#### OŃTÚSTIK QAZAQSTAN SOUTH KAZAKHSTAN SKM/ **MEDISINA MEDICAL AKADEMIASY ACADEMY** АО «Южно-Казахстанская медицинская академия» «Оңтүстік Қазақстан медицина академиясы» АҚ Department of Morphophysiology 044-42/11 Department of Biology and Biochemistry 044-46/11 Department of Phthisiopulmonology and Radiology 044-70/11 Syllabus on the discipline "Normal genitourinary system" 1p of 20 Educational program: "Dentistry'

## **Syllabus**

# Educational program: 6B10117 "Dentistry" Working curriculum (Syllabus) of the discipline "The genitourinary system is normal"

1.	General information about the discipline		
1.1	Discipline code: MSN 2209	1.6	Academic year: 2023-2024
1.2	<b>Title of the discipline:</b> "The genitourinary system is	1.7	Course:2
	normal"		
1.3	<b>Prerequisites:</b> introduction to the profession, structural	1.8	Semester:4
	organization of human physiological processes		
1.4	Postrequisites: pathological physiology, pathological	1.9	Number of credits (ECTS): 5/150
	anatomy		
1.5	Cycle:DB	1.10	Component:VK

# 2. Description of the discipline

formation of fundamental knowledge about the morphofunctional and biochemical features of the genitourinary system. The structure of the kidneys. Nephron. Structure of the ureter and bladder. The structure of male and female genital organs. Muscles and fascia of the perineum. Syntopy, holotopy, skeletopy of the genitourinary organs. Clinical and visual research methods.

3.	<b>Summative Assessment Form</b>		
3.1	Testing	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral	3.7	Project
3.4	☑OSPE/OSKE or practical skills reception	3.8	Other (specify)
4.	Goals of the discipline		

To develop in students systematic knowledge about the morpho-functional characteristics of the human body and its constituent systems, providing further training at clinical departments to master the professional skills of a dentist; to form in students knowledge of the macro-functional morphology of the structure and development of human organ systems, and especially the organs of the oral cavity, which provide the basis for the study of clinical disciplines and contribute to the formation of medical thinking.

5.	Final learning outcomes (RO disciplines)
LO1	Demonstrates knowledge of the general patterns of structure and functioning of the musculoskeletal
	system and skin, their regulatory mechanisms, and the chemical composition and biological functions
	of bones and skin;
LO2	Shows readiness to collect and analyze the patient's complaints, his medical history, examination
	results, laboratory, radiological, instrumental and other studies in order to establish the presence or
	absence of the disease.
LO3	Finds and distinguishes anatomical structures of the musculoskeletal system and skin
	in adults and children based on the results obtained (x-ray, fluorographic, ultrasound, computed
	tomography, magnetic resonance imaging)
LO4	Applies knowledge of the structure and topography of organs and systems to master the skills of
	physical examination and provision of first aid.
5.1	LO disciplines

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	LO1 LO2			clinic	al, e <sub>l</sub>	pider	niol	ogical	l, soc	io-b	ehav	ioral	scie	nces, o	contri		to th	edical, e form	
	LO3			LO2	Anal	yze p	patte	erns of	f gro	wth	and	develo	pm	ent, th	e stru	cture (	of the	body	in
	LO4					_		ogical ntal d			ns, t	o unde	ersta	ınd the	mec	hanisn	ns of		
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6.2	klinika_skma@mail.ru.  6.2 Number of Lectures Pr. Les. Lab. Les.					SRC P	SI	W											
					10					40						30	70	)	
6.3 D	iscipline s	study plan																	
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	diagnos tics																		

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7.	Information ab	out teachers					
No	FULL NAME	Degrees and position	Email address		Scientific interests, e	etc.	Achievement s
1.	Tanabaev Baymakhan Dilbarkhanovi ch	head of the department, acting prof.	b.tanabayev@m ail.ru	scie "Ma mic bed dur	e direction of entific research is acro- erohemocirculatory of the pelvic organs ing ligation of the ernal iliac arteries."	and pra on Kaz Rus	ves lectures I conducts ctical classes anatomy in zakh and ssian.
2.	Murzanova DinarAlpenov na	Ph.D., Acting professors	dina.murzanova @gmail.com	scie "Ac woı	e direction of entific research is dam anatomy of the rld".	Gives lectures and conducts practical classes on anatomy in Kazakh, Russian and English.	
3.	Turekulova Akzharkyn Kenesovna	senior lecturer, master	jarkin- 74@mail.ru	scie "Th the of r	The direction of scientific research is - "The effect of lead on the structure of the wall of main arteries in hot climates."		gives lectures I conducts ctical classes anatomy in the zakh language.
4	Daken Tolenovich Ospanov	senior teacher	dakenospanov@ list.ru			con ana in I Rus	lectures and nducts practical atomy classes Kazakh and ssian guages.
5	Jubanishbaeva Gauhar Niyazgovna	senior lecturer, master	gaukharai_kairat @mail.ru	scie "De pro wor	e direction of entific research is - etermining the blems of preventive rk in the course of blementation of IS"	and pra on	gives lectures I conducts ctical classes anatomy in the zakh language.
6	Ospanova Nasiba Bakhtiyarovna	teacher	Nasiba.ospanova. 1998@mail.ru			ana Kaz Rus	nducts practical atomy classes in zakh and ssian guages.

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7.         8.	Sisabekov Kasymkhan Ermekbaevich Zhumashev	Professor, doctor of medical science  Acting professor,	sisabekov47@m ail.ru sult_med@mail.	"Morphological basis of local mechanisms of neuroimmunogenesis."  Scientific direction:	He lectures and conducts practical classes on histology in Kazakh and Russian languages.  Gives lectures and
	Seydaly Nurakhovich	doctor of medical sciences	ru	"Study of the morphological structure of hemo- immunopoiesis"	conducts practical classes on histology in Kazakh and Russian.
9.	Toimbetova Karlygash Abibullaevna	senior teacher	tojmbetova71@ mail.ru	Scientific direction: "neuromorphology"	Gives lectures and conducts practical classes on histology in Kazakh and Russian languages
10.	Zhakipbekova Galiya Saparovna	Candidate of Biological Sciences, acting professors	Galiya 074@m ail.ru	"The influence of bioslastilin on the processes of lipid peroxidation in hepatocytes and blood plasma during phosphorus intoxication" conducts work on the topic, defended the candidate's thesis.	The author has 35 scientific publications, prepared 1 prepatent, 1 patent.
11.	Satybaldieva Nazgul Mutalkhanovn a	master, senior teacher	n_a_z_i_92@m ail.ru	Conducts research work on the topic "Socio- medical problems of disability caused by diseases of the respiratory system". Author of 11 scientific publications.	He gives lectures and conducts practical classes on physiology in Kazakh and Russian.
12.	Murina Natalya Mikhailovna	senior teacher	namuri12@mail .ru	The author has 9 scientific publications.	He gives lectures and conducts practical classes on physiology in Kazakh and Russian.

