SYLLABUS

ЗӘР ШЫҒАРУ ЖҮЙЕСІНІҢ ПАТОЛОГИЯСЫ ЖӘНЕ ГОМЕОСТАЗ/ ПАТОЛОГИЯ МОЧЕВЫДЕЛИТЕЛЬНОЙ СИСТЕМЫ И ГОМЕОСТАЗ/ PATHOLOGY OF THE URINARY SYSTEM AND HOMEOSTASIS

1.	General information about the discipline		
1.1	Faculty/School: Medicine and Healthcare Department of Internal Medicine	1.6	Credits (ECTS): 3 credits – 90 hours, of which 60 are contact hours (practical training)
1.2	Educational program (EP): 6В10114 Медицина 6В10114 Медицина 6В10114 Medicine	1.7	SIW/SPM/SRD (qty): 15 hours
1.3	Agency and year of accreditation of the EP	1.8	SRSP/SRMP/SRDP (number): 15 hours
1.4	Name of discipline: Зәр шығару жүйесінің патологиясы және гомеостаз/ Патология мочевыделительной системы и гомеостаз/ Pathology of the urinary system and homeostasis	1.9	Prerequisites: 1. Жалпы патология/Общая патология/General pathology 2. Наукас және дәрігер/Пациент и врач/Patient and doctor Postrequisites: Ішкі аурулар/Внутренние болезни/Internal medicine. Педиатрия және неонатология /Педиатрия и неонатология /Pediatrics and neonatology. Хирургия /Хирургия /Surgery. Клиникалық зертханалық диагностика /Клиническая лабораторная диагностика /Сlinical laboratory diagnostics
1.5	Discipline ID: 90298 Discipline code: PMS 3307	1.10	Required - the basic discipline
2.	Description of the discipline		
	problems (clinical syndromes), and clinically homeostasis. The main syndromes are ed hypertension, nephritic, and nephrotic syndrom and nephrological aspects in pregnant women treatment, taking into account the age of the pa	opathogoniente oriente ematounes, als n. A we	ollowing aspects: genesis, pathomorphology, clinical presentation of ed pharmacology of urinary system pathology and s, urinary, painful, renal insufficiency, arterial to the main topics are the male reproductive system, ell-founded syndromic diagnosis and principles of
3	Purpose of the discipline		
	tering basic knowledge and skills in the diagrary system	nosis ar	nd management of patients with pathology of the
4.	Learning outcomes (LO) by discipline (3-5)		
	LO disciplines	LO ac with v	cording to the educational program, which the LO is associated by discipline lo. from the EP passport)
1	Apply knowledge on immunopathogenesis of pathology of the urinary system in the process of diagnosis and treatment	Profi cien cy	1.Apply and integrate in practice knowledge in the field of biomedical, clinical, epidemiological and social-behavioral sciences, including

		level -3	generally accepted, evolving and constantly updated knowledge to solve clinical problems and into the care of individuals and populations.
2	Be able to conduct targeted questioning and physical examination of the patient, taking into account age characteristics and determining diagnostic and therapeutic interventions related to common diseases of the urinary system	Proficien cy level -3	2. Use interpersonal and communication skills to effectively share information and collaborate with patients, their families and healthcare professionals, including using information technology to provide safe and effective patient care;
3	Identify diagnostic and therapeutic interventions related to common diseases affecting the urinary system.	Proficien cy level -3	3. Provide effective patient-centered medical care, including appropriate activities aimed at the diagnosis, treatment and prevention of diseases using the principles of evidence-based medicine;
4	Interpret the basic data of laboratory and instrumental examination in the pathology of the urinary system	Proficien cy level -2	4. Integrate clinical knowledge and skills to ensure an individual approach in the treatment of a particular patient and improve his health in accordance with his needs, based on the analysis of the rationality of diagnosis and treatment, the principles of evidence-based and personalized medicine;
5	Integrate knowledge to identify the main syndromes of the urinary system: edematous, urinary, pain, renal failure, arterial hypertension.	Proficien cy level -3	5. Timely and effectively provide medical care in emergency and life-threatening conditions, including emergency situations, natural and manmade disasters, pandemics, on the principles of humanity, safety and efficiency;
6	Describe the social, economic, ethnic and racial factors that play a role in the development, diagnosis and treatment of cardiac diseases;	cien	6. Demonstrate professionalism and commitment to conscientious performance of professional duties based on high standards of ethics and humanism;
7	Apply the classification of diseases of the urinary system, understand the mechanism of action, pharmacokinetics, analyze side effects, indications and contraindications for the use of drugs that affect the kidneys, antibacterials, immunosuppressants (glucocorticosteroids, cytostatics), diuretics, antihypertensives, antivirals, erythropoietin drugs, calcimimetics, etc.	Proficien cy level -3	7. Demonstrate the qualities necessary to maintain continuous personal and professional growth, continuous improvement in the quality of medical care based on continuous self-assessment and lifelong learning;
8	Demonstrate the ability to effectively conduct medical interviews, taking into account the rules and norms of the doctorpatient relationship and knowledge of the basic principles of human behavior at different age periods, in normal and abnormal behavior, in different situations;	Proficien cy level -2	8. Responsibly carry out their activities within the framework of the existing legal and regulatory framework of the health care system and be guided by them in their practical activities to ensure optimal medical care;

