Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 1 of 36
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	]
Educational program 6B 10115 "Medicine"	

#### **Syllabus**

**Department of Biology and Biochemistry Department of Pathology and Forensic Medicine** Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology **Department of Propaedeutics and Internal Medicine Department of Pediatrics-1** 

Working curriculum of the discipline "Urogenital system in pathology" Educational program 6B 10115 "Medicine"

1.	General information about the discipline		
1.1	Discipline code: GSP3216	1.6	Academic year: 2024-2025
1.2	Course title: Genitourinary system in patholigy	1.7	Year: 3
1.3	Prerequisites: General pathology, genitourinary	1.8	Semester: 6
	system in norm		
1.4	<b>Postrequisites:</b> Diseases of the urinary system	1.9	Number of credits (ECTS): 5 / 150
1.5	Cycle: BD	1.10	Component: IC
2.	Description of the discipline		

Formation of basic knowledge of semiotics, syndromology, methods of physical examination and basic research of laboratory parameters, issues of etiology, pathogenesis, morphogenesis, biological characteristics of microorganisms of common pathological processes of the urogenital system, acquisition of skills in selection of research methods of diagnostics and drugs for treatment of the most common diseases in adults and children.

3.	Summative Assessment Form		
3.1	MCQ 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)
_			

#### Objectives of the discipline

experimental studies.

Formation of a holistic understanding of the pathology of the urogenital system based on symptoms and syndromes, as well as methods of their study; ensuring the achievement of the final learning outcomes based on the joint study of the pathology of the genitourinary system in the propaedeutics of internal and childhood diseases with basic disciplines. Formation of clinical thinking skills based on knowledge of pathophysiological mechanisms of the course, pathological changes, complications and results of diseases, methods of physical and clinical laboratory examination and choice of drugs in adults and children with the main clinical syndromes in pathology of the genitouringry system

and cr	indren with the main chinical syndromes in pathology of the genitourinary system.
5.	Final learning outcomes (LO of the discipline)
LO1	Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis
	and morphogenesis of pathology of the urogenital system.
LO2	Proficient in methods of conducting questioning and 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 pathology of the urogenital system.
LO3	Uses clinical judgment in gathering information when interpreting morphological, laboratory and instrumental
	research methods for patients with pathology of the urogenital system, formulates syndromic diagnosis, fills medical
	records.
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

11-2024 Page 2 of 36 Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B 10115 "Medicine"

LO6																mode, recognizes edications used in
	pathology of th															
LO 7									cier	ntific	arti	cles,	com	plete	es a projec	t, demonstrates a
			s improvement of their activities.  earning outcomes of the OP, which are associated with the discipline LO													
5.1	LO discipline	Learn	ing o	utco	mes o	of the	OP.	, which	are	asso	<u>ociat</u>	ed w	<u>ith th</u>	<u>ie di</u>	scipline L(	<u>)                                    </u>
	LO 1								1n 1	the f	ield (	of bio	omed	ıcal,	clinical, ep	idemiological and
	LO 2							actice.	. ,		•	1. 1	1.	. 1	.1 .1	. 1 1 .1
	LO 3															ogical and social-
	LO 4	diseas		scien	ices a	aimec	ı at	tne diag	gnos	SIS, T	reatr	nent	ana	prev	ention of t	he most common
	LO 5			luote	odmi	iccior	dic	anostic	c t	rootn	aant	dyne	mio	obso	rvotion on	1 rehabilitation of
	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-															
	LO 7 pediatric and adult patients, including pregnant women, based on the principles of evidence-based medicine.															
6.	Detailed inform				cinli	na										
0.							Rioc	hemistr	·v ·	Shyn	nken	+ A1	-Fara	hi sc	ı 1 main	academic building
6.1	of SKMA, 4th	•		01 21	0105)	ana	Dioc	, inclination	, .	SII) I		. ,	1 ure	or se	1. , 1, 1114111	academic samanig
	·		ment (	of Pa	tholo	gy ar	id Fo	orensic N	Med	licine	e: Sh	ymke	ent, A	1-Fa	rabi sg., 3,	academic building
																an.gisto@mail.ru
																y: Shymkent, Al-
	Farabi sq., 1, r	nain build	ing of	f SK	MA,	4th f	loor	, room	No	.419	,No.4	121,N	Jo.42	5,No	.429,No.43	1,No.434,No.417,
	lecture hall No.	4; tel . 40	)-82-0	)6(A <sup>-</sup>	ΓS), 2	227 (6	exter	nal).								
							icine	: Shymk	cent	, Cli	nic "l	ParkH	Healtl	ı", st	. Kurmanbe	ekova, 2; tel: 8 701
	738 6114, e-ma													_		
			tment	of P	ediat	rics-1	: Sh	ymkent,	, Aı	rgynł	oeko	v St.,	125,	Reg	gional Child	dren's Hospital; e-
6.0	mail: ped.rez@		т ,			<u> </u>	1 .		т	1				CIX	X/CD	CIVI
6.2	Number of hou	rs	Lectu	ires	Practical. les.			ies.	Laboratory classes			SIWT			SIW	
			10	)			40			Cias	sses			1	5	85
6.3	Study plan for	the discipli		,	<u> </u>		10								5	
- 0.0	stary plant for	une discipi														
	Days		1	2	3	4	5	6		7	8	9	10	11	12	Time, h
	Form of the les	son	1	_		•							10		1-	
Propa	aedeutics of	Lec	1				1									2
interr		Practical	3				3				2					8
disea	ses	SIWT	1				1				1					3
(1 cr.	.)	SIW	6				6				2					14+3(IA)= <b>17</b>
Patho	ological	Lec		1				1								2
	iology	Practical		3				2							3	8
(1 cr.	.)	SIWT		1				1							1	3
								MC N	0.						MC No. 2	
								1								
		SIW		6				6							2	14+3(IA)= <b>17</b>
1 1	ological	Lec			1			_			1					2
	anatomy Practic				2			2			1			3		8
(1 cr.	.)	SIWT			1						1			1		3
P1	1	SIW			5	1				1	4			5		14+3(IA)= <b>17</b>
	macology	Lec				1		-		1						2
(1 cr.	.)	Practical			-	2		-		3		3				8
		SIWT				1				1		1				3

11-2024 Page 3 of 36

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)
Educational program 6B 10115 "Medicine"

		 zuucai	Tonai	progra	un ob	10113 Med	ICIIIE				
	SIW			4			5	5			14+3(IA)= <b>17</b>
Propaedeutics of	Lec								1		1
children	Practical			1					3		4
diseases	SIWT			1					1		2
(0.5 cr.)	SIW			2					5		7+1(IA)= <b>8</b>
Biochemistry	Lec							1			1
(0.5 cr.)	Practical		2					1		1	4
	SIWT									1	1

	S	SIW											7	7+2(IA)= <b>9</b>			
7.	Information about												_				
No.	Full name	_	rees and osition	I	Email	address	S	Scien	tific	inter	ests e	etc.		Note			
			D	epartn	nent of	Biology	ınd Bi	ioche	mistr	У			•				
1	Kenzhebekov Pernebek Kenzhebekovich	ch sc: pre	Candidate of chemical sciences, professor		kenzhebekov.p @gmail.com		composition of volatile aroma-forming compounds in some meat products"				volati mpou oduct	le inds s"	pub ed metho	or of 42 scientific lications and 1 ucational and dological manual			
2	Ordabekova Asmira Baltabaevna	Biolo	aster of gy, senior eacher	as	mira75 u	5@mail.r 1	"The antioxidant properties of selenium in toxic liver injury"			ver	Author of 22 scientific publications and 1 teachi aid						
3	Asilbekova Gulshakhar Kenesbekovna	Biolo	aster of gy, senior eacher					"Mi		emen	toses"			or of 14 scientific ions and 1 teaching aid			
4	Kanzhigitova Moldir Zharkynbekkyzy	Biolo te	aster of gy, senior eacher		Molya		Study of legume and legum plants according to the law of homologous series			law	1	or of 10 scientific publications					
5	Zhienbaeva Aliya Aitbaevna	Т	eacher	ali	a.zhier mai	nbaeva@ l.ru	-					or of 3 scientific oublications					
6	Beisebaeva Lyazzat Mukhtarovna	Senio	or Teacher			)@list.ru	"Organization of clinical diagnostic laboratory service in modern conditions in the Republic of Kazakhstan"		Author of 3 scientific publications								
1	Sadykova Alia Shamilevna	Depa Patho fo medic of a science	ad of the artment of ology and orensic ine, doctor medical ces, acting ofessor		66@n		dire pa	The topic of the scientific direction "Pathology of the immune system, pathological anatomy of tumors"		the of	publicat paten	or of 84 scientific ions, 5 textbooks, 1 t for invention, 1 monograph					
2	Bisimbaeva Saule Babatovna	medica	didate of al sciences ag docent		simbae ox.	eva@inb .ru	The topic of the scientific direction is "Hygienic justification of optimal treatment of pulmonary tuberculosis"		direc justif treatn		direction is "Hygienic justification of optimal treatment of pulmonary		direction i justificatio treatment o		c al	publica pate monog impleme	or of 40 scientific tions, 2 provisional nts, 1 patent, 1 raph and 2 acts of ntation of the results tific research work
3	Dosybaev Bakhytzhan Krykbaevich	medica actin	didate of al sciences ag docent			) mail.ru	ass	The topic of the scientific direction "Prognostic assessment of the health of workers in cement production"  Author of 14 scient publications		or of 14 scientific publications							
4	Kulbalieva Zhannat	]	PhD,		zhann mai	_				the s'The i	cienti nflue			or of 4 scientific ons, 1 teaching aid, 2			

Department of Pathology and Forensic Medicine

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

Candidate of of lead on the oxidative Zhaksyslykovna acts of implementation of the medical sciences, metabolism of lipids and results of scientific research proteins in the blood and its work and 3 acts of acting docent correction with biofenikol" implementation of the results of educational and methodological work 5 Kerimov Master of kir-2004@list.ru The topic of the scientific Author of 20 scientific research "Diagnostics and Rassim Medicine. publications prevention of colorectal Azatovich senior teacher cancer " Abildina Kalamkas 6 Master, assistant mskas1972@mail The topic of the scientific Author of 19 scientific Berzhanovna direction is "Morphogenesis publications .ru of atherosclerosis of the 1teaching aid aorta and renal arteries in residents of Shymkent city" 7 Ignatieva Anastasia Senior zhelonkina\_88@ Sergeevna teacher mail.ru 8 Berdalieva Gulmira Senior teacher mira-3505 Author of 6 scientific Bakhytkyzy @ mail.ru publications 9 Kurymbaeva Ainur Assistant Smp zoj Rashidkyzy @mail.ru 10 Seydakbar Teacher aseydakbar@mail Author of 2 scientific Aisana publications .ru Usenovna Author of 3 scientific 11 Duysembieva Teacher zhazira0508 Theme of the scientific direction "Scientific Zhazira @mail.ru publications Mereykyzy foundations of the formation of a healthy lifestyle among residents of the South Kazakhstan region" Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology 1 Ibragimova Candidate of aygul\_ibr "Problems of rational use of Author of more than 20 Aigul Gaffarovna pharmacological @mail.ru medicines: effective and scientific articles, textbooks, sciences, acting safe pharmacotherapy, and methodological pharmacoepidemiological, docent recommendations pharmacoeconomic, pharmacogenetic aspects. Personalized therapy. Development of herbal preparations and effective herbal therapy of various diseases" 2 Abuova Candidate of abuova@mail.ru "Pharmacoeconomic Author of more than 20 Gulnara biological approaches to optimizing the scientific papers, textbooks, Turganbaevna sciences, acting treatment of acute and methodological docent respiratory infections in recommendations outpatient settings" 3 Korganbaeva Zaure Candidate of korganbaeva055 "Substantiation of the Author of more than 20 Sarybaevna biological @mail.ru protective effect of scientific works, teaching sciences, acting phytopreparations on blood aids, methodological docent and liver damage during recommendations lead poisoning" 4 "Study of the specific Author of more than 20 Syrmanova Master of n rakchman activities of extracts isolated scientific papers, textbooks, Nurgul Medical @mail.ru Rakhmanovna Sciences, Senior from plants of the genus and methodological Cassia" recommendations teacher

11-2024 Page 4 of 36

5	Dustanova Zhamila Talibbaevna	Senior teacher	jam11.76.76 @mail.ru	"Manufacturing of tablet dosage form of hydrophobized dry licorice extract"	Author of 5 scientific articles
6	Muyutova Makhsuda Nasyrovna	Master of Medical Sciences, senior teacher	mahsu_med @mail.ru	Clinical pharmacology in general medicine and neurology	Author of 3 scientific articles
			ent of Propaedeutics	and Internal Medicine	
	Bekmurzaeva Elmira Kuanyshevna	Head of Department Doctor of Medical Sciences, professor	elmira-bek @mail.ru	Scientific work: "Clinical and hygienic features of the formation of diseases of the digestive organs in workers of a modern oil refining production (on the example of JSC "SHNOS")"	Author of over 260 scientific and methodological publications, 2 textbooks, 8 teaching aids. Certificate of therapist, gastroenterologist and rheumatologist of the highest category. 2005 - Doctor of Medical Sciences, approved by the Higher Attestation Commission of the Republic of Kazakhstan (diploma FK No. 0000379), (14.00.50 - "Occupational Medicine"), professor in the specialty "Medicine" (diploma PR No. 0000446), Higher Attestation Commission of the Republic of Kazakhstan. Under the supervision of Bekmurzaeva E.K., 3 candidates of medical sciences were prepared, who received approval from the Committee for Control and Certification in the Sphere of Education and Science of the Ministry of Education and Science of the Ministry of Education and Scienceitic achievements with medals, diplomas and certificates: Robert Koch 2012, Peterkoff 2014, Albert Schweitzer 2015, "Excellent Healthcare Worker of the Republic of Kazakhstan", Republican grant of the Ministry of Education and Science of the Republic of Kazakhstan", Republican grant of the Ministry of Education and Science of the Republic of Kazakhstan", Republican grant of the Ministry of Education and Science of the Republic of Kazakhstan "Best
					University Teacher - 2014"
2	Sadykova Gulzhan Saparovna	Candidate of medical sciences, acting docent	gulzhan2171 @mail.ru	Scientific work: "Hepatoprotective effect of pannuvladine in toxic hepatitis"	Author of more than 35 scientific and scientific-methodical publications, 8 teaching aids, certificate of the highest category therapist.

