



ОНТҮСТІК-ҚАЗАҚСТАН <b>MEDISINA AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN <b>MEDICAL ACADEMY</b> АО «Южно-Казахстанская медицинская академия»
Department of Pathology and Forensic Medicine		044-63/11 ( )
Working programme of the “General Pathological Anatomy” (SYLLABUS) Studying Programme 6B10101 «General Medicine»		Edit. № 1 Page 1 from 32

**Syllabus**  
**Department of Pathology and Forensic Medicine**  
**Working programme of the “General Pathological Anatomy” discipline**  
**Educational programme 6B10101 «General medicine»**

1.	General information about the course		
1.1	Discipline code: OP 3201-1	1.6	Academic year: 2023-2024
1.2	Name of the discipline: General pathological anatomy	1.7	Course: III
1.3	Prerequisites: histology, physiology	1.8	Semester: V
1.4	Postrequisites: the basics of internal and the basics of children's diseases	1.9	Number of Credits (ECTS): 5
1.5	Cycle: BD	1.10	Component: CC
2.	Course description		
General pathology studies the general patterns of development of pathological processes - the structural basis of the disease, i.e. pathoanatomic (morphological) changes in organs and tissues in various pathological conditions. General pathology also studies the etiology, pathogenesis and morphogenesis of general pathological processes characteristic of various diseases. It serves the theory of medicine and clinical practice, so it is a scientific and applied discipline. The object of study of pathological anatomy is autopsy and surgical-biopsy material (pieces of organs and tissues obtained from patients in vivo).			
3.	Forms of summative assessment		
3.1	v Testing	3.5	Coursework
3.2	Written	3.6	Essay
3.3	Oral	3.7	Project
3.4	v OSPE/Practical Skills Reception	3.8	Other (specify)
4.	Objectives of the discipline		
Promote the formation of students': - knowledge of the etiology, pathogenesis, morphogenesis and pathological anatomy, complications and outcomes of the main pathological processes; - understanding of the data of pathoanatomical studies-descriptions and conclusions in the study of macropreparations and micro-preparations; - interpretation of data and application of these skills in the study of clinical disciplines.			
5.	Final learning outcomes (LO of discipline)		
LO1	Demonstrates knowledge of the pathology of organs and systems, understanding of the patterns of development of morphological changes in various diseases		
LO2	Explains the etiology, pathogenesis, morphogenesis of various diseases		
LO3	Determines pathoanatomical changes at the organ, tissue and cellular levels		
LO4	Describes macro- and micropreparations, conducts differential diagnostics of the pathology of organs and systems at the organ, tissue and cellular levels		
LO5	Makes conclusions on pathoanatomical changes in organs and systems, explains the outcomes, development of complications and causes of death in various diseases		
LO6	Demonstrates own knowledge and skills in studying the pathology of organs and systems using research skills, the ability for continuous self-education and development		
5.1	LO of discipline	Learning outcomes of the educational program (EP), which are	

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			<b>related to the LO of the discipline</b>			
	<b>LO1</b>		<b>LO1</b> Provides patient-centered care in the field of biomedical, clinical, epidemiological and socio-behavioral sciences for the most common diseases. <b>LO4</b> Conducts effective measures aimed at the diagnosis, treatment, prevention of common and early forms of diseases.			
	<b>LO2</b>					
	<b>LO3</b>		<b>LO1</b> Provides patient-centered care in the field of biomedical, clinical, epidemiological and socio-behavioral sciences for the most common diseases. <b>LO4</b> Conducts effective measures aimed at the diagnosis, treatment, prevention of common and early forms of diseases.			
	<b>LO4</b>					
	<b>LO5</b>		<b>LO9</b> Performs diagnostics, provides qualified and urgent medical care for urgent and life-threatening conditions			
	<b>LO6</b>		<b>LO5</b> Performs professional duties, organizes self-monitoring and continuous improvement of his/her activities.			
<b>6.</b>	<b>Detailed information about the discipline</b>					
6.1	Venue (building, auditorium): South Kazakhstan Medical Academy, Department of " Pathology and Forensic Medicine". Al-Farabi Square, building No. 2, IV-floor. Email address: Patan.gisto@mail.ru					
6.2	Number of hours	Lectures	Practical classes	Laboratory classes	Independent work of the student (SIW)	SIW with the teacher
		15	35		70	30
<b>7.</b>	<b>Information about teachers</b>					
<b>№</b>	<b>Full name</b>	<b>Degrees and position</b>	<b>Email address</b>	<b>Research interests, etc.</b>	<b>Progress</b>	
1.	Sadykova Aliya Sh.	Head of the Department of Pathological Anatomy and Histology, MD, Acting Professor	aliya.sadykova.66@mail.ru	The topic of the scientific direction "Pathology of the immune system, pathological anatomy of tumors»	Author of 82 scientific publications, 5 textbooks, 1 patent for an invention, 1 monograph	
2.	Abildina Kalamkas B.	Master's degree, Assistant	Mskas1972@mail.ru	Topic of scientific research "Morphogenesis of atherosclerosis of the aorta and renal arteries of the population of Shymkent»	Author of 19 scientific publications and 1 textbook	
<b>8.</b>	<b>Thematic plan</b>					
<b>Week/Day</b>	<b>Topic name</b>	<b>Synopsis</b>	<b>LO of discipline</b>	<b>Number of hours</b>	<b>Forms/methods/technologies</b>	<b>Evaluation forms/</b>