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9	Demonstrate commitment to the highest standards of professional responsibility and integrity;	Proficien cy level -2	9. Analyze the results of the treatment of their patients, critically evaluate and implement the principles of treatment based on scientific evidence;
10	To observe ethical principles in all professional interactions;	Proficien cy level -3	10. Analyze and maintain the necessary documentation in healthcare organizations using modern information and digital technologies and healthcare information systems to solve professional problems and conduct scientific research;
11	To demonstrate the need for continuous professional training and improvement of one's knowledge and skills;	Proficien cy level -3	11. Apply knowledge of a complex of factors that determine health and disease in order to prevent, promote health and promote a healthy lifestyle.
12	To demonstrate the skills of conducting scientific research, the desire for new knowledge and the transfer of knowledge to others.	Proficien cy level -3	12. Work effectively and improve the healthcare system, paying attention to the quality, safety and value of patient care.
5.	Summative assessment methods (mark (yes	– no) /	specify your own):
5.1	MCQ testing for understanding and application	5.5	Scientific project SSRW (student's scientific research work)
5.2	Practical skills – Miniclinical exam (MiniCex)	5.6	360 score - behavior and professionalism
5.3	SIW- creative task	5.7	Midterm control: Stage 1 - MCQ testing for understanding and application Stage 2 - passing practical skills (miniclinical exam (MiniCex)
5.4	Medical history	5.8	Exam: Stage 1 - Testing on MCQ for understanding and application Stage 2 - OSCE with NP

6.	Detailed information about the discipline			
6.1	Academic year:	6.3	Schedule (days of classes, time): From 8.00 to	
	2024-2025		14.00	
6.2	Semester:	6.4	Place	
	5 semester		(educational building, office, platform and link	
			to the DOT learning meeting):	
			City Clinical Hospital №1, City Clinical	
			Hospital №7, Emergency City Clinical Hospital	
7.	Discipline leader			

Position		Full name	Department		Contact information (tel., e-mail)	Consultation s before exams
Seni	or lecturer	Baidauletova Zhuldyz	Internal medicine		8-701 716 40 95	Before the examination session within 60 minutes
8.	The content of the c	liscipline				
	Name of the discipling	ne		Qua ntity of hour s	Conducting form	
1.	Syndromes in nephrology: edematous, urinary, pain, renal failure, arterial hypertension			6	Formative assessment: 1. Using active learning methods: 2. Working with a patient for at lestudy time 3. Participation in clinical rounds	east 20% of the
2.	Nephrotic syndrome			12	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Work in the department of functional diagnostics 4. Training in the simulation center	
3.	Nephritic syndrome			12	Formative assessment: 1. Using active learning methods: 2. Working with a patient for at lestudy time 3. Training in the simulation cent	TBL east 20% of the
4.	Kidney failure syndrome: acute kidney injury			6	Formative assessment: 1. Using active learning methods: 2. Working with a patient for at lestudy time 3. Training in the simulation cent	TBL east 20% of the
2 stag 1-stag		2 stages: 1-stage – M			understanding and application - 40 m (MiniCex) - 60%	%
5.	Kidney failure syndrome: chronic kidney disease		6	Formative assessment: 1. Using active learning methods: 2. Working with a patient for at lestudy time 3. Training in the simulation cent	east 20% of the	
6.	Urinary tract infection. Urolithiasis disease			6	Formative assessment: 1. Using active learning methods: 2. Working with a patient for at lestudy time 3. Training in the simulation cent	TBL east 20% of the

	Male reproductive system		6 Formative assessment: 1. Using active learning methods: TBL					
				2. Working with a patient for at lestudy time	ast 20% of the			
				3. Training in the simulation cent	or			
8.	Nephrological aspects in pro	agnant women	6	Formative assessment:	.CI			
ο.	Nephrological aspects in pro	egnant women	women 6 Formative assessment: 1. Using active learning methods: TBL					
				2. Working with a patient for at least				
				study time	ast 2070 of the			
				3. Participation in clinical rounds				
Mid	term control 2	Summative evalua	ation:					
		2 stages:						
		1-stage - MCQ te	sting fo	r understanding and application - 4	10%			
				am (MiniCex) - 60%				
Fine	al control (Exam)	Summative evalua	ation:					
		2 stages:						
		_	_	or understanding and application - 4	10%			
		2- stage – OSCE v	with NP	P - 60%	T			
Tota					100			
9.	Methods of teaching in the	_						
			nd learn	ning that will be used in teaching)				
	Using active learning method							
1	Methods of formative asse			1 / 0.6 0.65000150.61100000.6	(0/// 11)			
	TBL – Team Based Learnin	g (https://classroo	m.goog	le.com/w/MzM5OTU5MjU0OTM	<u>0/t/all</u>)			
2	Summative assessment me	41 1 /6						
,	Silmmative accecement ma		4 =					
_								
4	1. MCQ testing for understa	inding and applica	tion	Say) for the 2rd year				
∠	1. MCQ testing for understa 2. Passing practical skills –	anding and applica miniclinical exam	tion (MiniC		pativa task			
۷	 MCQ testing for understa Passing practical skills – SIW (case, video, simula) 	anding and applica miniclinical exam	tion (MiniC	Cex) for the 3rd year eport, article) – assessment of a cre	eative task			
۷	 MCQ testing for understa Passing practical skills – SIW (case, video, simulated) Medical history 	anding and applica miniclinical exam tion OR research t	tion (MiniC		eative task			
_	 MCQ testing for understa Passing practical skills – SIW (case, video, simulated) Medical history Portfolio of scientific paper 	anding and applica miniclinical exam tion OR research t	tion (MiniC		eative task			
	 MCQ testing for understa Passing practical skills – SIW (case, video, simulated) Medical history Portfolio of scientific paped Curation, clinical skills 	anding and applica miniclinical exam tion OR research t	tion (MiniC		eative task			
10.	 MCQ testing for understa Passing practical skills – SIW (case, video, simulated) Medical history Portfolio of scientific paped. Curation, clinical skills Summative assessment 	anding and applica miniclinical exam tion OR research t	tion (MiniC hesis, re	eport, article) – assessment of a cre	eative task			
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				2nd sta	age - OSCE	with NP - 60%	
10	Final	score:			60% + Exan		
10.	Score	e					
Rati	ng by le	etter	Digital	Points		Assessment Description	
syste			equivalent	(% conte	ent)	(changes should be made only at	the level of
•			1		,	the decision of the Academic Co	
						quality of the faculty)	
A			4,0	95-100		Excellent. Exceeds the highest jo	ob standards
A-			3,67	90-94		Excellent. Meets the highest job	
B+			3,33	85-89		Good. Very good. Meets high jo	
В			3,0	80-84		Good. Meets most of the job star	
B-			2,67	75-79		Good. More than enough. Show	
						reasonable ownership of the mat	erial.
C+			2,33	70-74		Good. Acceptable.	
				6 . 60		Meets the basic standards of the	
C			2,0	65-69		Satisfactory. Acceptable. Meets	some basic
			1.67	60.64		job standards.	1 .
C-			1,67	60-64		Satisfactory. Acceptable. Meets	some basic
Dı			1 22	55.50		job standards.	
D+			1,33	55-59		Satisfactory.	
D			1,0	50-54		Minimally acceptable. Satisfactory.	
D			1,0	30-34		Minimally acceptable. The lower	st level of
						knowledge and completion of the	
FX			0,5	25-49		Unsatisfactory.	c task.
1 2 1			0,3 23-49			Minimally acceptable.	
F			0	0-24		Unsatisfactory.	
-	0 0-24			Very low productivity.			
11.	Educa	tional	resources (use t	he full link	and specify	where you can access the texts/ma	aterials)
Liter						Tain	,
e					Available i	in the library	
						·	Year of
		Auth	or		Name of	the book, publisher	publicati
							on
			olas J Talley, Br		Elsevier 3	3d edition, Chapter 8,9 p 153-	
			kum & David C			кземпляр	2014
		Esse	ntials of Internal	medicine			
	Brenner GM, Stevens CW		Pharmacology. 568p.		2018		
			<u> </u>				
	C.Ronco.			Critical Care Nephrology, 3rd Edition. 1456p 2019			
		J.100			Lancion,	_P	2017
					Handbook	k of renal biopsy pathology,	2050
		Alex	andr J. Howie			tion, 297p	2020
						. 1	
		1			1		