11-2024 Page 5 of 36

Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

Certificate of a specialist in general medicine Baidullaev bbm2055 3 Author of over 65 scientific Assistant Bahram @mail.ru and scientific-methodical Muzaffarovich publications, 6 textbooks. Certificate of the highest category therapist Akhaeva Laura1990a00 Certificate of specialist 4 Assistant Laura @mail.ru general practitioner. Author Zhaksylykovna of 25 scientific publications 5 Toktar\_8585 Certificate of specialist Toktarova Assistant Gulnaz @mail.ru therapist, functional Abdimalikovna diagnostics, cardiologist. Author of 8 scientific publications and co-author of 1 educational and methodological manual Batkhieva Madin\_madina Co-author of 1 teaching aid. 6 Assistant Madina @mail.ru **International APTIS** Bekenovna certificate. Therapist certificate 7 Tazhibaeva Azhar avril.tab@mail.ru Certificate of General Assistant Bakytbekkyzy Practitioner Author of 29 scientific publications Department of Pediatrics-1 1 Kemelbekov PhD Kanat-Pediatrics. Author of more than 80 Kanatzhan 270184@mail.ru Balalar surgery scientific publications and 3 Sauhanbekovich textbooks 2 Author of more than 70 Mustafina docent sayat.mka@mail. **Pediatrics** Kenzhegul scientific publications and 3 Akhmetovna textbooks 3 Baimakhanova Candidate of Bakhtigul059 Pediatrics Author of more than 40 scientific publications and 1 Bakhtygul medical sciences. @mail.ru Bimendievna acting docent manual 4 Absadyk Aidana assistant aidana.absadyk@ Pediatrics Author of scientific Erseitkyzy mail.ru publications -5 Boti.asik@mail.r 5 Baltabaeva Botakoz assistant **Pediatrics** Author of scientific Serikyzy publications -5 Thematic plan 8. LO Day Form of Name of **Summary** Numb Forms/ Forms/ classes topics of the methods/ evaluation er of modul hours learning methods technologies e LO<sub>2</sub> 1 Overview 1 Propaedeutics of Methods of Interview of patients with Quick poll internal investigation of pathology of the urinary system. lecture Feedback b diseases. patients with Data from physical methods of Lecture 1 pathology of the examination of the urinary urinary system. system. General examination: Diagnostic value. examination of the face, eyelids; examination of the lumbar region; assessment of the degree of kidney prolapse; palpation and percussion (method of

11-2024 Page 6 of 36

11-2024 Page 7 of 36

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)
Educational program 6B 10115 "Medicine"

			shaking) of the kidneys, percussion determination of the upper border of the bladder; auscultation - a technique for listening to the renal arteries.				
	Propaedeutics of internal b diseases . Practical lesson 1	Methods of investigation of patients with pathology of the urinary system. Diagnostic value.	Interview of patients with pathology of the urinary system. Data from physical methods of 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 (method of shaking) of the kidneys, percussion determination of the upper border of the bladder; auscultation - a technique for listening to the renal arteries.	LO2 LO3 LO4	3	the practical lesson topic,	Oral interview checklist, assessment of practical skills
	Propaedeutics of internal b diseases . SIWT/SIW 1	Laboratory methods of examination of patients with diseases of the urinary system.	Urine collection for a general urinalysis, for the Zimnitsky, Reberg sample, its indicators are normal and pathological. Principles of determining the level of creatinine, urea and residual nitrogen in blood serum, their indicators in norm and pathology.	LO2 LO3	1/6	Preparation and protection of presentation.	Presentation Evaluation Checklist
2	Pathological physiology. Lecture 1	Pathophysiology of the kidneys. Disorders of glomerular and tubular function	Impaired glomerular filtration and tubular reabsorption. Tubulopathies. The role of the kidneys in disorders of water-electrolyte metabolism and acid-base balance. Renal and extrarenal disorders in renal pathology. Clinical significance	LO1	1	Overview lecture	Quick poll Feedback
	Pathological physiology. Practical lesson 1	Pathophysiology of the kidneys. Disorders of glomerular and tubular function	Impaired glomerular filtration and tubular reabsorption. Tubulopathies. The role of the kidneys in disorders of water-electrolyte metabolism and acid-base balance. Renal and extrarenal disorders in renal pathology. Clinical significance	LO3 LO5	3	Work in small groups, discussion of the topic, case-study	
	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	1/6	Case study	Checklist

	Biochemistry. Practical lesson 1	Biochemical mechanisms of filtration and reabsorption in the kidneys.	Biochemical mechanisms of filtration and reabsorption in the kidneys. Analysis of biochemical parameters of urine.	LO3 LO5	1	seminar, situational tasks, MCQ testing	Checklist
3	Pathological anatomy . Lecture 1	Glomerulopathies	Glomerulopathies. Glomerulonephritis. Renal amyloidosis. Clinical significance. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	1	Overview lecture	Quick poll Feedback
	Pathological anatomy . Practical lesson 1	Glomerulopathies	Glomerulopathies. Glomerulonephritis. Renal amyloidosis. 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- preparation with the conclusion, case-study	Checklist descriptions of macro- and microprepara tions, case solution checklist
	Pathological anatomy. SIWT/SIW 1	Congenital pathology of the kidneys. Kidney tumors	Congenital malformations of the kidneys. Benign and malignant tumors of the kidneys. Etiology. Pathogenesis.  Morphogenesis. Pathological anatomy. Complications.  Causes of death. Clinical significance	LO3 LO5	1/5	Case study	Case solution shecklist
	Biochemistry. Practical lesson 2	Urolithiasis: biochemical aspects.	Urolithiasis: biochemical aspects. Study of urinary stone composition. Effect of urine pH on crystallization processes.	LO3 LO5	1	seminar, situational tasks, MCQ testing	checklist
4	Pharmacology . Lecture1	Agents 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 in acute and chronic renal failure.  Mechanism of action. Indications for use. Contraindications, side effects.	LO 1	1	Overview lecture.	Blitz-question Feedback
	Pharmacology . Practical lesson 1	Agents affecting 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 in acute and chronic renal failure.	LO 6	2	Discussion of the topic, solving situational problems, MSQ testing.	Check-list

11-2024 Page 8 of 36

Pharmacology . SIWT/SIW 1	Agents affecting immune processes.	Mechanism of action. Indications for use. Contraindications, side effects. Features of use in children. Immunostimulants. Drugs from different pharmacological groups that increase nonspecific resistance of the body. Immunosuppressants. Classification. Mechanism of action and comparative characteristics of drugs. Features of use in children.	LO 6 LO 7	1/4	Preparation and defense of presentation, work with scientific articles	Check-list
Propaedeutics of children diseases. Practical lesson 1	Research methods of sick children of different age groups with pathology of the genitourinary system.	Questioning of sick children of different ages with pathology of external genitals. Data of physical methods of research of external genitals in children. General inspection: inspection of the face, eyelids; inspection of the lumbar region; assessment of the degree of ptosis of the kidneys; palpation: technique of palpation of the kidneys and bladder; percussion: method of tapping the kidneys, percussion determination of the upper border of the bladder; auscultation method-auscultation of the renal arteries.	LO2 LO3 LO4	1	Discussio n of the lesson topic, mastering practical skills	Evaluation of the oral survey, checklist mastering practical skills. Testing.
Propaedeutics of children diseases . SIWT/SIW 1	Methods of laboratory research of sick children of different age groups with pathology of urinary system.	Urinalysis, CBC, Zimnitsky, Reberg samples and its indicators in the norm and pathology in children. Principles of determination of serum creatinine, urea and residual nitrogen levels, their indicators in norm and pathology in children. Principles of radioisotope radiography, diagnostic capabilities method. Preparation and technique of excretory urography, its	LO2 LO3	1/2	Preparing for the theme presentatio n, report	Topic presentation , report evaluation

11-2024 Page 9 of 36

Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

Department of Pathology and Potensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)
Educational program 6B 10115 "Medicine"

11-2024 Page 10 of 36

			indicators in the norm and pathology in children. Determination of glomerular filtration rate: calculating GFR by CKD-EPI formula. Visual examination methods: x-ray and ultrasound. The importance of endoscopic examination methods.				
5	Propaedeutics of internal b diseases . Lecture 2	The leading clinical syndromes (dysuric, nephrotic, nephritic, hypertensive and renal insufficiency) 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 lecture	Quick poll Feedback
	Propaedeutics of internal b diseases . Practical lesson 2	The leading clinical syndromes (dysuric, nephrotic, nephritic) in the urinary system. Diagnostic value.	Predisposing factors and causes leading to the development of dysuric, nephrotic, and nephritic syndromes. Classification. Clinical and diagnostic features.	LO2 LO3 LO4	3	Discussion of the practical lesson topic, solving situational problems	Oral interview checklist
	Propaedeutics of internal b diseases . SIWT/SIW 2	Instrumental research methods for patients with diseases of the urinary system.	Principles of radioisotope radiography, diagnostic capabilities of the method. Preparation and technique of excretory urography, its indicators are normal and pathological. Determination of glomerular filtration rate: calculated glomerular filtration rate using the CKD-EPI formula. Visual examination methods: X-ray and ultrasound. The importance of endoscopic examination methods.	LO2 LO3	1/6	Preparation and protection of presentation.	Presentation Evaluation Checklist
6	Pathological physiology. Lecture 2	Renal failure	Acute and chronic renal failure, etiology, pathogenesis, functional-metabolic disorders. Uremia, concept,	LO1	1	Overview lecture	Quick poll Feedback

11-2024 Page 11 of 36

			manifestations, pathogenesis. Clinical significance				
	Pathological physiology. Practical lesson 2	Renal failure	Acute and chronic renal failure, etiology, pathogenesis, functional-metabolic disorders. Uremia, concept, manifestations, pathogenesis. Clinical significance	LO3 LO5	2	Work in small groups, discussion of the topic, case-study	
	Pathological physiology. SIWT/SIW 1	Midterm Control No. 1	Topics of lectures, practical classes, independent work, covered during 1 - 6 days of studying	LO1 LO2 LO3 LO4 LO5 LO6	1/6	Integrated control of educational achievement s using control training cases, MCQ testing	
	Pathological anatomy. Practical lesson 2	Tubulopathies	Pyelonephritis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	2	Discussion of the topic, description of macro- and micro- preparation with the conclusion, case-study	Checklist descriptions of macro- and microprepara tions, case solution checklist
7	Pharmacology . Lecture 2	Antiviral agents.	Classification and mechanism of action of antiviral agents.  Application. Biological significance, pharmacological effects and application of interferons. Interferongens.  Agents for the treatment of AIDS. Possible Side Effects.	LO 1	1	Overview lecture	Blitz-question Feedback
	Pharmacology . Practical lesson 2	Anti-inflammatory agents.	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, solving situational problems, MSQ testing.	
	Pharmacology . SIWT/SIW 2	Antituberculosis agents. Antispirochetal agents.	General characterization.  Classification. Mechanism of antitubercular action of drugs of different groups. Mechanism and spectrum of antibacterial	LO 6 LO 7	1/5	Preparation and defense of presentation, work with	Check-list

# Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

11-2024 Page 12 of 36

Department of Pathology and Potensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

			action of main and reserve drugs, their pharmacokinetics. Basic principles of therapy with antitubercular agents (duration and stage of treatment, combination therapy). Principles of prescribing antispirochetal agents. Antispirochetal properties of benzylpenicillin preparations. Mechanism of action of bismuth preparations, their use in the treatment of syphilis. Side effects. Reserve antispirochetal antibiotics: tetracycline, erythromycin, etc. Features of use in children.			scientific articles	
8	Propaedeutics of internal b diseases . Practical lesson 3	The leading clinical syndromes (hypertensive and renal insufficiency) 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 practical lesson topic, solving situational problems	Oral interview checklist
	Propaedeutics of internal b diseases . SIWT/SIW 3	Palpation, percussion of the kidneys, percussion determination of the upper border of the bladder; auscultation of listening to the renal arteries	Palpation and percussion (method of percussion) of the kidneys, percussion determination of the upper border of the bladder; auscultation is a technique for listening to the renal arteries	LO4	1/2	Acquisition and implementat ion of practical skills	Checklist, learning practical skills
	Pathological anatomy . Lecture 2	Pathological anatomy of kidney diseases. Tubulopathies	Tubulopathy. Pyelonephritis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	1	Overview lecture	Quick poll Feedback
	Pathological anatomy . Practical lesson 3	Pathological anatomy of kidney diseases. Renal failure	Acute and chronic renal failure. Nephrosclerosis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications.	LO3 LO5	1	Discussion of the topic, description of macro- and micro- preparation	Checklist descriptions of macro- and microprepara tions, case