					of training	methods
1	<b>Lecture. Topic:</b> The subject and tasks of pathological anatomy. Cell pathology Dystrophy. Parenchymal dystrophy	The subject, goals, tasks, objects, methods and levels of the study of pathological anatomy. Cell and tissue death: pathology of the cell nucleus, mitosis, and cytoplasm. Definition, classification of dystrophy, causes, patho-morphogenesis, pathological anatomy, outcome of parenchymal dystrophy	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> The subject and tasks of pathological anatomy. Cell pathology	The subject, goals, tasks, objects, methods and levels of the study of pathological anatomy. Cell and tissue death: pathology of the cell nucleus, mitosis, and cytoplasm	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 1. The task of the SIW: Pathology of cell junctions	Changes in the intercellular adhesion, changes in the close communication of cells, violations of the intermembrane connections of cells and tissue barriers, structural changes in the cellular	LO3	6 (2/4)*	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
2	<b>Lecture. Topic:</b> Dystrophy. Parenchymatous	Classification, causes, and morphogenesis of dystrophy.	LO1	1	Overview	Feed back

	dystrophy	Parenchymatous dystrophy: protein and carbohydrate dystrophy. Their manifestations in different organs (micro-and macroscopic manifestations)				
	<b>Practical lesson. Topic:</b> Dystrophy. Parenchymal dystrophy	Classification, causes, and morphogenesis of dystrophy. Parenchymal dystrophy: protein and carbohydrate dystrophy. Their manifestations in different organs (micro-and macroscopic manifestations)	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophoto-graphs and microphoto-graphs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphoto-graphs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 2. The task of the SIW: Parenchymal dystrophy	Fatty dystrophy. Their manifestations in different organs (macro-and microscopic manifestations)	LO3	6 (2/4)*	Discussion of the topic; working with macro-and microphoto-graphs: description of macro - and microphoto-graphs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
<b>3</b>	<b>Lecture. Topic:</b> Stromal-vascular dystrophy	Classification of stromal-vascular dystrophy. White, fat, and carbohydrate dystrophy. Causes, mechanism of development, micro-and macroscopic picture. Issue	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Stromal-vascular	Classification of stromal-vascular	LO2	3	Discussion of the topic,	Evaluation interview (AI

	dystrophy	dystrophy. Protein, fat, and carbohydrate dystrophy. Causes, mechanism of development, micro-and macroscopic picture. Issue.			study and description, macro-and micro-images, macrophotographs and microphotographs	– Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 3. The task of the SIW: Mixed dystrophy	Classification of mixed dystrophies. Violation of the exchange of nucleoproteins. Causes, mechanism of development, micro-and macroscopic picture. Issue.	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
<b>4</b>	<b>Lecture. Topic:</b> Mixed dystrophy	Classification of mixed dystrophies. Violation of the exchange of chromoproteins, lipoproteins. Causes, mechanism of development, micro-and macroscopic picture. Issue.	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Mixed dystrophy	Classification of mixed dystrophies. Violation of the exchange of chromoproteins, lipoproteins. Causes, mechanism of development, micro-and macroscopic picture. Issue.	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check


						lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 4. The task of the SIW: Mineral dystrophy	Classification of mineral dystrophies. The mechanism of development. Violation of the metabolism of calcium, copper, potassium, iron. The meaning and consequences of the formation of stones.	LO3	7 (2/5)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
<b>5</b>	<b>Lecture. Topic:</b> Mineral dystrophy	Classification, mechanism of development of mineral dis-trophy. Formation of stones. Significance and consequences of stone formation	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Mineral dystrophy	Classification, mechanism of development of mineral dis-trophy. Formation of stones. Significance and consequences of stone formation	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 5. The task of the SIW: Death, signs of death, postmortem changes	Death as a biological concept. Causes of death. Types of death. Signs of death	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists

					according to the scheme; preparation of an electronic version on the topic	
6	<b>Lecture. Topic:</b> Necrosis	Mechanism of development, classification of necrosis. Microscopic signs of necrosis. Outcome and significance of necrosis	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Necrosis	Mechanism of development, classification of necrosis. Microscopic signs of necrosis. Outcome and significance of necrosis	LO2	3	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 6. The task of the SIW: Thrombosis. Embolism. Infarction	Mechanism of development, types of embolism, thrombosis and infarction, outcome and significance	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
7	<b>Lecture. Topic:</b> Disorders of blood and lymph circulation	Disorders of blood filling, vascular wall permeability, blood flow and condition: morphological	LO1	1	Overview	Feed back



		manifestations, consequences and significance. Arterial fullness: types and significance of pathological arterial hyperemia				
	<b>Practical lesson. Topic:</b> Disorders of blood and lymph circulation	Disorders of blood filling, vascular wall permeability, blood flow and condition: morphological manifestations, consequences and significance. Arterial fullness: types and significance of pathological arterial hyperemia.	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 7. The task of the SIW: Disorders of lymph circulation	Morphological manifestations of disorders of the lymphatic system. Stagnation of lymph and dilation of lymphatic vessels, formation of chylous ascites, chylothorax. Consequences and significance.	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
<b>8</b>	<b>Lecture. Topic:</b> Venous fullness (hyperemia) of blood	Types of venous fullness, changes in organs during venous stasis, morphogenesis, outcome	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Venous fullness (hyperemia)	Types of venous fullness, changes in organs during venous stasis, morphogenesis, outcome.	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophoto-	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-