Перевод Бобковой И.Н., Буланова Н.М., Захарова Е.В и др.	Клинические практические рекомендации KDIGO 2021 по лечению гломерулярных болезней, 298 с.	2021
Ассоциация нефрологов РФ	Клинические рекомендации: Хроническая болезнь почек (ХБП), 233 с.	2021
Ассоциация нефрологов РФ	Клинические рекомендации: Поражение почек при АНЦА ассоциированных васкулитах (АНЦАассоциированный гломерулонефрит)	2021
Эрман М.В.	Симптом-синдром-диагноз. Болезни почек и мочевыделительной системы у детей, 2020. 118 с	2020

Additional Available in the library

Author	Name of the book, publisher	Year of publicati on
Ішкі аурулар пропедевтикасы Ә	Эдістемелік оқу құралы 2013	2015
Ішкі аурулар пропедевтикасы:	оқулық — М.: ГЭОТАР-Медиа,2015.	2016
Пропедевтика внутренних боле В.С., М:,Геотар Медиа 2020г.	езней: учебник / Мухин Н.А., Моисеев	2016
Кишкун, Алексей Алексеевич. : оқу құралы / А. А. Кишкун ; к Сейтембетова, 2017 957, [2] б		2017
Кишкун, Алексей Алексеевич. Клиническая лабораторная диагностика: учеб. пособие / А. А. Кишкун, 2019 996, [2] с Текст: непосредственный		
Дифференциальная диагностика внутренних болезней / Российское научное медицинское общество терапевтов, 2018 927, [1] с Текст : непосредственный.		
Косарев, Владислав Васильевич. Клиническая фармакология и рациональная фармакотерапия : учеб. пособие / В. В. Косарев, С. А. Бабанов, 2019 235, [1] с Текст : непосредственный.		
Ішкі аурулар пропедевтикасы б	Эдістемелік оқу құралы 2013	2015
Ішкі аурулар пропедевтикасы:	оқулық — М.: ГЭОТАР-Медиа,2015.	2016

Available at the department (link to Classroom)

Author	Name of the book, publisher	Year of publicati on
Lippincot	Lippincot Illustrated Reviews: Pharmacology, 7th Edition, 2019.	2020
Wada T., Furuichi K., Kashihara N	USMLE Step 2 CK Lecture Notes 2020. Internal Medicine	2020
Joseph Loscalzo, MD, PhD	Harrison's Principles of Internal Medicine 20th Edition 2018	2018
Macleod	Macleod's Clinical Examination 14th Edition	2017
Robbin	Robbins Essential Pathology	2021
Henry R. Black, William J. Elliott	Hypertension A Companion to Braunwald's Heart Disease SECOND EDITION	2013
Nicholas J Talley, Brad Frankum & David Currow.	Essentials of Internal medicine Elsevier. 3d edition	2015
	Harrisson's Manual of Medicine/ 20th Edition	2020
Jonathan Gleadle	History and Clinical Examination at a Glance	2012
Lippincot	Lippincot Illustrated Reviews: Pharmacology, 7th Edition, 2019.	2020
Wada T., Furuichi K., Kashihara N	USMLE Step 2 CK Lecture Notes 2020. Internal Medicine	2020

Electroni

resources

Internet resources:

- 1. Medscape.com https://www.medscape.com/familymedicine
- 2. Oxfordmedicine.com https://oxfordmedicine.com/
- 3. Uptodate.com https://www.wolterskluwer.com/en/solutions/uptodate
- 4. Osmosis https://www.youtube.com/c/osmosis
- 5. Ninja Nerd https://www.youtube.com/c/NinjaNerdScience/videos
 - 6. CorMedicale https://www.youtube.com/c/CorMedicale medical video animations in Russian language.
- 7. Lecturio Medical https://www.youtube.com/channel/UCbYmF43dpGHz8gi2ugiXr0Q
 - 8. SciDrugs https://www.youtube.com/c/SciDrugs/videos video lectures on pharmacology in Russian language.
 - 9. https://geekymedics.com/category/osce/clinical-examination/cardio/

Simulato	1. SAM (Student auscultation manikin) is a student mannequin for the ascultation of the pathology
rs in the	of organs and systems (including the digestive system)
simulatio	2. Dummy simulator for teaching percussion skills, palpation of abdominal organs (liver, spleen)
n center	
Special	1. Google classroom - available in the public domain.
software	2. Medical calculators: Medscape, Physician's Handbook, MD+Calc - freely available.
	3. Directory of diagnostic and treatment protocols for medical workers from the RCHD, the
	Ministry of Health of the Republic of Kazakhstan: Dariger - available in the public domain.

12. Tutor Requirements and Bonus System

A student in accordance with an individual internship plan:

- 1) supervises patients in organizations providing pre-medical medical care, emergency medical care, specialized medical care (including high-tech), primary health care, palliative care and medical rehabilitation;
- 2) participates in the appointment and implementation of diagnostic, therapeutic and preventive measures;
- 3) conducts documentation and sanitary and educational work among the population;
- 4) participates in preventive examinations, medical examinations, is present at consultations;
- 5) participates in clinical rounds, clinical reviews;
- 6) participates in duty at least four times a month in medical organizations (duty is not taken into account when calculating the workload of an internship student);
- 7) participates in clinical and clinical-anatomical conferences;
- 8) is present at pathoanatomical autopsies, participates in the research of autopsy, biopsy and surgical materials;
- 9) under the supervision of a scientific supervisor, collects material and analyzes data for a scientific project.

Bonus system:

= :	() () () ())))
	Discipline policy is determined by the University's Academic Policy and the
	University's Academic Integrity Policy. If the links do not open, then you can find the
	relevant documents in IS Univer.
	Rules of Professional Conduct:
	1) Appearance:
	✓ office style of clothing (shorts, short skirts, open T-shirts are not allowed to
	attend university, jeans are not allowed in the clinic)
	✓ Clean and ironed coat
	✓ medical mask
	✓ medical cap (or a neat hijab without hanging ends)
	✓ medical gloves
	✓ changeable shoes
	 ✓ neat hairstyle, long hair should be gathered in a ponytail, or a bun, for both girls and guys. Neatly short cut nails. Bright, dark manicure is prohibited. It is permissible to cover the nails with transparent varnish. ✓ badge with full name (full name)
	2) Mandatory presence of a phonendoscope, tonometer, centimeter tape, (you can
	also have a pulse oximeter)

- 3) Properly executed sanitary (medical) book (before the start of classes and must be updated on time)
- 4) * Possession of a vaccination passport or other document confirming a fully completed course of vaccination against COVID-19 and influenza
- 5) Mandatory observance of the rules of personal hygiene and safety
- 6) Systematic preparation for the educational process.
- 7) Accurate and timely maintenance of reporting documentation.
- 8) Active participation in medical-diagnostic and public events of the departments.

A student without a medical book and vaccination will not be allowed to see patients.

A student who does not meet the requirements for appearance and / or from whom a strong / pungent odor emanates, since such a smell can provoke an undesirable reaction in the patient (obstruction, etc.) - is not allowed to the patients!

Преподаватель в праве принять решение о допуске к занятиям студентов, которые не выполняют требования профессионального поведения, включая требования клинической базы!

Study discipline:

- 1. Being late for classes or the morning conference is not allowed. In case of being late, the decision on admission to the lesson is made by the teacher leading the lesson. If there is a good reason, inform the teacher about the delay and the reason by message or by phone. After the third delay, the student writes an explanatory note addressed to the head of the department indicating the reasons for being late and is sent to the dean's office to obtain admission to the lesson. If you are late without a valid reason, the teacher has the right to deduct points from the current grade (1 point for each minute of delay)
- 2. Religious events, holidays, etc. are not a valid reason for skipping, being late and distracting the teacher and the group from work during classes.
- 3. If you are late for a good reason do not distract the group and the teacher from the lesson and quietly go to your place.
- 4. Leaving the class ahead of time, being outside the workplace during school hours is regarded as absenteeism.
- 5. Additional work of students during study hours (during practical classes and shifts) is not allowed.
- 6. For students who have more than 3 passes without notifying the curator and a good reason, a report is issued with a recommendation for expulsion.
- 7. Missed classes are not made up.
- 8. The internal regulations of the clinical bases of the department are fully applicable to students
- 9. Greet the teacher and any senior by standing up (in class)
- 10. Smoking (including the use of vapes, electronic cigarettes) is strictly prohibited on the territory of medical facilities (out-doors) and the university. Punishment up to the annulment of boundary control, in case of repeated violation the decision on admission to classes is made by the head of the department
- 11. Respectful attitude towards colleagues regardless of gender, age, nationality, religion, sexual orientation.

- 12. Have a laptop / laptop / tab / tablet with you for studying and passing MCQ tests for TBL, boundary and final controls.
- 13. Taking MCQ tests on phones and smartphones is strictly prohibited..