11-2024 Page 13 of 36

			Causes of death. Clinical			with the	solution
			significance			conclusion,	checklist
						case-study	
	Pathological	Pathology of	Gestosis. Tumors and tumor-like	LO3	1/4	Case study	Case
	anatomy.	pregnancy and	changes in the trophoblast.	LO5	1/ 1	case study	Solution
	SIWT/SIW 2	postpartum period	Ectopic pregnancy. Etiology.	200			Checklist
	51111/5111 2	postpartam period	Pathogenesis. Morphogenesis.				Checklist
			Pathological anatomy.				
			Complications. Causes of death.				
			Clinical significance				
9	Pharmacology.	Antiviral agents.	Classification and mechanism of	LO 6	3	Discussion of	Check-list
	Practical lesson 3	Antifungal agents.	action of antiviral agents.			the topic,	
			Application. Biological			solving	
			significance, pharmacological			situational	
			effects and application of			problems,	
			interferons. Interferonogens.			MSQ testing.	
			Agents for the treatment of				
			AIDS. Possible side effects.				
			Features of use in children.				
			Classification of antifungal agents. Comparative				
			characteristics of drugs.				
			Application. Possible				
			complications and their				
			prevention.				
	Pharmacology .	Antiprotozoal	Classification, mechanism of	LO 6	1/5	Preparation	Check-list
	SIWT/SIW 3	agents.	action of drugs used for the	LO 7	1/5	and defense of	Check list
	5111 175111 5	Antihelminthic	treatment of malaria,	20 /		presentation,	
		agents.	amoebiasis, trichomoniasis,			work with	
			leishmaniasis, etc.			scientific	
			Classification of antihelminthic			articles	
			agents. Mechanism of action.				
			Indications for use.				
			Contraindications. Features of				
			use in children.				
	Biochemistry.	The urogenital	The urogenital system in	LO3	1	Review	Feedback
	Lecture1	system in	pathology.	LO5			
		pathology.		* 0 -			~-
	Biochemistry.	Biochemical	Biochemical markers of chronic	LO3	1	seminar,	Check-
	Practical lesson 3	markers of chronic	kidney disease (CKD).	LO5		situational	
		kidney disease.	Determination of urea,			tasks, MCQ	
			creatinine and cystatin C levels.			testing	
			Study of inflammation markers in CKD.				
10	Propaedeutics of	Diagnosis of the	Symptoms of syndromes:	LO2	1	Overview	
	children	main syndromes	urinary, nephrotic, nephritic,				Feedback
	diseases.	(disorders) of the					
	Lecture 1	urinary system in					
		children					

11-2024 Page 14 of 36

					_	I	1
	Propaedeutics of children diseases. Practical lesson 2	Clinical and laboratory characteristics of urinary, dysuric, nephritic and nephrotic syndromes in children of different age groups.	The main symptoms of urinary, dysuric, nephritic and nephrotic syndrome, acute and chronic kidney damage in children of different age groups. Methods and preparation of patients for laboratory and instrumental examination with urinary, dysuric, nephritic and nephrotic syndrome.	LO2 LO3 LO4	3	Discussio n of the lesson topic, mastering practical skills	Evaluation of the oral survey, checklist mastering practical skills. Testing.
	Propaedeutics of children diseases. SIWT/SIW 2	Anomalies in the development of the urinary system. Sex formation and maturation.	Anomalies in the development of the urinary system.  Sex formation and maturation. Classification. Estimates of puberty.	LO2 LO3	1/5	Preparing for the theme presentatio n, report	Topic presentation , report evaluation
11	Pathological anatomy. Practical lesson 4	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	3	Discussion of the topic, description of macro- and micro- preparation with the conclusion, case-study	Checklist descriptions of macro- and microprepara tions, case solution checklist
	Pathological anatomy . SIWT/SIW 3	Pathology of the female reproductive system	Endometritis. Dyshomonal changes in the endometrium. Endometriosis. Uterine cancer. Ovarian tumors. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5 LO7	1/5	Case-study	Case Solution Checklist
12	Pathological physiology. Practical lesson 3	Nephrotic Syndrome	Nephrotic syndrome, concept, types, 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	3	Work in small groups, discussion of the topic, case-study	Checklist

Department of Pathology and Forensic Medicine

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B 10115 "Medicine"

Pathological Midterm Topics of the lectures, LO<sub>1</sub> 1/2Integrated Checklist physiology. control No. 2 practical classes, independent LO<sub>2</sub> control of SIWT/SIW 3 work covered during 7-12 LO3 educational LO4 days of training achievement LO<sub>5</sub> s using LO<sub>6</sub> control training cases, MCQ testing Biochemistry. Practical lesson 3 Biochemistry. 1/7 SIWT/SIW 2 8.1 15 hours Interim assessment **Teaching methods** 9. 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, project implementation Presentation defense and practical skills implementation, discussion of the topic, solutions to test cases Integrated monitoring of educational achievements using control educational cases, 9.4 Border control testing **Evaluation criteria** 10. 10.1 Criteria for assessing the learning outcomes of the discipline No. Name of learning Unsatisfactory **Satisfactory** Good Excellent LO outcomes 1. Does not know the LO<sub>1</sub> Demonstrates 1. Does not have a basic 1. Has a basic 1. Fluently masters knowledge and basics of semiotics and understanding of understanding of the basics of understanding of syndromology, does not semiotics semiotics and semiotics and the basics of identify symptoms and and syndromology, syndromology, and syndromology, semiotics and syndromes. makes gross mistakes in can identify independently syndromology, 2. Cannot explain the determining symptoms symptoms and identifies symptoms etiology, etiology, pathogenesis and syndromes in syndromes. and syndromes. and morphogenesis of pathogenesis and pathologies of the 2. Explains the 2. Freely explains the morphogenesis of pathological changes in urogenital system. etiology, pathogenesis etiology, 2. Makes mistakes when and morphogenesis of pathology of the the urogenital system pathogenesis and urogenital system explaining etiology, pathological changes morphogenesis of pathogenesis and in the urogenital pathological changes morphogenesis of system, but allows for

11-2024 Page 15 of 36

<del></del>	1	1	pathological changes in	fundamental	in the urogenital
			the urogenital system	inaccuracies	system
LO2	Has knowledge of	Does not know the basic	Makes mistakes when	Describes the basic	Demonstrates the
LOZ	methods of	physiological processes	describing the basic	physiological	basic physiological
	conducting	in the kidneys and	physiological processes	processes in the	processes in kidneys
	questioning,	urinary tract, does not	in the kidneys and	kidneys and urinary	and urinary tract, has
	physical	understand the regulation	•		a deep understanding
	examination of	of urine formation and	the regulation of	regulation of	of the regulation of
	adults and children,	urine excretion.	C	excretory functions of	
	uses clinical		the body. Able to explain	_	the body. Is able to
	thinking in	mechanisms filtration,	with mistakes the	fully explain the	draw the mechanisms
	collecting	reabsorption and	mechanisms urine	mechanisms of urine	of urine formation.
	information when	secretion.	formation.	formation.	or arme rormation.
	drawing up an	Secretion.	Tornation	Tornacion.	
	examination plan;				
	outlines the scope				
	of basic and				
	additional studies				
	to clarify the				
	syndrome of				
	damage in				
	pathology of the				
	urogenital system				
LO3	Uses clinical	Does not know the main	Does not fully	Explains the main	Possesses clinical
	thinking in	metabolic pathways that	understand the main	metabolic pathways	thinking skills,
	collecting	affect the function of the			applies knowledge in
	information when	urogenital system.	affect the function of the	function of the	collecting information
	interpreting the	Doesn't understand	urogenital system.	urogenital system.	when interpreting the
	results of	biochemical processes	Poor understanding of	Has a good	results of
	morphological,		biochemical processes	understanding and	morphological,
	laboratory and		associated with energy	knowledge of the	laboratory and
	instrumental		metabolism	biochemical	instrumental methods
	methods of			processes associated	of examining patients
	examining patients			with energy	with pathology of the
	with pathology of			metabolism.	urogenital system,
	the genitourinary system, formulates				formulates a syndromic diagnosis,
	a syndromic				fills out a medical
	diagnosis, fills out				history. Effectively
	a medical history				solves situational
	a medical mistory				tasks.
LO4	Communicates	Does not know how to	Does not fully know how	Lists information	Freely demonstrates
	information, ideas,	apply knowledge of the	to apply knowledge	about the	knowledge of the
	problems and	urogenital system in a	about the urogenital		urogenital system in a
	solutions to patients	•	system in a clinical	in a clinical context,	clinical context,
	and their family	acquired the skills to	context, collects clinical	collects a clinical	collects clinical
	members, and is	collect a clinical history	anamnesis and physical	history and physical	history and physical
	proficient in ethical	and perform a physical	examination of patients	examination of	examination of
	-		with diseases of the	patients with diseases	patients with diseases
	and deontological practices when	examination of patients with diseases of the		patients with diseases of the genitourinary	patients with diseases of the genitourinary

11-2024 Page 16 of 36

11-2024 Page 17 of 36

	relatives and colleagues	not able to interpret the	interpreting the results of	is well oriented in the	has excellent
	colleagues	able to interpret the			nas excenent
		dole to interpret the	laboratory and	interpretation of the	orientationin the
		results of laboratory and	instrumental studies	results of laboratory	interpretation of the
		instrumental studies		and instrumental	results of laboratory
				studies	and instrumental
					studies
LO5	Determines	1. Is unable to identify	1. Determines	1. Determines	1. Independently
	pathological		pathological processes at		identifies pathological
	processes at the	the organ and cellular	the organ and cellular	<u> </u>	processes at the organ
	organ and cellular	levels, makes gross	levels, but makes gross	and cellular levels.	and cellular levels.
	levels, interprets	mistakes.	errors.	2. Interprets data on	2. Independently
	data on the	2. Cannot interpret data	2. Cannot independently		interprets data on the
	pathophysiology	on the etiology,	interpret data on the	pathophysiology and	etiology,
	and morphology of	pathophysiology and	etiology,	morphology of	pathophysiology and
	diseases taking into	morphology of diseases	pathophysiology and	diseases, taking into	morphology of
	account the clinical	taking into account the	morphology of diseases	account the clinical	diseases taking into
	data of patients,	clinical data of patients.	taking into account the	data of patients.	account the clinical
	makes conclusions,	3. Makes erroneous	clinical data of patients.	3. Draws conclusions,	data of patients.
	explains the	conclusions, has poor	3. Makes erroneous	explains the patterns	3. Draws conclusions,
	patterns of	orientation and does not	conclusions, finds it	of development of	explains the patterns
	development of	explain the patterns of	difficult to independently	complications and	of development of
	complications and	development of	explain the patterns of	outcomes of	complications and
	outcomes of	complications and	development of	pathology of the	outcomes of
	pathology of the	outcomes of pathology	complications and	urogenital system.	pathology of the
	genitourinary	of the urogenital system.	outcomes of pathology	4. Appreciates the	genitourinary system .
	system, evaluates	4. Is unable to evaluate	of the urogenital system.	results of	4. Evaluates the
	the results of	the results of	4. Finds it difficult to	experimental studies,	results of
	experimental	experimental studies and	evaluate the results of	but allows for minor	experimental
	studies	makes fundamental	experimental studies and	inaccuracies.	research.
		mistakes.	makes fundamental	5. Solves situational	5. Effectively solves
		5. Incapable of solving	inaccuracies.	tasks.	situational tasks.
		situational tasks.	5. Solves situational		
			tasks, but makes		
			fundamental mistakes		

11-2024

Page 18 of

36

Department of Pathology and Forensic Medicine

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

LO<sub>6</sub> Selects medications 1. It defines a general 1. Selects a 1. Selects medications 1. Selects drugs from in accordance with pharmacological group pharmacological group for the treatment and various the diagnosis, of drugs. of drugs by organs and prevention of the pharmacological 2. Write a recipe with groups in accordance writes systems. most common prescriptions, errors. 2. Write a recipe using diseases. with indications for determines the reference 2. Writes out a use, contraindications literature/sources. prescription for the and side effects dosage mode, specified medication recognizes adverse 2. Write a recipe for effects of without errors. medications in the 3. Calculates the dose medications. most appropriate predicts the of the drug dosage form development of depending on age, side effects and gender, and interactions of functional medications used in characteristics. pathology of the 3. Calculates doses urogenital system using various methods and determines the frequency and duration of use of the drug. LO7 1. Does not have 1. Analyzes scientific 1. Analyzes scientific Analyzes 1. Cannot analyze the professional research skills. topics of classes. articles on the topics articles on the topics literature when 2. Does not have a desire 2. Participates in the of the lesson. of the lesson. working with for continuous selfimplementation of the 2. Participates in the 2. Uses international scientific articles, education project. implementation of the databases at work 3. Violates deadlines for carries out a and development project. 3. Successfully project, completing tasks. 3. Completes defends the demonstrates a assignments on time. completed project. 4. Demonstrates desire for continuous motivation for improvement of independent work, their activities creative approach to completing tasks

