	1	-	-				
	Histology		1	1						
	Biochemistry		-	-	2	5				
D	Introduction to the clinic		-	1	-	-				
Day 6	Anatomy Physiology		-	- 1-	-	-				
0	Histology		-		- 1	2				
	Biochemistry		-	2	-	-				
	Introduction to the clinic		1		1	2				
Day	Anatomy		-	-	-	-				
7	Physiology		-	1	1	2				
	Histology		-	1	1	2				
	Biochemistry		-	-	-	-				
_	Introduction to the clinic			1	1	2				
Day	Anatomy		-	-	1	2				
8	Physiology		-	1	-	-				
	Histology Biochemistry		-	1	- 2	- 5				
			-	-		1 7	1			

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		Dep Department o	artment of "N f "Normal and	lorma d Path	K O AO A	,''	кно-Казах	станская мед	ицинска 42/11 45/11	ая ака,	демия»
	D	Departr	nent of "Biolo	ogy an uction	atomy and Histology d Biochemistry to the clinic" ipline	/"			46/11 75/11 Page fr	om	
					[a n a
1 2	Anatomy Physiology		-		-		-	-	0.50		3 credit – 90 hours
3	Histology		-		-		-	-	0.00	cr	Lecture-6, Practical classes - 24 hours SIWP-18h. SIW-42h.
4 5	Biochemistry Introduction to the clinic		-		-		-	- 1.0cr	0.50		
7.	Information about t	eachers	-		-		-	-	0.50	cr	
	FULL NAME		ees and		Email address		Scient	ific interests,	etc	Ac	chievements
J1≌		-	sition		Linuir address		berent	ine interests,	ete.	110	ente vententes
1.	Tanabaev Baymakhan Dilbarkhanovich	Head of D	epartment, n.D.,	<u>b.ta</u>	nabayev@mail.ru		research i microhen the pelvic	tion of scienti is "Macro- nocirculatory le organs during f the internal i	ped of	cond class	s lectures and ucts practical es on anatomy azakh and ian.
2.	2. Murzanova Ph.D., Ac DinarAlpenovna professors			dina.murzanova@gmai l.com		ai	The direction of scientific research is "Adam anatomysyndagyishkiarzaata ularynyngulttyksipaty.			Gives lectures and conducts practical classes on anatomy in Kazakh, Russian and English.	
3.	Turekulova Akzharkyn Kenesovna		teacher, aster			The direction of scientific research is "Ystyk climate zhagdayynda korgasynnyn arterial main lines kabyrgasynyn kurylymyna tigizetin aseri."			Gives lectures and conducts practical classes on anatomy in the Kazakh language.		
4	Ospanov Daken Tolenovich	Senior	teacher	eacher dakenospanov@list.ru					cond class	s lectures and ucts practical es on anatomy e Kazakh lage.	
5	Dzhubanishbaeva Gaukhar Niyazkulovna		r teacher, aster	gaukharai_kairat@mail.r u		ail.r	 Direction of scientific research – "MƏMS endiru barysyndagy profilaktikalyk zhumysynyn maselelerin aykyndau" 			Give cond class	s lectures and ucts practical es on anatomy e Kazakh
1.			, Doctor of Sciences	f sisabekov47@mail.ru		u	"Neuroimmunogenesdin zhergilikty mechanismderinin morphology and negligence."		ence."	Gives lectures and conducts practical classes on histology	
2.	Nurakhovich doctor o		professor, of medical ences	sult_med@mail.ru			Scientific direction: "Study of the morphological structure of hemo- immunopoiesis"		tudy	cond class	s lectures and ucts practical es on histology Kazakh and ian.
3.	Toimbetova Karlygash Abibullaevna	senior tea	cher	tojr	nbetova71@mail.i	ru		direction: orphology"		cond class in	s lectures and ucts practical es on histology Kazakh and ian languages
4.	Duysembieva Zhazira Mereykyzy	teacher		zha	zira-0508@mail.ru	u		research wo topic "O	ork on ntustik	Cond	lucts practical es on histology

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				Kazakstan aimagyndagy turgyndardyn salauatty omir saltyn kalyptastyrudyn gylymi negizderi."	in the Kazakh language.
5.	Zhakipbekova Galiya Saparovna	head department, PhD, Acting professors	<u>Galiya_074@mail.ru</u>	"The influence of bioslastilin on the processes of lipid peroxidation in hepatocytes and blood plasma during phosphorus intoxication" Takyryp Boyynsha Zhumysy Zhurgizedi, candidate of dissertation of Korgada.	Author of 35 scientific publications, prepared 1 pre- patent, 1 patent.
6.	Satybaldieva Nazgul Mutalkhanovna	master, senior teacher	n_a_z_i_92@mail.ru	Conducts research work on the topic "Tynyszhuyesiaurularynantu yndaytynmugedektiktinaleum ettik-medicinalykmaseleleri". Author of 11 scientific publications.	Gives lectures and conducts practical classes in physiology in Kazakh and Russian.
7.	Murina Natalya Mikhailovna	senior teacher	namuri12@mail.ru	Author of 9 scientific publications.	Gives lectures and conducts practical classes in physiology in Kazakh and Russian.
8.	Azimbaeva Saule Nurmakhanovna	master, senior teacher	saule.a@mail.ru	Author of 7 scientific publications.	Gives lectures and conducts practical classes in physiology in Kazakh and Russian
	Biochemistry				
1	Kenzhebekov P.K.	Ph.D., professor	kenzhebekov.p @gmail.com	"Study of the chemical composition of volatile aroma-forming compounds in some meat products"	Author of 42 scientific publications, 1 textbook
2	Ordabekova A.B	Master of Biology, senior teacher	asmira75@mail.ru	"Microelementoses"	Author of 20 scientific publications, 1 textbook
3	Asilbekova G.K.	Master of Biology, senior teacher	shahats@mail.ru	"Microelementoses"	Author of 10 scientific publications, 1 textbook
4.	Kanzhigitova M.Zh.	Master of Biology, senior teacher	Molya_1503@mail.ru		Authorof9scientificpublications,1textbook
5.	Beisebaeva L.M.	senior teacher	lyzzatb70@list.ru	"Organization of clinical diagnostic laboratory service in modern conditions in the Republic of Kazakhstan"	Author of 4 scientific publications
6.	Zhienbaeva A.	teacher			1 scientific

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					publication
	Introduction to the clinic				
1	Zhumadilova Akmaral Rakhmatullaevna	Head of the department, candidate of medical sciences, acting associate professor	akmaral- aru@mail.ru	Doc topic: features of the formation of the reproductive system of teenage girls living in the area of influence of organochlorine pesticides. Author of more than 40 scientific and scientific- methodological publications, 6 textbooks.	Gives lectures and conducts classes in Kazakh and Russian.
2	Ababakirova Dilsara Talibbaevna	assistant	dilsara_ababakirov a@mail.ru	Innovative technology in the treatment of uterine fibroids	Gives lectures and conducts classes in Russian, Kazakh and English.
3	Ermolaeva Olga Aleksandrovna	assistant	Olga83_07@mail.r u	Author of more than 40 scientific publications, 1 textbook in Russian and English.	Gives lectures and conducts classes in Russian and Kazakh languages.

