



ONTUSTIK QAZAQSTAN <b>MEDISINA          AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN <b>MEDICAL          ACADEMY</b> АО «Южно-Казakhstanская медицинская академия»	11-2025 Page 1of 36
Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases		
Working curriculum of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

## Syllabus

### Working curriculum of the discipline "Urogenital system in pathology" Educational program 6B10115 "Medicine"

<b>1. General information about the discipline</b>			
1.1	<b>Course code:</b> USP 3222	1.6	<b>Academic year:</b> 2025-2026
1.2	<b>Course title:</b> Urogenital system in pathology	1.7	<b>Course:</b> 3
1.3	<b>Prerequisites:</b> General pathology, genitourinary system in norm	1.8	<b>Semester :</b> 6
1.4	<b>Postrequisites:</b> Basics of internal diseases	1.9	<b>Number of credits (ECTS):</b> 4/120
1.5	<b>Cycle:</b> BD	1.10	<b>Component :</b> IC
<b>2. Description of the discipline</b>			
<p>Formation of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and the main parameters of laboratory tests, issues of etiology, pathogenesis, morphogenesis, biological characteristics of microorganisms of frequently occurring pathological processes of the genitourinary system, acquisition of skills in choosing research methods for diagnostics and drugs for the treatment of the most common diseases in adults</p>			
<b>3. Summative Assessment Form</b>			
3.1	• Testing	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral	3.7	Project
3.4	• OSPE/OSCE or practical skills assessment	3.8	Other (specify)
<b>4. Objectives of the discipline</b>			
<p>Formation of a holistic understanding of the pathology of the genitourinary system, based on symptoms and syndromes, as well as on the methods of their study. Ensuring the achievement of the final learning outcomes based on the joint study of the pathology of the genitourinary system on the propaedeutics of internal and pediatric diseases with fundamental disciplines. Formation of clinical thinking skills based on knowledge of the pathophysiological mechanisms of the course, pathological changes, complications and outcome of diseases, physical and clinical laboratory methods of examination and the choice of drugs in adults with the main clinical syndromes in the pathology of the genitourinary system.</p>			
<b>5. Final learning outcomes (LO of the discipline)</b>			
LO1	Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the genitourinary system.		
LO2	Proficient in methods of conducting questioning and physical examination of adults, uses clinical thinking in collecting information when drawing up an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in pathology of the genitourinary system.		
LO3	Uses clinical thinking in collecting information when interpreting the results of morphological, laboratory and instrumental methods of examining patients with pathology of the genitourinary system, formulates a syndromic diagnosis, and fills out a medical history.		
LO4	Communicates information, ideas, problems and solutions to patients and their family members, and is proficient in ethical and deontological practices when communicating with patients, their relatives and colleagues.		
LO5	Determines pathological processes at the organ and cellular levels, interprets data on the pathophysiology and morphology of diseases taking into account the clinical data of patients, makes conclusions, explains the patterns of development of complications and outcomes of pathology of the genitourinary system, evaluates the results of experimental studies.		
LO6	Selects medications in accordance with the diagnosis, writes prescriptions, determines the dosage regimen, recognizes adverse effects of medications, predicts the development of side effects and interactions of medications used in pathology of the genitourinary system.		
LO7	Analyzes professional literature when working with scientific articles, completes a project, demonstrates a desire for continuous improvement of his/her activities.		
5.1	<b>LO discipline</b>	<b>Learning outcomes of the OP, which are associated with the discipline LO</b>	

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LO 1	LO 1 Apply fundamental knowledge in the field of biomedical, clinical, epidemiological and social-behavioral sciences in practice.
LO 2	
LO 3	LO 2 Provides patient-centered care in the biomedical, clinical, epidemiological and social-behavioral sciences aimed at the diagnosis, treatment and prevention of the most common diseases.
LO 4	
LO 5	LO 6 Conducts admission, diagnostics, treatment, dynamic observation and rehabilitation of pediatric and adult patients, including pregnant women, based on the principles of evidence-based medicine.
LO 6	
LO 7	

## 6. Detailed information about the discipline

6.1	<ul style="list-style-type: none"> <li>• Location of the Department of Pathology and Forensic Medicine: Shymkent, Al-Farabi sq., 3, academic building No. 2 SKMA, 4th floor, rooms No. 404 a, b, No. 406, No. 408, No. 409, No. 411 a, b; e-mail: <a href="mailto:Patan.gisto@mail.ru">Patan.gisto@mail.ru</a></li> <li>• Location of the Department of Pharmacology, Pharmacotherapy and Pharmacology Clinic: Shymkent, Al-Farabi Ave., 1, main academic building of SKMA, 4th floor, auditorium #419, #421, #425, #429, #431, #434, #417, lecture hall #4; tel. 40-82-06 (ATS), 227 (ext.).</li> <li>• Location of the Department of Internal Medicine Propaedeutics: Shymkent, ParkHealth Clinic, Kurmanbekov St., 2; tel.: 8 701 738 6114, e-mail: <a href="mailto:propedevtica_vb@mail.ru">propedevtica_vb@mail.ru</a></li> </ul>
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6.2	Number of hours (120)	Lectures	Practical. les.	Lab.	SIWT	SIW
		8	32		12	68

## 6.3 Study plan for the discipline

Days		1	2	3	4	5	6	7	8	9	10	Watch
Form of the lesson												
General pathological physiology (1 cr.)	Lec	1				1						2
	Practical	3				1					4	8
	SIWT	1				1 RK No. 1					1 RK #2	3
	SIW	5				3					6	14+3(PA)=17
General pathological anatomy (1 cr.)	Lec		1						1			2
	Practical		3			2			3			8
	SIWT		1			1			1			3
	SIW		6			2			6			14+3(PA)=17
Pharmacology (1 cr.)	Lec			1			1					2
	Practical			3			3			2		8
	SIWT			1			1			1		3
	SIW			6			6			2		14+3(PA)=17
Propaedeutics of internal diseases (1 cr.)	Lec				1			1				2
	Practical				3			3		2		8
	SIWT				1			1		1		3
	SIW				6			6		2		14+3(PA)=17

## 7. Information about teachers

No.	Full name	Degrees and Position	Email address
Department of Pathology and Forensic Medicine			
1	Sadykova Aliya Shamilevna	Head of the Department of Pathology and Forensic Medicine, Doctor of Medical Sciences, Acting Professor	<a href="mailto:aliya.sadykova.66@mail.ru">aliya.sadykova.66@mail.ru</a>
2	Bisimbaeva Saule Babatovna	PhD, Acting Associate Professor	<a href="mailto:Bisimbaeva@inbox.ru">Bisimbaeva@inbox.ru</a>
3	Dosybaev Bakhytzhān Krykbaevich	PhD, Acting Associate Professor	<a href="mailto:Krik85@mail.ru">Krik85@mail.ru</a>
4	Khodzhaev Nurlan Kenzhetoreevich	PhD, Acting Associate Professor	<a href="mailto:nkkhoja@mail.ru">nkkhoja@mail.ru</a>
5	Kulbalieva Zhannat Zhakslikovna	PhD, Acting Associate Professor	<a href="mailto:zhann_7@mail.ru">zhann_7@mail.ru</a>

6	Sedykh Egor Pavlovich	PhD, Acting Associate Professor	egorsedykh1986@mail.ru
7	Kerimov Rasim Azatovich	Master, Senior Lecturer	Kir-2004@list.ru
8	Abildina Kalamkas Berzhanovna	Master, Assistant	Mskas1972@mail.ru
9	Ignatieva Anastasia Sergeevna	Senior Lecturer	Zhelonkina_88@mail.ru
10	Berdaliev Gulmira Bakhytkyzy	Senior Lecturer	Mira-3505@mail.ru
11	Kurymbaeva Ainur Rashidkyzy	Assistant	Smp_zoj@mail.ru
12	Seidakbar Aisana Usenovna	Teacher	aseydakbar@mail.ru
13	Duysembieva Zhazira Mereykyzy	Teacher	zhazira0508@mail.ru

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

1	Ibragimova Aigul Gaffarovna	PhD, Acting Associate Professor	aygul_ibr@mail.ru
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4	Syrmanova Nurgul Rakhmanovna	Master of Medical Sciences, Senior Lecturer	n_rakchman@mail.ru
5	Dustanova Zhamila Talibbaevna	Senior Lecturer	jam11.76.76@mail.ru
6	Muyutova Makhsuda Nasyrovna	Master of Medical Sciences, Senior Lecturer	mahsu_med@mail.ru

Department of Propaedeutics of Internal Diseases

1	Bekmurzaeva Elmira Kuanyshevna	Head of the Department, Doctor of Medical Sciences, Professor	Elmira-bek@mail.ru
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5	Toktarova Gulnaz Abdimalikovna	Assistant	Toktar_8585@mail.ru
6	Bathieva Madina Bekenovna	Assistant	Madin_madina@mail.ru
7	Tazhibaeva Azhar Bakytbekkyzy	Assistant	avril.tab@mail.ru
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**8. Thematic plan**