#### 10.2 Methods and criteria for evaluation

Checklist for	assessing a	lesson
---------------	-------------	--------

Form of control	Grade	Evaluation criteria
Performing		- The student is well-versed in questioning and examining patients. Correctly and accurately selects
practical skills		questions when collecting anamnesis, accurately analyzes primary and secondary complaints, and
		is well-versed in the collected anamnesis of life and disease.
	Excellent corresponds to points 95-100 90-94	<ul> <li>Accurately performs a basic physical examination: general examination, palpation, percussion, auscultation, measurement of blood pressure, 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>Able 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> </ul>
		- Used additional literature when preparing for the lesson Systematizes the material on the given
		topic.
		- Effectively communicates in medical practice, objectively conveys relevant information, knows

#### Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

11-2024 Page 19 of

36

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

and uses the norms of ethics and deontology when performing the skill; - 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. Good - Accurately performs a basic physical examination: general examination, palpation, percussion, corresponds auscultation, blood pressure measurement, determination of pulse characteristics, respiratory rate, to points etc. of children and adolescents. Incapable of correctly interpreting examination results. Does not 85-89 accurately convey appropriate information; 80-84 - Links data from objective physical examination (palpation, auscultation, percussion), and 75-79 incorrectly interprets data from laboratory and instrumental studies. 70-74 - 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 - The student is able to navigate when questioning and examining patients, differentiates between primary and secondary complaints with errors, and is poorly oriented in the collected anamnesis of life and illness. - Makes mistakes when conducting a physical examination (palpation, percussion, auscultation and general examination) and demonstrates incomplete knowledge of the material on the given Satisfactory corresponds topic, while making fundamental mistakes. to points - Links data from objective physical examination (palpation, auscultation, percussion), correctly 65-69 interprets data from laboratory and instrumental studies. Has errors in assessing examination 60-64 results. 50-54 - Is unable to evaluate pathophysiological patterns of research results. Is unable to determine the relationships between the main symptoms and syndromes. Establishes a presumptive syndromebased diagnosis without substantiating the data. - Has a low level of communication skills in medical practice; subjectively conveys appropriate information; - The student has no idea about the main and secondary complaints, and is not oriented in the Unsatisfacto ry collected anamnesis of life and illness. corresponds - Is unable to carry out practical skills to interpret their results. Cannot determine the relationship to points of objective physical examination data (palpation, auscultation, percussion), incorrectly interprets 25-49 laboratory and instrumental examination data. - 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. Unsatisfacto Establishes a presumptive syndrome-based diagnosis without substantiating the data ry - Does not participate in the work of the group. Is not able to communicate in medical practice; corresponds does not convey proper information, does not know and is not able to use the norms of ethics and to points 0-24 deontology when performing the skill. When answering the teacher's questions, gross errors, not using specific terminology in answers. Case study - solved cases within a certain time: Excellent - gave full answers to all questions corresponds Demonstrates original thinking when analyzing a situational task. Fully utilizes theoretical knowledge necessary to solve a given task. Demonstrates excellent knowledge of reference to points 95-100 biochemical parameters when interpreting the proposed biofluid analysis data. Demonstrates the 90-94 ability to draw logical conclusions on a situational task, while demonstrating a deep understanding of the necessary educational material. Good - solved cases within a certain time; - gave complete answers to all questions; corresponds to points - made minor mistakes when solving cases 85-89 Possesses the necessary knowledge to solve this situational task. Allows for minor inaccuracies 80-84 when discussing this case. Is able to draw correct conclusions on the proposed situational task. 75-79 70-74

Satisfactory corresponds to points 65-69 Allows minor inaccuracies when discussing a given task, has difficulty interpreting ana proposed in a situational task. Draws conclusions with difficulty  Unsatisfacto ry corresponds to points 25-49  Satisfactory - solved cases within a certain time; - gave incomplete answers to questions; - made fundamental mistakes when solving cases Allows minor inaccuracies when discussing a given task, has difficulty interpreting ana proposed in a situational task. Draws conclusions with difficulty  - solved cases within a certain time; - made fundamental mistakes when solving cases Allows minor inaccuracies when discussing a given task, has difficulty interpreting ana proposed in a situational task. Draws conclusions with difficulty  - solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate to points conclusions.	I
corresponds to points 65-69 60-64 50-54  Unsatisfacto ry corresponds to points  - gave incomplete answers to questions; - made fundamental mistakes when solving cases Allows minor inaccuracies when discussing a given task, has difficulty interpreting ana proposed in a situational task. Draws conclusions with difficulty  - solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate to points  - gave incomplete answers to questions; - made fundamental mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate to points	less es
to points 65-69 60-64 50-54 Unsatisfacto ry corresponds to points Allows minor inaccuracies when discussing a given task, has difficulty interpreting ana proposed in a situational task. Draws conclusions with difficulty - solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate to points	1
60-64 50-54  Unsatisfacto ry corresponds to points  60-64 50-54  Unsatisfacto ry corresponds to points  From the proposed in a situational task. Draws conclusions with difficulty and task. Draws conclusions with difficulty  - solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate to points.	1
Unsatisfacto ry corresponds to points  - solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw approaches to points	ayses
Unsatisfacto ry corresponds to points  - solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw approaches to points	
ry corresponds to points - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw approach conclusions.	
corresponds to points Allows fundamental errors in discussing a situational task. Passive, unable to draw approach to points conclusions.	
to points conclusions.	
	ropriate
25-49	
Unsatisfacto	
ry	
corresponds	
to points	
0-24	
Interpretation Excellent - correctly, without any errors, interprets the results of clinical laboratory tests;	
of clinical corresponds - made a reasoned conclusion	
laboratory test to points	
results 95-100	
90-94	
Good - correctly interprets the results of clinical laboratory tests, making minor errors;	
corresponds - makes a reasoned conclusion	
to points 85-89	
80-84	
75-79	
70-74	
Satisfactoril - correctly interprets the results of clinical laboratory studies, having made fundamental	l mistakes:
y - makes an unfounded conclusion	i imstancs,
corresponds	
to points	
65-69	
60-64	
50-54	
Unsatisfacto - incorrectly interprets the results of clinical laboratory tests, making gross errors;	
ry - doesn't not draw a conclusion	
corresponds	
to points	
25-49	
Unsatisfacto	
ry	
corresponds	
to points	
0-24  Description of names the organ correctly and indicated its dimensions	
<b>Description of the</b> Excellent - names the organ correctly and indicated its dimensions, - describes the surface: the condition of the capsule or serous membrane, dimness, shine	acc plague
magnenage ti Corresponds on a curface:	css, praque
on to points a description of the pathological focus: indicates the location size shape (if it is	s an ulcer -
the condition of the hottom) color consistency.	, an arcor -
90-94 -makes the correct pathological conclusion/diagnosis	
Good - correctly names the organ, indicated the dimensions, describes the surface:	
corresponds condition of the capsule or serous membrane, dimness, shiness, plaque on a surface;	
to points - gives a description of the pathological focus:	
85-89 indicates the location, size, shape (if it is an ulcer – the condition of the bottom), color,	
80-84 consistency;	

Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics and Internal Medicine 11-2024 Page 21 of

36

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B 10115 "Medicine"

75-79 -makes the correct pathological conclusion/diagnosis, but during the answer makes minor 70-74 mistakes and inaccuracies - correctly names the organ, does not indicate the dimensions, does not fully describe the surface: Satisfactoril does not describe the condition of the capsule or serous membrane, dimness, shiness, plaque on a surface: corresponds - gives an incomplete description of the pathological focus: to points does not indicate indicated location, size, shape (if it is an ulcer - condition of the bottom), color, 65-69 consistency; 60-64 - makes the correct pathological conclusion/diagnosis, but during the answer makes fundamental 50-54 mistakes and inaccuracies - correctly names the organ, does not indicate the size, does not describe the surface: does not Unsatisfacto describe the condition of the capsule or serous membrane, dimness, shiness, plaque on a surface; - gives an incorrect description of the pathological focus: rv corresponds does not indicate indicated location, size, shape (if it is an ulcer - condition of the bottom), color, to points consistency; 25-49 - makes the correct pathological conclusion/diagnosis, but during the answer made fundamental mistakes and inaccuracies - incorrectly names the organ, does not indicate the size, does not describe the surface: does not Unsatisfacto describe the condition of the capsule or serous membrane, dimness, shiness, plaque on a surface; gives an incorrect description of the pathological focus: corresponds does not indicate indicated location, size, shape (if it is an ulcer - condition of the bottom), color, to points consistency; 0 - 24- makes an incorrect pathological conclusion/diagnosis, makes gross errors during the answer, leaves some questions unanswered **Description of** Excellent -correctly names the organ or tissue, correctly characterizes pathological changes: localization, the microslide made a description, named the color; corresponds -makes the correct pathological conclusion/diagnosis to points 95-100 90-94 Good -correctly names the organ or tissue, correctly characterizes pathological changes: localization, corresponds makes a description, named the color; -makes the correct pathological conclusion/diagnosis, but during the answer makes minor to points 85-89 mistakes and inaccuracies 80-84 75-79 70-74 - correctly names the organ or tissue, incorrectly characterizes the pathological changes: Satisfactoril localization, made a description, incorrectly named the color; У corresponds - makes the correct pathological conclusion/diagnosis, but during the answer makes fundamental mistakes and inaccuracies to points 65-69 60-64 50-54 Unsatisfacto - correctly names an organ or tissue, incorrectly characterizes pathological changes: localization, made a description, incorrectly named the color; -makes the correct pathological conclusion/diagnosis, makes gross errors during the answer corresponds to points 25-49 - incorrectly names an organ or tissue, incorrectly characterizes pathological changes: localization, makes a description, incorrectly names the color; Unsatisfacto - makes an incorrect pathological conclusion/diagnosis, makes gross mistakes during the answer, ry leaves some questions unanswered corresponds to points දක්ර්ය OŃTÚSTIK QAZAQSTAN SOUTH KAZAKHSTAN 0-24**MEDISINA** MEDICAL **AKADEMIASY** ACADEMY «Онтустік Казакстан медицина академиясы» АК

11-2024 Page 22 of 36

Prescription	Excellent	Writes a prescription for medicines in the most appropriate dosage form depending on age, gender
writing	Corresponds	and functional characteristics. Writes out a prescription for the selected medicine without errors
	to ratings:	Calculates doses using various methods and determines the frequency and duration of use of the
	A (4.0; 95-	medicine.
	100%);	
	A- (3.67; 90-	
	94%)	
	Good	Writes a prescription for the selected medication without errors.
	Corresponds	Calculates the dose of the medicine. Limited to general indications "Internal", "External".
	to ratings:	
	B+ (3.33;	
	85-89%)	
	B (3.0; 80-	
	84%)	
	B- (2.67; 75-	
	79%)	
	C+ (2.33;	
	70-74%)	
	Satisfactoril	Writes a prescription using reference literature/sources. Allows corrections to the prescription.
	y	
	Corresponds	
	to ratings:	
	C (2.0; 65-	
	69%)	
	C- (1.67; 60-	
	64%)	
	D+ (1.33;	
	55-59%)	
	D- (1.0; 50-	
	54%)	TYT 1:
	Unsatisfact	Writes a prescription with errors.
	ory	
	FX (0.5; 25-	
	49%) F (0; 0-24%)	
	1 (0, 0-24%)	Checklist for SIWT/SIW
Amalusia of a	Encellant	T
Analysis of a scientific article	Excellent corresponds	- independently substantiated and argued the relevance of the problem; - explained the purpose of the work, the materials and methods used in the work;
scientific article	to points	- freely presented the semantic content of the scientific article;
	95-100	- argued and substantiated conclusions;
	90-94	- had the skill of using literature and justifying the selected list of references in this article
	Good	- substantiated and argued the relevance of the problem;
	corresponds	- explained the purpose of the work, the materials and methods used in the work;
	to points	- outlined the semantic content of the scientific article;
	85-89	-argued and substantiated conclusions;
	80-84	- had the skill of using literature and justifying the selected list of references in this article;
	75-79	- when answering, he made minor mistakes and inaccuracies
	70-74	when answering, he made minor mistakes and maccuracies
	Satisfactory	- found it difficult to justify and argue the relevance of the problem;
	corresponds	- explained the purpose of the work, the materials and methods used in the work;
	to points	- had difficulty expressing the semantic content of a scientific article;
	65-69	- had difficulty arguing and substantiating conclusions;
	60-64	- had the skill of using literature and justifying the selected list of references in this article;
	50-54	- when answering, he made fundamental mistakes and inaccuracies
	Unsatisfacto	- found it difficult to justify and argue the relevance of the problem;
		- explained the purpose of the work, the materials and methods used in the work;
	ry	

	corresponds	- had difficulty expressing the semantic content of a scientific article;
	to points	- had difficulty arguing and substantiating conclusions;
	25-49	- failed to demonstrate the skill of using literature and justifying the selected list of literature in
		this article;
		- made gross mistakes when answering
		- found it difficult to justify and argue the relevance of the problem;
	Unsatisfacto	- could not explain the purpose of the work, the materials and methods used in the work;
	ry	- was unable to convey the semantic content of a scientific article;
	corresponds	- was unable to argue and justify the conclusions;
	to points	- failed to demonstrate the skill of using literature and justifying the selected list of literature in
	0-24	this article;
	0-24	- made gross mistakes when answering
D' ' C	Excellent	
Discussion of		- did not make any mistakes during the discussion;
the topic	corresponds	- was oriented in the theories, concepts and directions of the discipline and gave them a critical
	to points	assessment;
	95-100	- used scientific achievements of other disciplines
	90-94	
	Good	- during the discussion he did not make any gross mistakes, but he did make inaccuracies and
	corresponds	minor errors, which he corrected himself;
	to points	- managed to systematize the program material with the help of the teacher
	85-89	
	80-84	
	75-79	
	70-74	
	Satisfactory	- made fundamental mistakes during the discussion;
	corresponds	- limited himself to only the educational literature specified by the teacher;
	to points	- experienced great difficulty in systematizing the material
	65-69	experienced great difficulty in systematizing the material
	60-64	
	50-54	
	Unsatisfacto	mode areas mistaless during the discussion.
		- made gross mistakes during the discussion;
	ry	- did not study the basic literature on the topic of the lesson;
	corresponds	- failed to use the scientific terminology of the discipline
	to points	
	25-49	
	Unsatisfacto	
	ry	
	corresponds	
	to points	
	0-24	
	_	