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week/ day		opic Summ ame	ary	LO discipli ne	r	mbe of ours	Forms/met hods/ educationa	asse	Forms/ essment methods
8.	Thematic plan	lecture							articles
21	Tulegenova Aigul Asanbaevna	assistant department	taa8 u	taa8009@mail.r u		Ultrasound of organs in children		s in	master, doctor of radiology diagnostics. More than 20 scientific
20	Umiraliev Aset Amiralievich	assistant department	72@	t.umiraliye ∮mail.ru			minal cavity	the	higher category, doctor of radiological diagnostics. More than 8 scientific articles
19	Umurzakova Gauhar Amangeldievn a	assistant department		al_diagnos mal.ru	sti	diagn	onuclide ostics of ry system	the	higher category, doctor radiologist More than 12 scientific articles
18	Zhienbaeva A.	teacher							1 scientific publication
17	Kanjigitova M.Zh.	Art. teacher	mol	ya@mail.r	u				
16	Beisebaeva L.M.	Art. teacher	lyzz u	atb70@lis	t.r	clinic labora mode the	nnization al and diagno atory service rn conditions Republic khstan"	in	The author has 4 scientific publications
15	Asilbekova G.K.	master biology, Art. teacher		nats@mail.			oelementosis"		The author is the author of 10 scientific publications, 1 textbook
14	Ordabekova A.B	master biology, Art. teacher	asm ru	ira75@ma	il.		oelementosis"		The author is the author of 20 scientific publications, 1 textbook
13	Kenzhebekov P.K.	Candidate of Chemical Sciences, professor		kenzhebekov.p @gmail.com		of volume of volume	stigation of the ical composition latile aroma- ng compounds meat products	on s in	The author is the author of 42 scientific publications, 1 textbook

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						technologi es	
1	Anatom y. Lecture No. 1	Morphofu nctional characteri stics of the organs of the urinary system.	Kidneys, structure, topography, kidney membranes. Ureter. Bladder. Urethra.	LO1 LO3 LO4	1	Introductor y	Feedback (control questions)
	Physiolo gy. Lecture No. 1	Physiolog y of the excretory system.	Excretory functions of the kidneys, lungs, skin. Mechanism of urine formation. Filtration. Reabsorption. Secretion.	LO1 LO3 LO4	1	Introductor y	Feedback (control questions)
	Histolog y Lecture No. 1	Histology of the genitourin ary system.	General morphofunction al characteristics. Kidneys, structure of the cortex and medulla. General morphofunction al characteristics of the reproductive system. Testes, structure and functional significance. Ovaries, structure and functional significance.	LO1 LO3 LO4	1	Review lecture.	Answers to security questions.
	Bioche mistry Lecture No. 1	Biochemi stry of the kidneys.	Biochemistry of the kidneys.	LO1 LO3 LO4	1	Review	Feedback Questions

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Basics of radiatio n diagnost ics Lecture No. 1	Radiation anatomy of the urinary system. Methods of radiologic	Visual radiation anatomy of the urinary system. Methods of radiological examination of the urinary tract	LO 2 LO 4	1	Overview - illustrative	Feedback
	al examinati on of the urinary system					
Anatom y. Lecture No. 2	Morphofu nctional characteri stics of male genital organs.	Testicles. Vas deferens. Seminal vesicles. The spermatic cord and testicular membranes. Penis. Male urethra. Prostate.	LO1 LO3 LO4	1	Introductor y	Feedback (control questions)
Physiolo gy. Lecture No. 2.	Regulatio n of secretion	Regulation of secretion	LO1 LO3 LO4	1	Review lecture.	Feedback (control questions)
Bioche mistry Lecture No. 2	Regulatio n of water-salt metabolis m.	Mechanisms of action of aldesterone and vasopressin on diuresis.	LO1 LO3 LO4	1	Review	Feedback Questions
Anatom y. Lecture No. 3	Morphofu nctional characteri stics of the female genital organs.	Ovary. The fallopian tubes. Uterus. Vagina. External genitalia.	LO1 LO3 LO4	1	Introductor y	Feedback (control questions)
Physiolo gy. Lecture No. 3.	Human reproducti ve functions.	Functions of female and male genital organs.	LO1 LO3 LO4	1	Review lecture.	Feedback (control questions)

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Anatom y. Practical lesson No. 1	Kidney, ureter: structure, topograph y and functions.	Structure and topography of the kidney. Kidney fixation. Kidney membranes. Renal pelvis, calyces and ureter. Fornical apparatus of the renal calyces.	LO1 LO3 LO4	2	work in small groups with anatomical preparation s, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral interview checklist; Checklist for solving situational problems; Checklist for completing test tasks
Histolog y. Practical lesson No. 1	Organs of the urinary system	Morphofunctio nal characteristics. Kidney structure. Nephron. Histophysiolog y of the nephron. Features of the blood supply to the kidney. Urinary tract.	LO1 LO3 LO4	1	Work in small groups, checklist of histo preparation s, microphoto graphs	Practical lesson assessment checklist.
Physiolo gy. Practical lesson No. 1	Excretory functions of the kidneys.	Excretory functions of the kidneys. Structure and functions of the nephron.	LO1 LO3 LO4	2	discussing the main issues of the topic, completing test tasks, solving situational problems.	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
Histolog y	Organs of the male	Morphofunctio nal characteristics	LO1 LO3 LO4	1	Work in small groups,	Practical lesson assessment checklist.

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Practical lesson No. 2	reproducti ve system	of the reproductive system. Structure of the testes and spermatogenesi s. Vas deferens. Accessory glands of the male reproductive system.			checklist of histo preparation s, microphoto graphs	
Bioche mistry Practical lesson No. 1	Biochemi stry of the kidneys.	Biological functions of the kidneys. Urinary function of the kidneys.	LO1 LO3 LO4	2	seminar, situational tasks	Check list
Basics of radiolog y diagnost ics Practical lesson No. 1	Radiation anatomy of the urinary system. Methods of radiologic al examinati on of the urinary system. Sonograp hy. Plain radiograp hy of the abdominal area.	Radiation anatomy of the urinary system. Methods of radiological examination of the urinary system. Sonography. Plain radiography of the abdominal area.	LO2 LO4	1	discussion, work with provided radiological images	oral questioning, description of images, solving test tasks, solving crossword puzzles, working with radiological images
Anatom y. Practical	Structural and functional	The structure of the nephron. Kidneys: blood supply,	LO1 LO3 LO4	2	work in small groups with anatomical	Oral interview checklist; Checklist for solving situational problems;