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Department of "Normal and Patholo	Department of "Normal and Pathological Physiology"				
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Department of "Biology and B	46/11				
Department "Introduction to	75/11				
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Da y	1		Summary	LO modu le	Nu mb er of hou rs	Forms/metho ds/ educational technologies	Forms/ assessment methods
1 day	Anatomy. Practical lesson №1.	Organshemato poiesis and immune system.Central andperipheral organs of the immune system. Bone marrow. Thymus. Spleen. Tonsils. The lymph nodes.		LO1 LO4	1	Work in small groups with anatomical preparations, torsos, dummies, tables, tablets, posters on the interactive panel "Pirogov" and/or solving test and situational problems	Oral questioning, evaluation sheet, solving situational problems, evaluation sheet, completing test tasks
	Anatomy of SIWP	Lymphatic vessels, head and neck nodes.	Lymphatic vessels, head and neck nodes.	LO1 LO4		Working with educational literature, passing the SIW in the form of: -presentation	Oral survey. Evaluation sheets for all forms of completed assignments.
	Physiology of SIWP	SIWP. 1 SIW Physiological basis of blood transfusion. Blood transfusion.	Blood groups and physiological basis of blood transfusion. Blood transfusion.	LO1	1/3	Preparation and defense of the presentation	Review and protect your presentation
	Biochemistry lecture №1 Biochemistry practice №1	Biochemistry of blood. Blood functions. Laboratory work:	Biochemistry of blood. Composition and biological functions of blood. Blood plasma proteins. Blood plasma enzymes. Quantitative determination of total protein in blood serum.	LO1 LO1 LO2	1	Overview Seminar, situational tasks, testing, laboratory work	Feedback Questions Check list
2 day	daylecturemorphology of the lymphatic system and itsduct. I nodes		Thoracic duct. Right lymphatic duct. Lymphatic vessels and nodes of individual areas of the body. Patterns of distribution of lymphatic	LO1	1	Overview	Feedback Questions

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	main links of this system and their structure.	vessels and no	odes.						
Anatomy Practical	General morphology of	Lymphatic ve and right lymp			LO1 LO4	1	Work i groups	n small with	Oral questioning,

	Anatomy Practical lesson №2	General morphology of the lymphatic system. The main links of this system and its structure.	Lymphatic vessels. Thoracic and right lymphatic duct.	LO1 LO4	1	Work in small groups with anatomical preparations, torsos, dummies, tables, tablets, posters on the interactive panel "Pirogov" and/or solving test and situational problems	Oral questioning, evaluation sheet, solving situational problems, evaluation sheet, completing test tasks
	Histology of SIWP	Hemogram. Leukocyte formula.	An idea of the hemogram and leukocyte formula, their age and gender characteristics. Lymph.	LO1, LO2	1/3	Work in small groups, presentation defensecompil ing a glossary.	Checklist for SIW assessment
	Biochemistry practice №2	Red blood cells and hemoglobin.La boratory work:	Red blood cells and hemoglobin. Respiratory regulation of extracellular fluid pH. Transport function of blood for the transport of carbon dioxide and oxygen, as well as buffer properties. Quantitative determination of urea in blood serum.	LO1 LO2	2	seminar, situational tasks, testing, laboratory work	Check list
	Introduction to the clinic. SIWP/SIW 1.	Types and interpretation of blood tests.	Preparing the patient to donate blood for analysis. General blood analysis. Blood chemistry. Blood test indicators in adults. Interpretation of blood tests		1/3	Working with electronic information resources. Preparation of presentation s, crossword puzzles, preparation of mind maps, preparation of test tasks.	Protection of presentations, smart cards, test tasks.
3d ay	Physiology lecture	Lecture. Physiology of blood.	Physiology of blood. Composition of blood, blood formed elements and	LO1	1	Overview	Feedback Questions

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Г		Composition	their functions User staries				
		Composition of blood, blood formed elements and their functions.	their functions. Hemostasis.				
	Physiology practice №1	Practical lesson. 1 General characteristics of body fluids. Physiology of blood. ESR. Hemolysis.	The concept of the internal environment of the body. General physical and chemical properties of blood. Quantity, functions, composition of blood. Formed elements of blood. ESR. Hemolysis and its types.	LO1	1	discussing the main issues of the topic, performing practical work, completing test tasks, solving situational problems	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
	Histology practice №1	Blood and lymph1	Morphofunctional characteristics of blood as tissue. Cytofunctional features of erythrocytes and blood platelets.	LO1, LO2	1	Work in small groups, checklist of histo- preparations and microphotogra phs	Practical lesson assessment checklist.
	Biochemistry SIWP №1	The most important metabolites of carbohydrate metabolism.	The most important metabolites of carbohydrate metabolism. Diagnostic value of determination of metabolites of carbohydrate metabolism.	LO1, LO2	2/4	presentation, analysis of scientific articles on the topic, glossary	assessment of the quality of design and level of protection of the presentation, assessment of understanding, ability to analyze a scientific article and the formation of certain scientific concepts
	Introduction to	General	Anamnesis. Examination	LO3,	1	Work in	Oral
	the clinic. Practical	methods of	Complaints: weakness,	LO4		small	questioning,
	lesson 1.	examining a patient with	dizziness, palpitations, shortness of breath, fatigue,			groups. Completing	assessment of test task
		diseases of	changes in appetite (loss or			test tasks,	performanc
		the	perversion of appetite),			solving	e,

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		hematopoietic system	changes in sense of smell, fever, fainting, itching, paresthesia, unsteadiness of gait.			clinical problems, performing practical work	assessment of clinical problem solving, assessment of practical work. Checklists "Intraderma l injection", "Subcutane ous injection", "Intravenou s injection", "Intramuscu lar injection"
4d ay	Anatomy practical lesson №3	Lymphatic vessels, nodes of the walls and organs of the chest cavity	Lymphatic vessels, nodes of the walls and organs of the chest cavity.	LO1 LO4	1	Work in small groups with anatomical preparations, torsos, dummies, tables, tablets, posters on the interactive panel "Pirogov" and/or solving test and situational problems	Oral questioning, evaluation sheet, solving situational problems, evaluation sheet, completing test tasks
	Anatomy of SIWP/SIW2	Lymphatic vessels, nodes of the walls and organs of the pelvic cavity, upper and lower extremities	Lymphatic vessels, nodes of the walls and organs of the pelvic cavity, upper and lower extremities	LO1 LO4	1/2	Working with educational literature, passing the SIW in the form of: -presentation	Oral survey. Evaluation sheets for all forms of completed assignments.
	Physiology of SIWP	SIWP. 2 SIW Immunity. Types of immunity.	Cellular nonspecific immunity. Specific immunity. Lymphocytes. Phases of the immune response. Antigens. Antibodies. Immunological surveillance. The role of the thymus, spleen, lymph nodes. Basic methods for studying the immune system organs.	LO1	1/2	Preparation and defense of the presentation	Review and protect your presentation

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	Biochemistry lecture №2	Blood coagulation and hemostasis mechanisms.	Blood coagulation and hemostasis mechanisms.	LO1	1	Overview	Feedback Questions
	Biochemistry practice №3	Blood coagulation and fibrinolysis.La boratory work:	Blood coagulation and fibrinolysis. Activation of blood clotting. Internal and external pathways of blood coagulation. Quantitative determination of iron in blood serum.	LO1 LO2	2	Seminar, situational tasks, testing, laboratory work	Check list
5d ay	Physiology Practical lesson №2	Practical lesson. 2 Leukocytes. Platelets. Blood groups/ABO system, Rh affiliation.	Quantity, functions, composition of blood. Leukogram. Hemostasis. Characteristics and methods for determining blood group/ABO system, Rh- type.	LO1	1	Preparation of an abstract with checking for plagiarism, preparation and defense of a presentation	Checking the abstract for plagiarism, defending the presentation
	Histology lecture	Blood and lymph.	Morphofunctional characteristics of blood as tissue. Cytofunctional features of erythrocytes and blood platelets, leukocytes.	LO1	1	overview	Answers to security questions.
	Histology Practical lesson №2	Blood and lymph2.	Morphofunctional characteristics of blood as tissue. Cytofunctional features of the structure of granulocytes and agranulocytes.	LO1, LO2	1	Work in small groups, checklist of histo-slides and microphoto graphs	Practical lesson assessment checklist.
	Biochemistry of SIWP	The most important metabolites of lipid metabolism.	The most important metabolites of lipid metabolism. Diagnostic value of determination of metabolites of deep metabolism.	LO1 LO2	2/5	presentation, essay, glossary	assessment of the quality of design and level of protection of the presentation and essay writing
	Introduction to the clinic. Practical lesson 2.	Examination algorithm and patient preparation	Algorithm for examining a patient for a blood test. Preparing the patient for the blood donation procedure.		1	Work in small groups. Discussion of topic issues, performing	Oral questioning, assessment of test task performance,