The behavior of the student at the exams is regulated by the "Rules for the final control", "Instructions for the final control of the autumn/spring semester of the current academic year" (the current documents are uploaded to the Univer IS and are updated before the start of the session); "Regulations on checking text documents of students for the presence of borrowings."

Decision of the Department of Clinical Disciplines (protocol No. 2 of September 5, 2023):

In addition to the requirements for the academic discipline:

If you miss a class without a good reason, the teacher has the right to deduct points from the current control -

10 points for each missed lesson for 4-5 year disciplines

14 1. Constantly preparing for classes:

For example, backs up statements with relevant references, makes brief summaries Demonstrates effective teaching skills, assists in teaching others

2. Take responsibility for your learning:

For example, manages their learning plan, actively tries to improve, critically evaluates information resources

3. Actively participate in group learning:

For example, actively participates in discussions, willingly takes tasks

4. Demonstrate effective group skills

For example, takes the initiative, shows respect and correctness towards others, helps to resolve misunderstandings and conflicts.

5. Skillful communication skills with peers:

For example, he listens actively, is receptive to nonverbal and emotional signals Respectful attitude

6. Highly developed professional skills:

Eager to complete tasks, seek opportunities for more learning, confident and skilled Compliance with ethics and deontology in relation to patients and medical staff Observance of subordination.

7. High introspection:

For example, recognizes the limitations of his knowledge or abilities, without becoming defensive or reproaching others

8. Highly developed critical thinking:

For example, accordingly demonstrates skills in performing key tasks, such as generating hypotheses, applying knowledge to cases from practice, critically evaluating information, making conclusions aloud, explaining the process of reflection

9. Fully complies with the rules of academic behavior with understanding, offers improvements in order to increase efficiency.

Observes the ethics of communication – both oral and written (in chats and appeals)

10. Fully follows the rules with full understanding of them, encourages other members of the group to adhere to the rules

Strictly adheres to the principles of medical ethics and PRIMUM NON NOCER

15. Distance/Online Learning – Prohibited in Clinical Discipline

(части, выделенные зеленым, пожалуйста, не изменяйте)

1. According to the order of the Ministry of Education and Science of the Republic of Kazakhstan No. 17513 dated October 9, 2018 "On approval of the List of areas of training with higher and postgraduate education, training in which in the form of external studies and online education is not allowed". According to the above regulatory document, specialties with the discipline code of health care: bachelor's degree (6B101), master's degree (7M101), residency (7R101), doctoral studies, (8D101) - training in the form of external study and online education - is not allowed.

Thus, students are prohibited from distance learning in any form. It is only allowed to work out a lesson in a discipline due to the absence of a student for reasons beyond his control and the presence of a timely confirming document (example: a health problem and presenting a confirming document - a medical certificate, a signal sheet of the PHC, an extract from a consultative appointment with a medical specialist - a doctor)

16.	Approval and rev	view			
Department head		A -	Sadykova Sh.S.		
Committee of the Fa and Healthcare	aculty of Medicine	K	Kurmanova G.M.		

Topic plan and content of classes

$N_{\underline{0}}$	Topic	Content	Literature	Conduct form
	2	3	4	5
1	Syndrom es in nephrolo gy: edemato us, urinary, pain, renal failure, arterial hyperten sion	Learning outcomes: - Apply knowledge of the pathogenesis of edema, proteinuria, hematuria in the process of diagnosis and treatment; - Able to identify symptoms and syndromes of diseases of the urinary system when interviewing a patient; - Carry out targeted questioning and physical examination taking into account age characteristics when examining a patient with a pathology of the urinary system; - Integrate knowledge for the detection and differential diagnosis of edematous syndrome, proteinuria and hematuria; - Integrate knowledge for the identification and differential diagnosis of primary and secondary hypertension, renal failure syndrome: - Substantiate and prescribe methods of examination, with the interpretation of the results of laboratory diagnostics; - Calculate the albumin-creatinine ratio; - Calculate the glomerular filtration rate; - Substantiate the preliminary diagnosis using medical terminology; - Prescribe treatment for a patient with edema, hypertension, taking into account the individual characteristics of the patient, pharmacodynamics and pharmacokinetics of drugs (diuretics, antihypertensives). - Demonstrates adherence to professional values such as altruism, compassion, empathy, responsibility, honesty and confidentiality;	1. Мухин Н.А., Моисеев В.С. Пропедевтика внутренних болезней: учебник. — 2-е изд., доп. и перераб. М.: ГЭОТАР – 2020г, стр 649-725. 2. Nicholas J Talley, Brad Frankum & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, р 320-323 (Электронный ресурс). 3. Нефрология. Окулык. /Қанатбаева А.Б., Қабулбаев К.А ред — М: Литтера, 2016. — 54-77c; 175-181. 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. — 58-79. 5. Harrisson's Manual of Medicine/ 20th Edition, Section 6, chapter 40, р. 249-253, р. 2209-2220. 6. Brenner and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020 Сhapter 1-3, 19, 21, 30, 46-50. 7. Эрман М.В. Симптом-синдром-диагноз. Болезни почек и мочевыделительной системы у детей, 2020. 41-110 c. 8. https://app.geekymedics.com/oscestations/renal-system-examination-1/ 9. https://geekymedics.com/urinalysis-osceguide/	1. TBL 2. Working with a patient for at least 20% of the study time t 3. Participation in clinical rounds