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					graphs and microphoto-graphs	preparations, macro-and microphoto-graphs/ check lists
	<b>Midterm exam N1</b>	Topics of lectures, practical classes, independent work on pathological anatomy, completed within 1-7 weeks	LO4	2	Colloquium on tickets (2 theoretical questions, description and conclusion on 1 macro- and 1 micro-preparation (or 1 macro- and 1 microphoto-graphy))	Evaluation interview (AI-Assessment interview) / checklists
<b>9</b>	<b>Lecture. Topic:</b> Inflammation. Exudative inflammation	Phases of inflammation. Exudative inflammation. Types, morphological manifestations. Outcome and significance	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Inflammation. Exudative inflammation	Phases of inflammation. Exudative inflammation. Types, morphological manifestations. Outcome and significance	LO2	3	Discussion of the topic, study and description, macro-and micro-images, macrophoto-graphs and microphoto-graphs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphoto-graphs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 9. The task of the SIW: Immunopathological processes	Changes in peripheral lymphoid tissue that occur with antigenic stimulation and hereditary insufficiency. Hypersensitivity reactions – local immune reactions (allergic), immediate and delayed	LO3	7 (2/5)	Discussion of the topic; working with macro-and microphoto-graphs: description of macro - and microphoto-graphs	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists

		hypersensitivity reactions. The mechanism of development. Morphological characteristics			according to the scheme; preparation of an electronic version on the topic	
10	<b>Lecture. Topic:</b> Proliferative inflammation	Types of proliferative inflammation. Morphogenesis. Outcome and significance	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Proliferative inflammation	Types of proliferative inflammation. Morphogenesis. Outcome and significance	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 10. The task of the SIW: Regeneration	Regeneration of blood vessels: microvessels and large vessels. Wound healing.	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
11	<b>Lecture. Topic:</b> Immunopathological processes	Morphology of immunogenesis disorders. Changes in peripheral lymphoid tissue that occur in immunogenesis disorders. Hypersensitivity	LO1	1	Overview	Feed back


		reactions, autoimmunization and autoimmune diseases, immunodeficiency syndromes				
	<b>Practical lesson. Topic:</b> Immunopathological processes	Morphology of immunogenesis disorders. Changes in peripheral lymphoid tissue that occur in immunogenesis disorders. Hypersensitivity reactions, autoimmunization and autoimmune diseases, immunodeficiency syndromes	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophoto-graphs and microphoto-graphs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphoto-graphs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 11. The task of the SIW: Adjustment and compensation processes	Types of compensatory hypertrophy. Hypertrophy of the heart. Hypertrophy of the stomach wall, bladder	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphoto-graphs: description of macro - and microphoto-graphs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
<b>12</b>	<b>Lecture. Topic:</b> Adjustment and compensation process	Adaptation: types, appearance, value. Compensation: phases, types, morphological picture. Regeneration: morphogenesis, classification. Regeneration of connective, adipose, bone, cartilage and muscle tissues, epithelial regeneration	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Adjustment and compensation process	Adaptation (adaptation): types, appearance, value.	LO2	3	Discussion of the topic, study and	Evaluation interview (AI – Assessment

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		Compensation: phases, types, morphological picture. Regeneration: morphogenesis, classification. Regeneration of connective, adipose, bone, cartilage and muscle tissues, epithelial regeneration			description, macro-and micro-images, macrophotographs and microphotographs	interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 12. The task of the SIW: Sclerosis	Classification of sclerosis. Etiology and pathogenesis. Morphogenesis.	LO3	6 (2/4)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
13	<b>Lecture. Topic:</b> Epithelial tumors without specific localization. Tumors of the exo-and endocrine glands	The structure of the tumor. Features of the tumor cell. Tumor growth, benign and malignant tumors. Morphogenesis and histogenesis of tumors. Classification of tumors.	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Epithelial tumors without specific localization. Tumors of the exo-and endocrine glands	The structure of the tumor. Features of the tumor cell. Tumor growth, benign and malignant tumors. Morphogenesis and histogenesis of tumors. Classification of tumors	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>SIW with a teacher.</b>	Causes of benign	PO3	6 (2/4)	Discussion of	Checking the