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lesson No. 2.	unit of the kidney.	innervation, venous and lymphatic drainage.			preparation s, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Checklist for completing test tasks
Physiolo gy. Practical lesson No. 2.	Processes of urine formation.	Basic processes of urine formation. Composition of final urine.	LO1 LO3 LO4	1	discussing the main issues of the topic, completing test tasks, solving situational problems.	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
Bioche mistry Practical lesson No. 2	Properties of urine.	Physico- chemical properties and chemical composition of urine of a healthy person. Daily urinary excretion of metabolites is normal.	LO1 LO3 LO4	2	seminar, situational tasks, testing	Check list
Basics of radiolog y diagnost ics Practical lesson No. 2	Methods of radiologic al examinati on of the urinary system. Intraveno	Methods of radiological examination of the urinary system. Intravenous urography. Pyelography.	LO2 LO4	1	discussion, work with provided radiological images	oral questioning, description of images, solving test tasks, solving crossword puzzles, working with radiological images

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	us urography Pyelograp hy.					
Anat y. Pract lesso No. 3	Urethral canal.	Bladder, urethra: structure, topography, functions.	LO1 LO3 LO4	1	work in small groups with anatomical preparation s, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral interview checklist; Checklist for solving situational problems; Checklist for completing test tasks
Phys gy. Pract lesso No. 3	n of urine formation processes.	Nervous and humoral regulation of urinary processes.	LO1 LO3 LO4	2	discussing the main issues of the topic, completing test tasks, solving situational problems.	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
History Pract lesso No. 3	the female reproducti ve	Embryonic sources and course of development. The structure of the ovaries, oogenesis and development of the corpus luteum.	LO1 LO3 LO4	1	Work in small groups, checklist of histo preparation s, microphoto graphs	Practical lesson assessment checklist.

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Bioche	Electrolyt	Water and	LO1	2	seminar,	Check list
mistry	e	minerals of		<i>≟</i>	situational	CHECK Hot
Practical	compositi	human tissues,	LO3		tasks	
lesson	on of	their biological	LO4		tasks	
No. 3		functions.				
10. 5	body					
	fluids.	Electrolyte				
		composition of				
		body fluids.				
		Minerals and				
		their biological				
		functions.				
		Sodium-				
		potassium				
		homeostasis.				
		Mechanisms for				
		maintaining a				
		constant pH of				
		the internal				
	2	environment.	7.04			
Anatom	Male	Testicles. Vas	LO1	2	work in	Oral interview
<b>y.</b>	genital	deferens.	LO3		small	checklist;
Practical	organs:	Seminal	LO4		groups with	Checklist for solving
lesson	structure,	vesicles. The			anatomical	situational problems;
No. 4.	functions.	spermatic cord			preparation	Checklist for
		and testicular			s, torsos,	completing test tasks
		membranes.			dummies,	
		Penis. Male			tables,	
		urethra.			tablets,	
		Bulbourethral			posters, on	
		glands.			the	
		Prostate.			interactive	
					panel	
					"Pirogov"	
					and/or	
					solving test	
					tasks and	
					situational	
DI	7D1	0	T O 1	1	problems.	0.1
Physiolo	Thermore	Quantities,	LO1	1	discussing	Oral questioning,
gy.	gulation.	composition	LO3		the main	assessment of
Practical	Sweating.	and properties	LO4		issues of	practical work,
lesson		of sweat			the topic,	assessment of test
No. 4		Innervation of			completing	tasks, assessment of
		sweat glands			test tasks,	solutions to
					solving	situational problems

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		and regulation of their activity.			situational problems.	
Histolog y Practical lesson No. 4	Organs of the female reproducti ve system2.	Embryonic sources and course of development. The structure of the oviduct and uterus, vagina. Mammary gland in various functional states.	LO1 LO3 LO4	1	Work in small groups, checklist of histo preparation s, microphoto graphs	Practical lesson assessment checklist.
Bioche mistry Practical lesson No. 4	Regulatio n of water-salt metabolis m.	Regulation of water-salt metabolism. Mechanisms of action of aldesterone and vasopressin on diuresis. Reninangiotensinaldesterone system. Presulfur NUF (sodium uretic factor)	LO1 LO3 LO4	2	seminar, situational tasks, testing.	Check list
Physiolo gy. Practical lesson No. 5.	Non- excretory renal function	Humoral and metabolic functions of the kidneys. Maintaining the acid-base ratio.	LO1 LO3 LO4	2	discussing the main issues of the topic, completing test tasks, solving situational problems.	Oral questioning, assessment of practical work, assessment of test tasks, assessment of solutions to situational problems
Basics of radiolog y diagnost ics Practical lesson No. 3	Methods of radiologic al examinati on of the urinary system.	Methods of radiological examination of the urinary system.	LO 2 LO4	1	discussion, work with provided radiological images	oral questioning, description of images, solving test tasks, solving crossword puzzles, working with radiological images

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Anatom y. Practical lesson No. 5.	Muscles and fascia of the male perineum.	Crotch. Superficial and deep muscles of the genitourinary and pelvic diaphragm. Fascia of the perineum.	LO1 LO3 LO4	2	work in small groups with anatomical preparation s, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov"	Oral interview checklist; Checklist for solving situational problems; Checklist for completing test tasks
Basics of radiolog y diagnost ics Practical lesson No. 4	Intraveno us urography . Pyelograp hy. Angiogra phy of the kidneys.	Intravenous urography. Pyelography. Angiography of the kidneys.	LO 2 LO4	1	discussion, work with provided radiological images	oral questioning, description of images, solving test tasks, solving crossword puzzles, working with radiological images
Anatom y Practical lesson No. 6	Female genital organs: structure, topograph y, functions.	Ovary. The fallopian tubes. Uterus. Vagina. External genitalia.	LO1 LO3 LO4	1	work in small groups with anatomical preparation s, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral interview checklist; Checklist for solving situational problems; Checklist for completing test tasks
Physiolo gy.	Functions of the	Functions of the external and	LO1 LO3	2	discussing the main	Oral questioning, assessment of

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SOUTH KAZAKHSTAN **MEDICAL** 

# **ACADEMY**

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АО «Южно-Казахстанская медицинская академия»

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10	Practical esson No. 6.	female reproducti ve system.	internal female genital organs. Phases of the reproductive cycle. Pregnancy and maternal-fetal relationships. Lactation. Regulation.	LO4		issues of the topic, completing test tasks, solving situational problems.	practical work, assessment of test tasks, assessment of solutions to situational problems
y F	Anatom y Practical esson No. 7	Muscles and fascia of the female perineum.	Crotch. Superficial and deep muscles of the genitourinary and pelvic diaphragm. Fascia of the perineum.	LO1 LO3 LO4	2	work in small groups with anatomical preparation s, torsos, dummies, tables, tablets, posters, on the interactive panel "Pirogov" and/or solving test tasks and situational problems.	Oral interview checklist; Checklist for solving situational problems; Checklist for completing test tasks
g F	Physiolo By. Practical esson No. 7.	Functions of the male reproducti ve system.	Functions of the testes, prostate, bulbourethral glands and seminal vesicles.	LO1 LO3 LO4	40	discussing the main issues of the topic, completing test tasks, solving situational problems.	Oral questioning, evaluation of test tasks, solving situational problems.
g	Physiolo gy. SIW 1.	Non- excretory functions of the kidneys.	Endocrine, hematopoietic, metabolic and other functions of the kidneys.	LO1 LO3 LO4	2/4	Preparation and defense of presentatio ns.	Checklist for assessing SIW.