### **Checklist for midterm assessment**

**Testing** - testing is assessed using a multi-point knowledge assessment system.

Form of control	Grade	Evaluation criteria
in carrying out practical work	Excellent 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, measurement of blood pressure, 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 and instrumental examination data.  - Able to evaluate pathophysiological patterns of research results. Finds and

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 24 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	I
Department of Pediatrics-1	I
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	I
Educational program 6B 10115 "Medicine"	İ

	compares the connection between the main symptoms and syndromes.  - Substantiates and establishes a presumptive syndrome-based diagnosis.  - Used additional literature when preparing for the lesson Systematizes the material on the given topic.  - Effectively communicates in medical practice, objectively conveys relevant information, knows and uses the norms of ethics and deontology when performing the skill;  The student differentiates between primary and secondary complaints well, is well oriented in the collected anamnesis of life and disease. Is well oriented
Good corresponds to points 85-89 80-84 75-79 70-74	when questioning and examining patients, but allows minor inaccuracies or fundamental errors, corrected by the student himself.  - 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;  - Links data from objective physical examination (palpation, auscultation, percussion), and incorrectly interprets data from laboratory and instrumental studies.  - 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
Satisfactory corresponds to points 65-69 60-64 50-54	- The student is able to navigate when questioning and examining patients, differentiates between primary and secondary complaints with errors, and is poorly oriented in the collected anamnesis of life and illness.  - 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.  - Links data from objective physical examination (palpation, auscultation, percussion), correctly interprets data from laboratory and instrumental studies. Has errors in assessing examination results.  - Is unable to evaluate pathophysiological patterns of research results. Is unable to determine the relationships between the main symptoms and syndromes.  Establishes 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 oriented in the collected anamnesis of life and illness.  - Is unable to carry out practical skills to interpret their results. Cannot
Unsatisfactory corresponds to points 0-24	determine the relationship of objective physical examination data (palpation, auscultation, percussion), incorrectly interprets laboratory and instrumental examination data.  - 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  - 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.

11-2024 Page 25 of 36

Case - study		- solved cases within a certain time;
·	Excellent corresponds to points	- gave full answers to all questions Demonstrates original thinking when analyzing a situational task. Fully utilizes theoretical knowledge necessary to solve a given task. Demonstrates excellent
	95-100 90-94	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.
	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <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>
	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <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 Unsatisfactory corresponds to points	- solved cases incorrectly or did not solve them at all; - made gross mistakes when solving cases Allows fundamental errors in discussing a situational task. Passive, unable to draw appropriate conclusions.
Interpretation of clinical laboratory test results	0-24 Excellent corresponds to points 95-100 90-94	- correctly, without any errors, interpreted the results of clinical laboratory tests; - made a reasoned conclusion
	Good corresponds to points 85-89 80-84 75-79 70-74	- correctly interpreted the results of clinical laboratory tests, making minor errors; - made a reasoned conclusion
	Satisfactory corresponds to points 65-69 60-64 50-54	- correctly interpreted the results of clinical laboratory studies, having made fundamental mistakes; - made an unfounded conclusion
	Unsatisfactory corresponds to points 25-49 Unsatisfactory	- incorrectly interpreted the results of clinical laboratory tests, making gross errors; - did not draw a conclusion
Diameter 64	corresponds to points 0-24	
Discussion of the topic	Excellent corresponds to points 95-100 90-94	<ul> <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>

	Good	- during the discussion he did not make any gross mistakes, but he did make
	corresponds to points	inaccuracies and minor errors, which he corrected himself;
	85-89	- managedsystematize the program material with the help of the teacher
	80-84	
	75-79	
	70-74	
	Satisfactory	- made fundamental mistakes during the discussion;
	corresponds to points	- limited himself to only the educational literature specified by the teacher;
	65-69	- experienced great difficulty in systematizing the material
	60-64	
	50-54	
	Unsatisfactory	- made gross mistakes during the discussion;
	corresponds to points	- did not study the basic literature on the topic of the lesson;
	25-49	- failed to use the scientific terminology of the discipline
	Unsatisfactory	
	corresponds to points	
	0-24	
MCQ testing	Excellent	- correctly completed 90-100% of test tasks
	corresponds to points	
	95-100	
	90-94	
	Good	- did it correctly70-89% of test tasks
	corresponds to points	
	85-89	
	80-84	
	75-79	
	70-74	
	Satisfactory	- did it correctly50-69% of test tasks
	corresponds to points	
	65-69	
	60-64	
	50-54	
	Unsatisfactory	- performed less correctly50% of test tasks
	corresponds to points	·
	25-49	
	Unsatisfactory	
	corresponds to points	
	0-24	

Checklist for assessing answers to descriptions of macropreparations

No.	Evaluation Criteria/Evaluation	Excellent	Good	Satisfactory	Unsatisfactory
1	Name of the organ	4	3	2	0
2	Organ size	10	7	5	0
3	Surface: condition of the capsule or serous membrane, dimness, shiness, plaque on a surface	1	1	1	0
4	Characteristics of the pathological focus: localization, size, shape (if ulcer- condition of the bottom), color, consistency	5	4	2	0
5	Pathological diagnosis/conclusion				
6	Total	20	15	10	0

Checklist for assessmentanswers on the description of micropreparations

Two Dialitical Criteria Dialitical Constitution		No.	Evaluation Criteria/Evaluation	Excellent	Good	Satisfactory	Unsatisfactory
---	--	-----	--------------------------------	-----------	------	--------------	----------------

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1

Department of Pediatrics-1				
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)				
Educational program 6B 10115 "Medicine"				

11-2024 Page 27 of 36

1	Name of an organ or tissue	4	3	2	0
2 Characteristics of pathological changes: localization, description		10	7	5	0
3	Coloring	1	1	1	0
4 Pathological diagnosis/conclusion		5	4	2	0
5	Total	20	15	10	0

Score in points by %	Unsatisfactory (0- 49%)	Satisfactory (65- 54%)	Good (70-89%)	Excellent (90-100%)
Evaluation criteria				
Structure of the article	Does not name the structural components of a scientific article	1. Does not follow the order of the structure of the scientific article when listing, skips components	Lists the structural components of a scientific article, but violates the order of the structure	1. Observes the order of the structure of a scientific article when listing:  - Name  - Authors  - Publishing house  - Summary  - General part (introduction, purpose, materials and methods, results and discussion)  - Conclusions  - Bibliography
Analysis of the content of a scientific article	1. Does not understand the relevance of the problem, is not capable of discussing the content of the article	1. Understands the relevance of the problem 2. Lists the purpose of the work, the materials and methods used in the work 3. Understands the content of a scientific article 4. Lists the conclusions and bibliography in this article	1. Assumes the relevance of the problem 2. Explains the purpose of the work, the materials used in the work and methods presents the content of a scientific article 3. Justifies the conclusions 4. Justifies the selected list of references in this article	1. Independently substantiates and argues the relevance of the problem 2. Explains the purpose of the work, the materials and methods used in the work 3. Freely expresses the semantic content of a scientific article 4. Argues and justifies conclusions 5. Has the skill of using literature and justifies the selected list of literature in this article
Answer to additional questions (on the topic of the article for the discipline)	Does not answer additional questions on the topic	1. Does not understand the problem at hand when answering additional questions	Apply the     knowledge gained     during the practical     lesson on the topic     when answering     additional questions	1. Applies the knowledge gained during the practical lesson on the topic when answering additional questions, provides a deep and comprehensive argumentation

Multi-point knowledge assessment system					
Letter Grading	Digital equivalent of points	Percentage content	Traditional system assessment		
A	4.0	95-100	Excellent		
A -	3.67	90-94	,		

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 28 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	
Educational program 6B 10115 "Medicine"	

B +	3.33	85-89	Fine
IN	3.0	80-84	
IN -	2.67	75-79	
C +	2.33	70-74	
С	2.0	65-69	Satisfactory
C -	1.67	60-64	
D+	1.33	55-59	
D-	1.0	50-54	
FX	0, 5	25-49	Unsatisfactory
F	0	0-24	

#### 11. Educational resources

# Electronic resources

- 1. Electronic library of YUKMA https://e-lib.skma.edu.kz/genres
- 2. Republican Interuniversity Electronic Library (RIEL) <a href="http://rmebrk.kz/">http://rmebrk.kz/</a>
- 3. Digital library " Aknurpress " https://www.aknurpress.kz/
- 4. Electronic library "Epigraph" <a href="http://www.elib.kz/">http://www.elib.kz/</a>
- 5. Epigraph portal of multimedia textbooks https://mbook.kz/ru/index/
- 6. **EBS IPR SMART**https://www.iprbookshop.ru/auth
- 7. information and legal system "Zan" https://zan.kz/ru
  - . Cochrane Library <a href="https://www.cochranelibrary.com/">https://www.cochranelibrary.com/</a>

# Electronic textbooks

#### **Propaedeutics and Internal Medicine:**

Ivashkin, V. T. Internal diseases propedeutics [Electronic Source]: textbook / V. T. Ivashkin, A. V. Okhiobystin. - Электрон. текстовые дан. (142Мб). - М.: ГЭОТАР - Медиа, 2017. - эл. опт. диск (CD-ROM).

- Электрон. текстовые дан. (142Mo). - M.: 1 ЭОТАР - Медиа, 2017. - Эл. опт. диск (CD-ROM).

Внутренние болезни. Т. 2 [Electronic Source] : учебник / под ред. В. С. Моисеева. - 3-е изд., испр. и доп. - Электрон. текстовые дан. (45.1Мб). - М. : ГЭОТАР - Медиа, 2015. - 895 с.

Внутренние болезни. Т. 1 [Electronic Source] : учебник / под ред. В. С. Моисеева. - 3-е изд., испр. и доп. - Электрон. текстовые дан. ( 66.5Мб). - М. : ГЭОТАР - Медиа, 2015. - 960 с.

Ішкі аурулар./Бимурзаев Ғ.Н., Зарипова Г.К., 2020/https://aknurpress.kz/reader/web/2594

Ішкі аурулар пәнінен клиникалық тапсырмалар жинағы.

Ержанова Г.А., Myxaнова А.К., 2016/https://aknurpress.kz/reader/web/2370

Шкі аурулар пропедевтикасынан жағдаяттық тапсырмалар

Оразова Б.О., Марченко Т.В., 2016 /https://aknurpress.kz/reader/web/2348

Пропедевтика внутренних болезней : Учебник. / Т.С. Рябова, Е.С. Рысс, В.Я. Плоткин и др.. - СПб.: СпецЛит, 2015. - 414 c.http://rmebrk.kz/

Внутренние болезни в работе врача общей практики: Учебное пособие. / К.Ж. Садыкова, Ш.У.

Скендерова, С.К. Саттиева. - Туркестан: Туран, 2017. - 96 c.http://rmebrk.kz/

Жаманқұлов, Қыдырқожа Абдолкәрімұлы.Ішкі аурулар [Мәтін] : оқулық / Қ. А. Жаманқұлов; Батыс Қазақстан мем. медицина акад.. - Ақтөбе : [б. ж.], 2013. - 669 б.https://elib.kaznu.kz/book/1767

Пропедевтика внутренних болезней: Учебник. – 6-е изд., І - том

перераб. и доп. (Учеб. лит. Для студентов медицинских вузов).

– Алматы: Эверо, 2020. – 400 с. <a href="https://elib.kz/ru/search/read\_book/676/">https://elib.kz/ru/search/read\_book/676/</a>

Пропедевтика внутренних болезней: Учебник. – 6-е изд., II - том перераб. и доп. (Учеб. лит. Для студентов медицинских вузов).