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		for testing.	Rules for taking a blood test for biochemistry, sugar, hormones			test tasks, solving clinical problems, performing practical work	assessment of clinical problem solving, assessment of practical work.
6d ay	Anatomy Practical lesson №4	Lymphatic vessels, nodes of the walls and organs of the abdominal cavity	Lymphatic vessels, nodes of the walls and organs of the chest cavity.	LO1 LO4	1	Work in small groups with anatomical preparations, torsos, dummies, tables, tablets, posters on the interactive panel "Pirogov" and/or solving test and situational problems	Oral questioning, evaluation sheet, solving situational problems, evaluation sheet, completing test tasks
	Histology of SIWP	Histology SIW P/SIW 2 Postembryonic hematopoiesis	The main sources and stages of the formation of blood- creating organs and immune defense. Features of postembryonic hematopoiesis. The concept of postembryonic immunopoiesis.	LO1, LO2	1/2	Work in small groups, presentation defensecompil ing a glossary.	Checklist for SIW assessment
	Biochemistry practice №4	Anticoagulant blood system. Laboratory work:	Anticoagulant blood system. Serine protease inhibitors. Antiprombin III. Protease nexin-1. Tissue factor inhibitor.quantitationglandinto blood serum.	LO1 LO2	2	Seminar, situational tasks, testing, laboratory work	Check list
	Introduction to the clinic. Lecture 1.	Blood: general characteristics . Blood research methods. Lymphatic system, its function. The lymph nodes. Palpation of lymph nodes.	Blood: general characteristics. Blood components. Blood research methods. Lymph: mechanism of formation, volume, functions of lymph. Composition of lymph. Palpation of lymph nodes.	LO1	1	Review lecture	Feedback
	Introduction to the clinic. SIWP/SIW 2.	Diagnosis and examination of enlarged	Target. Preparing the patient for the procedure.Examination of a	LO3 LO4	1/2	Completing test tasks, solving clinical	Evaluation of test task performance, evaluation of

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		lymph nodes	patient with enlarged lymph nodes			problems, performing practical work	clinical problem solving, procedure completion checklist
7d ay	Physiology Practical lesson №3	Practical lesson.3 Physiology of hematopoietic organs.	The role of red bone marrow, thymus, spleen, liver, lymph nodes in the process of hematopoiesis. Basic clinical and hematological methods for studying the hematopoietic organs.	LO1	1	discussing the main issues of the topic, performing practical work, completing test tasks, solving situational problems	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
	Physiology of SIWP	SIWP. 3 SIW Blood groups/ABO system, Rh affiliation. Rules for blood transfusion. Blood replacement solutions.	Characteristics and methods for determining blood group/ABO system, Rh- type. Methods of blood transfusion. Characteristics of blood replacement solutions.	LO1	1/2	Preparation and defense of the presentation	Review and protect your presentation
	Histology practical lesson №3	Histology Embryonic hematopoiesis.	Features of embryonic hematopoiesis and its main stages.	LO1, LO2	1	Work in small groups, checklist of histo-slides and microphotogra phs	Practical lesson assessment checklist.
	Histology of SIWP	Histology SIW P/SIW 3 Cellular basis of immunity.	Cellular interactions in immune reactions.	LO1, LO2	1/2	Work in small groups, presentation defensecompil ing a glossary.	Checklist for SIW assessment
	Introduction to the clinic. Practical lesson 3.	Algorithms for blood sampling using the Vacutainer vacuum	Target. Equipment. Preparing for the procedure. The procedure for collecting in test tubes. Features of a nurse's work under conditions of risk of	LO3 LO4	1	Completing test tasks, solving clinical problems, performing practical work	Evaluation of test task performance, evaluation of clinical problem solving,

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	Introduction to the clinic. SIWP/SIW 3.	system.Organ ization of labor safety with blood Frontier control.	contracting viral and bacterial infections transmitted through the patient's blood and other biological fluids. Consolidation of the material covered on the topics of lectures, practical classes,		1/2	Testing	procedure completion checklist Checklist for assessing SIW.
8d ay	Anatomy SIWP\SIW3	Lymphatic vessels, nodes of the walls and organs of the pelvic cavity, upper and lower extremities	SIWP and SIW. Lymphatic vessels, nodes of the walls and organs of the pelvic cavity, upper and lower extremities	LO1 LO4	1/2	Working with educational literature, passing the SIW in the form of: -presentation	Oral survey. Evaluation sheets for all forms of completed assignments.
	Physiology practical lesson №4	Practical lesson.4 Physiology of the lymphatic system.	Functions of the lymphatic system. Composition of lymph. Lymph formation. Lymphatic drainage Functions of red bone marrow, thymus, liver, spleen and lymph nodes.	LO1	1	discussing the main issues of the topic, performing practical work, completing test tasks, solving situational problems	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
	Histology practical lesson №4	HistologyPract ical lesson № 4 Organs of hematopoiesis and immunogenesi s.	Morphofunctional characteristics of hematopoietic organs. Classification, sources and progress of development. Red bone marrow. Thymus. The lymph nodes. Spleen	LO1, LO2	1	Work in small groups, checklist of histo-slides and microphotogra phs	Practical lesson assessment checklist.
	Introduction to the clinic. Practical lesson 4.	Groups of lymph nodes available for examination.	Groups of lymph nodes available for examination: occipital, parotid, cervical, submandibular, chin, subclavian, supraclavicular, axillary, elbows, inguinal Lymph node assessment: dimensions (in cm), form, consistency, mobility, soreness and adhesion to surrounding tissues.	LO3 LO4	1	Completing test tasks, solving clinical problems, performing practical work	Assessment of test task performanc e,assessmen t of clinical problem solving

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Biochemistry SIWP ME	Metabolites of protein and amino acid metabolism. Midterm exam	Diagnostic value of determination of metabolic metabolites. proteins and amino acids. Midterm exam according to the system.	LO1 LO2	2/5	presentation, essay, glossary Midterm exam: control questions, test tasks, situational tasks.	assessment of design quality and level of protection presentation and essay writing assessment of answers to control questions, test tasks and solutions to situational problems	
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9.	Training methods	and forms of control
9.1	Lectures	introductory,overview lecture. <u>form of control</u> : Feedback (control questions)
9.2	Practical lessons	work in small groups with anatomical preparations, with a skeleton, skull, models, tablets, posters, on the interactive anatomical table "Pirogov" and/or solving test and situational (clinical) tasks, discussing the main issues of the topic, filling out a checklist of histological preparations and microphotographs, seminar, performing practical skills, discussion, working with radiological images.
		<u>Form of control:</u> Oral questioning with demonstration of anatomical structures on the torso, tablets, posters, interactive anatomical table "Pirogov" and/or solving test tasks and situational (clinical) problems, checklist for assessing a practical lesson, assessing crossword puzzles, assessing practical skills, assessing the description of radiological pictures.
9.3	SIW/SIWP	Consultation on the most complex issues of the curriculum when performing SIW, working with educational literature, preparing a presentation, sketching a diagram of the passages of nerves, arterial, venous and lymphatic vessels; preparation of glossary, smart map, solution situational tasks, discussion of the results of radiological studies, conducting midterm exam,
		Form of control: Evaluation sheets for certain forms of completed assignments
9.4	Midterm exam	in writing - solving integrated situational problems <u>form of control</u> : assessment of the performance of integrated situational tasks.