Day	Form of the lesson	Topic Title	Summary	LO fashion - la	Number of hours	Forms/ methods/ learning technologies	Forms/ evaluation methods
1	Pathological physiology. Lecture1	Pathophysiology of the kidneys . Disorders of the function of glomeruli and tubules	Impaired glomerular filtration and tubularreabsorption. Tubulopathies. The role of the kidneys in the disturbance of water-electrolyte metabolism and acid-base balance. Renal and extrarenal disorders in kidney pathology . Clinical significance	LO1	1	Overview	Quick poll Feedback
	Pathological physiology. Practical lesson1	Pathophysiology of the kidneys . Disorders of the function of glomeruli and tubules	Impaired glomerular filtration and tubularreabsorption. Tubulopathies. The role of the kidneys in the disturbance of water-electrolyte metabolism and acid- base balance. Renal and extrarenal disorders in kidney pathology . Clinical significance	LO3 LO5	3	Work in small groups, discussion of the topic, case- study	Checklist for working in small groups, topic discussion checklist, case solution checklist

	Pathological physiology. SIWT/SIW 1	Dysfunction of the sex glands	Dysfunction of male gonads. Hypo- and hypergonadism. Dysfunction of female gonads. Hypo- and hyperfunction of ovaries. Clinical significance	LO3 LO5	1/5	Case - study	Case Solution Checklist
2	Pathological anatomy. Lecture1	Glomerulopathy tubulopathy	Glomerulopathies. Glomerulonephritis. Renal amyloidosis. Tubulopathies. Pyelonephritis. Acute and chronic renal failure. Urolithiasis. Clinical significance Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	1	Overview	Quick poll Feedback
	Pathological anatomy. Practical lesson1	Glomerulopathies	Glomerulopathies. Glomerulonephritis. Renal amyloidosis. Clinical significance Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1 LO3 LO5	3	Discussion of the topic, description of macro- and micro- paratov with the conclusion nim, case study	Checklist descriptions of macro- and micropreparati ons, case solution checklist
	Pathological anatomy. SIWT/SIW 1	Congenital pathology of the kidneys. Kidney tumors	Congenital malformations of the kidneys. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1 LO3 LO5	1/6	From ase-study	Checklist descriptions of macro- and micropreparati ons, case solution checklist
3	Pharmacology. Lecture1	Drugs affecting the function of the urinary system. Diuretics.	Classification of drugs affecting the function of the urinary system. Drugs used in nephrotic, nephritic, dysuric syndrome. Drug therapy for acute and chronic renal failure (ARF and CRF). Mechanism of action. Indications for use. Contraindications, side effects.	LO 1	1	Overview	Quick poll Feedback
	Pharmacology. Practical lesson1	Drugs that affect the function of the urinary system.	Classification of drugs affecting the function of the urinary system. Drugs used in nephrotic, nephritic, dysuric syndrome. Drug therapy for acute and chronic renal failure (ARF and CRF).	LO 6	3	Discussion of the topic, solving situational problems, testing	Checklist

			Mechanism of action. Indications for use. Contraindications, side effects.				
	Pharmacology. SIWT/SIW 1	Agents that affect immune processes.	Immunostimulants. Drugs from different pharmacological groups that increase the body's non-specific resistance. Immunosuppressants. Classification. Mechanism of action and comparative characteristics of drugs. Features of use in children.	LO 6 LO7	1/6	Preparation and defense of presentations, work with scientific articles	Checklist
4	Propedeutics of internal diseases. Lecture1	Methods of examination of patients with pathology of the urinary system. Diagnostic value.	Questioning patients with urinary system pathology. Data from physical examination of the urinary system. General examination: examination of the face, eyelids; examination of the lumbar region; assessment of the degree of kidney prolapse; palpation and percussion technique (tapping method) of the kidneys, percussion determination of the upper border of the bladder; auscultation - auscultation of the renal arteries.	LO2	1	Overview	Blitz survey on the topic
	Propedeutics of internal diseases. Practical lesson1	Methods of examination of patients with pathology of the urinary system. Diagnostic value.	Questioning patients with urinary system pathology. Data from physical examination of the urinary system. General examination: examination of the face, eyelids; examination of the lumbar region; assessment of the degree of kidney prolapse; palpation and percussion technique (tapping method) of the kidneys, percussion determination of the upper border of the bladder; auscultation - auscultation of the renal arteries.	LO2 LO3 LO4	3	Discussion of the topic of the practical lesson, solving situational problems, learning and performing practical skills.	Checklist for oral questioning, assessment of practical skills.
	Propedeutics of internal diseases. SIWT/SIW 1	Laboratory methods for examining patients with diseases of the urinary system.	Urine collection for general urine analysis, Zimnitsky and Reberg tests, its indicators in the norm and pathology. Principles of determining the level of creatinine, urea and	LO2 LO3	1/6	Preparation and defense of the presentation.	Checklist Presentation Evaluation


			residual nitrogen in the blood serum, their indicators in norm and pathology.				
5	Pathological physiology. Lecture2	Renal failure	Acute and chronic renal failure, etiology, pathogenesis, functional and metabolic disorders. Uremia, concept, manifestations, pathogenesis. Clinical significance	LO1	1	Overview	Quick poll Feedback
	Pathological physiology. Practical lesson2	Renal failure	Acute and chronic renal failure, etiology, pathogenesis, functional and metabolic disorders. Uremia, concept, manifestations, pathogenesis. Clinical significance	LO3 LO5	1	Work in small groups, discussion of the topic, case - study	Checklist for working in small groups, topic discussion checklist, case solution checklist
	Pathological physiology. SIWT/SIW 2	Border control #1	Topics of lectures, practical classes, independent work, covered during 1-5 days of training	LO1 LO2 LO3 LO4 LO5 LO6	1/3	Integrated monitoring of educational achievements using control training cases, testing	Checklist case solutions, testing checklist
	Pathological anatomy . Practical lesson2	Tubulopathies.	Pyelonephritis. Acute and chronic renal failure. Uremia. Nephrosclerosis. Urolithiasis. Clinical significance Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	2	Discussion of the topic, description of macro- and micro- paratov with the conclusion nim, case study	Checklist descriptions of macro- and micropreparations, case solution checklist
	Pathological anatomy . SIWT/SIW 2	Tumors kidneys	Benign and malignant tumors of the kidneys. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/2	From ase-study	Case solution checklist
6	Pharmacology . Lecture2	Antiviral agents.	Classification and mechanism of action of antiviral agents. Application. Biological significance, pharmacological effects and application of interferons. Interferonogens. Drugs for the treatment of AIDS.	LO1	1	Overview	Blitz survey. Feedback.

			Possible side effects.				
Pharmacology . Practical lesson2	Anti-inflammatory drugs.	Classification of anti-inflammatory drugs (steroidal and non-steroidal anti-inflammatory drugs). NSAIDs of different chemical groups. Mechanism of action, indications, contraindications and side effects. Features of use in children.	LO 6	3	Discussion of the topic, solution of situational tasks, testing	Checklist	
Pharmacology . SIWT/SIW 2	Anti-tuberculosis drugs. Anti-spirochetal drugs.	General characteristics. Classification. Mechanism of anti-tuberculosis action of drugs of different groups. Mechanism and spectrum of antibacterial action of primary and reserve drugs, their pharmacokinetics. Basic principles of therapy with anti-tuberculosis drugs (duration and stages of treatment, combination therapy). Principles of prescribing antispicrochetal agents. Antispicrochetal properties of benzylpenicillin preparations. Mechanism of action of bismuth preparations, their use in the treatment of syphilis. Side effects. Reserve antispicrochetal antibiotics: tetracycline, erythromycin, etc. Features of use in children.	LO 6 LO 7	1/6	Preparing a presentation, working with scientific articles	Checklist	
7 Propedeutics of internal diseases . Lecture2	Leading clinical syndromes (dysuric, nephrotic, nephritic, hypertensive and renal failure) in the urinary system.	Predisposing factors and causes leading to the development of dysuric, nephrotic, nephritic, hypertensive syndromes and (acute and chronic) renal failure. Classification. Clinical and diagnostic features.	LO2	1	Overview	Blitz survey on the topic	
Propedeutics of internal diseases . Practical lesson2	Leading clinical syndromes (dysuric, nephrotic, nephritic) in the urinary system.	Predisposing factors and causes leading to the development of dysuric, nephrotic, nephritic syndromes. Classification. Clinical and diagnostic	LO2 LO3 LO4	3	Discussion of the topic of the practical lesson, solving situational problems.	Oral Questioning Checklist	

		Diagnostic value.	features.				
	Propeaedeutics of internal diseases . SIWT/SIW 2	Instrumental methods of examination of patients with diseases of the urinary system.	Principles of radioisotope radiography, diagnostic capabilities of the method. Preparation and technique of excretory urography, its indicators in norm and pathology. Determination of glomerular filtration rate: calculated Glomerular filtration rate according to the CKD-EPI formula. Visual examination methods: radiological and ultrasound. The importance of endoscopic examination methods.	LO2 LO3	1/6	Presentation Defense	Checklist Presentation Evaluation
8	Pathological anatomy . Lecture2	Renal failure	Acute and chronic renal failure. Uremia. Nephrosclerosis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	1	Overview	Quick poll Feedback
	Pathological anatomy . Practical lesson3	Pathology of the female reproductive system	Gestosis. Tumors and tumor-like changes in the trophoblast. Ectopic pregnancy. Endometritis. Dyshomonal changes in the endometrium. Endometriosis. Uterine cancer. Ovarian tumors. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	3	Discussion of the topic, description of macro- and micro- preparatov with the conclusion nim, case study	Checklist descriptions of macro- and micropreparati ons, case solution checklist
	Pathological anatomy . SIWT/SIW 3	Pathology of the male reproductive system	Prostatitis. Prostatic hyperplasia. Prostate cancer. Testicular tumors. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/6	From ase-study	Case solution checklist
9	Pharmacology Practical lesson3	Antiviral agents. Antifungal agents.	Classification and mechanism of action of antiviral agents. Application. Biological significance, pharmacological effects and application of interferons.	LO 6	2	Discussion of the topic, solving situational problems, testing	Checklist