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Anatom y of SIW 1	Malforma tions of the organs of the urinary system.	Malformations of the kidneys, bladder, ureter and urethra.	LO1 LO3 LO4	2/4	Consultation on the most complex issues of the curriculum when performing SRO, work with educational literature, passing SRO in the form of:  Description of an anatomical specimen on the anatomical table "Pirogov"  presentation	Evaluation sheets for certain forms of completed assignments
Physiolo gy. SIW 2.	Excretory functions of the skin.	Structural and functional features of the sebaceous and sweat glands. Composition of sebum and sweat.	LO1 LO3 LO4	2/4	Preparation and defense of presentatio ns.	Checklist for assessing SIW.
Fundam entals of radiolog y diagnost ics SIW 1	Radiation anatomy of the urinary system. Methods of radiologic	Radiation anatomy of the urinary system. Methods of radiological examination of the urinary	LO 2 LO4	2/4	preparing presentatio ns, composing crossword puzzles, test tasks, situational	defending presentations, solving crossword puzzles, test tasks, situational problems, working with radiological images.

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	al examinati on of the urinary system. Sonograp hy. Plain radiograp hy of the abdomina l area.	system. Sonography. Plain radiography of the abdominal area.			tasks, working with radiological images	
Anatom y. SIW 2.	Malforma tions of the male genital organs.	Malformations of the penis and testicle.	LO1 LO3 LO4	2/4	Consultation on the most complex issues of the curriculum when performing SRO, work with educational literature, passing SRO in the form of:  Description of the anatomical specimen on the anatomical panel "Pirogov" - presentation	Evaluation sheets for certain forms of completed assignments
Bioche mistry.	The constitue	The constituents of urine are	LO1 LO3	2/4	essay, presentatio	checklist for SIW assessment.
SIW 1.	nts of	normal. Non-	LO4		n, glossary	

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Physiolo gy. SIW 3.	urine are normal.  Midterm-I.	protein nitrogenous substances in urine. Consolidation of the material covered on the topics of lectures, practical classes, SIW	LO1 LO3 LO4	2	Written solution of integrated situational problems	Checklist for performing integrated situational tasks
Histolog y of SIW 1	Endocrin e apparatus of the kidney.	Components of the juxtaglomerular apparatus. Localization of interstitial cells, juxtavascular and macula densa cells.	LO1 LO3 LO4	1/2	Work in small groups, defending a presentatio n, compiling a glossary.	Checklist for SIW assessment
Physiolo gy. SIW 4.	The process of fertilizati on of an egg. Implantation. Pregnancy.	Features of egg fertilization. Movement of the zygote through the fallopian tubes. Implantation. Periods of pregnancy.	LO1 LO3 LO4	1/3	Preparation and defense of presentations.	Checklist for SIW assessment
Bioche mistry. SIW 2.	Features of metabolis m in the kidneys.	Features of metabolism in the kidneys.	LO1 LO3 LO4	2/4	essay, presentatio n, glossary	Checklist for SIW assessment
Anatom y. SIW 3.	Malforma tions of the female genital organs.	Malformations of the uterus and vagina.	LO1 LO3 LO4	2/4	Consultation on the most complex issues of the curriculum when performing SRO, work with	Evaluation sheets for certain forms of completed assignments

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Physiol gy. SIW 5.	The influence of hormones on	Mechanisms of the renin- angiotensin- aldosterone system.	LO1 LO3 LO4	2/4	educational literature, passing SRO in the form of:  Description of the anatomical specimen on the anatomical panel "Pirogov"  presentatio n  Preparation and defense of presentatio ns.	Checklist for SIW assessment
Histology SIW 2	and course of	Sources and course of embryonic	LO1 LO3 LO4	1/3	Work in small groups,	Checklist for SIW assessment
	embryoni c developm ent of the reproduct ive system.	development of the organs of the reproductive system. Factors of sexual differentiation. Age-related changes in the organs of the reproductive system.			defending a presentatio n, compiling a glossary.	
Bioche mistry. SIW 3.	Regulatio n of diuretic hormones	Secretion and mechanism of action of ADH. Mechanisms of the reninangiotensinaldosterone system.	LO1 LO3 LO4	2/3	presentatio n, analysis of scientific articles on the topic, glossary	checklist for assessing SIW, assessing understanding, ability to analyze a scientific article and the formation of certain scientific concepts

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	ı						
	Tundam	Methods	Methods of	LO 2	1/3	preparing	defending
	entals of	of	radiological	LO4		presentatio	presentations, solving
	adiolog	radiologic	examination of			ns,	crossword puzzles,
y	liagnost	al	the urinary			composing	test tasks, situational
	cs	examinati	system.			crossword	problems, working
	SIW 2.	on of the	Intravenous			puzzles,	with radiological
		urinary	urography.			test tasks,	images.
		system.	Pyelography			situational	
		Intraveno	Intravenous			tasks,	
		us	urography			working	
		urograph				with	
		y.				radiological	
		Pyelograp				images	
		hy					
		Intraveno					
		us					
		urograph					
		y.					
A	Anatom	Malforma	Malformations	LO1	1/3	Consultatio	Evaluation sheets for
y.		tions of	of the uterus	LO3		n on the	certain forms of
S	SIW 4	the	and vagina.	LO4		most	completed
		female				complex	assignments
		genital				issues of	
		organs.				the curriculum	
						when	
						performing	
						SIW, work	
						with	
						educational	
						literature,	
						passing	
						SIW in the	
						form of:	
						- Description	
						of the	
						anatomical	
						specimen	
						on the	
						anatomical	

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	Histolog y SIW 2	Sources and course of embryoni c developm ent of the reproduct ive system.	Sources and course of embryonic development the organs of the reproduct system. Factor of sexual differentiation Age-related changes in the organs of the reproductive system.	ive ors n.	LO1 LO3 LO4	1/3	panel "Pirogov" - presentatio n  Work in small groups, defending a presentatio n, compiling a glossary.	Checklist for SIW assessment
	Anatom y. SIW 4	Midterm- II.	Consolidation of the material covered on the topics of lectures, practical classes, SIW.	al ne	LO1 LO3 LO4	2	Written solution of integrated situational problems	Checklist for performing integrated situational tasks
	Preparatio certificatio		ct of intermedi	ate		15		
9.	Learning a	and teaching	g methods					
9.1	Lectures			introductory, overview, overview and illustrative. control form: Feedback (control questions)				
9.2	Practical lessons		work in small groups, solving test and situational tasks, discussing the main issues of the topic, filling out a checklist of histological preparations and microphotographs, performing practical skills, discussion, working with radiological images. Form of control: Oral questioning, solving test tasks and situational (clinical) problems, a checklist for assessing a practical lesson, assessing crossword puzzle solving, assessing practical skills, assessing the description of radiological			I situational tasks, c, filling out a checklist ophotographs, performing with radiological images. lving test tasks and klist for assessing a puzzle solving, assessing		
9.3	SIW			Cor who	en perfor paring a p	ming SIW presentation	, working with on, sketching a	ues of the curriculum educational literature, diagram of nerve courses glossary, a smart map,