	Consultation on the implementation of the SIW 13. The task of the SIW: Prostate tumors	nodular prostatic hyperplasia. Malignancy of the prostate gland. Morphological characteristics			the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
14	<b>Lecture. Topic:</b> Mesenchymal tumors. Tumors of the melanin-forming and nervous tissue	Benign and malignant tumors from connective, adipose, muscle, hematopoietic tissues and lymphatic vessels. Melanin-forming tumors of neurogenic origin: nevi, melanoma. Neuroectodermal tumors, meningovascular tumors, tumors of the autonomic nervous system, tumors of the peripheral nervous system	LO1	1	Overview	Feed back
	<b>Practical lesson. Topic:</b> Mesenchymal tumors. Tumors of the melanin-forming and nervous tissues	Benign and malignant tumors from connective, adipose, muscle, hematopoietic tissues and lymphatic vessels. Melanin-forming tumors of neurogenic origin: nevi, melanoma. Neuroectodermal tumors, meningovascular tumors, tumors of the autonomic nervous system, tumors of the peripheral nervous system	LO2	2	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists

	<b>SIW with a teacher.</b> Consultation on the implementation of the SIW 14. The task of the SIW: Ovarian tumors	Tumors of the genital stroma and germinogenic tumors. Morphological characteristics.	LO3	7 (2/5)	Discussion of the topic; working with macro-and microphotographs: description of macro - and microphotographs according to the scheme; preparation of an electronic version on the topic	Checking the descriptions of macro and micrographs by check lists (AA-Audit Assessment Tool)/check lists
15	<b>Lecture. Topic:</b> Tumors and diseases of the blood system	Анемия вследствие кровопотери, анемия вследствие нарушения кроветворения, анемия вследствие повышенного кроворазрушения. Лейкозы. Острые и хронические лейкозы, классификация, морфологические признаки	PO1	1	<b>Обзорная</b>	<b>Обратная связь Feed back</b>
	<b>Practical lesson. Topic:</b> Tumors and diseases of the blood system	Anemia due to blood loss, anemia due to impaired blood formation, anemia due to increased blood loss. Leukemia. Acute and chronic leukemias, classification, morphological features.	LO2	3	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs	Evaluation interview (AI – Assessment interview), checking the descriptions of macro-and micro-preparations, macro-and microphotographs/ check lists
	<b>Midterm exam N2</b>	Topics of lectures, practical classes, independent work on pathological anatomy, completed within 9-15 weeks	LO4	2	Colloquium on tickets (2 theoretical questions, description and	Evaluation interview (AI- Assessment interview) / checklists


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					conclusion on 1 macro- and 1 micro-preparation (or 1 macro- and 1 microphotography)	
<b>8.1</b>	<b>Intermediate certification</b>					<b>15</b>
<b>9.</b>	<b>Methods of learning and teaching</b>					
9.1	Lectures	Overview				
9.2	Practical lessons	Discussion of the topic, study and description, macro-and micro-images, macrophotographs and microphotographs by topic. Oral survey, verification of descriptions of macro-and micro-products, macro-and microphotographs and conclusions on checklists				
9.3	SIW/SIW with a teacher	Discussion of the topic; work with macro-and microphotographs: description of macrophotography according to the scheme, preparation of an electron version on the topic; description and conclusion on microphotography. Verification of descriptions, conclusions of macro-and microphotographs on check lists				
9.4	Midterm exam	Colloquium on tickets. Oral survey on questions, descriptions and conclusions on macro-and micro-preparations, macro-and microphotographs				
<b>10.</b>	<b>Knowledge assessment criteria</b>					
<b>10.1</b>	<b>Criteria for assessing the learning outcomes of the discipline</b>					
№	Result training	Unsatisfactory	Satisfactory	Good	Very good	
LO1	Demonstrates knowledge of the pathology of organs and systems, understanding of the patterns of development of morphological changes in various diseases	1) does not characterize the morphology of general pathological processes 2) does not understand the patterns of development of typical pathological processes	1) describes the morphology of general pathological processes 2) Understand the patterns of development of typical pathological processes	1) apply knowledge about the morphology of general pathological processes to diagnose diseases using biopsy, operation and autopsy results 2) explain the patterns of development of typical pathological processes.	1) evaluates the morphology of general pathological processes for the diagnosis of diseases using the results of biopsy ,surgery and autopsy 2) compares the results of biopsies,operations and autopsies with clinical manifestations 3) analyzes the patterns of development of typical pathological processes	
LO2	Explains the etiology, pathogenesis, morphogenesis of various diseases	1) does not explain the etiology, pathogenesis, morphogenesis of typical pathological processes	1) does not fully explain the etiology, pathogenesis, morphogenesis of typical pathological processes	1) explains the etiology, pathogenesis, morphogenesis of typical pathological processes	1) analyzes the problems of etiology, pathogenesis, morphogenesis of typical pathological processes, compares them with clinical data	
LO3	Determines pathoanatomical	1) does not reflect the main	1) partially reflects the main	1) evaluates the pathological anatomy	1) evaluates the pathological anatomy of	