- Алматы: Эверо, 2020. – 212 с https://elib.kz/ru/search/read\_book/682/

Пропедевтика внутренних болезней: Учебник. – 6-е изд., III - том

перераб. и доп. (Учеб. лит. Для студентов медицинских вузов). — Алматы: Эверо, 2020. — 208 с. <a href="https://elib.kz/ru/search/read\_book/684/">https://elib.kz/ru/search/read\_book/684/</a>

Нурсултанова С.Д., Бакирова Р.Е., Мамашалиева С.Б.,

Беков Е.К., Мадиева Л.С.Жүрек тамыр жүйесінің аурулары бар науқастарды тексеру әдісі және техникасы. Оқу-әдістемелік құрал.- Алматы, «Эверо» баспасы. -2020.

https://elib.kz/ru/search/read\_book/705/

Ахметов Қайырғали Жәлелұлы. Ішкі аурулар пропедевтикасы

пәнінің клиникалық дәрістері. Алматы: «Эверо», 2020. – 262 бет https://elib.kz/ru/search/read\_book/22/

Ішкі ағза ауруларының пропедевтикасы. Оқулық Айтмбет Б.11- Алматы «Эверо» 2018ж,-568

бет. https://elib.kz/ru/search/read\_book/3086/

# Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

11-2024 Page 29 of 36

#### **PChD**

Karen J. marcdante. Robert M. Kligeman. Nelson "Essential of Pediatrics" 7th edition 2015. el disc (CD-ROM). <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>, Login: ibragim123, password: Libukma123

#### Pathological Physiology:

- 1. Патологиялық физиология. Тәжірибелік сабақтарға нұсқау [Electronic Source] : оку құралы = Патофизиология. Руководство к практическим занятиям : учебное пособие / қаз. тіліне ауд. С. Б. Жәутікова ; ред. В. В. Новицкий. Электрон. текстовые дан. (63,4Мб). М. : ГЭОТАР Медиа, 2014. 768 бет. эл. опт. диск (CD-ROM)
- 2. Адам физиологиясы. Динамикалық сызбалар атласы [Electronic Source] : окулық / К. В. Судаков [ж.б.] ; қазақ тіл. ауд. М. Қ. Қанқожа. Электрон. текстовые дан. (105Мб). М. : ГЭОТАР Медиа, 2017. 464б. 3. Патологиялық физиология. Досжанова М.П. , Алматы: Эверо, 2015 ЦБ Aknurpress / https://www.aknurpress.kz/reader/web/2476
- 4. Кравцов В.И и др. Тестовые задания по патологической физиологии с элементами профилизации / Под ред.профессора В.И. Кравцов. . Алматы: Эверо, 2020. 116 с. https://www.elib.kz/ru/search/read\_book/472/
- 5. Кравцов В.И и др. Тестовые задания по патологической физиологии с элементами профилизации / Под ред. профессора В.И. Кравцов.- .Алматы: Эверо,2020. 128 с.https://www.elib.kz/ru/search/read\_book/471/6. Кравцов В.И и др. Тестовые задания по патологической физиологии с элементами профилизации / Под ред.профессора В.И. Кравцов.- .Алматы: Эверо,2020. 104 с. https://www.elib.kz/ru/search/read\_book/473/
- 7. Патологиялық физиология: 2 том. Оқулық/қазақ тіліне аударған, жауапты редактор Ж.Б. Ахметов., Алматы: Эверо, 2020 200 https://www.elib.kz/ru/search/read\_book/91/
- 8. Патологиялық физиология: 1 том. Оқулық/қазақ тіліне аударған, жауапты редактор Ж.Б.Ахметов., Алматы: Эверо, 2020 240 c https://www.elib.kz/ru/search/read\_book/88/
- 9. Патологическая физиология: Учебник для медицинских вузов. 2 том. Алматы: Эверо, 2020-216 https://www.elib.kz/ru/search/read\_book/98/
- 10. Адо А.Д, Адо М.Л, Пыцкого В.И.,Порядина  $\Gamma$ . В., Владимирова ЮЛ.Патологическая физиология: учебник для медицинских вузов. 1 том. Алматы:Эверо, 2020 248 c.https://www.elib.kz/ru/search/read book/96/
- 11. Адо А.Д, Адо М.Л, Пыцкого В.И.,Порядина Г. В., Владимирова ЮЛ. Патологическая физиология: Учебник для медицинских вузов.3 том. Алматы:Эверо, 2020 https://www.elib.kz/ru/search/read\_book/100/12. Уразалин. Тест тапсырмалары, Профилизация элементтерімен бірге патологиялық физиология, Бойынша мамандықтар: 051301-жалпы медицина, 051302-стоматология. III-бөлім. Гемостаз қан жүйесінің, қанайналым және тыныс алу жұйелерінің патофизиологиясы. Алматы, «Эверо» баспасы, 2020 ж., 142 б.https://www.elib.kz/ru/search/read\_book/896/
- 13. Уразалина.Тест тапсырмалары. Профилизация элементтерімен бірге патологиялық физиология, Бойынша мамандықтар: 051301-жалпы медицина, 051302-стоматология.ІІ-бөлім. Типтік патологиялық процестер, Біртектес дерттік үрдістер. Алматы, «Эверо» баспасы, 2020 ж., 184 б. https://www.elib.kz/ru/search/read\_book/895/
- 14. Уразалина. Тест тапсырмалары, Профилизация элементтерімен бірге патологиялық физиология, Бойынша мамандықтар: 051301-жалпы медицина, 051302-стоматология. IV-бөлім. Асқорыту, бауыр, бүйрек, эндокриндік және жүйке жүйелерінің патофизиологиясы. Алматы, «Эверо» баспасы, 2020 ж., 204 б. https://www.elib.kz/ru/search/read\_book/897/
- 15. Адо А.Д, Адо М.Л, Пыцкого В.И. , Порядина Г.В. , Владимирова Ю.Л. Патологиялық физиология: 3 том. Оқулық/қазақ тіліне аударған, жауапты редактор Ж.Б. Ахметов. Алматы: Эверо, 2020-344 https://www.elib.kz/ru/search/read\_book/94/
- 16. Қалыпты және патологиялық жағдайындағы балалар мен жасөспірімдер гинекологиясы. Раисова А.Т., Байқошкарова С.Б., Алматы: Эверо, 2020ЦБ Aknurpress / https://www.aknurpress.kz/reader/web/2583
- 17. Нормы и патологии детской и подростковой гинекологии. Раисова А.Т. , — Алматы: Эверо, 2020 ЦБ Aknur<br/>press https://www.aknurpress.kz/reader/web/2584
- 18. Анатомия, физиология, патология органов слуха, речи, зрения. Ахметова Н.Ш., Алматы: Эверо, 2019 ЦБ Aknurpress / https://www.aknurpress.kz/reader/web/1016
- 19. Мамандандырылған патологиялық физиология курсы.Жәутікова С.Б., Өмірбаева Е.Қ. , Алматы: Эверо, 2019 ЦБ Aknurpress / https://www.aknurpress.kz/reader/web/1449
- 20. Коган, Б. М. Анатомия, физиология и патология сенсорных систем: учебное пособие / Б. М. Коган, К. В. Машилов. Москва: Аспект Пресс, 2011. 384 с. ISBN 978-5-7567-0560-7. Текст: электронный // Цифровой образовательный ресурс IPR SMART: [website]. URL: https://www.iprbookshop.ru/8873.html

# Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics and Internal Medicine Department of Pediatrics-1

11-2024 Page 30 of 36

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

21. Герасимова, О. В. Патология основных систем жизнеобеспечения. Том 1 : учебное пособие / О. В. Герасимова. — Самара : PEABИЗ, 2009. — 143 с. — Текст : электронный // Цифровой образовательный ресурс IPR SMART : [website]. — URL: https://www.iprbookshop.ru/10144.html

- 22. Патологическая физиология: теоретический курс = Pathological physiology: theoretical course: учебное пособие / Е. В. Куликов, Ю. А. Ватников, В. И. Паршина, В. М. Бяхова. Москва: Российский университет дружбы народов, 2018. 92 с. ISBN 978-5-209-08472-3. Текст: электронный // Цифровой образовательный ресурс IPR SMART: [сайт]. URL: <a href="https://www.iprbookshop.ru/91045.html">https://www.iprbookshop.ru/91045.html</a> Pathological Anatomy:
- 1. Патологическая анатомия [Electronic Source] : атлас: учеб. пособие для студентов мед. вузов и последипломного образования / под ред. О. В. Зайратьянц. Электрон. текстовые дан. ( 240 Мб). М. : ГЭОТАР Медиа, 2012. 960 с. эл. опт. диск (CD-ROM). (Электронный учебник).
- 2. Митрофаненко, В. П. Патологияның негіздері [Electronic Source] :мед. училищелер мен колледждергеарн. оқулық = Основы патологии : / Электрон. текстовые дан. (154Мб). М. : ГЭОТАР Медиа, 2015. 568б. с.
- 3. Патологическая анатомия [Electronic Source] : национальное рук. / гл. ред.М. А. Пальцева,. М. : ГЭОТАР Медиа, 2013. 1264 с
- 4. Тусупбекова, М. М. Морфологический атлас общепатологических процессов [Electronic Source] : учебник / М. М. Тусупбекова. Электрон. текстовые дан. (1.03Гб). Алматы : Эпиграф, 2016. -
- 5. Струков, А. И. Патологическая анатомия [Electronic Source]: учебник М.: ГЭОТАР Медиа, 2013
- 6. Кисманова Г.Н..Жалпы патологиялық процестер нұсқауы. Оқулық..- Алматы: Эверо, 2020. 92 бет Эпиграф
- 7. https://www.elib.kz/ru/search/read\_book/861/

Несеп-жыныс ағзаларының анатомиясы. Ахмад Н.С., - Алматы: Эверо, 2020 ЦБ Aknurpress /

8. https://www.aknurpress.kz/reader/web/2357

Патологиялық анатомия Ахметов Ж.Б., 2021. https://aknurpress.kz/reader/web/2423

Жұмабеков, Х.С., Дербышев, К.Ю. Жануарлардың патологиялық анатомиясы http://rmebrk.kz/book/15133 Ахметов Ж. Б. Патологиялық анатомия – Оқулық. 1 том. Алматы: Эверо, 2020ж. - 360 бет.

https://elib.kz/ru/search/read\_book/144/

Ахметов Ж. Б. Патологиялық анатомия – Оқулық. 2 том. Алматы: Эверо, 2020ж. - 344 бет. https://elib.kz/ru/search/read\_book/141/

Ахметова Н.Ш. Анатомия, физиология, патология органов слуха, речи,

- 9. зрения: учебное пособие (3-е издание). Караганда: Издательство
- 10. «AKHYP», 2021. 192 c. https://aknurpress.kz/reader/web/1016

Поморгайло, Е. Г. Диагностика общепатологических процессов глазами студента 3 курса. Часть 1. Общая патологическая анатомия : учебное пособие / Е. Г. Поморгайло, М. В. Маркелова ; под редакцией Е. В. Лопанова, А. В. Кононов. — Саратов : Ай Пи Эр Медиа, 2018. — 77 с. — ISBN 978-5-4486-0328-0, 978-5-

4486-0329-7. — Текст : электронный // Цифровой образовательный ресурс IPR SMART : [website]. — URL: https://www.iprbookshop.ru/74392.html

Чернобай,  $\Gamma$ . Н. Патологическая анатомия орофациальной области, головы и шеи : учебное пособие /  $\Gamma$ . Н. Чернобай. — Кемерово : Кемеровская государственная медицинская академия, 2011. — 122 с. — Текст :

электронный // Цифровой образовательный ресурс IPR SMART : [website]. — URL: https://www.iprbookshop.ru/6074.html

Демко, П. С. Руководство к самостоятельной внеаудиторной подготовке студентов к практическим занятиям по курсу общей патологической анатомии / П. С. Демко, О. Д. Сидорова, Г. Н. Чернобай. —

Кемерово: Кемеровская государственная медицинская академия, 2009. — 124 с. — Текст: электронный // Цифровой образовательный ресурс IPR SMART: [website]. — URL: https://www.iprbookshop.ru/6211.html

Недзьведь, М. К. Патологическая анатомия и патологическая физиология: учебник. — Минск:

Вышэйшая школа, 2010. — 272 с. // ЦОР IPR SMART : [website]. — URL:

https://www.iprbookshop.ru/20116.html

Практикум по общему курсу патологической анатомии : учебное пособие / составители В. С. Полякова [и др.], под редакцией В. С. Полякова. — Оренбург : Оренбургская государственная медицинская академия, 2011. — 193 с. // Цифровой образовательный ресурс IPR SMART : [website]. — URL:

https://www.iprbookshop.ru/31850.html

Чернобай, Г. Н. Частная патологическая анатомия : учебное пособие. — Кемерово : Кемеровская государственная медицинская академия, 2011. — 236 с. — Текст : электронный // Цифровой образовательный ресурс IPR SMART : [website]. — URL: https://www.iprbookshop.ru/6095.html

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

11-2024 Page 31 of 36

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus) Educational program 6B 10115 "Medicine"