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9.4 10. 10.1 №	Midterm  Evaluation criteri Criteria for assess Name of	ing the learning	of radiological stud Form of control: Ev completed assignment in writing - solving Form of control: integrated situations  outcomes of the disci	integrated situationa assessment of th al tasks.	erm control, ertain forms of  l problems e implementation of
LO	learning	unsatisfactory	Satisfactorily	rine	Great
T 0.1	outcomes				
LO1	Demonstrates	- does not	- demonstrates	- demonstrates	-demonstrates
	knowledge of	demonstrate	partial knowledge of the subject and	knowledge of	excellent
	the general patterns of	knowledge of the subject	tasks of anatomy,	the subject and tasks of	knowledge of the subject and tasks
	structure and	and tasks of	histology and	anatomy,	of anatomy,
	functioning of	anatomy,	physiology,	histology and	histology and
	the	histology and	makes gross	physiology,	physiology, their
	musculoskeleta	physiology;	mistakes;	their importance	importance for
	1 system and	-does not	- does not fully	for medicine;	medicine;
	skin, their	know the	know the	-knows the	-knows well the
	regulatory	structure and	structure and	structure and	structure and
	mechanisms, and the	general patterns of	general patterns of functioning of	general patterns of functioning	general patterns of functioning of
	chemical	functioning	cells, tissues,	of cells, tissues,	cells, tissues,
	composition	of cells,	regulatory	regulatory	regulatory
	and biological	tissues,	mechanisms,	mechanisms	mechanisms
	functions of	regulatory	makes gross		
	bones and skin;	mechanisms	mistakes.		
LO2	Shows	- does not	- compares the	- compares the	- freely compares
		compare the	results of	results of	the results of
	collect and	results of	experimental	experimental	experimental
	analyze the	experimental	observations with	observations with	observations with
	patient's complaints, his	observations with data	data obtained from modern sources of	data obtained from modern	data obtained from modern sources of
	medical	obtained from	information	sources of	information; draws
	history,	modern	miorimulon	information;	conclusions based
	examination	sources of		- presents	on the results of
	results,	information;		personal	laboratory tests;
	laboratory,	does not draw		judgments at	- freely presents
	radiological,	conclusions		practical classes,	personal
	instrumental	based on the		student circle	opinions in
	and other	results of		meetings, student	practical classes, student circle
	studies in order	laboratory		scientific	Student circle

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	to establish the presence or absence of the disease.	tests; - does not present personal judgments in practical classes, student circle meetings, student scientific		conferences.	meetings, and student scientific conferences.
LO3	Finds and distinguishes anatomical structures of the musculoskeletal system and skin in adults and children based on the results obtained (x-ray, fluorographic, ultrasound, computed tomography, magnetic resonance imaging)	conferences.  - does not distinguish, does not describe, does not compare the structural features of various cells, tissues, organs of the body and does not explain their functions; -does not have the skills to conduct laboratory cell research and methods for processing results	- partially describes, compares the structural features of various cells, tissues, organs of the body and explains their functions, makes gross mistakes; -partially has the skills to conduct laboratory cell research;	- distinguishes, describes, compares the structural features of various cells, tissues, organs of the body and explains their functions, makes unprincipled mistakes; has the skills to conduct laboratory cell research and methods for processing results;	-perfectly distinguishes, describes, compares the structural features of various cells, tissues, organs of the body and explains their functions; - has excellent skills in conducting laboratory cell research and methods for processing results;

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LO4	Applies	- does not	- has difficulty	- transfers his	- freely transfers
	knowledge of	transfer his	transferring one's	own knowledge	his own
	the structure	own	own knowledge	and skills to	knowledge and
	and topography	knowledge	and skills to	students when	skills to students
	of organs and	and skills to	students when	conducting	when conducting
	systems to	students	conducting	educational	educational
	master the	when	educational	experiments or	experiments or
	skills of	conducting	experiments or	explaining	explaining
	physical	educational	explaining	theoretical	theoretical
	examination	experiments	theoretical	material;	material;
	and provision	or explaining	material;	- has public	- has perfect
	of first aid.	theoretical	- Poor public	speaking skills.	public speaking
		material;	speaking skills.		skills.
		- does not			
		have public			
		speaking			
10.0		skills.			

# 10.2 Criteria for assessing teaching technology methods

Checklist for a practical lesson: Students are assessed according to individual assessment criteria depending on the form/method of assessment used during the lesson (oral questioning, solving test tasks, solving situational problems, checklist for assessing a practical lesson, assessing crossword puzzles, assessing practical skills, assessment of the description of radiological images), their average score is given in the journal.

Checklist for self-regulatory organizations: Evaluation sheets for certain forms of completed tasks

**Interim certification:** OSPE. Testing

Multi-point knowledg	ge assessment system		
Letter grade	Digital equivalent of	Percentage	Traditional assessment
	points		
A	4,0	95-100	Great
A -	3,67	90-94	
B +	3,33	85-89	Fine
В	3,0	80-84	
B -	2,67	75-79	
C +	2,33	70-74	
С	2,0	65-69	Satisfactorily
C -	1,67	60-64	
D+	1,33	55-59	
D-	1,0	50-54	
FX	0,5	25-49	Not satisfactory
F	0	0-24	