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	changes at the organ, tissue and cellular levels	morphological manifestations of typical pathological processes 2) does not fully name pathological processes at the organ, tissue and cell levels	morphological manifestations of typical pathological processes 2) does not fully name pathological processes at the organ, tissue and cell levels	of typical pathological processes, their main morphological manifestations 2) independently determines pathological processes at the organ, tissue and cellular levels	typical pathological processes, their main morphological manifestations 2) independently determines pathological processes at the organ, tissue and cellular levels 3) analyzes pathological changes in organs, tissues and cells, compares morphology with clinic
LO4	Describes macro- and micropreparations, conducts differential diagnostics of the pathology of organs and systems at the organ, tissue and cellular levels	1) does not describe macro-and micropreparations  2) does not diagnose pathological processes at the organ, tissue and cellular levels	1) allows inaccuracies in the description of macro-and micropreparations  2) pathological processes are difficult to diagnose at the organ, tissue and cellular level	1) describes macro and micropreparations  2) conducts diagnostics of pathological processes at the organ, tissue and cellular levels	independently describes macro and micropreparations 2) conducts differential diagnosis of pathological processes at the organ, tissue and cellular levels.
LO5	Makes conclusions on pathoanatomical changes in organs and systems, explains the outcomes, development of complications and causes of death in various diseases	1) does not name morphological changes in organs and tissues in general pathological processes, it is difficult to draw conclusions 2) does not characterize the results of pathological and anatomical studies in emergency situations 3) does not list the results, complications and causes of death	1) shows morphological changes in organs and tissues in general pathological processes, making it difficult to draw conclusions 2) does not fully describe the results of pathological and anatomical studies in emergency situations 3) partially lists the results, complications and causes of death	1) to diagnose the pathological process, apply knowledge about morphological changes in organs and tissues in general pathological processes, draw conclusions 2) describes pathological and anatomical changes in emergency situations 3) names the possible consequences, complications, and causes of patient death in full	1) analyzes morphological changes in organs and tissues in general pathological processes, diagnoses pathological processes, draws conclusions 2) evaluates the results of pathological and anatomical studies in emergency situations 3) predicts the development of possible outcomes, complications, causes of death of patients, explains

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LO6	Demonstrates own knowledge and skills in studying the pathology of organs and systems using research skills, the ability for continuous self-education and development	1) does not demonstrate research skills for the study of morphology and clinic. 2) has no desire for continuous education and development	1) uses scientific and clinical materials to study morphology and clinic 2) does not complete tasks	3) uses scientific and clinical materials to study morphology and clinic 4) fully performs tasks	1) analyzes scientific and clinical materials, compares the results of morphology and clinic 2) shows a desire to work independently, is creative in completing tasks
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10.2	<b>A check –list. Criteria for evaluating an oral response in a practical session</b>
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**A check –list. Criteria for evaluating an oral response in a practical session**

№	Evaluation criterion	Very good	Good	Satisfying	Unsatisfactory
1.	Determination of the pathological process/disease	10-8	8-5	5-4	5-3
2.	Classification of pathological process/disease	10-8	8-5	5-4	5-3
3.	Etiology, pathogenesis, morphogenesis of the pathological process/disease	30-28	27-22	22-16	15-7
4.	Pathological anatomy of a pathological process/disease (characteristics by organs and systems): macroscopic features	30-28	28-22	22-16	15-7
5.	Complications, causes of death (in pathology of organs and systems), outcome	20-18	18-16	15-10	9-5
	Total	100-90	89-70	69-50	49-25

**The maximum score of points is 100.**

**A check-list. Criteria for evaluating responses to the description of macropreparations on a practical lesson and SIWT**

№	Evaluation Criteria	Very good	Good	Satisfying	Unsatisfactory	
1.	Name of the organ	10-8	8-5	5-4	5-3	3-0
2.	Size of the organ	10-8	8-5	5-4	5-3	3-0
3.	Surface: condition of the capsule or serous membrane, dullness, luster, application	30-28	27-22	22-16	15-7	7-0
4.	The characteristic of the	30-28	28-22	22-16	15-7	7-0

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	pathological focus: Localization, size, shape (if the ulcer is the condition of the bottom), color, consistency					
5.	Pathological diagnosis / conclusion	20-18	18-16	15-10	9-5	5-0
	Total	100-90	89-70	69-50	49-25	25-0

**The maximum score of points is 100**


**A check-list. Criteria for evaluating responses to the description of micropreparations on a practical lesson and SIWT**

№	Evaluation Criteria / Evaluation	Everything was shown correctly	Partially not displayed	The answer is incorrect
1.	Name of the organ or tissue / 20	20-15	15-10	9-0
2.	Description of pathological changes: localization, description / 30	45-35	35-25	25-0
3.	Stained by / 20	5-3	2-1	1-0
4.	Pathological diagnosis / conclusion / 30	30-22	22-14	14-0
	Total	100-75	74-50	49-0

**The maximum score of points is 100**

**Criteria for evaluating the response to situational tasks depending on the structure of the task and the list of questions**

	Evaluation criteria/evaluation	A, A-/90- 100 points	B+, B, B/89 -79 points	C+, C, C/79-60 points	D+, D/59-54 points	Fx/49- 0 points
1.	A complete answer to all questions, the diagnosis, the stage of the disease is correctly named, macroscopic and microscopic signs of the disease, complications of the disease, causes of death are described	+				
2.	Correct answer with clarifications and leading questions		+			
3.	Partially correct answers inaccurate answer by yourself			+		