			Interferonogens. Drugs for the treatment of AIDS. Possible side effects. Features of application in children. Classification of antifungal agents. Comparative characteristics of drugs. Application. Possible complications and their prevention.				
Pharmacology . SIWT/SIW 3	Antiprotozoal agents. Anthelmintic agents.	Classification, mechanism of action of drugs used to treat malaria, amebiasis, trichomoniasis, leishmaniasis, etc. Classification of anthelmintic drugs. Mechanism of action. Indications for use. Contraindications. Features of use in children.	LO 6 LO 7	1/2	preparation and defense of presentations, work with scientific articles	Checklist	
Propedeutics of internal diseases . Practical lesson3	Leading clinical syndromes (hypertensive and renal failure) in the urinary system. Diagnostic value.	Predisposing factors and causes leading to the development of hypertensive syndrome and (acute and chronic) renal failure. Classification. Clinical and diagnostic features.	LO2 LO3 LO4	2	Discussion of the topic of the practical lesson, solving situational problems.	Oral Questioning Checklist	
Propedeutics of internal diseases . SIWT/SIW 3	Palpation, percussion of the kidneys, percussion determination of the upper border of the bladder; auscultation of the renal arteries	Palpation and percussion (tapping method) of the kidneys, percussion determination of the upper border of the bladder; auscultation - a method of listening to the renal arteries	LO4	1/2	Learning and implementing practical skills	Checklist, acquisition of practical skills.	
10 Pathological physiology. Practical lesson 3	Syndromes associated with kidney disease	Nephrotic syndrome, concept, types, etiology , pathogenesis , manifestations, complications. Nephritic syndrome, concept, etiology , pathogenesis , manifestations, complications. Differences between nephrotic and nephritic syndromes . Nephrolithiasis, concept, manifestations. Causes and mechanisms of formation of urinary stones. Clinical significance	LO3 LO5	4	Work in small groups, discussion of the topic, case - study	Checklist for working in small groups, topic discussion checklist, case solution checklist	
Pathological	Border control	Topics of lectures, practical	LO1	1/6	C ase - study	Case Solution	

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physiology. SIWT/SIW 3	No. 2	classes, independent work, covered during 6 - 10 days of training	LO2 LO3 LO4 LO5 LO6		Checklist
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Preparation and implementation of interim assessment 1 2 hours

### 9. Teaching methods and forms of control

9.1	Lectures	Overview lectures
9.2	Practical classes	Work in small groups, discussion of the topic, oral questioning (solving situational problems), writing out prescriptions, case studies, description of macro- and micropreparations with a conclusion, implementation of practical skills, interpretation of clinical laboratory test results, discussion of the topic,
9.3	SIWT/SIW	Case study, analysis of scientific articles Presentation defense and practical skills implementation, discussion of the topic, solutions to test cases
9.4	Border control	Integrated monitoring of educational achievements using control educational cases, testing

### 10. Evaluation criteria

#### 10.1 Criteria for assessing the learning outcomes of the discipline

No. LO	Name of learning outcomes	Unsatisfactory	Satisfactorily	Fine	Excellent
LO1	Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathology of the genitourinary system	1. Does not have a knowledge of the basics of semiotics and syndromology, does not identify symptoms and syndromes. 2. Cannot explain the etiology, pathogenesis and morphogenesis of pathological changes in the genitourinary system	1. Does not have a basic understanding of semiotics and syndromology, makes gross errors in determining symptoms and syndromes in pathologies of the genitourinary system. 2. Makes mistakes when explaining the etiology, pathogenesis and morphogenesis of pathological changes in the genitourinary system	1. Has a basic understanding of semiotics and syndromology, and can identify symptoms and syndromes. 2. Explains the etiology, pathogenesis and morphogenesis of pathological changes in the genitourinary system, but allows for fundamental inaccuracies	1. Fluently masters the basics of semiotics and syndromology, independently identifies symptoms and syndromes. 2. Freely explains the etiology, pathogenesis and morphogenesis of pathological changes in the genitourinary system
LO2	Has knowledge of methods of conducting questioning, physical examination of adults and children, uses clinical thinking in collecting information when drawing up an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in	Does not know the basic pathophysiological processes in the genitourinary system Unable to explain the mechanisms	Makes mistakes when describing the main pathological changes in the genitourinary system. Able to explain the mechanisms with errors	Describes the basic genitourinary system. Able to fully explain the mechanisms	Demonstrates the basic genitourinary system. Able to sketch the mechanisms

	pathology of the genitourinary system				
LO 3	Uses clinical thinking in collecting information when interpreting the results of morphological, laboratory and instrumental methods of examining patients with pathology of the genitourinary system, formulates a syndromic diagnosis, fills out a medical history	Does not know the main metabolic pathways that affect the function of the genitourinary system. Doesn't understand biochemical processes	Does not fully understand the main metabolic pathways that affect the function of the genitourinary system. Poor understanding of biochemical processes	Explains the main metabolic pathways that affect the function of the genitourinary system. Has a good understanding and knowledge of biochemical processes	Possesses clinical thinking skills, applies knowledge in collecting information when interpreting the results of morphological, laboratory and instrumental methods of examining patients with pathology of the genitourinary system, formulates a syndromic diagnosis, fills out a medical history. Effectively solves situational problems
LO 4	Communicates information, ideas, problems and solutions to patients and their family members, and is proficient in ethical and deontological practices when interacting with patients, their relatives and colleagues	Does not know how to apply knowledge of the genitourinary system in a clinical context, has not acquired the skills to collect a clinical history and perform a physical examination of patients with diseases of the genitourinary system to provide first aid, does not able to interpret the results of laboratory and instrumental studies	Does not fully know how to apply knowledge about the genitourinary system in a clinical context, collects clinical anamnesis and physical examination of patients with diseases of the genitourinary system to provide first aid with errors, poorly oriented in interpreting the results of laboratory and instrumental studies	Lists information about the genitourinary system in a clinical context, collects clinical history and physical examination of patients with diseases of the genitourinary system with the provision of first aid, is well versed in interpreting the results of laboratory and instrumental studies	Freely demonstrates knowledge of the genitourinary system in a clinical context, collects clinical anamnesis and physical examination of patients with diseases of the genitourinary system with the provision of first aid, is well versed in interpreting the results of laboratory and instrumental studies
LO 5	Determines pathological processes at the organ and cellular levels, interprets data on the pathophysiology and morphology of diseases taking into account the clinical data of patients, makes conclusions, explains the patterns of development of complications and outcomes of pathology of the genitourinary system, evaluates the results of	1. Is unable to determine pathological processes at the organ and cellular levels, makes gross errors. 2. Cannot interpret data on the etiology, pathophysiology and morphology of diseases taking into account the clinical data of patients. 3. Makes erroneous conclusions, has poor orientation and does not explain the patterns of development of complications and outcomes of pathology of the genitourinary system.	1. Determines pathological processes at the organ and cellular levels, but makes gross errors. 2. Cannot independently interpret data on the etiology, pathophysiology and morphology of diseases taking into account the clinical data of patients. 3. Makes erroneous conclusions, finds it difficult to independently explain the patterns of development of complications and outcomes of pathology	1. Determines pathological processes at the organ and cellular levels. 2. Interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 3. Draws conclusions, explains the patterns of development of complications and outcomes of pathology of the genitourinary system. 4. Evaluates the	1. Independently determines pathological processes at the organ and cellular levels. 2. Independently interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients. 3. Draws conclusions, explains the patterns of development of complications and outcomes of pathology of the genitourinary system. 4. Evaluates the results

	experimental studies	4. Is unable to evaluate the results of experimental studies and makes fundamental mistakes. 5. Incapable of solving situational problems	of the genitourinary system. 4. Finds it difficult to evaluate the results of experimental studies and makes fundamental inaccuracies. 5. Solves situational problems, but makes fundamental mistakes	results of experimental studies, but allows for minor inaccuracies. 5. Solves situational problems	of experimental studies. 5. Effectively solves situational problems
LO 6	Selects medications in accordance with the diagnosis, writes prescriptions, determines the dosage regimen, recognizes adverse effects of medications, predicts the development of side effects and interactions of medications used in pathology of the genitourinary system	1. Defines the general pharmacological group of drugs. 2. writes out a prescription with errors	1. Selects a pharmacological group of drugs by organs and systems. 2. Writes out a prescription using reference literature/ sources	1. Selects medications for the treatment and prevention of the most common diseases. 2. Writes out a prescription for the specified medication without errors. 3. Calculates the dose of the drug	1. Selects medications from various pharmacological groups in accordance with indications for use, contraindications and side effects 2. Writes out a prescription for medications in the most appropriate dosage form depending on age, gender, and functional characteristics. 3. Calculates doses using various methods and determines the frequency and duration of use of the drug
LO 7	Analyzes professional literature when working with scientific articles, carries out a project, demonstrates a desire for continuous improvement of his/her activities	1. Does not have research skills. 2. Does not have a desire for continuous self-education and development	1. Cannot analyze the topics of the classes. 2. Participates in the implementation of the project. 3. Violates deadlines for completing tasks	1. Analyzes scientific articles on the topics of the lesson. 2. Participates in the implementation of the project. 3. Completes assignments on time	1. Analyzes scientific articles on the topics of the lesson. 2. Uses international databases at work 2. Successfully defends the completed project. 3. Demonstrates motivation for independent work, approaches tasks creatively