		Demonstrates the ability and need for continuous professional training and improvement of their knowledge and skills of professional activity;		
2	Nephroti c syndrom e (NS)	Learning outcomes: - Apply knowledge of pathogenesis to identify nephrotic syndrome;Проводить целенаправленный расспрос и физикальное обследование с учетом возрастных особенностей при обследовании пациента с нефротическим синдромом; - Determine edema according to the degree of gradation: 1+, 2+, 3+; - Assign an examination plan for patients with NS; - Interpret laboratory data (OAC, OAM, ACR, BAC - total protein, albumin, cholesterol, glucose, creatinine, urea, electrolytes, coagulogram, ELISA immunoblotting, ELISA for viral hepatitis, HIV, anti PLA2R); instrumental (ultrasound of the kidneys); - Calculate the albumin-creatinine ratio; - Calculate the glomerular filtration rate; - Interpret the results of a kidney biopsy: light microscopy, immunofluorescence, electron microscopy to clarify the morphological variant of NS; - Establish nephrotic syndrome and a list of the most likely diseases that may be accompanied by NS based on the results of clinical, laboratory and morphological data; - Integrate knowledge for the identification and differential diagnosis of primary and secondary NS (minimum change disease, focal segmental glomerulosclerosis, membranous nephropathy); - Able to determine indications and contraindications for nephrobiopsy; - Substantiate the preliminary diagnosis using medical terminology;	1. Мухин Н.А., Моисеев В.С. Пропедевтика внутренних болезней: учебник. — 2-е изд., доп. и перераб. М.: ГЭОТАР – 2020г, стр 649-725 . 2. & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, р. 323-327 (Электронный ресурс). 3. Нефрология. Окулык. /Қанатбаева А.Б, Қабулбаев К.А ред — М: Литтера, 2016. — 81-102c. 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. — 84-107. 5. Шилов Е.М. Нефрология: клинические рекомендации, 2023, с.78-144. 6. Brenner and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020. Chapter 4, 26, 30-32. 7. KDIGO 2021 Clinical Practice Guideline for the Management of Glomerular Diseases. Kidney International, 2021 Vol: 100, Issue: 4, Page: S1-S276 8. Nephrology secrets, fourth edition edited by Edgar V. Lerma, 2019, Part IV. 9. Harrison's Nephrology and Acid- Base Disorders, 3 rd Edition, J. L. Jameson; J.Loscalzo. 2017, 162-189 p. 10. Handbook of renal biopsy pathology Alexandr J. Howie, Third edition, 2020, 297p.	1. TBL 2. Working with a patient for at least 20% of the study time 3. Work in the department of functional diagnostics 4. Training in the simulation center

		 Prescribe treatment for a patient with NS, taking into account the individual characteristics of the patient, pharmacodynamics and pharmacokinetics of drugs (diuretics, glucocorticosteroids, cystostatics, anticoagulants). Demonstrates communication skills, skills of independent work, teamwork, organization and management of the diagnostic and treatment process; Apply knowledge of the principles and methods of forming a healthy lifestyle for a person and family; Demonstrates basic research skills. 	11. History and Clinical Examination at a Glance Third edition Jonathan Gleadle 178-179 ctp 12. Graham Douglas , Fiona Nicol . Macleods Clinical Examination. 13th Edition – 2013 year 137-165 Step-up_to_Medicine_4th_edition_2016, 79-88 pages 13. https://geekymedics.com/measuring-recording-urine-output/	
3	Nephritic syndrom e (NiS)	 Apply knowledge of pathogenesis to identify nephritic syndrome; Carry out targeted questioning and physical examination taking into account age characteristics when examining a patient with nephritic syndrome; Determine edema according to the degree of gradation: 1+, 2+, 3+; Assign an examination plan for patients with NIS; Interpret laboratory data (OAC, OAM, ACR, BAC - total protein, albumin, cholesterol, glucose, creatinine, urea, electrolytes, coagulogram, ELISA immunoblotting, ELISA for viral hepatitis, HIV, anti PLA2R); instrumental (ultrasound of the kidneys); Calculate the albumin-creatinine ratio; Calculate the glomerular filtration rate; Interpret the results of a kidney biopsy: light microscopy, immunofluorescence, electron microscopy to clarify the morphological variant of NS; Integrate knowledge for the identification and differential diagnosis of primary and secondary NIS (post-streptococcal 	1. Мухин Н.А., Моисеев В.С. Пропедевтика внутренних болезней: учебник. — 2-е изд., доп. и перераб. М.: ГЭОТАР – 2020г, стр 649-725 . 2. & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, р. 323-327 (Электронный ресурс). 3. Нефрология. Окулык. /Қанатбаева А.Б., Қабулбаев К.А ред — М: Литтера, 2016. — 81-102с. 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. — 97-113, 131-146. 5. Шилов Е.М. Нефрология: клинические рекомендации, 2023, с. 156-226. 6. Вгеппет and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020. Chapter 4, 26, 30-32. 7. KDIGO 2021 Clinical Practice Guideline for the Management of Glomerular Diseases. Kidney International, 2021 Vol: 100, Issue: 4, Page: S1-S276.	1. TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center