Verbal	Grade	Criteria for evaluation
response		
Form		
control		

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

**Performing test tasks (testing)** 

Compliant points:         correctly.           95-100         90-94           Fine Corresponds to points:         The student completed 75-89% of test correctly.           85-89         80-84           75-79         70-74           Satisfactorily Corresponds to points:         The student completed 50-69% of test correctly.           65-69         60-64           50-59         50-59	Periorming test tasks (test	ing)	
(testing)  Compliant points: 95-100 90-94  Fine Corresponds to points: 85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points: 65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 75-89% of test correctly.  The student completed 50-69% of test correctly.  The student completed 50-69% of test correctly.  The student completed solution correctly.  The student completed less than 50% test tasks correctly.	form of control	Grade	Criteria for evaluation
points: 95-100 90-94  Fine Corresponds to points: 85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points: 65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 75-89% of test correctly.  The student completed 50-69% of test correctly.  The student completed 50-69% of test correctly.	Performing test tasks	Great	The student completed 90-100% of test tasks
Fine Corresponds to points:  85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points:  65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 75-89% of test correctly.  The student completed 50-69% of test correctly.  The student completed 50-69% of test correctly.  The student completed 50-69% of test correctly.  The student completed 150-69% of test correctly.	(testing)	Compliant	correctly.
Fine Corresponds to points:  85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points:  65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 75-89% of test correctly.  The student completed 50-69% of test correctly.  The student completed 50-69% of test correctly.  The student completed solution of test correctly.  The student completed solution of test correctly.		points:	
Fine Corresponds to points:  85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points:  65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 75-89% of test correctly.  The student completed 50-69% of test correctly.  The student completed 50-69% of test correctly.  The student completed solution of test correctly.  The student completed 150-69% of test correctly.		95-100	
Corresponds to points:  85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points:  65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 50-69% of textoric correctly.  The student completed less than 50% textoric correctly.		90-94	
85-89 80-84 75-79 70-74  Satisfactorily Corresponds to points: 65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 50-69% of test correctly.  Correctly.  The student completed less than 50% test tasks correctly.		Fine	The student completed 75-89% of test tasks
80-84 75-79 70-74  Satisfactorily Corresponds to points: 65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 50-69% of textory correctly.  The student completed less than 50% test tasks correctly.		Corresponds to points:	correctly.
75-79 70-74  Satisfactorily Corresponds to points: 65-69 60-64 50-59  Unsatisfactory Corresponds to points  The student completed 50-69% of textory correctly.  The student completed less than 50% textory text tasks correctly.		85-89	
The student completed 50-69% of text Corresponds to points:  65-69 60-64 50-59 Unsatisfactory Corresponds to points  The student completed 50-69% of text correctly.  Correctly.  The student completed less than 50% text tasks correctly.		80-84	
Satisfactorily Corresponds to points: 65-69 60-64 50-59 Unsatisfactory Corresponds to points  The student completed 50-69% of text correctly.  Correctly.  The student completed less than 50% text tasks correctly.		75-79	
Corresponds to points:  65-69 60-64 50-59  Unsatisfactory Corresponds to points  Correctly.  correctly.  The student completed less than 50% test tasks correctly.		70-74	
65-69 60-64 50-59 Unsatisfactory Corresponds to points  The student completed less than 50% test tasks correctly.		Satisfactorily	The student completed 50-69% of test tasks
60-64 50-59 Unsatisfactory Corresponds to points  The student completed less than 50% test tasks correctly.		Corresponds to points:	correctly.
Unsatisfactory Corresponds to points  The student completed less than 50% test tasks correctly.		65-69	
Unsatisfactory The student completed less than 50% Corresponds to points test tasks correctly.		60-64	
Corresponds to points test tasks correctly.		50-59	
Corresponds to points test tasks correctly.		Unsatisfactory	The student completed less than 50% of the
0-49		Corresponds to points	test tasks correctly.
		0-49	

# Evaluation paper Criteria for evaluating descriptions of anatomical preparations

FULL NAME. student

No	Step Evaluation	Great	Fine	Satisfactory	Unsatisfactory
steps	Criteria	90-100	70-89	50-69	0-49

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Department of Phthisiopulmonology and Radiology
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Syllabus on the discipline "Normal genitourinary system"
Educational program: "Dentistry"

		Gave a clear,	He gave a	I partially	Failed the task:
		comprehensi	fairly complete	coped with the	failed to name
	1	ve answer,	answer, but	task: I was	anatomical
	!	correctly	was confused	confused in my	structures
	1	named the	about the	answer and did	
	!	organs in	terminology;	not give the	
	!	Latin and	made minor	full names of	
	!	Greek	inaccuracies	anatomical	
	!			structures	
1.	The student recognizes	18-20	14-17,8	10-13,8	0-9,8
	the organ, gives its			·	
	name in Latin, and, if				
	necessary, in Greek				
2.	The student describes	18-20	14-17,8	10-13,8	0-9,8
	the holotopy of the				
	organ using				
	professional				
	terminology				
3.	The student describes	18-20	14-17,8	10-13,8	0-9,8
	the skeletotopy of the				
	organ using				
	professional				
	terminology				
4.	The student describes	18-20	14-17,8	10-13,8	0-9,8
	the syntopy of the				
	organ using				
	professional				
	terminology				
5.	Describes the	18-20	14-17,8	10-13,8	0-9,8
	anatomical structure of				
	the organ.				

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

# **Evaluation paper**

Criteria for assessing the implementation of the scheme (arterial courses)

FULL NAME. student \_\_\_\_\_

№	Step Evaluation Criteria		Level		
		Great 90-100	Fine 70-89	Satisfactory 50-69	unsa tisf acto ry 0- 49

#### OŃTÚSTIK QAZAQSTAN SOUTH KAZAKHSTAN **MEDISINA MEDICAL** AKADEMIASY **ACADEMY** АО «Южно-Казахстанская медицинская академия» «Оңтүстік Қазақстан медицина академиясы» АҚ Department of Morphophysiology 044-42/11 Department of Biology and Biochemistry 044-46/11 044-70/11 Department of Phthisiopulmonology and Radiology Syllabus on the discipline "Normal genitourinary system" 1p of 20 Educational program: "Dentistry"

1.	The student must correctly find and sketch	18-20	14-17,8	10-13,8	0-	
	the diagram of the artery courses				9,8	
2.	The student must give the full name of the	18-20	14-17,8	10-13,8	0-	
	arteries in Latin.				9,8	
3	The student must correctly indicate the	18-20	14-17,8	10-13,8	0-	
	topography and projection of the arteries				9,8	
4.	Must list all branches of arteries	18-20	14-17,8	10-13,8	0-	
					9,8	
5.	The student must indicate the areas of blood	18-20	14-17,8	10-13,8	0-	
	supply				9,8	

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

# **Evaluation paper**

Criteria for assessing the implementation of the scheme (formation of veins and lymphatic vessels)

FULL NAME. student \_\_\_\_\_

No	Step Evaluation Criteria	Level			
		Great	Fine	Satisfactory	Unsa
		90-100	70-89	50-69	tisfa ctor
					y 0-49
1.	The student must correctly draw a diagram of	18-20	14-17,8	10-13,8	0-
	the formation of veins and lymphatic vessels)				9,8
2.	The student must give the full name of veins	18-20	14-17,8	10-13,8	0-
	and lymphatic vessels in Latin.				9,8
3	The student must correctly indicate the	18-20	14-17,8	10-13,8	0-
	topography of veins and lymphatic vessels				9,8
4.	Must indicate all tributaries of veins and	18-20	14-17,8	10-13,8	0-
	lymphatic vessels.				9,8
5.	The student must indicate the areas drained by	18-20	14-17,8	10-13,8	0-
	a given vein or lymphatic vessel				9,8