Патологиялық проц. мен аурулардың морф. көріністерінің салыст. сипаттамасы. Манекенова К.Б., Омаров Т.М., Досмамбетова Ж.Қ., Смайлова Г.Қ., Дүкенбаева Б.А., 2019 ЦБ Aknurpress

11. https://www.aknurpress.kz/reader/web/1452

Түсіпбекова М.М.Клиникалық патоморфология / М.М.Түсіпбекова. –Алматы: «Эверо» баспасы, 2020.-188 б Эпиграф

12. https://www.elib.kz/ru/search/read\_book/462/

Дукенбаева Б.А.Жалпы патологиялық анатомияның екінші бөлімі: «Қанайналым бұзылыстары». – Оқу құралы. Алматы: Эверо, 2020. – 120 б Эпиграф https://www.elib.kz/ru/search/read\_book/4197/ Кисманова Г.Н..Жалпы патологиялық процестер нұсқауы. Оқулық..- Алматы: Эверо, 2020. – 92 бет

13. https://www.elib.kz/ru/search/read\_book/861/

Ә.Т. Раисова, С.Б. Байқошқарова «Қалыпты және патология жағдайындағы балалар мен жасөспірімдер гинекологиясы». – Алматы: «Эверо», 2020 ж. - 224 бет Эпиграф

https://www.elib.kz/ru/search/read\_book/815/

Каракушикова А.С., Рахимова К.В., Абдуллаева Г.М Перинатальная патология у недоношенных детей: клинико-иммунологическая диагностика, лечение и реабилитация: Эверо, 2020. — 186 Эпиграф 14. https://www.elib.kz/ru/search/read\_book/846/

Іш қуысының анатомиясы және хирургиялық операция әдістері: 1-том. Оқу құралы/Алибеков А.Е.// Алматы, Эверо, 2020. -316 б. Эпиграф https://www.elib.kz/ru/search/read book/6466/

Бас және мойынның клиникалық анатомиясы Қайырбекова Қ.Қ. , – Алматы: Эверо, 2017 ЦБ Aknurpress https://www.aknurpress.kz/reader/web/1850

Есту, сөйлеу және көру мүшелерінің анатомиясы, физиологиясы, патологиясы. Туғанбекова К.М.,

Ахметова Н.Ш., Тамабаева М.К. , — Қарағанды, 2019 https://www.aknurpress.kz/reader/web/1041

Құраш, А. Ғ. Бастың және мойынның қабыну аурулары Т. 2 [Мәтін] : оқулық / А. Ғ. Құраш. - Алматы : New book, 2022 Мулти мед учеб

https://mbook.kz/viewer/course/854

Зубрицкий, М. Г. Атлас по патологической анатомии = Atlas of pathological anatomy : учебное пособие. — Минск : Вышэйшая школа, 2021. — 272 с. // Цифровой образовательный ресурс IPR SMART : [website]. — URL: https://www.iprbookshop.ru/119965.html

#### Literature

#### Main:

#### **Basic Literature**

#### **Propaedeutics and Internal Medicine**

Василенко, В. Х. Пропедевтика внутренних болезней. Т. 1. : Учебник / В. Х. Василенко, В. В. Василенко ; . - Алматы : Newbook, 2021. - 400. с.

Василенко, В. Х. Пропедевтика внутренних болезней. Т. 2. : Учебник / В. Х. Василенко, В. В. Василенко ; . - Алматы : Newbook, 2021. - 212. с.

Василенко, В. Х. Пропедевтика внутренних болезней. Т. 3. : Учебник / В. Х. Василенко, В. В. Василенко ; . - Алматы : Newbook, 2021. - 208. с.

Мухин, Н. А.Ішкі аурулар пропедевтикасы: оқулық. - М.: ГЭОТАР - Медиа, 2015. - 672 бет-

Василенко, В. Х. Ішкі аурулар пропедевтикасы. Т. 1. [Мәтін] : оқулық / В. Х. Василенко, В. В. Василенко ; мем. тілге ауд. К. Асқамбай. - Алматы : Эверо, 2015. - 336 б. с

Василенко, В. Х. Ішкі аурулар пропедевтикасы. Т. 2 [Мәтін] : оқулық / В. Х. Василенко, В. В. Василенко ; мем. тілге ауд. К. Асқамбай. - Алматы : Эверо, 2015. - 176 б. с

Василенко, В. Х. Ішкі аурулар пропедевтикасы. Т. 3 [Мәтін] : оқулық / В. Х. Василенко, В. В. Василенко ; мем. тілге ауд. К. Асқамбай. - Алматы : Эверо, 2015. - 192 б. с

Айтбембет, Б. Н.Ішкіағза ауруларының пропедевтикасы: оқулық Алматы: Эверо, 2014. - 568 бет.-

Маколкин, В. И. Ішкі аурулар : оқулық. - М.: ГЭОТАР - Медиа, 2014. - 976 бет

Гребенев, А. Л. Пропедевтика внутренних болезней [Text] : учебник / А. Л. Гребенев. - 5-е изд., перераб. и доп. - Алматы : Эверо, 2014. - 520 с

"Тынысалужүйесі"модулі: интеграцияланғаноқулық = Модуль "Дыхательная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 272 бет. с.

"Жүрек-қан тамырлар жүйесі" модулі : интеграцияланған оқулық = Модуль "Сердечно-сосудистая система" : интегрированный учебник / С. Б. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 344 бет. с. : ил.

Department of Pathology and Forensic Medicine

Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology

Department of Propaedeutics and Internal Medicine

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

"Ас қорытужүйесі"модулі: интеграцияланғаноқулық = Модуль"Пищеварительная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәугікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 376 бет. с. : ил.

"Зәршығаружүйесі"модулі: интеграцияланғанокулық = Модуль "Мочевыделительная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. :Литтерра, 2014. - 256 бет. с. : ил.

"Қан түзуші жүйесі" модулі: интеграцияланған окулық = Модуль "Кроветворная система": интеграционный учебник / С. К. Жауғашева [ж. б.]; жауапты ред. С. Б. Жәугікова, С. Д. Нұрсұлтанова. - М.: "Литтерра", 2014. - 288 бет. с.

"Эндокриндік жүйе" модулі: интеграцияланған оқулық = Модуль"Эндокринная система" : интеграционный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәугікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 328 бет. с.

"Тірек-қимылжүйесі" модулі :интеграцияланғанокулық = Модуль"Опорно-двигательная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. :Литтерра, 2014. - 240 бет. с. : ил.

"Жүйкежүйесі" модулі: интеграцияланғанокулық = Модуль"Нервная система" : интегрированный учебник / С. К. Жауғашева [ж. б.] ; жауапты ред. С. Б. Жәутікова, С. Д. Нұрсұлтанова. - М. : "Литтерра", 2014. - 264 бет. с. : ил.

Vasilenko, V. K. Propaedeutics of internal diseases. 1-volume: textbook / - Almaty: "Evero", 2017. - 364 p.

Vasilenko, V. K. Propaedeutiks of internal diseases. 2- volum : textbook /. - Almaty : "Evero" , 2017. - 364 p.

Vasilenko, V. K. Propaedeutics of internal diseases. 3- volume : textbook /. - Almaty : "Evero" , 2017. - 188 p

#### **Supplementary Literature**

#### **Propaedeutics and Internal Medicine**

Омаров, Т. Р. Неотложные состояния в клинике внутренних болезней [Текст] : учебное пособие / Т. Р. Омаров, В. А. Омарова. - Караганда : АҚНҰР, 2019. - 518 с

Диагноз при заболеваниях внутренних органов. Формулировка, классификации [Текст] : учебное пособие / под ред. В. А. Ахмедова. - М. : ГЭОТАР - Медиа, 2016. - 256

Мухин, Н. А. Избранные лекции по внутренним болезням [Текст] : лекция / Н. А. Мухин. - 2-е изд. - М. : ГЭОТАР - Медиа, 2017. - 328 с.

Ішкі аурулар бойынша объективтендірілген құрамдастырылған клиникалық емтихан : оқу-әдістемелік құрал = Объективный структурированный клинический экзамен по внутренним болезням : учебно методическое пособие / М. Оспанов атындағы БҚММУ ; құрас. Қ. Ж. Ахметов [ж.б.]. - М. : "Литтерра", 2016. - 368 б.

Сырқатнама: оқу-әдістемелік құрал / Г. М. Есенжанова [Ж. б.]; ҚР денсаулық сақтау және әлеуметтік даму Министрлігі. - 2-бас. толық. және өңд. - Қарағанды: ЖК "Ақнұр", 2015. - 80 с

Ахметов К.Ішкі аурулар пропедевтикасы пәнінің клиникалық дәрістері;оқу құралы

#### **PChD**

- 1. Issayeva, L. A. Childhood diseases. Part 1.: textbook /. Almaty: "Evero", 2017. 204 p.
- 2. Issayeva, L. A. Childhood diseases. Part 2.: textbook / Almaty : "Evero" , 2017. 188 p.
- 3. Issayeva, L. A. Childhood diseases. Pfrt 3.: textbook / Almaty: "Evero", 2017. 188 p.
- 4. Issayeva, L. A. Childhood diseases. Part 4. [: textbook / Almaty : "Evero", 2017. 196 p.
- 5. Mazurin, A. V. Propaedeutics of childhood diseases. 1 volume [: textbook / Almaty: "Evero", 2017. 144 p
- 6. Mazurin, A. V. Propaedeutics of childhood diseases. 2 volume]: textbook / Almaty: "Evero", 2017. 172 p.
- 7. Mazurin, A. V. Propaedeuutics of childhood diseases. 3 volume [: textbook / Almaty: "Evero", 2017. 140 p.
- 8. Mazurin, A. V. Propaedeutics of childhood diseases. 4 volume: textbook / Almaty: "Evero", 2017. 136 p.

#### Biochemistry

#### Main:

Кэмпбелл М.К., Биохимия, 1-часть, Алматы-2013;

- 2. Биохимия: учебник / под ред. Е. С. Северина. 5-е изд., испр. и доп. -М.: ГЭОТАР Медиа, 2011.
- 3. Руководство к практическим занятиям по биологической химии: учеб.-методическое рук. для студентов мед. ВУЗов / под ред. С. О. Тапбергенова. Алматы: Эверо, 2012. 150 с.

11-2024 Page 32 of 36

#### Department of Biology and Biochemistry Department of Pathology and Forensic Medicine

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

4. Биологическая химия с упражнениями и задачами : учебник / под ред. С. Е. Северина. - М. : ГЭОТАР - Медиа, 2011. - 624 с. +эл. опт. диск (CD-ROM)

11-2024

Page 33 of

36

#### **Supplementary:**

- 1. Биохимия, под ред. Чл.-корр. РАН, проф. Е.С. Северина.- М., 2011
- 2. Тапбергенов С.О. «Медицинская и клиническая биохимия».- Эверо, 2017.Ітом;
- 3. Тапбергенов С.О. «Медицинская и клиническая биохимия».- Эверо