		glomerulonephritis, RPGN, MPGN, granulomatosis with polyangiitis, Sjögren's disease, etc.); - Conduct differential diagnosis of hematuria - glomerular and non-glomerular origin; - Substantiate the preliminary diagnosis using medical terminology; - Prescribe treatment for a patient with NIS, taking into account the individual characteristics of the patient, pharmacodynamics and pharmacokinetics of drugs (diuretics, glucocorticosteroids, cystostatics, anticoagulants, antibiotics, ACE inhibitors, CCBs, etc.); - Integrate knowledge and skills to ensure an individual approach in the treatment of a particular patient; - Demonstrates communication skills, skills of independent work, teamwork and information resources; - Possesses basic skills in maintaining current accounting and reporting medical documentation, including in information systems; Demonstrates adherence to professional values such as altruism,	8. Nephrology secrets, fourth edition edited by Edgar V. Lerma, 2019, Part IV. 9. Harrison's Nephrology and Acid- Base Disorders, 3 rd Edition, J. L. Jameson; J.Loscalzo. 2017, 162-189 p. 10. Handbook of renal biopsy pathology Alexandr J. Howie, Third edition, 2020, 297p. 11. History and Clinical Examination at a Glance Third edition Jonathan Gleadle 178-179 crp 10. Graham Douglas, Fiona Nicol. Macleods Clinical Examination. 13th Edition – 2013 year 137-165 Step-up_to_Medicine_ 4th_edition_2016, 79-88 pages	
4	Kidney failure syndrom e: acute kidney injury (AKI)	 compassion, empathy, responsibility, honesty and confidentiality; Learning outcomes: Apply knowledge of pathogenesis for detection and differential diagnosis of renal failure; Carry out targeted questioning and physical examination taking into account age characteristics when examining a patient with renal insufficiency; Determine edema according to the degree of gradation: 1+, 2+, 3+; Identify and differentiate options for acute kidney injury; Identify and differentiate the symptoms of acute and chronic renal failure - clinical, laboratory and instrumental (ultrasound of the kidneys, ultrasound of the vessels of the kidneys, ECG); 	1. Мухин Н.А., Моисеев В.С. Пропедевтика внутренних болезней: учебник. — 2-е изд., доп. и перераб. М.: ГЭОТАР – 2020г, стр 649-725. 2. & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, р. 323-327 (Электронный ресурс). 3. Нефрология. Окулык. /Қанатбаева А.Б, Қабулбаев К.А ред — М: Литтера, 2016. — 264-293 б. 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. — 334-366.	1. TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center

		 Interpret the results of general clinical tests and acid-base balance (blood gases); Calculate the albumin-creatinine ratio; Calculate the glomerular filtration rate; Able to identify indications and contraindications for nephrobiopsy in RPGN; Substantiate the preliminary diagnosis using medical terminology; Prescribe conservative therapy for patients with AKI, taking into account the individual characteristics of the patient, comorbidities, complications - hypotensive, renoprotective, antibacterial, corticosteroids, cytostatics, drugs for the correction of metabolic acidosis, electrolyte disorders, etc.; Determines the indications and contraindications for renal replacement therapy (acute hemodialysis, acute peritoneal dialysis); Prescribe treatment for emergency conditions, such as hyper- and hypokalemia, hyper- and hyponatremia, edematous syndrome, etc. Assign therapeutic nutrition to patients with AKI - nutritional support; Improves interpersonal communication and patient counseling skills; Primary delivery by the and of the discipline. 	5. Шилов Е.М. Нефрология: клинические рекомендации, 2023, с. 561-617. 6. Brenner and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020. Chapter 4, 26, 30-32. 7. Nicholas J Talley, Brad Frankum & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, p. 358-363 (Электронный ресурс). 8. Harrison's Nephrology and Acid- Base Disorders, 3 rd Edition, J. L. Jameson; J.Loscalzo. 2017, page 43-58. 9.Harrisson's Manual of Medicine/ 20th Edition, p. 2433-2449.	
		followed by delivery by the end of the discipline.		
5	Kidney failure syndrom e: chronic kidney disease (CKD)	 Learning outcomes: Apply knowledge of pathogenesis for detection and differential diagnosis of AKI and CKD; Carry out targeted questioning and physical examination taking into account age characteristics when examining a patient with CKD; 	1. Мухин Н.А., Моисеев В.С. Пропедевтика внутренних болезней: учебник. — 2-е изд., доп. и перераб. М.: ГЭОТАР – 2020г, стр 649-725. 2. & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, р. 323-327 (Электронный ресурс).	1. TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center

- Determine edema according to the degree of gradation: 1+,
 2+, 3+;
- Identify and differentiate the stages of CKD;
- Identify and differentiate the symptoms of CKD using clinical, laboratory and instrumental studies (ultrasound of the kidneys, ultrasound of the vessels of the kidneys, MRI of the vessels of the kidneys);
- Interpret the results of general clinical tests (OAC, OAM, ACR, biochemical blood test total protein, albumin, creatinine, urea, serum iron, ferritin, transferrin, calcium, phosphorus, parathyroid hormone, potassium, sodium, vitamin D, viral hepatitis B and C, KShchS blood gases) and instrumental (ultrasound of the kidneys, ultrasound of the vessels of the kidneys, MRI of the vessels of the kidneys, ECG, EchoCG);
- Calculate the albumin-creatinine ratio;
- Calculate the glomerular filtration rate;
- Substantiate the preliminary diagnosis using medical terminology;
- Identify complications of CKD depending on the stage: hypertension, anemia, mineral and bone disorders, metabolic acidosis;
- Assign therapeutic nutrition to patients with CKD nutritional support;
- Prescribe conservative therapy for patients with CKD, taking into account the individual characteristics of the patient, concomitant diseases, complications hypotensive, renoprotective, diuretics, EPO drugs, calcimimetics, drugs for the correction of metabolic acidosis, electrolyte disorders, etc.;
- Determines the indications and contraindications for renal replacement therapy (chronic hemodialysis, chronic peritoneal dialysis);

- 3. Нефрология. Оқулық. /Қанатбаева А.Б, Қабулбаев К.А ред М: Литтера, 2016. 293-307 б.
- 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. -367-425.
- 5. Шилов Е.М. Нефрология: клинические рекомендации, 2023, с. 633-770.
- 6. Brenner and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020. Chapter 4, 27, 51-68.
- 7. Harrison's Nephrology and Acid- Base Disorders, 3rd Edition, J. L. Jameson; J.Loscalzo. 2017, page 43-58.
- 8. Harrisson's Manual of Medicine/ 20th Edition, p. 2332-2342, p. 2347-2405.
- 9. Davidson's principles and practice of Medicine, 22nd edition, pgs 928, 943