10	10 Evaluation criteria							
10.1	10.1 Criteria for assessing the results of the discipline							
	<u>№</u> .	Name of learning outcomes	unsatisfactory	Satisfactorily	Fine	Great		

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demonstrates knowledge	D (4 3 4 3	i	
of the structures and general patterns of structure and functioning of cells, tissues, hematopoietic organs and lymphatic systems, their regulatory mechanisms, considered from the standpoint of general physiology and integrative human behavioral activity;	Does not know the structure, functions, cells, tissues, hematopoieti c organs and lymphatic systems, their regulatory mechanisms, and the chemical composition and biological functions of body tissues	1. Makes gross mistakes when describing structures and general patterns of the structure and functioning of cells and tissues. blood- forming organs and lymphatic systems, their regulatory mechanisms. 2. Makes gross mistakes when describing organs on models, wet anatomical preparations and the interactive panel of Pirogov.	1.Knows the structure, functions, cells, tissues, blood- forming organs and lymphatic systems, their regulatory mechanisms, and the chemical composition and biological functions of body tissues, has difficulty using anatomical terminology 2. Shows the main parts of organs on dummies, wet anatomical preparations and the interactive panel of Pirogov.	1.Demonstrates deep knowledgestru ctures and general patterns of the structure and functioning of cells, tissues, hematopoietic organs and lymphatic systems, their regulatory mechanisms, correctly uses anatomical terminology when describing them. 2. Confidently shows organs, their parts and structural details on dummies, wet anatomical preparations and Pirogov's interactive panel.
demonstrates knowledge of the basic metabolic processes occurring in tissues, the mechanisms of their regulation at the cellular level and the possible consequences of their disruption. Knows the basic biochemical	1. Does not understand the metabolic processes occurring in these tissues, the mechanisms of their regulation	1.Hasasuperficialunderstandingofthemetabolicprocessesoccurringinthesetissues,themechanismsoftheirregulation	1. Shows a complete understanding of the metabolic processes occurring in these tissues, the	1.Competently, at a high level, explains the main metabolic processes occurring in these tissues, the
	structure and functioning of cells, tissues, hematopoietic organs and lymphatic systems, their regulatory mechanisms, considered from the standpoint of general physiology and integrative human behavioral activity; demonstrates knowledge of the basic metabolic processes occurring in tissues, the mechanisms of their regulation at the cellular level and the possible consequences of their disruption. Knows	structure and functioning of cells, tissues, hematopoietic organs and lymphatic systems, their regulatory mechanisms, considered from the standpoint of general physiology and integrative human behavioral activity;functions, cells, tissues, hematopoieti c organs and lymphatic systems, their regulatory mechanisms, and the chemical composition and biological functions of body tissuesdemonstrates knowledge of the basic metabolic processes occurring in tissues, the mechanisms of their regulation at the collular level and the possible consequences of their disruption. Knows the basic biochemical1. Does not understand the metabolic processes occurring in these tissues, the mechanisms of their regulation	structure and functioning of cells, tissues, hematopoieti organs and lymphatic systems, their regulatory mechanisms, considered from the standpoint of general physiology and integrative human behavioral activity;functions, cells, tissues, hematopoieti corgans and lymphatic systems, tissues. blood- their regulatory mechanisms, and the chemical composition and biological functions of body tissuesstructures and general patterns of the structure and functioning of cells and tissues. blood- their regulatory mechanisms, and the chemical composition and biological functions of body tissuesstructures and general patterns of the structure and functioning of cells and systems, their regulatory mechanisms. 2. Makes gross and mistakes when describing organs on models, wet anatomical preparations and the interactive panel of Pirogov.demonstrates knowledge of the basic metabolic processes occurring in tissues, the mechanisms of their regulation at the celluar level and the possible consequences of their disruption. Knows the basic biochemical1. Does not understand the metabolic processes occurring in these tissues, the mechanisms of their regulation at the colocemical1. Has a superficial understand the metabolic processes occurring in these tissues, the mechanisms of their regulation at the colocemical	general patterns of structure and functioning of cells, tissues, hematopoietic organs and lymphatic systems, their regulatory mechanisms, considered from the standpoint of general physiology and integrative human behavioral activity;structure, functions, cells, tissues, heratopoieti corgans and lymphatic systems, their regulatory mechanisms, and the chemical composition and biological functions of body tissuesdescribing structures and general patterns of the structure and functioning of cells and systems, their regulatory mechanisms, and the chemical composition and biological functions of body tissuesfunctions, curve, forming organs and lymphatic systems, their regulatory and the chemical composition and the interactive panel of Priogov.functions, cells, tissues, body tissues and the mechanisms. 2. Makes gross organs on models, wet anatomical the interactive panel of Priogov.functions, cells, tissues, their mechanisms, and the interactive panel of Priogov.functions, cells, tissues, their mechanisms, and the interactive panel of Priogov.functions, cells, tissues, their mechanisms, and the interactive panel of Priogov.demonstrates knowledge of the basic metabolic processes occurring in tissues, the mechanisms of their regulation at the possible consequences of their regulation the cellular level and the possible consequences of their disruption. Knows the basic biochemical1. Does not understand the mechanisms of these tissues, the mechanisms of their regulation at the their regulation at the1. Has a

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			11 - 1 -1		41	41
		fluids of the human body in normal conditions	level and the	and the possible consequences of	their regulation at the cellular	their regulation at the cellular
		In normal conditions	possible	1		
			consequences	their disruption.	level and the	level and the
			of their	2.Knows the basic	possible	possible
			disruption.	biochemical	consequences	consequences
			2. Does not	constants of	of their	of their
			know the basic	biological fluids	disruption.	disruption.
			biochemical	of the human	2.Applies	2.
			constants of	body under	knowledge of	Demonstrates
			biological	normal conditions	the basic	excellent
			fluids of the	and pathology.	biochemical	knowledge of
			human body		constants of	the basic
			under normal		biological	biochemical
			conditions.		fluids of the	constants of
					human body to	body fluids to
					discuss the	assess the
					state of the	patient's
					body in normal	condition.
					conditions and	
	1.00				pathologies.	1.5
	LO3	Shows readiness to collect	1. Does not	1. Makes gross	1.Shows	1.Demonstrate
		patient complaints,	have the skills	mistakes when	interest	s the skills of
		medical history,	to collect	collecting the	incollection of	collecting
		examination results,	patient	patient's	patient	patient
		laboratory, instrumental	complaints and	complaints, his medical history	complaints,	complaints, his
		and other studies in order	examination	and examination	medical	anamnesis, and
		to recognize a condition or	results.	results.	history,	examination
		establish the presence or	2.Does not	2.Knows	examination	results.
		absence of a disease for	know the skills	laboratory and	results. 2. Gives	2. Analyzes
		monitoring and caring for	of laboratory	instrumental		datalaboratory,
		patients	and	tests in order to	interpretation	instrumental
			instrumental	recognize a	to laboratory	and other
			researchfor the	condition or	and	studies in order
			purpose of	establish the	instrumental studies in order	to recognize a condition or
			recognizing the state or	presence or	to recognize a	condition or establish the
			the state or absence of	absence of a	condition or	
			disease	disease	establish the	presence or absence of a
			4150450		presence or	disease for
					absence of a	monitoring and
					disease for	caring for
					monitoring and	patients
					caring for	Parlonis
					patients	
	LO4	Demonstrates: own	1. Does not	1.Admits	1. When	1.Demonstrate
	-	knowledge and skills	have the skills	inaccuracies when	conducting	s: excellent
II		mis interge und bitting	inate are skills	inaccuracies when	- shadening	s. excenent