#### Pathological Physiology:

#### Main:

- 1. Патофизиология. 2 томдық. 1 т.: окулық / қазақтіл. ауд. Б. А. Жетпісбаев ; ред. В. В. Новицкий. М. : ГЭОТАР Медиа, 2017. 640 бет.
- 2. Патофизиология. Екі томдық. 2 т. :оқулық / қазақтіл. ауд. С. Б. Жәутікова ; ред. В. В. Новицкий. М. : ГЭОТАР Медиа, 2018. 464 б. +эл. опт.диск (CD-ROM).
- 3. Нұрмұхамбетұлы, Ә. Клиникалық патофизиология. І том: оқулық Патофизиология-ІІ және оның клиникалық медицинадағы мәселелеріне нұсқама. 2-ші бас. Алматы :Эверо, 2016. 180б. с.
- 4. Нұрмұхамбетұлы, Ә. Клиникалық патофизиология. 2 -т. Патофизиология 2 және оның клиникалық медицинадағы маңызды мәселелеріне нұсқама :оқулық. 2-ші бас. Алматы :Эверо, 2016. 252 бет.
- 5. Нұрмұхамбетұлы, Ә. Клиникалық патофизиология. 3 т. Патофизиология ІІ және оның клиникалық медицинадағы маңызды мәселелеріне нұсқама: оқулық. 2-ші бас. Алматы :Эверо, 2016. 248 бет.
- 6. Нұрмұхамбетұлы, Ә. Патофизиология. 1 том :оқулық / Ә. Нұрмұхамбетұлы. өңд., толықт. 3-бас. Алматы :Эверо, 2015. 182 бет
- 7. Нұрмұхамбетұлы, Ә. Патофизиология. 2 том: оқулық / Ә. Нұрмұхамбетұлы. өңд., толықт. 4-бас. Алматы :Эверо, 2015. 214 бет
- 8. Нұрмұхамбетұлы, Ә. Патофизиология. 3 том: оқулық / Ә Нұрмұхамбетұлы. өңд., толықт. 4- бас. Алматы: Эверо, 2015. 216 бет
- 9. Нұрмұхамбетұлы, Ә. Патофизиология. 4 том: оқулық / Ә. Нұрмұхамбетұлы. өңд., толықт. 4-бас. Алматы: Эверо, 2015. 154 бет
- 10. Патофизиология : окулық. 2 томдық. 1 том / қазақ тіл. ауд. Б. А. Жетпісбаев ; ред. В. В. Новицкий. 4-бас. өңд. толық. М. : ГЭОТАР Медиа, 2017. 640
- 11. Патофизиология : оқулық. 2 томдық. 2 том / қазақ тіл. ауд. С. Б. Жәутікова ; ред. В. В. Новицкий. 4-бас. өңд. толық. М. : ГЭОТАР Медиа, 2018. 464 б. +эл. опт. диск (CD-ROM).
- 12. Патологическая физиология. Т. 1 : учеб. для мед. вузов / ред. А. Д. Адо [и др.]. Алматы : Эверо, 2014. 244 с.
- 13. Патологическая физиология. Т. 2 : учебник для мед. вузов / А. Д. Адо [и др.]. Алматы : Эверо, 2015. 216 с.
- 14. Ефремов, А. В. Патофизиология. Основные понятия: учебное пособие / А. В. Ефремов, Е. Н. Самсонова, Ю. В. Начаров. М.: ГЭОТАР Медиа, 2010. 256 с.
- 15. Фролов, В. А. Общая патологическая физиология : учебник / Рек. учебно-метод. объед. по мед. и фарм. образ. вузов России. М. : Издательский дом "Высшее образование и Науки", 2013. 568 с. : ил.
- 16. Патологическая физиология (Общая и Частная) : учебник / В.А. Фролов [и др.]. 4-е изд.,пер.и доп. М. : Издательский дом "Высшее образование и наука", 2019. 730 с.
- 17. Ахметова , Н. Ш. Анатомия, физиология, патология органов слуха, речи, зрения [Текст] : учебное пособие. 3-е изд. Караганда : АҚНҰР, 2019. 192 с
- 18. Патофизиология. В 2 т. Т. 2 [Текст] : учебник / под ред. В. В. Новицкого, Е. Д. Гольдберга, О. И. Уразовой ; М-во образования инауки РФ. 4-е изд., перераб. и доп ; Рек. ГОУ ВПО "ММА им. И. М. Сеченова". М. : ГЭОТАР Медиа, 2012. 640 с. + эл. опт. диск (CD-ROM)
- 19. Патофизиология. В 3 т. Т. 3 [Текст] : учебник / А. И. Воложин [и др.] ; под ред. А. И. Воложина, Г. В. Порядина. Рек. УМО объед. по мед. и фарм. образованию вузов России в качестве учебника. М. : Академия, 2006. 304 с. (Высшее проф. образование).
- 20. Jain, A. K. Textbook of physiology: textbook. Vol. 1 / A. K. Jain. 6 th ed. Nev Delhi: Avichal publishing сотрану, 2015. 590 р.Перевод заглавия: Учебник физиологии
- 21. Jain, A. K. Textbook of physiology: textbook. Vol. 2 / A. K. Jain. 6nd ed. Nev Delhi: Avichal publishing сотрану, 2015. 1121 р. Перевод заглавия: Учебник физиологии
- 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 Тг. Перевод заглавия: Патофизиология Porth's: концепции измененных состояний здоровья

Department of Pathology and Forensic Medicine

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

Department of Pediatrics-1

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

11-2024 Page 34 of 36

- 23. Pathophysiology. Volume 1.: the book for medical institutes / A. D. Ado [and others]. Almaty: "Evero", 2017. 216 p.
- 24. Pathophysiology. Volume 2. : the book for medical institutes / A. D. Ado [and others]. Almaty : "Evero", 2017. 188 p.
- 25. Pathophysiology. Volume 3. : the book for medical institutes / A. D. 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, N. M. Physiology of the digestive system: teaching textbook / N. M. Kharissova. Алматы: Эверо, 2016. 428 р.

#### **Supplementary:**

- 1. Патологиялық физиология. Тәжірибелік сабақтарған ұсқау:оқу құралы = Патофизиология. Руководство к практическим занятиям : учеб.пособие / В. В. Новицкий [ж. б.]; ред. басқ. В. В. Новицкий, О. И. Уразова ; қаз. тіліне ауд. С. Б. Жәутікова. М. : ГЭОТАР Медиа, 2014. 768 бет.с.
- 2. Уразалина, Н. М. Тест тапсырмалары. ІІ-бөлім. Біртектесдерттікүрдістер: Алматы :Эверо, 2014. 184 бет.
- 3. Жәутікова, С. Б. Мамандандырылған патологиялық физиология курсы: оқу-әдістемелік құралы / С. Б. Жәутікова, Е. Қ. Өмірбаева ; ҚР денсаулық сақтау министрлігі; ҚММУ. Қарағанды : ЖК "Ақнұр", 2013. 268 бет.
- 4. Жәутікова, С. Б. Патологиялық физиология пәні бойынша ситуациялық есептер жинағы: оқуәдістемелікқұрал . Қарағанды : ЖК "АқНұр 2013
- 5. Патофизиология. Задачи и тестовые задания: учеб.-методическое пособие / под ред. П. Ф. Литвицкого ; М-во образования и науки РФ. ; Рек. ГОУ ВПО "ММА им. И. М. Сеченова". М. : ГЭОТАР Медиа, 2013. 384 с. : ил
- 6. Роуз, Алан Г. Атлас патологии. Макро- и микроскопические изменения органов: атлас: пер. с англ. под ред Е. А. Коган / Алан Г. Роуз ; ред. Е. А. Коган. М. : ГЭОТАР Медиа, 2010. 576 с.
- 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 Тг. Перевод заглавия: Роббинс и Котран Атлас патологии

#### Pathological anatomy:

#### Main

- 1. Ахметов, Ж. Б. Патологиялық анатомия. Т.1: оқулық / Ж. Б. Ахметов. Алматы : New book, 2022. 360 бет.
- 2. Ахметов, Ж. Б. Патологиялық анатомия. Т.2: оқулық / Ж. Б. Ахметов. Алматы : New book, 2022. 344 бет.
- 3. Роббинс дерттану негіздері (жалпы бөлім). 1 : оқулық / ред. В. Кумар [ж/б]. / Қазақ тіліне аударған Қ. Қарымбаев ; ҚР білім және ғылым министірлігі. Алматы : Эверо, 2014. 480 бет
- 4. Манекенова К.Б. Патологиялық процестер мен аурулардың морфологиялық көріністерінің салыстырмалы сипаттамасы. Оқу құралы. "Sky Systems" 2019
- 5. Ахметов, Ж. Б. Патологиялық анатомия: окулық. М.: "Литтерра", 2016. 792 бет с.
- 6. Струков, А. И. Патологиялық анатомия :оқулық /. М. : ГЭОТАР Медиа, 2015. 984 бет.
- 7. Патология. Екі томдық. 1 том.:оқулық / Ред. бас. М. А. Пальцев, Қаз. тіл. ауд. С. А. Апбасова. М. : ГЭОТАР Медиа, 2015. 536 бет с. : ил.
- 8. Ахметов, Ж. Б. Патологиялық анатомия :оқулық / Ж. Б. Ахметов. ; ҚР денсаулықсақтауминистрлігі. Алматы :Эверо, 2014. 700 бет.
- 9. Патологическая анатомия. Т.1. Общая патология : учебник: в 2-х томах / под ред. В. С. Паукова. 2-е изд. доп. М. : ГЭОТАР Медиа, 2020. 720 с.
- 10. Патологическая анатомия. Т.2. Частная патология : учебник: в 2-х томах / под ред. В. С. Паукова. 2-е изд. доп. М. : ГЭОТАР Медиа, 2020. 528 с.
- 11. Струков, А. И. Патологическая анатомия : учебник. 6-е изд., перераб. и доп. М. : ГЭОТАР Медиа, 2021. 880 с.
- 12. Манекенова К.Б. Сравнительная характеристика морфологических проявлений патологических процессов и заболеваний. Учебное пособие. "Sky Systems" 2019
- 13. Есиркепов, М. М.Патологическая анатомия генома: учеб.-наглядное пособие Караганда: ИП "Издво АҚНҰР", 2013
- 14. Kumar , V. Robbins Basic Pathology : textbook / V. Kumar , A. K. Abbas, J. C. Aster. 10 nd ed.  $[S.\ 1.]$  : Elsevier, 2017. 930 p.

Department of Biology and Biochemistry
Department of Pathology and Forensic Medicine
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology
Department of Propaedeutics and Internal Medicine
Department of Pediatrics-1

11-2024 Page 35 of 36

Working studying program of the discipline "Urogenital system in pathology" (Syllabus)

Educational program 6B 10115 "Medicine"

- 15. Kumar , Vinay Robbins and Cotran. Pathologic Basis of Disease : south Asia edition. Vol. 2 / V. Kumar , Abyl K. Abbas, Jon C. Aster. 9nd ed. [S. l.] : Reed Elsevier india private limmed, 2015. 1391 p. .

  16. Kumar , Vinay Robbins and Cotran. Pathologic Basis of Disease : south Asia edition. Vol. 1 / V. Kumar , Abyl K. Abbas, Jon C. Aster. 9 nd ed. [S. l.] : Reed Elsevier india private limmed, 2015. 1391 p. Supplementary:
- 1. Патологиялық анатомия атлас: = Патологическая анатомия : атлас: учеб. пособие М. : ГЭОТАР Медиа, 2014.
- 2. Кисманова, Г. Н. Жалпы патологиялық процестер нұсқауы : оқу құралы / Г. Н. Кисманова. Алматы : Эверо, 2010. 122 бет.
- 3. 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". М. : ГЭОТАР Медиа, 2016. 176 с. -
- 4. Патологическая анатомия. Руководство к практическим занятиям: учебное пособие / М-во образ. и науки РФ. Рек. ГБОУ ВПО "Первый МГМУ им. И. М. Сеченова"; Под. ред. О. В. Зайратьянца, Л. Б. Тарасовой. 2-е изд., испр. и доп. М.: ГЭОТАР Медиа, 2015. 696
- 5. Патологическая анатомия. Руководство к практическим занятиям [Текст] : учебное пособие / ред. О. В. Зайратьянца. 2-е изд., испр. и доп. М. : ГЭОТАР Медиа, 2021. 696 с.
- 6. Тусупбекова, М. М. Клиническая патоморфология: монография / М. М. Тусупбекова. Алматы :Эверо, 2016. 184 с.
- 7. Тусупбекова, М. М. Морфологический атлас общепатологических процессов: учебное пособие. Алматы: Эверо, 2016. 164 с.
- 8. Моисеев, В. С. Острая сердечная недостаточность : руководство / В. С. Моисеев, Ж. Д. Кобалава. М. : ООО "Медицинское информационное агентство", 2012. 328 с
- 9. Роуз, Алан Г. Атлас патологии. Макро- и микроскопические изменения органов [Текст] : атлас: пер. с англ. под ред Е. А. Коган / Алан Г. Роуз ; ред. Е. А. Коган. М. : ГЭОТАР Медиа, 2010. 576 с 10. Синельников, А. Я. Атлас микроскопической патологии человека: учеб. пособие. ; Рек. Учеб.-

методическим об-нием по мед. и фарм. образованию вузов России. - М. : Новая волна : Издатель Умеренков, 2007. - 320 с.

11. Klatt, Edward C Robbins and Cotran Atlas of Pathology : textbook / Edward C. Klatt. - 3th ed. - Philadelphia

: Elsevier Saunders, 2014. - 587 p. Klatt, Edward C. Robbins and Cotran Atlas of Pathology: textbook / Edward C. Klatt. - 3th 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 valid 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;

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 36 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	
Educational program 6B 10115 "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 grade for the midterm assessment will be reduced
- 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
- 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 delivered 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 controls (ME 1, ME 2, average grade of the

# current rating) is not admitted to the final control for the discipline. Academic policy based on the moral and ethical values of the academy 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. **Final score** (100%) = RD (60%) + FC (40%)RA (60%) = ME avg (20%) + CC avg (40%) $\mathbf{ME} \ \mathbf{avg} = (\mathbf{ME1} + \mathbf{ME2})/2$ Final score (100%) = ME avg x 0.2 + CC avg x 0.4 + FC x 0.4

**RA** – rating of admission

FC – assessment of final control

ME avg – average score of midterm control, taking into account penalty points

CC av – average assessment of current control taking into account SIW

**ME 1** – midterm examination 1

**ME 2** – midterm examination 2

14. Approval and revision			
Date of agreement with the library	Protocol No	Head of the BIC	Signature
and information center		Darbicheva R.I.	
Date of approval for Academic	Protocol No	Full name of the Chairman of	Signature
Committee of the Working		the AK OP	
Program			
Date of approval at the	Protocol No	Full name of the head	Signature
department			
Date of revision at the department	Protocol No	Full name of the head	Signature
Date of revision on Academic	Protocol No	Full name of the Chairman of	Signature
Committee of the Working		the AK OP	
Program			

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 37 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	
Educational program 6B 10115 "Medicine"	

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 38 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	
Educational program 6B 10115 "Medicine"	

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 39 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	
Educational program 6B 10115 "Medicine"	

Department of Biology and Biochemistry	11-2024
Department of Pathology and Forensic Medicine	Page 40 of
Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	36
Department of Propaedeutics and Internal Medicine	
Department of Pediatrics-1	
Working studying program of the discipline "Urogenital system in pathology" (Syllabus)	]
Educational program 6B 10115 "Medicine"	