## 10.2 Methods and criteria for evaluation

### Checklist for assessing a lesson

Form of control	Grade	Evaluation criteria
Performing practical skills	Great corresponds to points 95-100 90-94	- The student is well-versed in questioning and examining patients. Correctly and accurately selects questions when collecting anamnesis, accurately analyzes primary and secondary complaints, and is well-versed in the collected anamnesis of life and disease. - Accurately performs a basic physical examination (general examination, palpation, percussion, auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, etc.) in children and adolescents. - Conducts correct linking of objective physical examination data (palpation, auscultation, percussion), correctly interprets laboratory

		<p>and instrumental examination data.</p> <ul style="list-style-type: none"> <li>- Ability to evaluate pathophysiological patterns of research results. Finds and compares the connection between the main symptoms and syndromes.</li> <li>- Substantiates and establishes a presumptive syndrome-based diagnosis.</li> <li>- Used additional literature when preparing for the lesson.</li> <li>- Systematizes the material on the given topic.</li> <li>- Effectively communicates in medical practice, objectively conveys relevant information, knows and uses the norms of ethics and deontology when performing the skill;</li> </ul>
	<p>Fine corresponds to points 85-89 80-84 75-79 70-74</p>	<ul style="list-style-type: none"> <li>- The student differentiates between primary and secondary complaints well, is well oriented in the collected anamnesis of life and disease. Is well oriented when questioning and examining patients, but allows minor inaccuracies or fundamental errors, corrected by the student himself.</li> <li>- Accurately performs a basic physical examination: general examination, palpation, percussion, auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, etc. of children and adolescents. Incapable of correctly interpreting examination results. Does not accurately convey appropriate information;</li> <li>- Links data from objective physical examination (palpation, auscultation, percussion), and incorrectly interprets data from laboratory and instrumental studies.</li> <li>- Has errors in assessing pathophysiological patterns based on research results. Finds and compares the relationship between the main symptoms and syndromes. Establishes a presumptive syndrome-based diagnosis without substantiating the data</li> </ul>
	<p>Satisfactorily corresponds to points 65-69 60-64 50-54</p>	<ul style="list-style-type: none"> <li>- The student is able to navigate when questioning and examining patients, <u>differentiates between</u> primary and secondary complaints with errors, and is <u>poorly oriented</u> in the collected anamnesis of life and illness.</li> <li>- Makes mistakes when conducting a physical examination (palpation, percussion, auscultation and general examination) and demonstrates incomplete knowledge of the material on a given topic, while making fundamental mistakes.</li> <li>- <u>Links</u> data from objective physical examination (palpation, auscultation, percussion), correctly <u>interprets</u> data from laboratory and instrumental studies. Has errors in assessing examination results.</li> <li>- Is <u>unable to evaluate</u> pathophysiological patterns of research results. <u>Is unable to determine</u> the relationships between the main symptoms and syndromes. <u>Establishes a</u> presumptive syndrome-based diagnosis without substantiating the data.</li> <li>- Has a low level of communication skills in medical practice; <u>subjectively conveys appropriate information;</u></li> </ul>
	<p>Unsatisfactory corresponds to points 25-49</p>	<ul style="list-style-type: none"> <li>- The student has no idea about the main and secondary complaints, and is <u>not oriented</u> in the collected anamnesis of life and illness.</li> <li>- Is unable to carry out practical skills to interpret their results.</li> </ul>
	<p>Unsatisfactory corresponds to points 0-24</p>	<p><u>Cannot determine the relationship of</u> objective physical examination data (palpation, auscultation, percussion), <u>incorrectly interprets</u> laboratory and instrumental examination data.</p>

		<ul style="list-style-type: none"> <li>- Does not know how to evaluate pathophysiological patterns of research results. Does not find and is not able to compare the relationship between the main symptoms and syndromes. Establishes a presumptive syndrome-based diagnosis without substantiating the data</li> <li>- Does not participate in the work of the group. Is not able to communicate in medical practice; does not convey proper information, does not know and is not able to use the norms of ethics and deontology when performing the skill. When answering the teacher's questions, gross errors, not using specific terminology in answers.</li> </ul>
<b>Case study</b>	Great corresponds to points 95-100 90-94	<ul style="list-style-type: none"> <li>- solved cases within a certain time;</li> <li>- gave full answers to all questions</li> <li>Demonstrates original thinking when analyzing a situational task. Fully utilizes theoretical knowledge necessary to solve a given task. Demonstrates excellent knowledge of reference biochemical parameters when interpreting the proposed biofluid analysis data. Demonstrates the ability to draw logical conclusions on a situational task, while demonstrating a deep understanding of the necessary educational material.</li> </ul>
	Fine corresponds to points 85-89 80-84 75-79 70-74	<ul style="list-style-type: none"> <li>- solved cases within a certain time;</li> <li>- gave complete answers to all questions;</li> <li>- made minor mistakes when solving cases</li> <li>Possesses the necessary knowledge to solve this situational task. Allows for minor inaccuracies when discussing this case. Is able to draw correct conclusions on the proposed situational task.</li> </ul>
	Satisfactorily corresponds to points 65-69 60-64 50-54	<ul style="list-style-type: none"> <li>- solved cases within a certain time;</li> <li>- gave incomplete answers to questions;</li> <li>- made fundamental mistakes when solving cases</li> <li>Allows minor inaccuracies when discussing a given task, has difficulty interpreting analyses proposed in a situational task. Draws conclusions with difficulty</li> </ul>
	Unsatisfactory corresponds to points 25-49	<ul style="list-style-type: none"> <li>- solved cases incorrectly or did not solve them at all;</li> <li>- made gross mistakes when solving cases</li> <li>Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate conclusions.</li> </ul>
	Unsatisfactory corresponds to points 0-24	
<b>Interpretation of clinical laboratory test results</b>	Great corresponds to points 95-100 90-94	<ul style="list-style-type: none"> <li>- correctly, without any errors, interpreted the results of clinical laboratory tests;</li> <li>- made a reasoned conclusion</li> </ul>
	Fine corresponds to points 85-89 80-84 75-79 70-74	<ul style="list-style-type: none"> <li>- correctly interpreted the results of clinical laboratory tests, making minor errors;</li> <li>- made a reasoned conclusion</li> </ul>
	Satisfactorily corresponds to points 65-69 60-64 50-54	<ul style="list-style-type: none"> <li>- correctly interpreted the results of clinical laboratory studies, having made fundamental mistakes;</li> <li>- made an unfounded conclusion</li> </ul>

<b>Description of the macropreparation</b>	Unsatisfactory corresponds to points 25-49	- incorrectly interpreted the results of clinical laboratory tests, making gross errors; - did not draw a conclusion
	Unsatisfactory corresponds to points 0-24	
	Great corresponds to points 95-100 90-94	- correctly named the organ, indicated the dimensions, - described the surface: the condition of the capsule or serous membrane, dullness, shine, overlap; - gave a description of the pathological focus: indicated the location, size, shape (if it is an ulcer - the condition of the bottom), color, consistency; - made the correct pathological conclusion/diagnosis
	Fine corresponds to points 85-89 80-84 75-79 70-74	- correctly named the organ, indicated the dimensions, described the surface: condition of the capsule or serous membrane, dullness, shine, overlap; - gave a description of the pathological focus: indicated the location, size, shape (if it is an ulcer - the condition of the bottom), color, consistency; - made the correct pathological conclusion/diagnosis, but during the answer made minor mistakes and inaccuracies
	Satisfactorily corresponds to points 65-69 60-64 50-54	- correctly named the organ, did not indicate the size, did not fully describe the surface: did not describe the condition of the capsule or serous membrane, dullness, shine, overlap; - gave an incomplete description of the pathological focus: did not indicate indicated location, size, shape (if it is an ulcer - the condition of the bottom), color, consistency; - made the correct pathological conclusion/diagnosis, but during the answer made fundamental mistakes and inaccuracies
	Unsatisfactory corresponds to points 25-49	- correctly named the organ, did not indicate the size, did not describe the surface: did not describe the condition of the capsule or serous membrane, dullness, shine, overlap; - gave an incorrect description of the pathological focus: did not indicate indicated location, size, shape (if it is an ulcer - the condition of the bottom), color, consistency; - made the correct pathological conclusion/diagnosis, but during the answer made fundamental mistakes and inaccuracies
<b>Description of the microslide</b>	Unsatisfactory corresponds to points 0-24	- incorrectly named the organ, did not indicate the size, did not describe the surface: did not describe the condition of the capsule or serous membrane, dullness, shine, overlap; - gave an incorrect description of the pathological focus: did not indicate indicated location, size, shape (if it is an ulcer - the condition of the bottom), color, consistency; - made an incorrect pathological conclusion/diagnosis, made gross errors during the answer, left some questions unanswered
	Great corresponds to points 95-100 90-94	- correctly named the organ or tissue, correctly characterized pathological changes: localization, made a description, named the color; - made the correct pathological conclusion/diagnosis
	Fine corresponds to points 85-89	- correctly named the organ or tissue, correctly characterized pathological changes: localization, made a description, named the color;