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

# **Evaluation paper**

**Criteria for assessing the implementation of the scheme (nerve courses)** 

FULL NAME. student \_\_\_\_\_

	№	Step Evaluation Criteria	Level			
			Great 90-100	Fine 70-89	Satisfactory 50-69	unsa tisf act
						ory
						0-
L						49
Ī	1.	The student must correctly draw a diagram	18-20	14-17,8	10-13,8	0-
		of the nerve pathways				9,8

#### <u>~db</u>> OŃTÚSTIK QAZAQSTAN SOUTH KAZAKHSTAN **MEDISINA MEDICAL AKADEMIASY ACADEMY** «Оңтүстік Қазақстан медицина академиясы» АҚ АО «Южно-Казахстанская медицинская академия» Department of Morphophysiology 044-42/11 Department of Biology and Biochemistry 044-46/11 Department of Phthisiopulmonology and Radiology 044-70/11 Syllabus on the discipline "Normal genitourinary system" 1p of 20 Educational program: "Dentistry"

2.	The student must give the full name of the	18-20	14-17,8	10-13,8	0-
	nerves in Latin.				9,8
3	The student must correctly indicate the	18-20	14-17,8	10-13,8	0-
	topography and projection of the nerves				9,8
4.	Must list all branches of nerves	18-20	14-17,8	10-13,8	0-
					9,8
5.	The student must indicate the areas of	18-20	14-17,8	10-13,8	0-
	innervation				9,8

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

# **Evaluation paper**

# Criteria for evaluating presentations in multimedia format

FULL NAME. student \_\_\_\_\_

№	Criterion	Level, score in points			
		Great	Fine	Satisfact	Unsatisf
		90-100	70-89	ory	actory
				50-69	0-49
1.	Availability of a title slide with a title, a	9-10	7-8,9	5-6,9	0-4,9
	presentation plan, a sufficient number of slides, a				
	list of references and Internet sources.				
2.	Compliance of the content of the presentation with	9-10	7-8,9	5-6,9	0-4,9
	the topic and assigned tasks.				
3.	Arranging slides in a logical sequence.	9-10	7-8,9	5-6,9	0-4,9
4.	Style of presentation of the material (conciseness,	9-10	7-8,9	5-6,9	0-4,9
	clear formulation, structure).				
5.	Use of modern sources of information in sufficient	9-10	7-8,9	5-6,9	0-4,9
	quantities.				
6.	The ability to generalize material and draw clear	9-10	7-8,9	5-6,9	0-4,9
	conclusions.				
7.	Level of orientation in the presentation material.	9-10	7-8,9	5-6,9	0-4,9
8.	Ability to report clearly, competently, and	9-10	7-8,9	5-6,9	0-4,9
	consistently.		ĺ		
9.	The ability to defend one's position and the ability	9-10	7-8,9	5-6,9	0-4,9
	to respond constructively to criticism.				
10	The quality of slide design (colorfulness, clarity,	9-10	7-8,9	5-6,9	0-4,9
	etc.).				
Maxi	mum score – 100. Total points Teacher's s	ignature			

# 11. Learning Resources

Electronic resources

- 1. Repository UKMA http://lib.ukma.kz/repository/
- 2. Republican interuniversity electronic library http://rmebrk.kz/
- 3. Consultant to the student http://www.studmedlib.ru/
- 4. Open library https://kitap.kz/
- 5. Website: www.skma.kz

MEDISINA SKMA MEDICA AKADEMIASY (1), ACADEM	
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# Electronic textbooks

- 1. Bilic, G. L. Human anatomy. Atlas. B 3 t. T.1. Supportive motor apparatus. Osteology. Syndesmology. Myology [Electronic resource]: textbook M.: GEOTAR Media, 2013.
- 2. Bilic, G. L. Human anatomy. Atlas. B 3 t. T. 2 [Electronic resource]: M.: GEOTAR Media, 2013.
- 3. Bilic, G. L. Human anatomy. Atlas. V. 3 t. T. 3 [Electronic resource]: textbook M.: GEOTAR Media, 2013.
- 4. Human anatomy. B 2 t. T. 1 [Electronic resource]: textbook M.: GEOTAR Media, 2013.
- 5. Human anatomy. B 2 t. T. 2 [Electronic resource]: textbook M.: GEOTAR Media, 2013
- 6. Atlas. Anatomy and physiology. Esimbekova R.I., 2013/CB Aknurpress
- 7. /https://aknurpress.kz/login
- 8. Anatomy of genitourinary organs. Ahmad N.S., 2019 / CB Aknurpress / <a href="https://aknurpress.kz/login">https://aknurpress.kz/login</a>
- 9. Human anatomy. Dosaev T.M., 2019./ CB Aknurpress https://aknurpress.kz/login
- 10. Anatomy. Omash K., 2013/CB Aknurpress / .https://aknurpress.kz/login
- 11. Human anatomy: Textbook. / T.S. Kosmanbetov, A.M. Iskindirova, B.Sh. Shakenovt.p., General editor. managed by T.M. Dosaev; S.J. Kazakhstan State Medical University in Asfendiarovat. Almaty: AKNUR publishing house, 2013. 366-ISBN 9965-604-95-9./RMEB/ <a href="http://rmebrk.kz/">http://rmebrk.kz/</a>
- 12. Gavrilov L.F., Tatarinov V.G. Anatomy: Textbook, 2nd ed., revised. and the ball. Almaty: Evero, 2020. 424 p.,.https://elib.kz/ru/search/read\_book/279

## Literature

# **Basically:**

- 1. Borzyak E. I. Human anatomy. Photographic atlas. B 3 t. T. 3. Internal organs of the nervous system: textbook M.: GEOTAR Media, 2016. 488 p.
- 2. Borzyak E. I. Human anatomy. Photographic atlas. In 3 volumes. Volume 2. Cardiovascular system. Lymphatic system. M.: GEOTAR Media, 2015. 368 p.
- 3. Borzyak E. I. Human anatomy. Photographic atlas. B 3-x tomah. Volume 1. Support engine apparatus. M. : GEOTAR Media, 2014. 480 p
- 4. Gaivoronsky I. V. Human anatomy. B 2 t. T. 1. System of support and movement of organs. Splanchology: textbook M.: GEOTAR Media, 2014
- 5. Human anatomy. B 3 t. T. 1. Locomotor apparatus: illustrated textbook / under the editorship. L. L. Kolesnikova; Master of Education and Science of the Russian Federation.. M.: GEOTAR Media, 2014. 320 p.
- 6. Sinelnikov R. D. Human anatomy atlas. B 4 t. T. 1. Learning about bones, joints of bones and muscles: учеб. allowance. 7-e izd, pererab. М.: Novaya volna: Izdatel Umerenkov, 2012.
- 7. Sinelnikov R. D. Human anatomy atlas. B 4 t. T. 2. Learning about the internal organs and endocrine glands: учеб. allowance. 7th edition, pererab. М.: Novaya volna: Izdatel Umerenkov, 2012.
- 8. Sinelnikov R. D. Human anatomy atlas. B 4 t. T. 3. Learning about blood vessels and lymphoid organs: study. allowance. 7th edition, pererab. M.: Novaya volna: Izdatel Umerenkov, 2012.