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4.	Partially correct answers inaccurate answer with leading questions				+	
5.	No answer					+


#### Response scheme for the description of a macropreparation on SIWT

№	Name	Response	Rating
1.	Topic		
2.	Date		
3.	Number of the drug		
4.	Description		
5.	Name of the body		0-10
6.	The size of the organ		0-10
7.	Surface Condition of the capsule or serous membrane dimness gloss overlay		0-30
8.	Characteristic of the pathological focus: Localization size shape (if the ulcer is the state of the bottom)color consistency		0-30
9.	Pathological diagnosis/conclusion		0-20
10.	Picture of the drug (Internet)		
11.	Link		
12.	FULL NAME. student		
13.	Group number		
14.	Total points		0-100
15.	FULL NAME. teacher		

The maximum score of points is 100

#### Scheme of response to the description of the microslide to the SWIT

№	Name	Answer	Grade
1.	Subject		
2.	date		
3.	Drug number		
4.	Name of organ or tissue		0-20
5.	Characteristics of pathological changes:localization, description		0-45
6.	Coloring		0-5
7.	Pathological diagnosis/conclusion		0-30
8.	Picture of the drug (Internet)		
9.	Link		

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10.	FULL NAME. student		
11.	Group number		
12.	Total points		0-100
13.	FULL NAME. teacher		

**The maximum score of points is 100**


**Check list. Criteria for assessing oral answers at midterm control**

№	Evaluation criterion	Scores			
		Scores	good	satisfaction	dissatisfaction
1.	The student answered the question: called the pathological process (definition, classification, etiology, pathogenesis, pathological anatomy, complications)	30-27	26,7-21	20,7-15	15 ниже
2.	The student answered the question: called the pathological process (definition, classification, etiology, pathogenesis, pathological anatomy complications),	30-27	26,7-21	20,7-15	15 ниже
	Total	60-54	53,4-42	41,4-30	30<

The maximum number of points is 60 (for each question 30 points)

**Checklist criteria for evaluating answers to the description of macropreparations at midterm control**

№	Evaluation criterion	Everything listed correctly 20/ 4 points for each answer	Partially unspecified 10/ 1 to 3 points for each answer	The answer is incorrect/0 points
1.	Organ name	4-1	1<	-
2.	Organ size	4-2	2<	-
3.	Surface: capsule or serosa condition, dullness, shine, overlay	4-2	2<	-
4.	Characteristics of the pathological focus: Localization, size, shape (if the ulcer is a bottom condition), color, consistency	4-3	3<	-

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5.	Pathological diagnosis/conclusion	4-2	2<	-
6	Total	20-10	10<	-

The maximum score of points is -20

**Checklist criteria for evaluating answers to the description of microslides at border control**

№	Evaluation criterion/score	Everything listed correctly 20/ 5 points for each answer	Partially not specified 10/ from 1 to 4 points for each answer	The answer is incorrect
1.	Name of organ or tissue	5-1	1	-
2.	Characteristics of pathological changes: localization, description	5-4	4	-
3.	Coloring	5-2	2	-
4.	Pathological diagnosis/conclusion/	5-3	3	-
5	Total	20-10	10<	0


The maximum score of points is -20

**Interim certification – computer testing.**

**Multi-point knowledge assessment system**


Rating by letter system	Digital equivalent of points	Percentage content	Assessment according to the traditional system
A	4,0	95-100	Great
A -	3,67	90-94	
B +	3,33	85-89	Well
B	3,0	80-84	
B -	2,67	75-79	
C +	2,33	70-74	Satisfactory
C	2,0	65-69	
C -	1,67	60-64	
D+	1,33	55-59	
D-	1,0	50-54	Not satisfactory
FX	0,5	25-49	
F	0	0-24	

<b>11.</b>	<b>Learning resources</b>
<b>Electronic resources, including, but not limited to: databases, animation simulators, professional blogs, websites, other electronic reference materials (for example, video, audio, digests)</b> Electronic content for 1-15 classes: - presentation of the theoretical part-lecture material; - macro and micrographs; - video files with a description and conclusion on macro and micro photos. Department of <b>Google disk:</b>	