	80-84 75-79 70-74	- made the correct pathological conclusion/diagnosis, but during the answer made minor mistakes and inaccuracies
	Satisfactorily corresponds to points 65-69 60-64 50-54	- correctly named the organ or tissue, incorrectly characterized the pathological changes: localization, made a description, incorrectly named the color; - made the correct pathological conclusion/diagnosis, but during the answer made fundamental mistakes and inaccuracies
	Unsatisfactory corresponds to points 25-49	- correctly named an organ or tissue, incorrectly characterized pathological changes: localization, made a description, incorrectly named the color; -made the correct pathological conclusion/diagnosis, made gross errors during the answer
	Unsatisfactory corresponds to points 0-24	- incorrectly named an organ or tissue, incorrectly characterized pathological changes: localization, made a description, incorrectly named the color; - made an incorrect pathological conclusion/diagnosis, made gross mistakes during the answer, left some questions unanswered
<b>Prescription writing</b>	<b>Great</b> Corresponds to ratings: A (4.0; 95-100%); A- (3.67; 90-94%)	Writes out a prescription for medicines in the most appropriate dosage form depending on age, gender, and functional characteristics. Writes out a prescription for the selected medicine without errors. Calculates doses using various methods and determines the frequency and duration of use of the medicine.
	<b>Fine</b> Corresponds to ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	Writes out a prescription for the selected medication without errors. Calculates the dose of the medicine. Limited to general indications "Internal", "External".
	<b>Satisfactorily</b> Corresponds to ratings: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)	Writes out a prescription using reference literature/sources. Allows corrections to the prescription.
	<b>Unsatisfactory</b> FX (0.5; 25-49%) F (0; 0-24%)	Writes out a prescription with errors.
<b>Checklist for SIWT/SIW</b>		
<b>Analysis of a scientific article</b>	Great corresponds to points 95-100 90-94	- independently substantiated and argued the relevance of the problem; - explained the purpose of the work, the materials and methods used in the work; - freely presented the semantic content of the scientific article; -argued and substantiated conclusions; - had the skill of using literature and justifying the selected list of references in this article
	Fine corresponds to points 85-89 80-84 75-79 70-74	- substantiated and argued the relevance of the problem; - explained the purpose of the work, the materials and methods used in the work; - outlined the semantic content of the scientific article; -argued and substantiated conclusions; - had the skill of using literature and justifying the selected list of



		<ul style="list-style-type: none"> <li>references in this article;</li> <li>- when answering, he made minor mistakes and inaccuracies</li> </ul>
	<p>Satisfactorily corresponds to points 65-69 60-64 50-54</p>	<ul style="list-style-type: none"> <li>- found it difficult to justify and argue the relevance of the problem;</li> <li>- explained the purpose of the work, the materials and methods used in the work;</li> <li>- had difficulty expressing the semantic content of a scientific article;</li> <li>- had difficulty arguing and substantiating conclusions;</li> <li>- had the skill of using literature and justifying the selected list of references in this article;</li> <li>- when answering, he made fundamental mistakes and inaccuracies</li> </ul>
	<p>Unsatisfactory corresponds to points 25-49</p>	<ul style="list-style-type: none"> <li>- found it difficult to justify and argue the relevance of the problem;</li> <li>- explained the purpose of the work, the materials and methods used in the work;</li> <li>- had difficulty expressing the semantic content of a scientific article;</li> <li>- had difficulty arguing and substantiating conclusions;</li> <li>- failed to demonstrate the skill of using literature and justifying the selected list of literature in this article;</li> <li>- made gross mistakes when answering</li> </ul>
	<p>Unsatisfactory corresponds to points 0-24</p>	<ul style="list-style-type: none"> <li>- found it difficult to justify and argue the relevance of the problem;</li> <li>- could not explain the purpose of the work, the materials and methods used in the work;</li> <li>- was unable to convey the semantic content of a scientific article;</li> <li>- was unable to argue and justify the conclusions;</li> <li>- failed to demonstrate the skill of using literature and justifying the selected list of literature in this article;</li> <li>- made gross mistakes when answering</li> </ul>
<b>Discussion of the topic</b>	<p>Great corresponds to points 95-100 90-94</p>	<ul style="list-style-type: none"> <li>- did not make any mistakes during the discussion;</li> <li>- was oriented in the theories, concepts and directions of the discipline and gave them a critical assessment;</li> <li>- used scientific achievements of other disciplines</li> </ul>
	<p>Fine corresponds to points 85-89 80-84 75-79 70-74</p>	<ul style="list-style-type: none"> <li>- during the discussion he did not make any gross mistakes, but he did make inaccuracies and minor errors, which he corrected himself;</li> <li>- managed to systematize the program material with the help of the teacher</li> </ul>
	<p>Satisfactorily corresponds to points 65-69 60-64 50-54</p>	<ul style="list-style-type: none"> <li>- made fundamental mistakes during the discussion;</li> <li>- limited himself to only the educational literature specified by the teacher;</li> <li>- experienced great difficulty in systematizing the material</li> </ul>
	<p>Unsatisfactory corresponds to points 25-49</p>	<ul style="list-style-type: none"> <li>- made gross mistakes during the discussion;</li> <li>- did not study the basic literature on the topic of the lesson;</li> <li>- failed to use the scientific terminology of the discipline</li> </ul>
	<p>Unsatisfactory corresponds to points 0-24</p>	
<b>Checklist for midterm assessment</b>		
<b>Testing</b> - testing is assessed using a multi-point knowledge assessment system.		

Form of control	Grade	Evaluation criteria
carrying out practical work	<p>Excellent corresponds to points 95-100 90-94</p>	<p>The student is well-versed in questioning and examining patients. Correctly and accurately selects questions when collecting anamnesis, accurately analyzes primary and secondary complaints, and is well-versed in the collected anamnesis of life and disease.</p> <ul style="list-style-type: none"> <li>- Accurately performs a basic physical examination (general examination, palpation, percussion, auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, etc.) in children and adolescents.</li> <li>- Conducts correct linking of objective physical examination data (palpation, auscultation, percussion), correctly interprets laboratory and instrumental examination data.</li> <li>- Ability to evaluate pathophysiological patterns of research results. Finds and compares the connection between the main symptoms and syndromes.</li> <li>- Substantiates and establishes a presumptive syndrome-based diagnosis.</li> <li>- Used additional literature when preparing for the lesson.</li> </ul> <p>Systematizes the material on the given topic.</p> <ul style="list-style-type: none"> <li>- Effectively communicates in medical practice, objectively conveys relevant information, knows and uses the norms of ethics and deontology when performing the skill;</li> </ul>
	<p>Good corresponds to points 85-89 80-84 75-79 70-74</p>	<p>The student differentiates between primary and secondary complaints well, is well oriented in the collected anamnesis of life and disease. Is well oriented when questioning and examining patients, but allows minor inaccuracies or fundamental errors, corrected by the student himself.</p> <ul style="list-style-type: none"> <li>- Accurately performs a basic physical examination: general examination, palpation, percussion, auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, etc. of children and adolescents. Incapable of correctly interpreting examination results. Does not accurately convey appropriate information;</li> <li>- Links data from objective physical examination (palpation, auscultation, percussion), and incorrectly interprets data from laboratory and instrumental studies.</li> <li>- Has errors in assessing pathophysiological patterns based on research results. Finds and compares the relationship between the main symptoms and syndromes. Establishes a presumptive syndrome-based diagnosis without substantiating the data</li> </ul>
	<p>Satisfactorily corresponds to points 65-69 60-64 50-54</p>	<ul style="list-style-type: none"> <li>- The student is able to navigate when questioning and examining patients, <u>differentiates between</u> primary and secondary complaints with errors, and is <u>poorly oriented</u> in the collected anamnesis of life and illness.</li> <li>- Makes mistakes when conducting a physical examination (palpation, percussion, auscultation and general examination) and demonstrates incomplete knowledge of the material on a given topic, while making fundamental mistakes.</li> <li>- <u>Links</u> data from objective physical examination (palpation, auscultation, percussion), correctly <u>interprets</u> data from laboratory and instrumental studies. Has errors in assessing examination results.</li> <li>- Is <u>unable to evaluate</u> pathophysiological patterns of research results. Is <u>unable to determine</u> the relationships between the main symptoms and</li> </ul>

		syndromes. <u>Establishes</u> a presumptive syndrome-based diagnosis without substantiating the data. - Has a low level of communication skills in medical practice; subjectively conveys appropriate information;
	Unsatisfactory corresponds to points 25-49	- The student has no idea about the main and secondary complaints, and is not <u>oriented</u> in the collected anamnesis of life and illness. - Is unable to carry out practical skills to interpret their results. <u>Cannot determine the relationship of objective physical examination data</u> (palpation, auscultation, percussion), incorrectly <u>interprets</u> laboratory and instrumental examination data.
	Unsatisfactory corresponds to points 0-24	- Does not know how to <u>evaluate</u> pathophysiological patterns of research results. <u>Does not find and is not able to compare</u> the relationship between the main symptoms and syndromes. Establishes a presumptive syndrome-based diagnosis without substantiating the data - Does not participate in the work of the group. Is not able to communicate in medical practice; does not convey proper information, does not know and is not able to use the norms of ethics and deontology when performing the skill. When answering the teacher's questions, gross errors, not using specific terminology in answers.
	Unsatisfactory corresponds to points 0-24	- Does not know how to <u>evaluate</u> pathophysiological patterns of research results. <u>Does not find and is not able to compare</u> the relationship between the main symptoms and syndromes. Establishes a presumptive syndrome-based diagnosis without substantiating the data - Does not participate in the work of the group. Is not able to communicate in medical practice; does not convey proper information, does not know and is not able to use the norms of ethics and deontology when performing the skill. When answering the teacher's questions, gross errors, not using specific terminology in answers.