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- 9. Sinelnikov R. D. Human anatomy atlas. B 4 t. T. 4. Learning about the nervous system and organs of the senses: lesson. allowance. 7th edition, pererab. M.: Novaya volna: Izdatel Umerenkov, 2012.
- 10. Prives M. G. Human anatomy: textbook. 12th edition, reworked. and the ball. SPb.: Izd. house SPbMAPO, 2009.

#### **Additional:**

- 1. Sisabekov K.E., Tanabaev B.D., Ospanov D.T. Clinical anatomy and operative surgery of the head and neck: textbook Shymkent: "Alem" publishing house, 2018.-136 p.
- 2. Netter F. Atlas of human anatomy: atlas M.: GEOTAR Media, 2015. 624 p.
- 3. Human anatomy. B 3 t. T 2. Splanchnology and cardiovascular system: illustrated textbook / M-vo obrazovaniya i nauki RF; under ed. L. L. Kolesnikova. M.: GEOTAR Media, 2014. 320 p.
- 4. Anatomy by Pirogov. Human anatomy atlas. B 3 t. T. 2. Head. Sheya: M.: GEOTAR Media, 2013
- 5. Boyanovich Yu. V. Human anatomy: an atlas. Rostov, n/a: Phoenix, 2011
- 6. Fenish H. Pocket atlas of human anatomy: atlas: per. s Eng. 5th edition, ex. and the ball. St. Petersburg: Dilya, 2010
- 7. Ellis G. Atlas of human anatomy in sections, CT and MRI images: atlas: per. sneem M.: GEOTAR Media, 2010.

# 12. Politics discipline

Requirements for my students:

- 1. to be late for classes;
- 2. do not skip classes without valid reasons;
- 3. have anatomical gloves, tweezers and scalpel;
- 4. show activity during practical classes;
- 5. be able to work in a team;
- 6. in a timely manner, according to the schedule, perform and submit SIW;
- 7. do not engage in extraneous activities during occupations;
- 1. be tolerant, open and friendly to fellow students and teachers; observe ethical norms of behavior when working with anatomical preparations and organs of the human body;
- 2. The property department is carefully treated;
- 3. timely make up missed classes for valid reasons;
- 4. observe technical safety in the classroom.
- 5. During lectures/practical classes/SROP students are prohibited from:
- 6. use mobile devices/gadgets;
- 7. leave the classroom/auditorium (leave the workplace at the clinical/production base) without the teacher's permission.

# **Dress code required**

The student is obliged to:

- 1. have a clean, ironed medical gown, cap/hat;
- 2. have neat hair, short cut nails; (for girls: bright make-up and bright nail polish are acceptable).

# **Penalties:**

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- 1. In the event of a single violation of the discipline policy, the student receives a verbal warning from the teacher.
- 2. In case of repeated violations of the discipline policy, the student shall provide an explanation to the head of the department.
- 3. In the event of a systematic violation of the policy of discipline, the head of the department submits an appropriate report to the dean's office.

A student who did not appear at the border control without a valid reason and received an unsatisfactory grade for one of the types of controls (M1, M2) is not admitted to the discipline examination; A student, who did not attend the M for a valid reason, immediately after starting classes, with the permission of the dean's office, receives a work sheet.

For 1 missed lecture, due to an insignificant reason, the staff score is 1.0 points and is subtracted from the border control assessment.

For 1 failure of SIW, for any valid reason, the penalty score is 2.0 points and is subtracted from the SIW grades. Bonus points are calculated according to the policy of the department. Bonus points are added to the assessment of border control. For active participation in the work of SNK and seminars in each discipline, a bonus point from 5 to 10 is assigned to the student.

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

P.4 Code of honor of the student

P.10. Organization of the educational process

P.12. The policy of issuing ratings

Final control - students who have fully mastered the disciplines of the program and scored an admission rating are admitted to the exam.

The final score is calculated automatically based on the average score of the current control, the average score of the border controls and the score of the final control:

Admission rating (60%) = average score of border controls (20%) + average score of current control (40%)

Average score of border controls = M1 + M2 / 2

The average score of the current control = the average arithmetic sum of the current scores, taking into account the average score according to SIW and penalty points.

Final score (100%) = Msr x 0.2 + srx 0.4 + IR x 0.4

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

# An example of calculating the student's final grade:

## **Penalty points:**

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

1 SROP per pass = 2.0 points

M 1 - 80 scores

M 2 - 90 scores

Mcp = (80-2)+90 = 84 scores

2

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

SIW 1-75 scores

SIW 2-85 scores

SRON... – quantity SIW

Average score for SIW =  $\frac{75 + 85 + N...}{100}$  = 80 scores

2 + N...

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Current average score with SIW and penalty points taken into account:

$$S^* = \frac{Scp + SIWcp}{2} - S = \frac{80 + (80 - 2,0)}{2} = \frac{158}{2} = 79,0$$

Rating allowed (60%)=Mcp x  $0.2 + \text{Scp} \times 0.4 = 84 \times 0.2 + 79.0 \times 0.4 = 16.8 + 31.6 = 48.4 \text{ scores}$  Final control (40%), for example, the student answered 45 questions correctly from 50 (90%),

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

Final assessment (100%) =

- 1) R (60%) + F (40%) = 48.4 + 36 = 84.4 scores
- 2) Mcp x 0,2 + Scp x 0,4 + F x 0,4=84,0x0,2 + 79,0 x 0,4 + 90x0,4=16,8+31,6+36=84,4 scores RKsr the average score of border controls

TCsr is the average assessment of the current control

IR - evaluation of the final control

M 1 - boundary control 1

M 2 - boundary control 2

RD is the rating tolerance

TKSr\* is the average current grade taking into account SIW and transfer points

K is the 1st thought lesson of passing coefficient

Ksro is the pass rate of the 1st SIW

14. Approval and rev	ision		
Date of approval by departments	Protocol № 1 01.09.2023	Morphophysiology head of department acting prof. Tanabaey B.D.	000
	Protocol № 2 04.09.2023	Biology and biochemistry department prof. Esirkepov M.M.	U. U. G
	Protocol № 1 05.09.2023	Phtisiopulmonology and radiology Kasaeya L.T.	Metas
	Protocol № 2 05.09.2023	"Introduction to the clinic" department c.m.n.s. assistant professor Zhumadilova A.R.	A.
Date of approval by EPC	Protocol № 2 05.09.2023	Chairperson of EPC	CH-