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	when conducting	to	aanduating	biochemical	skills in
	when conducting	to	conducting		
	biochemical,	independently	biochemical and	and	independently
	morphophysiological	conduct	morphophysiologi	morphophysiol	conducting
	studies; the ability to	biochemical	cal studies and	ogical	biochemical
	conduct a literature search	and	does not fully	research,	and
	and analysis of scientific	morphophysiol	comply with	demonstrates	morphophysiol
	articles in independent	ogical studies.	them.	good	ogical
	study of the discipline;	2. Is not	2. Conducts a	knowledge of	research;
	ability to work in a team.	oriented in	search for the	theoretical	analyzes
	Has an understanding of	finding the	necessary literary	material,	research
	modern biochemical,	necessary	material, analyzes	demonstrates	results,
	morphofunctional	literary	scientific articles,	research skills	showing
	approaches in the	material and is	but expresses	and a desire for	excellent
	diagnosis of human	not able to	thoughts without	independent	knowledge of
	diseases. Takes advantage	analyze	logic or	self-education.	the necessary
	of opportunities to stay	scientific	arguments.	2. Collects the	theoretical
	informed about new	articles.	3. Able to work in	necessary	material; the
	discoveries and	3. Does not	a team, but does	literary	ability to
	techniques	demonstrate	not show	material to	predict the
		the ability to	initiative.	study a certain	state of the
		work in a	4. Has an	range of	body based on
		team.	understanding of	problems,	the data
		4. Has no idea	modern	analyzes	received and
		about modern	biochemical and	scientific	the desire for
		biochemical	morphofunctional	articles, while	independent
		and	approaches in the	demonstrating	self-education.
		morphofunctio	diagnosis of	critical	2. Searches for
		nal approaches	human diseases.	thinking.	the necessary
		to the	5. Takes	3.Able to work	information in
		diagnosis of	advantage of	in a team,	reference
		human	opportunities to be	clearly express	materials,
		diseases.	informed about	one's own	scientific
		5. Does not	new discoveries	thoughts and	literature, and
		take advantage	and methods with	advise others,	compares these
		of	the participation	able to advise	data. Analyzes
		opportunities	of the teacher.	on a possible	scientific
		to be informed		range of	articles while
		about new		applications of	demonstrating
		discoveries		biochemical	critical
		and methods.		and	thinking and
				morphophysiol	the ability to
				ogical	clearly
				research.	communicate
				4. Shows	one's own
				interest in	beliefs.
				studying	3. Works
II		I			

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					1	
					modern	actively in a
					biochemical	team,
					and	articulates his
					morphofunctio	own beliefs,
					nal approaches	effectively
					in the	exchanges
					diagnosis of	information,
					human	and is able to
					diseases.	advise others
					5. Widely uses	on a possible
					opportunities	range of
					to be informed	applications of
					about new	biochemical
					discoveries and	and
					methods in the	morphophysiol
					field of	ogical
					biochemistry	research.
					and	4. Creatively
						approaches the
					morphophysiol	
					ogy	study of modern
						biochemical
						and
						morphofunctio
						nal approaches in the
						diagnosis of
						human
						diseases.
						5. Takes the
						initiative to
						take full
						advantage of
						opportunities
						to be informed
						about new
						scientific
						discoveries
						and methods in
						the field of
						biochemistry
						and
						microbiology.
		ria for assessing teaching m				
		for practical training:Stude				
the	torm/m	ethod of assessment used dur	ring the lesson (or	al questioning, solvin	ig test tasks, solvi	ng situational

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problems), and their	r average score is displayed in the	journal.	
Checklist for SIW:E	Evaluation sheets for certain forms of c	completed assignments	
Interim certification	CSPE. Testing		
Multi-point knowl	edge assessment system:		
Letter grade	Digital equivalent of points	Percentage	Traditional assessment
А	4.0	95-100	Great
A -	3.67	90-94	
B +	3.33	85-89	Fine
В	3.0	80-84	
B -	2.67	75-79	
C +	2.33	70-74	
С	2.0	65-69	Satisfactorily
C -	1.67	60-64	
D+	1.33	55-59	
D-	1.0	50-54	1
FX	0.5	25-49	Not satisfactory
F	0	0-24	
	X 7 1	hal waam amaa	÷

Verbal response

Midterm exam	Grade	Criteria for evaluation
Verbal response	Great Corresponds to points: 95-100 90-94	The student did not make any mistakes during the answer, was oriented in the theories, concepts and directions of the discipline being studied, gave them a critical assessment, and also used the scientific achievements of other disciplines.
	Fine Corresponds to points: 85-89,80-84 75-79,70-74	The student did not make gross mistakes during the answer, but made inaccuracies and unprincipled errors, corrected by himself, and managed to systematize the program material with the help of the teacher.
	Satisfactorily Corresponds to points: 65-69,60-64 50-59	During the answer, the student made fundamental mistakes, limited himself only to the educational literature indicated by the teacher, and experienced great difficulties in systematizing the material.
	Unsatisfactory Corresponds to points 0-49	The student made gross mistakes while answering, did not study the basic literature on the topic of the lesson, and failed to use scientific terminology in histology and physiology.

Performing test tasks (testing)

Midterm exam	Grade	Criteria for evaluation		
Performing test tasks (testing)	Great Compliant points:95-100,90-94	The student completed 90-100% of test tasks correctly.		
	Fine Corresponds to points: 85-89,80-84	The student completed 75-89% of test tasks correctly.		

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75-79,70-74	
Satisfactorily	The student completed 50-74% of test tasks
Corresponds to points:	correctly.
65-69,60-64,50-59	
Unsatisfactory	The student completed less than 50% of the
Corresponds to points	test tasks correctly.
0-49	

Solving situational (clinical) problems

Midterm exam	Grade	Criteria for evaluation
Solving situational problems	Great	He actively participated in solving situational
	Compliant	problems, showed original thinking, showed deep
	points:	knowledge of the material, and used scientific
	95-100	achievements of other disciplines in discussions.
	90-94	
	Fine	Actively participated in the work, demonstrated
	Corresponds to points:	knowledge of the material, made unprincipled
	85-89,80-84	inaccuracies or errors, which were corrected by the
	75-79,70-74	student himself.
	Satisfactorily	When working in a group, he was passive, made
	Corresponds to points:	inaccuracies and fundamental errors, and experienced
	65-69,60-64,50-59	great difficulty in systematizing the material.
	Unsatisfactory	Did not take part in the work of the group, answering
	Corresponds to points	the teacher's questions, made fundamental errors and
	0-49	inaccuracies, and did not use scientific terminology
	0-49	when answering.

Evaluation paper Criteria for evaluating the description of an anatomical specimen FULL NAME. student ______

№	Step Evaluation Criteria		Le	evel	
		Great 90-100	Fine 70-89	Satisfactor y 50-69	Bad 0-49
1.	Correctly finding the location of an 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, tablets and give a description.	18-20	14-17.8	10-13.8	0-9.8
5.	While describing 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
	The maximum score is 100. Total points _	, 	Teacher signat	ture	-

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Evaluation paper Criteria for evaluating presentations in multimedia format

№	Criterion		Level,	score	
		Great	Fine	satisfie	unsatisf
		90-100	70-89	d	actory
				50-69	0-49
1.	Availability of a title slide with a title, a	9-10	7-8.9	5-6.9	0-4.9
	presentation plan, a sufficient number of slides, a				
	list of references and Internet sources.				
2.	Compliance of the content of the presentation with	9-10	7-8.9	5-6.9	0-4.9
	the topic and assigned tasks.				
3.	Arranging slides in a logical sequence.	9-10	7-8.9	5-6.9	0-4.9
4.	Style of presentation of the material (conciseness,	9-10	7-8.9	5-6.9	0-4.9
	clear formulation, structure).				
5.	Use of modern sources of information in sufficient	9-10	7-8.9	5-6.9	0-4.9
	quantities.				
6.	The ability to generalize material and draw clear	9-10	7-8.9	5-6.9	0-4.9
	conclusions.				
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	9-10	7-8.9	5-6.9	0-4.9
	consistently.				
9.	The ability to defend one's position and the ability	9-10	7-8.9	5-6.9	0-4.9
	to respond constructively to criticism.				
10	The quality of slide design (colorfulness, clarity,	9-10	7-8.9	5-6.9	0-4.9
	etc.).				
	The maximum score is 100. Total pointsS	lignature of tea	ucher	1	1