### Checklist of SIWT and SIW

#### Checklist for assessing responses to the description of a macroscopic preparation in a case


No.	Evaluation Criteria/Evaluation	Great	Fine	Satisfactorily	Unsatisfactory
1	Name of the organ	5.0-4.0	3.9-3.0	2.9-2.0	1.9-0
2	Organ size	5.0-4.0	3.9-3.0	2.9-2.0	1.9-0
3	Surface; condition of the capsule or serous membrane, dullness, shine, superposition	10.0-9.0	8.9-7.0	6.9-5.0	4.9-0
4	Characteristics of the pathological focus: Localization, size, shape (if an ulcer – condition of the bottom), color, consistency	20.0-19.0	18.9-15.0	14.9-11.0	10.9-0
5	Pathological diagnosis/conclusion	10.0-9.0	8.9-7.0	6.9-5.0	4.9-0
6	Total	50.0-45.0	44.5-35.0	34.5-25.0	24.5-0

#### Checklist for assessing responses to the description of a microscopic specimen in a case study


No.	Evaluation Criteria/Evaluation	Great	Fine	Satisfactorily	Unsatisfactory
1	Name of an organ or tissue	10.0-9.0	8.9-7.0	6.9-5.0	4.9-0
2	Characteristics of pathological changes: localization, description	25.0-23.0	22.9-20.0	19.9-15.0	14.9-0
3	Coloring	5.0-4.0	3.9-3.0	2.9-2.0	1.9-0
4	Pathological diagnosis/conclusion	10.0-9.0	8.8-5.0	4.8-3.0	2.8-0
5	Total	50.0-45.0	44.5-35.0	34.5-25	24.5-0

### Multi-point knowledge assessment system


Letter Grading	Digital equivalent of points	Percentage content	Traditional system assessment
A	4.0	95-100	Great
A -	3.67	90-94	
B+	3.33	85-89	Fine
IN	3.0	80-84	
IN -	2.67	75-79	
C+	2.33	70-74	Satisfactorily
WITH	2.0	65-69	
WITH -	1.67	60-64	
D+	1.33	55-59	
D-	1.0	50-54	
FX	0.5	25-49	Unsatisfactory
F	0	0-24	

ONTUSTIK QAZAQSTAN <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»	11-2025 Page 21 of 36
Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases		
Working curriculum of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

11.	Educational resources
Electronic resources	<ol style="list-style-type: none"> <li>1. Electronic library of YUKMA - <a href="https://e-lib.skma.edu.kz/genres">https://e-lib.skma.edu.kz/genres</a></li> <li>2. Republican Interuniversity Electronic Library (RIEL) – <a href="http://rmebrk.kz/">http://rmebrk.kz/</a></li> <li>3. Digital library "Aknurpress" - <a href="https://www.agnurpress.kz/">https://www.agnurpress.kz/</a></li> <li>4. Electronic library "Epigraph" - <a href="http://www.elib.kz/">http://www.elib.kz/</a></li> <li>5. Epigraph - portal of multimedia textbooks <a href="https://mbook.kz/ru/index/">https://mbook.kz/ru/index/</a></li> <li>6. EBS IPR SMART <a href="https://www.iprbookshop.ru/auth">https://www.iprbookshop.ru/auth</a></li> <li>7. information and legal system "Zan" - <a href="https://zan.kz/ru">https://zan.kz/ru</a></li> <li>8. Medline Ultimate EVSCO</li> <li>9. eBook Medical Collection EBSCO</li> <li>10. Scopus – <a href="https://www.scopus.com/">https://www.scopus.com/</a></li> </ol>
Electronic textbooks	<p><b>Propaedeutics of internal diseases</b></p> <ol style="list-style-type: none"> <li>1) Internal diseases. V. 1 [<a href="#">Electronic resource</a>] : textbook / edited by V. S. Moiseev. - 3rd ed., corrected and supplemented. - Electronic text data. (66.5 MB). - M. : GEOTAR - Media, 2015. - 960</li> <li>2) Internal diseases. V. 2 [<a href="#">Electronic resource</a>] : textbook / edited by V. S. Moiseev. - 3rd ed., corrected and supplemented. - Electronic text data. (45.1 MB). - M. : GEOTAR - Media, 2015. - 895</li> <li>3) Propaedeutics of internal diseases: Textbook. / T.S. Ryabova, E.S. Ryss, V.Ya. Plotkin et al. - St. Petersburg: SpetsLit, 2015. - 414 p. <a href="http://rmebrk.kz/book/1174389">http://rmebrk.kz/book/1174389</a></li> <li>4) Internal diseases in the work of a general practitioner: Study guide. / K.Zh. Sadykova, Sh.U. Skenderova, S.K. Sattiev. - Turkestan: Turan, 2017. - 96 p. <a href="http://rmebrk.kz/book/1167635">http://rmebrk.kz/book/1167635</a></li> <li>5) Propaedeutics of Internal Diseases: Textbook. - 6th ed., Volume I, revised and supplemented. - Almaty: Evero, 2020. - 400 p. <a href="https://elib.kz/ru/search/read_book/676/">https://elib.kz/ru/search/read_book/676/</a></li> <li>6) Propaedeutics of Internal Diseases: Textbook. – 6th ed., II - volumerevised and supplemented (Textbook for students of medical universities). - Almaty: Evero, 2020. - 212 p. <a href="https://elib.kz/ru/search/read_book/682">https://elib.kz/ru/search/read_book/682</a></li> <li>7) Propaedeutics of Internal Diseases: Textbook. - 6th ed., III - volume revised and supplemented. (Textbook. Literature for students of medical universities). - Almaty: Evero, 2020. - 208 p. <a href="https://elib.kz/ru/search/read_book/684/">https://elib.kz/ru/search/read_book/684/</a></li> <li>8) Nursultanova S.D., Bakirova R.E., Mamashalieva S.B., Bekov E.K., Madieva L.S. Zhurek tamyр zhuyesinin aurular bar naukastardy tekseru adisi zhane tekhnikasy. Oku-adistemelik kural. - Almaty, "Evero" baspasy. -2020. <a href="https://elib.kz/ru/search/read_book/705/">https://elib.kz/ru/search/read_book/705/</a></li> <li>9) Ishki arza aurular propaedeutics. Okulyk Aitmbet B.11- Almaty "Evero" 2018, -568 bet. <a href="https://elib.kz/ru/search/read_book/3086/">https://elib.kz/ru/search/read_book/3086/</a></li> <li>10) Stryuk, Raisa Ivanovna. Internal diseases : in 3 parts: Part 1 textbook / R. I. Stryuk, I. V. Maev; [First. Moscow State Medical University named after I. M. Sechenov]. - Almaty: Evero, 2016. - URL: <a href="http://https://elib.kz/ru/search/read_book/2766/">http://https://elib.kz/ru/search/read_book/2766/</a>.</li> <li>11) Stryuk, Raisa Ivanovna. Internal diseases : in 3 parts: Part 2 textbook / R. I. Stryuk, I. V. Maev - Almaty: Evero, 2016. - URL: <a href="https://elib.kz/ru/search/read_book/2767/">https://elib.kz/ru/search/read_book/2767/</a></li> <li>12) Stryuk, Raisa Ivanovna. Internal diseases : in 3 parts: Part 3 textbook / R. I. Stryuk, I. V. Maev. - Almaty: Evero, 2016. – UR L: <a href="https://elib.kz/ru/search/read_book/2768/">https://elib.kz/ru/search/read_book/2768/</a></li> <li>13) Pimenov, Yu. S. Internal Medicine. Volume 1: study guide / Yu. S. Pimenov, I. V. Roganova, L. N. Finko. - Moscow: REAVIZ, 2008. - 146 p. / Digital educational resource IPR SMART: <a href="https://www.iprbookshop.ru/10141.html">https://www.iprbookshop.ru/10141.html</a></li> <li>14) Roganova, I. V. Internal Medicine. Volume 2: study guide / I. V. Roganova, V. F. Roganov, I. O. Prokhorenko. - Moscow: REAVIZ, 2008. - 132 p. / Digital educational resource IPR SMART: <a href="https://www.iprbookshop.ru/10142.html">https://www.iprbookshop.ru/10142.html</a></li> <li>15) Clinical tasks in internal diseases: a tutorial / R. I. Saifutdinov, L. K. Kozlova, O. V. Bugrova [et al.]. - Orenburg: Orenburg State Medical Academy, 2012. - 152 p. - URL: <a href="https://www.iprbookshop.ru/21817.html">https://www.iprbookshop.ru/21817.html</a></li> </ol> <p><b>Pathological physiology:</b></p> <ol style="list-style-type: none"> <li>1. Pathological physiology. Tazhiribelik sabaktarga nuskau [Electronic resource]: oku kuraly = Pathophysiology. Guide to practical exercises: textbook / Kaz. tiline aud. S. B. Zhutikova; ed. V. V. Novitsky. - Electron. text data (63.4MB). - M.: GEOTAR - Media, 2014. - 768 bet. email wholesale disk (CD-ROM)</li> <li>2. Pathological physiology. Doszhanova M.P. , – Almaty: Evero, 2015 Central Bank Aknurpress / <a href="https://www.agnurpress.kz/reader/web/2476">https://www.agnurpress.kz/reader/web/2476</a></li> <li>3. Kravtsov V.I. et al. Test tasks on pathological physiology with elements of profiling / Edited by professor V.I. Kravtsov. - Almaty: Evero, 2020. - 116 p. <a href="https://www.elib.kz/ru/search/read_book/472/">https://www.elib.kz/ru/search/read_book/472/</a></li> </ol>