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<p><a href="https://drive.google.com/drive/folders/1rybSm6GhZkiuIGJaNAh5gh8nJ8tD3uxk?usp=sharing">https://drive.google.com/drive/folders/1rybSm6GhZkiuIGJaNAh5gh8nJ8tD3uxk?usp=sharing</a></p> <p>Cathedral link media library: <a href="https://media.skma.edu.kz/feed">https://media.skma.edu.kz/feed</a></p>	
<p><b>Electronic textbooks</b>  <b>Access link: <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>, LOGIN ibragim123, PASSWORD Libukma123 (login and password are the same for everyone) and / or on the website of the library and information center of the academy <a href="http://lib.ukma.kz">lib.ukma.kz</a></b></p> <p>1. Патологическая анатомия [Электронный ресурс] : национальное рук. / гл. ред. М. А. Пальцева, - М. : ГЭОТАР - Медиа, 2013. - 1264 с</p> <p>2. Струков, А. И. Патологическая анатомия [Электронный ресурс] : учебник - М. : ГЭОТАР - Медиа, 2013</p> <p>3. Струков, А. И. Патологическая анатомия [Электронный ресурс] : учебник . - 5-е изд. стер. - Электрон. текстовые дан. (51,9 МБ). - М. : Изд. группа "ГЭОТАР-Медиа", 2011. - . эл. опт. диск (CD-ROM).</p> <p>4. Патологическая анатомия [Электронный ресурс] : атлас: учеб. пособие / О. В. Зайратьянц [и др.] ; под общ. ред. О. В. Зайратьянца. - Электрон. текстовые дан. ( 144 МБ). - М. : Изд. группа "ГЭОТАР-Медиа", 2010. - 472 с. эл. опт. диск (CD-ROM) .-</p> <p>5. Тусупбекова, М. М. Морфологический атлас общепатологических процессов [Электронный ресурс] : учебник / М. М. Тусупбекова. - Электрон. текстовые дан. (1.03Гб). - Алматы : Эпиграф, 2016.</p> <p>6-Электронды кітапхана -<a href="http://lib.ukma.kz">http://lib.ukma.kz</a></p> <p>7-Электронды каталог <a href="http://10.10.202.52">http://10.10.202.52</a> -ішкі пайдаланушылар үшін <a href="http://89.218.155.74">http://89.218.155.74</a> -сыртқы пайдаланушылар үшін</p> <p>8-Республикалық жоғары оқу орындары аралық электронды кітапхана <a href="http://rmebrk.kz/">http://rmebrk.kz/</a></p> <p>9-«Студент кеңесшісі» Медициналық ЖОО электронды кітапханасы <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a></p> <p>10-«Параграф» ақпараттық жүйе «Медицина» бөлімі <a href="https://online.zakon.kz/Medicine">https://online.zakon.kz/Medicine</a></p> <p>11-«Заң» құқықтық ақпараттың электронды дереккөзі <a href="https://zan.kz">https://zan.kz</a></p> <p>12-Ғылыми электрондық кітапхана <a href="https://elibrary.ru/">https://elibrary.ru/</a></p> <p>13-«BooksMed» электронды кітапханасы <a href="http://www.booksmed.com">http://www.booksmed.com</a></p> <p>14-«Web of science» (Thomson Reuters) <a href="http://apps.webofknowledge.com">http://apps.webofknowledge.com</a></p> <p>15-«Science Direct» (Elsevier) <a href="https://www.sciencedirect.com">https://www.sciencedirect.com</a></p> <p>16-«Scopus» (Elsevier) <a href="http://www.scopus.com">www.scopus.com</a></p> <p>17-PubMed <a href="https://www.ncbi.nlm.nih.gov/pubmed">https://www.ncbi.nlm.nih.gov/pubmed</a></p> <p>1-Electronic library -<a href="http://lib.ukma.kz">http://lib.ukma.kz</a></p> <p>2-Electronic catalogue</p>	




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<p> -http://10.10.202.52  - for internal users  -http://89.218.155.74  -for external users  3-Republican Interuniversity electronic library  -http://rmebrk.kz/  4-electronic library of the medical University " student adviser»  -http://www.studmedlib.ru  5- "Paragraph" information system" Medicine"  -https://online.zakon.kz/Medicine  6-«Law " Electronic source of legal information  -https://zan.kz  7-Scientific electronic library  -https://elibrary.ru/  8-«BooksMed» electronic library  -http://www.booksmed.com  9-«Web of science» (Thomson Reuters)  -http://apps.webofknowledge.com  10-«Science Direct» (Elsevier)  -https://www.sciencedirect.com  11-«Scopus» (Elsevier)  -www.scopus.com  12-PubMed  -https://www.ncbi.nlm.nih.gov/pubmed </p>	
Laboratory physical resources	
Special programs	
Journals (electronic journals)	
<p> <b>Basic and additional literature</b>  <b>In English</b>  1. Norris, TommieL.  Porth's Pathophysiology: Concepts of Altered Health States [Text] : textbook / T. L. Norris . - 10 nd ed. - [Б. м.] : Wolters Kluwer, 2019. - 1573 p.  Перевод заглавия: Патофизиология Porth's: концепции измененных состояний здоровья  2. Klatt , Edward C.  Robbins and Cotran. Review of Pathology [Text] : textbook / Edward C. Klatt , V. Kumar . - 4 nd ed. - [S. l.] : Elsevier Saunders, 2015. - 492 p.  Перевод заглавия: Роббинс и Cotran. Обзор патологии  3. Kumar , V.  Robbins Basic Pathology [Text] : textbook / V. Kumar , A. K. Abbas, J. C. Aster. - 10 nd ed. - [S. l.] : Elsevier, 2018. - 935 p.  Перевод заглавия: Основная Патология Роббинса  4. Kumar , V.  Robbins and Cotran. Pathologic Basis of Disease [Text] : textbook / V. Kumar , Abyl K. Abbas, Jon C. Aster. - 9 nd ed. - [Б. м.] : Elsevier/ Saunders , 2015. - 1391 с.  Перевод заглавия: Роббинс и Cotran. Патологическая основа заболевания  <b>In Russian language</b>  <b>basic</b>  1.Тусупбекова, М. М. Клиническая патоморфология: монография / М. М. Тусупбекова. - Алматы : Эверо, 2016. - 184 с.  2.Повзун, С. А. Патологическая анатомия в вопросах и ответах: учеб. пособие / С. А. Повзун. - 3-е изд., перераб. и доп. ; Рек. ГБОУ ВПО "Первый Мос. гос. мед. ун-т им. И. М. Сеченова". </p>	