Checklist for assessing a practical lesson in histology

Criteria for evaluation	Level			
	Great	Fine	Satisfied	Unfortunate
Answers questions on an individual test using the Quizizz program	40	28	20	0
Answers oral survey questions (small groups)	20	14	10	0
Fills out tables	20	14	10	0
Performs situational tasks	20	14	10	0
Total:	100	70	50	0

Preparation and protection of histological microslides and microphotographs

Form	Grade	Criteria for evaluation
control	Grade	
Preparation of presentation of histological microslides and microphotograp hs and her defense.	Great Corresponds to points: 95-100 90-94	The student prepared a presentation of 3 microslides and 3 microphotographs on the topic within the appointed time, independently, carefully, containing at least 6 informative tables, using at least 5 literary sources and having a detailed plan, provided diagrams, tables and drawings corresponding to the topic during the defense demonstrated indepth knowledge of the topic and accurately answered all questions asked.
	Fine	The student prepared a presentation of 3 microslides and 3

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	Corresponds to points:	microphotographs on the topic within the appointed time, independently,
	85-89	carefully, containing at least 6 informative tables, using at least 5 literary
	80-84	sources and having a detailed plan, provided diagrams, tables and figures
	75-79	corresponding to the topic during the defense demonstrated good
	70-74	knowledge on the topic, but made minor mistakes when answering
		questions.
		The student prepared a presentation of 3 microslides and 3
	Satisfactorily	microphotographs on the topic within the appointed time, independently,
	Corresponds to points:	but sloppily, with at least 6 informative tables, using less than 5 literary
	65-69	sources and the presence of an undeveloped plan, provided an
	60-64	insufficient number of diagrams, tables and figures relevant to the topic,
	50-54	During the defense, he answered questions uncertainly and made
		fundamental mistakes.
		The student did not prepare a presentation of 3 microslides and 3
	Unsatisfactory	microphotographs on the topic within the appointed time, or prepared it
	•	within the appointed time, but not independently, sloppily, containing
	Corresponds to points 0-49	less than 6 meaningful tables, without indicating literary sources, in the
	0-49	absence of a plan, and made gross mistakes when answering questions or
		could not answer questions and did not defend the work.
Checklist for assessing SIW on the basics of histology		

	Checklist for assessing SIW on the basics of histology				
	Criteria for evaluation	Level			
.№.		Great	Fine	Satisfied	Unfortu nate
1	Assessment of protection of histological microslides	40	28	20	0
2	Security assessment of electron micrographs	40	28	20	0
3	Assessing glossary production	20	14	10	0
	Total:	100	70	50	0

Compiling a glossary

Companing a glossar y				
Form control	Grade	Criteria for evaluation		
Compiling a glossary	Great corresponds to points: 95-100; 90-94	The student compiled a glossary on the topic on time, independently, accurately, without errors, containing at least 10 terms, correctly formulated concepts, and provided translations into Kazakh and English.		
	Fine corresponds to points: 85-89; 80-84; 75-79; 70-74;	The student compiled a glossary on the topic on time, independently, accurately, containing at least 10 terms, correctly formulated concepts, made unprincipled errors when compiling the glossary, and provided translations into Kazakh and English.		
	Satisfactorily corresponds to points: 65-69; 60-64; 50-54	The student compiled a glossary on the topic within the appointed time, independently, but sloppily, with less than 10 terms, while compiling the glossary he made fundamental errors, and provided a translation into Kazakh and English.		
	Unsatisfactory corresponds to points 0-49	The student did not compile a glossary on the topic within the appointed time, or compiled it within the appointed time, but not independently, sloppily, containing less than 10 terms, on the topic, made gross errors when compiling the glossary, and did not provide a translation into Kazakh and English.		

Carrying out practical work, discussing research results		
Form	Grade	Criteria for evaluation
control		

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Doing practical work	Great	The student completed the practical work in a timely manner and
	Compliant	without any errors and submitted a report on it, took an active part in
	points:	the discussion of the research results, made reasonable conclusions,
	95-100	and showed original thinking.
	90-94	
	Fine	The student completed the practical work in a timely manner and
	Corresponds to	submitted a report on it, making unprincipled errors, and took an
	points:	active part in the discussion of the research results.
	85-89;80-84	
	75-79;70-74	
	Satisfactorily	The student completed the practical work in a timely manner and
	Corresponds to	submitted a report on it, making fundamental mistakes, was not
	points:	active during the discussion, and needed the help of the teacher.
	65-69;60-64	
	50-54	
	Unsatisfactory	The student submitted a report on practical work late, made serious
	Corresponds to	mistakes, did not complete all the practical work provided for in the
	points	program, and did not take part in the discussion of the results
	25-49, 0-24	

Assessment of practical skills			
form of control	Grade	Criteria for evaluation	
Practical skills	Great Compliant points: A (4.0; 95-100%) A- (3.67; 90-94%)	The student has excellent practical skills: he knows the methodology for performing practical skills quite accurately, and has sufficient patient care skills.	
	Fine Compliant points: 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: he knows the methodology for performing practical skills insufficiently accurately, and has sufficient skills in caring for the patient.	
	Satisfactorily Compliant points: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.0; 50-54%)	The student has satisfactory practical skills: he knows the basic principles of the methodology for performing practical skills but performs patient care skills with gross errors.	
	Unsatisfactory Compliant points 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).	

VVIIII	written response to the questions in this assignment				
N⁰	Criteria for evaluation	Points			
1	The student showed original thinking, showed deep knowledge of the material,				
	and used scientific achievements of other disciplines when answering. Used scientific terminology.	27-30			
2	The student demonstrated knowledge of the material and made unprincipled inaccuracies, which were corrected by the student himself. Used scientific terminology.	21-26			

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3	During the answer, the student made inaccuracies and unprincipled errors, used scientific terminology, experienced great difficulties in systematizing the material,	
	and needed help from the teacher.	
4	The student did not answer the teacher's questions, made fundamental errors and	0-14
	inaccuracies, and did not use scientific terminology when answering.	

Performing laboratory work

N⁰	Criteria for evaluation	Points
1	Completed practical and laboratory work and submitted reports on it in a timely manner and without any errors, took an active part in discussing the results of the work, made well-founded conclusions, and showed original thinking.	27-30
2	Completed practical and laboratory work in a timely manner and submitted reports on them without fundamental comments, took an active part in discussing the results of the work	21-26
3	Completed practical and laboratory work in a timely manner and submitted reports on them. During work he was not active and needed help from a teacher	15-20
4	He submitted reports on practical work late and made fundamental errors in their implementation. Didn't complete all the practical work required by the program. Did not take part in the discussion of the results of the work.	0-14

Analysis of scientific articles:

N⁰	Criteria for evaluation	Points
1	The work was completed carefully and submitted on time, written independently on at least 3 pages of printed text. Thoughts on the issue are presented clearly and well-reasoned. In the text of the work, references to the authors are indicated everywhere. When defending a work, the text is not read, but narrated. Confidently and accurately answers all questions asked. Articles used for this work are no more than 5 years old.	27-30
2	The work was completed carefully and submitted on time, written independently on at least 3 pages of printed text. Thoughts on the issue are presented clearly, but without arguments. In the text of the work, references to the authors are indicated everywhere. When defending a work, the text is not read, but narrated. When answering questions, he makes unprincipled mistakes. Articles used for this work are no more than 5 years old.	21-26
3	The work was completed carefully and submitted on time, written independently on at least 2 pages of printed text. Thoughts on the issue are presented scatteredly, without arguments. In the text of the work, references to authors are not indicated everywhere. When defending a work, the text is read. Answers questions uncertainly and makes fundamental mistakes. Articles used for this work are more than 5 years old.	15-20
4	The work is written in less than 2 printed texts. Thoughts are presented scatteredly, without arguments. There are no references to the authors in the text of the work. When defending a work, the text is read. When answering questions, he makes gross mistakes and does not understand the material. Articles used for this work are more than 5 years old.	0-14