ONTUSTIK QAZAQSTAN <b>MEDISINA          AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN <b>MEDICAL          ACADEMY</b> АО «Южно-Казахстанская медицинская академия»	11-2025 Page 22 of 36
Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases		
Working curriculum of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

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  10. Ado A.D., Ado M.L., Pytskogo V.I., Poryadina G.V., Vladimirova Y.L. Pathological Physiology: Textbook for Medical Universities. Volume 3. Almaty: Evero, 2020 [https://www.elib.kz/ru/search/read\\_book/100/](https://www.elib.kz/ru/search/read_book/100/)
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  12. Urazalina. Tapsyrmalara test. Profiling of elemental pathology physiology, Boyynsha mamandyktar: 051301-zhalpy medicine, 051302-dentistry.II-bolim. Tiptik pathological protsester, Birtektes derttik urdister. Almaty, "Evero" basspasy, 2020, 184 b. [https://www.elib.kz/ru/search/read\\_book/895/](https://www.elib.kz/ru/search/read_book/895/)
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1. Pathological Anatomy [Electronic resource]: atlas: textbook for students of medical universities and postgraduate education / edited by O. V. Zairatyants. - Electronic text data (240 MB). - M.: GEOTAR - Media, 2012. - 960 p. electronic optical disc (CD-ROM). - (Electronic textbook).
  2. Pathological anatomy [Electronic resource]: national leadership / editor-in-chief M. A. Paltseva., - M.: GEOTAR - Media, 2013. - 1264 p.
  3. Tusupbekova, M. M. Morphological atlas of general pathological processes [Electronic resource]: textbook / M. M. Tusupbekova. - Electronic text data. (1.03 Gb). - Almaty: Epigraph, 2016. -
  4. Strukov, A. I. Pathological anatomy [Electronic resource]: textbook - M.: GEOTAR - Media, 2013
  5. Kismanova G.N. Okulyk..- Almaty: Evero, 2020. - 92 bet Epigraph
  6. [https://www.elib.kz/ru/search/read\\_book/861/](https://www.elib.kz/ru/search/read_book/861/)
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Working curriculum of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B10115 "Medicine"		


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Pathological anatomy and pathological physiology: textbook. - Minsk: Higher school, 2010. - 272 p. // TsOR IPR SMART: [site]. - URL: <a href="https://www.iprbookshop.ru/20116.html">https://www.iprbookshop.ru/20116.html</a></p> <p>18. Practical training in the general course of pathological anatomy: a textbook / compiled by V. S. Polyakova [et al.], edited by V. S. Polyakov. - Orenburg: Orenburg State Medical Academy, 2011. - 193 p. - : <a href="https://www.iprbookshop.ru/31850.html">https://www.iprbookshop.ru/31850.html</a></p> <p>19. Chernobay, G. N. Private pathological anatomy: a tutorial. - Kemerovo: Kemerovo State Medical Academy, 2011. - 236 p. - <a href="https://www.iprbookshop.ru/6095.html">https://www.iprbookshop.ru/6095.html</a></p> <p>20. Pathology proc. men aurulardyn morph. Corinisterine salt. sipattamas. 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Bass zhane moiynnyn clinic anatomy Kayrbekova K.K. , – Almaty: Evero, 2017 Central Bank Aknurpress <a href="https://www.aknurpress.kz/reader/web/1850">https://www.aknurpress.kz/reader/web/1850</a></p> <p>32. Yes, soyleu zhane koru mushelerinin anatomy, physiology, pathology. Tuganbekova K.M., Akhmetova N.Sh., Tamabaeva M.K. , – Karaganda, 2019 <a href="https://www.aknurpress.kz/reader/web/1041">https://www.aknurpress.kz/reader/web/1041</a></p> <p>33. Kurash, A. G. Bastyn zhane moiynnyn kabynu aurulary T. 2: okulyk / A. G. Kurash. - Almaty: New book, 2022 Multi medical studies</p> <p>34. <a href="https://mbook.kz/viewer/course/854">https://mbook.kz/viewer/course/854</a></p> <p>35. Zubritsky, M. G. Atlas of pathological anatomy = Atlas of pathological anatomy: a tutorial. - Minsk: Higher School, 2021. - 272 p. <a href="https://www.iprbookshop.ru/H19965.html">https://www.iprbookshop.ru/H19965.html</a></p> <p>36. Vickie Y. Jo, MD Jason L. Hornick, MD, PhD Neoplastic Mimics in Soft Tissue and Bone Pathology // eBook Collection EBSCO</p>
Literature	<p><b>Propaedeutics of internal diseases</b></p> <p>1) Vasilenko, V. H. Propedeutics of internal diseases. T. 1.: Textbook / V. H. Vasilenko, V. V. Vasilenko; - Almaty: Newbook , 2021. - 400. p.</p> <p>2) Vasilenko, V. H. Propedeutics of internal diseases. T. 2.: Textbook / V. H. Vasilenko, V. V. Vasilenko; -</p>

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- 5) Akhmetov K. Zh. Ishki aurular propaedeutics pәniniң klinikalyk dәristeri: oku kuraly / k. Zh. Akhmetov. - Almaty: New book, 2022. - 266 p.
- 6) Diagnosis of internal diseases by syndromes: training manual / EK Bekmurzaeva. - Almaty: Epigraph, 2022. - 128 s.
- 7) Seydakhmetova A. A. Ishki aurular meteorology factor lak taueldiligi: monograph / A. A. Seydakhmetova. - Shymkent, 2025. - 108 b. - Matin.
- Pathological physiology:**  
**Negyzgi Adebietter**
1. Pathophysiology. 2 tomdyk. 1 t.: okulyk / kazakhtil. room B. A. Zhetpisbaev; ed. V. V. Novitsky. - M.: GEOTAR - Media, 2017. - 640 bet.
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  3. Nurmuhambetuly, A. Clinical pathophysiology. I - volume: Okulyk Pathophysiology-II on the clinic of medicine and medicine. - 2nd bass. - Almaty: Evero, 2016. - 180b. With.
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  5. Nurmuhambetuly, A. Clinical pathophysiology. 3 volumes. Pathophysiology - II on the clinic of medicine, manyzdy maselelerine nuskam: okulyk. - 2nd bass. - Almaty: Evero, 2016. - 248 bet.
  6. Nurmuhambetuly, A. Pathophysiology. Volume 1: okulyk / Ә. Nurmuhambetuly. - Ond., tolykt. 3-bass - Almaty: Evero, 2015. - 182 bet
  7. Nurmuhambetuly, A. Pathophysiology. Volume 2: okulyk / Ә. Nurmuhambetuly. - Ond., tolykt. 4-bass - Almaty: Evero, 2015. - 214 bet
  8. Nurmuhambetuly, A. Pathophysiology. Volume 3: okulyk / Ә Nurmukhambetuly. - Ond., tolykt. 4-bass - Almaty: Evero, 2015. - 216 bet
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  10. Pathophysiology: okulyk. 2 tomdyk. 1 volume / Kazakh tel. room B. A. Zhetpisbaev; ed. V. V. Novitsky. - 4-bass.ond.tolyk. - M.: GEOTAR - Media, 2017. - 640
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  16. Pathological Physiology (General and Specific): textbook / V.A. Frolov [et al.]. - 4th ed., trans. and add. - M.: Publishing house "Higher education and science", 2019. - 730 p.
  17. Akhmetova, N. Sh. Anatomy, physiology, pathology of the organs of hearing, speech, vision [Text]: textbook. - 3rd ed. - Karaganda: AKNUR, 2019.
  18. Pathophysiology. In 2 vols. T. 2 [Text]: textbook / ed. V. V. Novitsky, E. D. Goldberg, O. I. Urazova; Ministry of Education and Science of the Russian Federation. - 4th ed., revised, and additional; Rec. State Educational Institution of Higher Professional Education "MMA named after I.M. Sechenov". - M.: GEOTAR - Media, 2012. - 640 p. + email wholesale disk (CD-ROM)
  19. Pathophysiology. In 3 volumes. Volume 3 [Text]: textbook / A. I. Volozhin [et al.]; edited by A. I. Volozhin, G. V. Poryadin. - Rec. UMO united. for medical and pharmaceutical education of higher education institutions of Russia as a textbook. - Moscow: Academy, 2006. - 304 p. - (Higher prof. education).
  20. Jain, AK Textbook of physiology : textbook. Vol. 1 / AK Jain . - 6 th ed. - NevDelhi :Avichal publishing company, 2015. - 590 p. Translation of the title:
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  22. Norris, Tommie L. Porth's Pathophysiology: Concepts of Altered Health States [Text] : textbook / Tommie L. Norris. - 10 nd ed. - [S. l.] : Wolters Kluwer, 2019. - 1573 p. - ISBN 978-1-4963-7759-3 : 48115 Tg. Translation of the title: Porth's Pathophysiology: Concepts of Altered Health States
  23. Pathophysiology. Volume 1. : the book for medical institutes / AD Ado [and others]. - Almaty:

- "Evero", 2017. - 216 p.  
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25. Pathophysiology. Volume 3. : the book for medical institutes / AD Ado [and others]. - Almaty: "Evero", 2017. - 323 p.  
26. Pathophysiology of Disease: An Introduction to Clinical Medicine. 7rd. ed. McGraw-Hill Education, 2014  
27. Kharissova, NM Physiology of the digestive system: teaching textbook / NM Kharissova. - Almaty: Evero, 2016. - 428 p.
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  2. Urazalina, N. M. Tapsyrmalary test. II-bolim. Birtektes derttik urdister: - Almaty: Evero, 2014. - 184 bet.
  3. Zhautikova, S. B. Mamandandrylgan pathology physiology courses: oku-adistemelik kuraly / S. B. Zhautikova, E. K. Omirbaeva; KR densaulyk saktau ministerligi; KMMU. - Karaganda: Residential complex "Aknur", 2013. - 268 bet.
  4. Zhautikova, S. B. Pathological physiology of the situational situation: oku-adistemelik kural. - Karaganda: Residential complex "AkNur 2013"
  5. Pathophysiology. Tasks and test assignments: a teaching aid / edited by P. F. Litvitsky; Ministry of Education and Science of the Russian Federation. - ; Rec. State Educational Institution of Higher Professional Education "MMA named after I. M. Sechenov". - Moscow: GEOTAR-Media, 2013. - 384 p.: ill.
  6. Rose, Alan G. Atlas of pathology. Macro- and microscopic changes in organs: atlas: trans. from English. edited by E. A. Kogan / Alan G. Rose; ed. E. A. Kogan. - M.: GEOTAR-Media, 2010. - 576 p.
  7. Klatt, Edward C Robbins and Cotran Atlas of Pathology : textbook / Edward C. Klatt. - 3th ed. - Philadelphia : Elsevier Saunders, 2014. - 587 p. - ISBN 978-1-4557-4876-1 : 33050.00 Tg. Translation of the title: Robbins and Cotran Atlas of Pathology
- Pathological anatomy:**
- Negizgi :**
1. Akhmetov, Zh. B. Pathological anatomy. T.1: okulyk / Zh. B. Akhmetov. - Almaty: Newbook, 2022. - 360 bet.
  2. Akhmetov, Zh. B. Pathological anatomy. T.2: okulyk / Zh. B. Akhmetov. - Almaty: Newbook, 2022. - 344 bet.
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  4. Manekenova K.B Pathology process men aurular morphology korinisterin salystyrmala sipattamasy. Oku kuraly. "SkySystems" 2019
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  6. Strukov, A. I. Pathological anatomy: okulyk / - M.: GEOTAR - Media, 2015. - 984 bet.
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  9. Pathological anatomy. T.1. General pathology: textbook: in 2 volumes / ed. V. S. Paukova. - 2nd ed. add. - M.: GEOTAR - Media, 2020. - 720 p.
  10. Pathological anatomy. T.2. Particular pathology: textbook: in 2 volumes / ed. V. S. Paukova. - 2nd ed. add. - M.: GEOTAR - Media, 2020. - 528 p.
  11. Strukov, A. I. Pathological anatomy: textbook. - 6th ed., revised and enlarged. - M.: GEOTAR - Media, 2021. - 880 p.
  12. Manekenova K.B. Comparative characteristics of morphological manifestations of pathological processes and diseases. Study guide. "Sky Systems" 2019
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  14. Kumar, V. Robbins Basic Pathology: textbook / V. Kumar, AK Abbas, JC Aster. - 10th ed. - [S. l.]: Elsevier, 2017. - 930 p.
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ONTUSTIK QAZAQSTAN <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»	11-2025 Page 27 of 36
Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases		
Working curriculum of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

Kumar, Abyl K. Abbas, Jon C. Aster. - 9nd ed. - [S. l.]: Reed Elsevier India private limmed, 2015. - 1391 p. .

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**Kosymsha Adebietter**

1. Pathological anatomy atlas: = Pathological anatomy: atlas: textbook. manual - M.: GEOTAR - Media, 2014.
2. Kismanova, G.N. - Almaty: Evero, 2010. - 122 bet.
3. Povzun, S. A. Pathological anatomy in questions and answers: textbook / S. A. Povzun. - 3rd ed., revised and enlarged; Rec. GBOU HPE "First Moscow State Medical University named after I. M. Sechenov". - M.: GEOTAR - Media, 2016. - 176 p. -
4. Pathological Anatomy. Guide to Practical Classes: Textbook / Ministry of Education and Science of the Russian Federation. Rec. GBOU HPE "First Moscow State Medical University named after I.M. Sechenov"; Ed. by O. V. Zairatyants, L. B. Tarasova. - 2nd ed., corrected and enlarged. - M.: GEOTAR - Media, 2015. - 696
5. Pathological anatomy. Guide to practical classes: study guide / ed. O. V. Zairatyants. - 2nd ed., corrected and supplemented. - M.: GEOTAR - Media, 2021. - 696 p.
6. Tusupbekova, M. M. Clinical pathomorphology: monograph / M. M. Tusupbekova. - Almaty: Evero, 2016. - 184 p.
7. Tusupbekova, M. M. Morphological atlas of general pathological processes: a tutorial. - Almaty: Evero, 2016. - 164 p.
8. Moiseev, V. S. Acute heart failure: a guide / V. S. Moiseev, J. D. Kobalaya. - M.: OOO "Medical Information Agency", 2012. - 328 p.
9. Rose, Alan G. Atlas of pathology. Macro- and microscopic changes in organs: atlas: trans. from English. edited by E. A. Kogan / Alan G. Rose; ed. E. A. Kogan. - M.: GEOTAR-Media, 2010. - 576 p.
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11. Klatt, Edward C. Robbins and Cotran Atlas of Pathology: textbook / Edward C. Klatt. - 3rd ed. - Philadelphia: Elsevier Saunders, 2014. - 587 p.
12. Klatt, Edward C. Robbins and Cotran Atlas of Pathology: textbook / Edward C. Klatt. - 3rd ed. - Philadelphia: Elsevier Saunders, 2014. - 587 p.

## 12. Discipline Policy

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

- observe medical ethics and deontology;
- no smoking in the academy;
- maintain cleanliness in the department;
- do not damage furniture in classrooms;
- treat textbooks with care;
- maintain the appearance of a medical university student;
- observe safety regulations;
- during quarantine, wear medical masks and comply with sanitary and epidemiological regulations;
- do not miss classes without a good reason;
- classes missed for a valid reason must be made up in a timely manner, but only with permission from the dean's office and at a time determined by the teacher;
- don't be late for classes;
- have the necessary documentation in class: syllabus, methodological instructions for classes, lectures, notebook and textbook;
- prepare for classes conscientiously;
- be active during classes;
- do not engage in other activities during classes: do not talk, do not smoke, do not chew gum, do not eat food, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for classes in another subject;
- maintain silence and order during breaks;

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Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases		
Working curriculum of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B10115 "Medicine"		

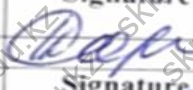


- implement SIW in a timely manner.
- Penalties for failure to complete sections of the work:**
- If you miss lectures without a valid reason, your midterm assessment grade will be reduced by 1 point for each missed lecture;
  - If you miss a SIW without a valid reason, your midterm assessment score will be reduced by 2 points for each missed lesson;
  - In case of a single violation of the discipline policy, the student is given a warning;
  - In case of systematic violation of the discipline policy, information about the student's behavior is transferred to the faculty dean's office.

**Criteria for non-admission to final control:**

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

<b>13. Academic policy based on the moral and ethical values of the academy</b>
Regulations and Rules of SKMA. Academic policy.
P.4. Code of honor of the student
P.10. Organization of the educational process
P.12. Grading Policy The final grade is calculated automatically based on the average grade of the current control, the average grade of the midterm control and the grade of the final control. <b>Final score (100%) = RD (60%) + FC (40%)</b> <b>RA (60%) = ME avg (20%) + CC avg (40%)</b> <b>ME avg = (ME1 + ME2) / 2</b> <b>Final score (100%) = ME avg x 0,2 + CC avg x 0,4 + FC x 0,4</b> <b>RA – rating of admission</b> <b>FC – assessment of final control</b> <b>ME avg – average score of midterm control, taking into account penalty points</b> <b>CC av – average assessment of current control taking into account SIW</b> <b>ME 1 – midterm examination 1</b> <b>ME 2 – midterm examination 2</b>

**14. Approval and revision**

Date of agreement with the Library and Information Center	Protocol No.	Full name of the head of the BIC	Signature
23.06.25	7	Darbicheva R I	
Date of approval for AC EP	Protocol No.	Full name of the Chairman of the AC EP	Signature
27.06.25	6	Ayazshonkyzy D	
Date of approval at the department	Protocol No.	Full name of the head of the department	Signature
26.06.25	13	Sadykova A Sh	
Date of revision at the department	Protocol No.	Full name of the head of the department	Signature
Date of revision on AC EP	Protocol No.	Full name of the Chairman of the AC EP	Signature