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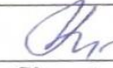
12.	Discipline Policy
	<p>Student requirements, attendance, behavior, grading policies, penalties, incentive measures, etc.</p> <p>The student must:</p> <ul style="list-style-type: none"> <li>• perform tasks daily according to the schedule of lectures, practical classes and SRSP classes.</li> <li>• participate in discussions, complete individual and group tasks, and explore other resources.</li> <li>• complete tasks within the deadlines set by the teacher;</li> <li>• observe medical ethics and deontology;</li> <li>• keep the department clean;</li> <li>• do not damage the furniture in the classrooms;</li> <li>• take care of textbooks;</li> <li>• observe the appearance of a medical student;</li> <li>• observe safety regulations;</li> <li>• wear masks during a flu epidemic;</li> <li>• do not miss classes without a good reason;</li> <li>• to work out the classes missed for a good reason in a timely manner, but only if the dean's office has permission and at the time specified by the teacher;</li> <li>• don't be late for classes;</li> <li>• have the necessary documentation in the classroom: syllabus, lesson content, lectures, notebook and textbook;</li> <li>• conscientiously prepare for classes;</li> <li>• be active during classes;</li> <li>• do not engage in extraneous activities during classes;</li> <li>• observe silence, order during breaks;</li> <li>• perform and submit the SIW with a teacher in a timely manner according to the schedule (in electronic form);</li> <li>• in case of non-fulfillment of the sections of the work, students are subject to punitive measures:</li> <li>• if you miss a lecture without a valid reason, the score of the boundary control is reduced by 1.0 points for each missed lecture;</li> <li>• if you skip the SIW with a teacher without a valid reason, the score of the boundary control is reduced by 2 points for</li> </ul>

<p>ONTÜSTIK-QAZAQSTAN <b>MEDISINA AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ</p>		<p>SOUTH KAZAKHSTAN <b>MEDICAL ACADEMY</b> АО «Южно-Казахстанская медицинская академия»</p>
<p>Department of Pathology and Forensic Medicine Working programme of the "General Pathological Anatomy" (SYLLABUS) Studying Programme 6B10101 «General Medicine»</p>		<p>044-63/11 ( ) Edit. № 1 Page 25 from 32</p>

each missed lesson;

- in case of late delivery of the SIW without a valid reason (later than the specified week) SIW is not accepted;
- in case of a single violation of the discipline policy, a warning is issued to the student;
- overdue tasks in Platonus are rated "0";
- in case of a systematic violation of the discipline policy, information about the student's behavior is transmitted to the dean's office of the faculty;
- a student who has received an unsatisfactory grade for one of the types of controls (midterm exam1, midterm exam 2, the average score of the current control) is not allowed to take the exam in the discipline.

13.	<b>Academic policy based on the moral and ethical values of the Academy</b>
	SKMA Academic policy on the organization and conduct of the educational process <a href="https://ukma.kz">https://ukma.kz</a> " The Code of Honor of the student»
	<p>The formula for calculating the final grade for the discipline To conduct various forms of control in remote, mixed (full - time-distance) training, online proctoring is used – a system for verifying the identity and confirming the results of passing online exams. The final score is calculated automatically based on the average score of the current control, the average score of the boundary control, and the score of the final control. <b>Final score (100%) = AR(60%) + FC(40%)</b> <b>AR (60%) = MEas (20%) + ARas (40%)</b> <b>MEas = (ME1 +ME2):2</b> <b>Final score (100%) = MEas x 0.2 + ARas x 0.4 + FC x 0.4</b> <b>AR</b>-admission rating <b>FC</b>-evaluation of the final control <b>MEas</b> – the average score of the boundary control, taking into account penalty points <b>CCas</b> – average assessment of the current control, taking into account the SIW <b>ME1</b>-midterm exam 1 <b>ME2</b>-midterm exam 2</p>
14.	<b>Approval and revision</b>

Date approved by the department	Protocol №	FULL NAME. head	Signature
26.05.2023	N11	Sadykova A.Sh.	
Date of approval by the EPC	Protocol №	FULL NAME. Chairman of the EPC	Signature
05.06.2023	N11	Sadykova A.Sh.	
Revision date	Protocol №	FULL NAME. head	Signature
04.09.2023	N2	Sadykova A.Sh.	
Date of approval by the EPC	Protocol №	FULL NAME. Chairman of the EPC	Signature
05.09.2023	N2	Sadykova A.Sh.	