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Preparation of written creative work (essay)

N⁰	Criteria for evaluation	Points
1	The content of the work is fully consistent with the topic; The topic is revealed in a	27-30
	deep and well-reasoned manner. Slender in composition, logical and consistent	
	presentation of thoughts. The problem of the essay is clearly stated. There are no	
	actual errors. The conclusion contains conclusions that logically follow from the	
	content of the main part.	
2	The topic is revealed quite fully and convincingly with minor deviations from it. A	21-26
	thesis statement corresponding to the topic of the essay is clearly formulated. The	
	main part is logical and connected, but the thesis put forward is not fully proven;	
	there are isolated factual inaccuracies.	
3	A correct, but one-sided or insufficiently complete answer to the topic was given.	15-20
	There have been deviations from it or individual errors in the presentation of factual	
	material. The material is presented quite logically, but there are some 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 covered, which indicates superficial knowledge. Characterized	0-14
	by a random arrangement of material, lack of connection between parts.	
	Characterized by the presence of gross speech errors.	

Preparing a smart map

form of control	Grade	Criteria for evaluation
Preparing a smart map	Great Compliant points: A (4.0; 95-100%) A- (3.67; 90-94%)	The mind map was made carefully, completed on time, completed independently using at least 5 literary sources. Diagrams, tables and figures corresponding to the topic are provided. When defending, he does not read the material, but tells it. Confidently and accurately answers all questions asked.
	Fine Compliant points: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	The intelligence map was completed carefully and completed on time, completed independently using at least 4 literary sources. Diagrams, tables and figures corresponding to the topic are provided. When defending, he does not read the material, but tells it. When answering questions, he makes unprincipled mistakes.
	Satisfactorily Compliant points: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.0; 50-54%)	The intelligence map was completed carefully and completed on time, completed independently using at least 3 literary sources. Diagrams, tables and figures corresponding to the topic are provided. When defending, he does not read the material, but tells it. Confidently and accurately answers all questions asked. When defending, the text is read. Answers questions uncertainly and makes fundamental mistakes.
	Unsatisfactory Compliant points FX (0.5; 25-49%) F (0; 0-24%)	The intelligence map was not made carefully and was not submitted on time; it was not written independently using less than 3 literary sources. When defending, the text is read. When answering questions, he makes gross mistakes and does not understand the material.

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Electronic resources	1. SKMA repositoryhttp://lib.ukma.kz/repository/
	2. Republican Interuniversity Electronic Libraryhttp://rmebrk.kz/
	3. Student Advisor <u>http://www.studmedlib.ru/</u>
	4. Ashyk kitapkhanahttps://kitap.kz/
	5. <u>http://t.me/AkzharkynGaukhar</u>
	6. <u>Smart DoctorYouTubehttps://goo.gl/zSzozD</u>
	7. https://meduniver.com/Medical/Video/predmet_metodi_istoria_gistologii.html
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	32. "Web of science" (Thomson Reuters) http://apps.webofknowledge.com

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Laboratory Physical	Skeleton, set of bones, dummies, torso, electronic tablets, interactive anatomical table "Pirogov",
Resources	anatomical panel "Pirogov"
	Microscopes, a set of micropreparations, an atlas of microphotographs.
	Models, Sivtsev table, Forster perimeter, electrocardiograph, tonometer, phonendoscope,
	Sali hemometer.
	Biochemical analyzer, spectrophotometers, set of reagents, test tubes
	Introduction to the clinic
	Simulators of the Center for Practical Skills
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	Medicine, 2016. 800 pp. 2. Yushkantseva S.I., Bykov V.L. Histology, cytology and embryology: Atlas M.: GEOTAR- Media, 2017. 296 p.
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о́мтúsтік QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ SKMA -1579- , 1/, AO «Южно-Казахстанская	медицинская академия»
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Department of "Pathological Anatomy and Histology"	
Department of "Biology and Biochemistry	46/11
Department "Introduction to the clinic"	75/11
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2.Selezneva, T.D.Histology]: textbook. allowance / T.D. Selezneva A.S.Mishin V.Yu. Barsukov.
- M.: Eksmo, 2010 350 p.
3. Junqueira L.K., Carneiro J., Histology: a textbook. Per. from English Ed. V.L. Bykova. – M.:
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1. Normal physiology [Text]: textbook / Ed. L. Z. Telya, N. A. Agadzhanyan; M-in image. and science of the Russian Federation. Rec. State Budgetary Educational Institution of Higher Professional Education "First Moscow State Medical University named after I.M. Sechenov." - M.: "Litterra", 2015 768 p. : silt
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4. Kositsky G.I. Physiology 1-2-3 volume - Evero, 2014.
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Kazakhstan Almaty: Evero, 2012 600 p.
additional:
1. Mindubaeva, F. A. Guide to practical classes in physiology [Text]: teaching aid / Almaty:
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2. Situational tasks in the course of normal physiology: educational manual / V.K. Kasymbekov [etc.] Almaty: Evero, 2016 144 p.
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4. Mindubaeva, F. A. Guide to practical classes in physiology: educational and methodological manual Almaty: Evero, 2012 194 p.
5. Human physiology: textbook / ed. V. M. Pokrovsky, G. F. Korotko 2nd ed., revised. and additional; Rec. Department of educational medical institutions and personnel policy of the Ministry of Health of the Russian Federation M.: Medicine, 2007 656 s.
 Mindubaeva, F. A. Guide to practical classes in physiology: educational and methodological manual / F. A. Mindubaeva, A. M. Evnevich, T. I. Krekesheva Almaty: Evero, 2012 194 p. Biochemistry, ed. Corresponding member RAS, prof. E.S. Severina M., 2011
2. Tapbergenov S.O. "Medical and clinical biochemistry." - Evero, 2017. Volume;
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1. Campbell M.K., Biochemistry, 1-part, Almaty-2013;
2. Biochemistry: textbook / ed. E. S. Severina 5th ed., rev. and additional –
M.: GEOTAR - Media, 2011.
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medical students Universities / ed. S. O. Tapbergenova Almaty: Evero, 2012 150 p.
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1.Kirispe Clinic. Volume1 [Matin]: okulyk / S. M. Kabieva [reinforced concrete]; To the lady of the Minister of the League. KMMU Almaty: Evero, 2016 287 b. With
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12. Module Policy

Requirements for students:

- not be late for classes;
- do not miss classes without good reason;
- have anatomical gloves, tweezers and a scalpel;
- be active during practical classes;
- be able to work in a team;
- carry out and submit the SIW in a timely manner, on schedule;
- do not engage in extraneous activities during classes;
- be tolerant, open and friendly towards fellow students and teachers;
- observe ethical standards of conduct when working with anatomical specimens and organs of the human body;

Hammer. - 7nd ed. - New York: Mg Graw Hill. Education, 2014. - 762 p.

- treats the property of the department with care;
- make up missed classes in a timely manner for valid reasons;
- Follow safety precautions in the classroom.

13. During lectures/practical classes/SIWP, students are prohibited from:

1. use mobile devices/gadgets;

2. leave the training room/auditorium (leave the workplace at the clinical/industrial base) without the permission of the teacher.

Dress code requirements

The student is obliged:

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

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2.have a neat hairstyle and 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 systematic violation of the discipline policy, the head of the department submits a corresponding report to the dean's office.

- A student who does not appear for a midterm control without a good reason and receives an unsatisfactory grade for one of the types of controls (ME1, ME2, TKsr) is not allowed to take the exam in the discipline; A student who does not appear at the ME for a good reason, immediately after starting classes, with the permission of the dean's office, receives a work sheet.
- For 1 missed lecture for an unexcused reason, the staff point is 1.0 points and is deducted from the midterm control grades.
- For 1 missed SIW without a valid reason, the penalty point is 2.0 points and is deducted from the SIW grades
- Honorable mention points are taken into account according to department policy. Incentive points are added to the midterm assessment. For active participation in the work of the Council of People's Commissars and seminars in each discipline, the student is awarded an incentive score from 5 to 10.

If students do not score 50% of the current rating (i.e. 30 points), then they are not allowed to take the final control (exam). Requirements for students, attendance, behavior, grading policies, penalties, incentives, etc.

The student must:

- •observe medical ethics and deontology;
- do not smoke in the academy;
- •maintain cleanliness in the department;
- do not damage furniture in classrooms;
- •treat textbooks with care;
- maintain the appearance of a medical student;
- comply with safety regulations;
- •wear masks during a flu epidemic;
- do not miss classes without a good reason;

•classes missed for a valid reason must be made up in a timely manner, but only with the permission of the dean's office and at the time specified by the teacher;

•not be late for classes;

•have the necessary documentation in classes: syllabus, methodological recommendations for classes, lectures, notebooks and textbooks;

- prepare conscientiously for classes;
- •be active during classes;

•do not engage in extraneous activities during classes: do not talk, do not smoke, do not chew chewing gum, do not eat food, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for classes in another discipline;

- •maintain silence and order during breaks;
- •Complete and submit SIW on time according to schedule (electronically); with checking written works for plagiarism. **Penalties for failure to complete sections of work:**
- if you miss lectures without a good reason, the midterm control score is reduced 1 point for each missed lecture;
- if you miss the SIWP without a good reason, the grade for the SIWP is reduced 2 points for each missed lesson;
- •if the SIW is submitted late without a good reason (later than the specified week), the SIW will not be accepted;
- •in case of a single violation of the discipline policy, the student is given a warning;

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

Criteria for non-admission to final control

•a student who received an unsatisfactory grade for one of the types of tests (midterm control 1, midterm control 2,

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average rating of the current control) is not allowed to take the final control in the discipline.

13.	Academic policy based on the moral and ethical values of the academy
10.	www.ukma.kzSKMA Regulations and Rules. Academic Policy.
	P.4 Student Code of Honor
	P.10. Organization of the educational process
	P.12. Grading Policy
	Final control – students who have fully mastered the discipline program and have achieved an admission rating
	are allowed to take the exam.
	The final grade is calculated automatically based on the average grade of the current control, the average grade of
	the milestone controls and the grade of the final control:
	Tolerance rating (60%) = average score of milestone controls (20%) + average score of current control (40%)
	Average score of midterm exam = $ME1 + ME2 / 2$
	Average current control score = arithmetic mean sum of current marks, taking into account the average score for
	the SIW and penalty points.
	Final score $(100\%) = MEsr \times 0.2 + TKsr \times 0.4 + IR \times 0.4$
	Final grade (100%) = Admission rating (60%) + Final control (40%)
	An example of calculating a student's final grade:
	Penalty points:
	For example, a student missed 2 lectures = $1.0 \times 2 = 2.0$ points
	For missing 1 SIWP = 2.0 points
	ME $1 - 80$ points
	ME $2-90$ points
	MEsr = (80-2)+90 = 84 points
	2
	Average arithmetic assessment of current control (practical and laboratory classes) – 80 points
	SIW 1 – 75 points
	SIW 2 – 85 points
	SIWN – number of SIW
	Average score for SIW = $75 + 85 + N = 80$ points
	2+N
	Average current grade taking into account SIW and penalty points:
	$TKSr^* = TKsr + SIWsr - Ksro = 80 + (80 - 2.0) = 158 = 79.0$
	Admission rating (60%)=MEsr x $0.2 + TKsr x 0.4 = 84 \times 0.2 + 79.0 \times 0.4 = 16.8 + 31.6 = 48.4$ points
	Final control (40%), for example, the student answered 45 questions correctly out of 50 (90%),
	$90 \ge 0.4 = 36$ points
	Final score $(100\%) =$
	1) TR (60%) + FK (40%) = $48.4 + 36 = 84.4$ points
	2) MEsr x $0.2 + TKsr x 0.4 + IR x 0.4 = 84.0 x 0.2 + 79.0 x 0.4 + 90 x 0.4 = 16.8 + 31.6 + 36 = 84.4 points$
	MEsr – average assessment of milestone controls
	TKsr – average assessment of current control
	FK - assessment of final control
	ME 1 – midterm exam 1
	ME 2 – midterm exam 2
	TR - tolerance rating
	TKSr* - average current score taking into account SIW and penalty points
	Alek – missed rate of the 1st lecture
	Asiw – coefficient of admission of the 1st SIWP

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14. Approval and re Date of approval by departments	Protocol № 10 25.05.2023	Department of Normal Anatomy, Ph.D., Acting Prof. Tanabaev B D	A
	Protocol Nº 10	Department of Normal and Pathological Physiology Ph.D. Zhakipbekova G.S.	July
	26.05.2023	Department of Pathological Anatomy and Histology	d-
	Protocol № /2	Department of Biology and Biochemistry, Professor Esirkepov M.M. Department of "Introduction to	11.11.6
1	26.05.2023	the Clinic" Candidate of Medical Sciences, Acting Associate Professor Zhumadilov A.R.	A
Date of approval for the CPC	Protocol No 11	Chairman of the KOP Sadykova A.Sh.	Ch-

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Protocol of approval Working curriculum of the discipline (Syllabus) with other disciplines for 2023-2024

Disciplines of coordination	Proposals for changes in the proportions of the material, the order of presentation, etc.	Numbers of minutes and dates of meetings of the corresponding departments
Prerequisites:	a set to a feature	Protocol Nº /0 from
1.Introduction to the profession	Moral aspects of the professional activity of a doctor. Health care organizations. Therapeutic-protective regime. Safe care. Communication culture, abilities, competence. Basic principles of effective communication with the patient, his family members, and colleagues. Objectives, principles of medical law. The right to health care and medical care. Fundamentals and conditions of legal practice in the field of healthcare.	16.00 2023
2.Structural organization of human physiological processes	Formation of fundamental knowledge aimed at understanding the structure of cells, their polymorphism, the relationship and function of the structure, and the metabolic process. Biological membranes. Principles of organization of living matter at the tissue level. Cellular and molecular mechanisms of heredity, patterns of human embryonic development, his difficult times, new molecular genetic and preventive methods for identifying developmental defects. Pharmacological and other reactions of the body to treatment and the significance of hereditary factors in the etiology of the disease.	Protocol No <u>10</u> from 2 <u>1. 05</u> 2023
Post-requisites:		Protocol No // from
1.General pathology	Formation of fundamental knowledge about the patterns of development of typical general pathological processes for the diagnosis of the most common diseases; skills in pathophysiological analysis of clinical and laboratory data, description of macro-micropreparations, understanding of the pathophysiological basis for the prevention and treatment of various diseases. Etiopathogenesis, morphogenesis, morphology, outcome.	<u>2¢.05</u> 2023 - '
 Blood and lymph in pathology 	formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and basic parameters of laboratory research, issues of etiology, pathogenesis, morphogenesis, biological characteristics of microorganisms of common pathological processes of blood and lymph, acquisition of skills in choosing research methods for diagnosis and drugs for treating the most common diseases in adults and children.	Protocol Ne- <u>/2</u> dated

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