		Demonstrates communication skills, skills of independent work, teamwork, organization and management of the diagnostic and treatment process;		
6	Urinary tract infection. Urolithia sis disease.	Learning outcomes: - Apply knowledge of pathogenesis for detection and differential diagnosis of complicated and uncomplicated urinary tract infections; - Carry out targeted questioning and physical examination taking into account age characteristics when examining a patient with UTI; - Identify and differentiate the symptoms of complicated / uncomplicated when interviewing a patient (pyelonephritis, cystitis, urethritis); - Assign an examination plan to a patient with UTI, ICD; - Interpret and generalize the data of physical and laboratory-instrumental examination obtained during the examination of the patient - UAC, OAM, BAC, urine culture, ultrasound of the kidneys, bladder, CT-OBP, MRI-OBP; - Calculate the glomerular filtration rate; - Diagnose the ICD and provide emergency assistance in case of an attack; - Substantiate the preliminary diagnosis using medical terminology; - Build a treatment strategy for complicated and uncomplicated UTIs: antimicrobials, uroseptics, litholytics, antispasmodics; - Improve interpersonal communication and patient counseling skills; Demonstrates the ability and need for continuous professional training and improvement of their knowledge and skills of professional activity;	1. Мухин Н.А., Моисеев В.С. Пропедевтика внутренних болезней: учебник. — 2-е изд., доп. и перераб. М.: ГЭОТАР – 2020г, стр 649-725. 2. & David Currow. Essentials of Internal medicine Elsevier. 3d edition, Chapter 12, р. 323-327 (Электронный ресурс). 3. Нефрология. Окулык. /Қанатбаева А.Б, Қабулбаев К.А ред — М: Литтера, 2016. — 213-233 б. 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. —257-292. 5. Brenner and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020. Chapter 36-38, 48, 72 6. Nephrology secrets, fourth edition edited by Edgar V. Lerma, 2019 Part I, VIII (Chapter 44). 7. Harrisson's Manual of Medicine/ 20th Edition, Section 6, chapter 45, p. 276-281, p. 2342-2347, 2422-2433. 8. Bickley L. Bates' Guide to Physical Examination and History-Taking. Lippincott Williams & Wilkins; 2012	1. TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center

	Male	Learning outcomes:	1. Мухин Н.А., Моисеев В.С.	1. TBL
1	reproduc	 Apply knowledge of pathogenesis to identify and 	Пропедевтика внутренних болезней:	2. Working with a
1	tive	differential diagnosis of diseases of the reproductive	учебник. — 2-е изд., доп. и перераб. М.:	patient for at least
	system	system: acute and chronic prostatitis, urinary incontinence	ГЭОТАР – 2020г, стр 104-178.	20% of the study
		(stress, imperative, nocturnal incontinence, situational	2. Nicholas J Talley, Brad Frankum & David	time
		urinary incontinence), urinary retention when interviewing	Currow. Essentials of Internal medicine	3. Training in the
		a patient;	Elsevier. 3d edition, Chapter 12, p. 384-400	simulation center
		 Carry out targeted questioning and physical examination 	(Электронный ресурс)	
		taking into account age characteristics when examining a	4. Harrisson's Manual of Medicine/ 20th	
		patient with a pathology of the male reproductive system;	Edition, Section 6, chapter 44, p. 272-276, p.	
		 Identify and conduct differential diagnosis and treatment of 	281-285, p. 2405-2414.	
		pain syndrome: pain in diseases of the urinary syndrome,	5. Talley and O'connor's Clinical	
		prostate gland, diseases of the testicle and epididymis;	Examination 8 th edition. Chapter 14, 274-276	
		 Be guided by the basic principles of diagnosis of urological 	стр.	
		causes of hematuria;	6. Клинические рекомендации.	
		 Interpret the results of the examination (CBC, biochemical, 	Недержание мочи, 2020, 63 с.	
		Coagulogram, PSA, ultrasound, kidneys, bladder, prostate,	7. Под редакцией Д.Ю. Пушкаря.	
		CT/MRI, small pelvis);	Урология, 2-е издание, переработанное и	
		- Substantiate the preliminary diagnosis using medical	дополненное, 31-51 с.	
		terminology;		
		 Prescribe treatment for patients with pathology of the male 		
		reproductive system;		
		Demonstrate adherence to professional values such as altruism,		
		compassion, empathy, responsibility, honesty		
	Nephrolo			1. TBL
	gical	Learning outcomes:	1. Мухин Н.А., Моисеев В.С.	2. Working with a
	aspects	- Apply knowledge of pathogenesis to identify and	Пропедевтика внутренних болезней:	patient for at least
	in	differential diagnosis of physiological and	учебник. — 2-е изд., доп. и перераб. М.:	20% of the study
	pregnant	pathophysiological changes during pregnancy when	ГЭОТАР – 2020г, стр 649-725.	time
'	women	interviewing a patient;	2. & David Currow. Essentials of Internal	3. Training in the
		 Carry out a targeted questioning and physical examination, 	medicine Elsevier. 3d edition, Chapter 12, p.	simulation center
		taking into account the timing of pregnancy and the	323-327 (Электронный ресурс).	
		pathology of the MVS;		

- Identify and differentiate the variants of complicated and uncomplicated UTI, glomerular diseases, renal failure;
- Interpret and generalize the data of physical and laboratory-instrumental examination obtained during the examination of the patient CBC, biochemical, urine culture for flora, ultrasound of the kidneys, substantiate the preliminary diagnosis using medical terminology;
- Calculate the albumin-creatinine ratio;
- Calculate the glomerular filtration rate
- Prescribe treatment for pregnant women, taking into account individual characteristics, gestational age, pharmacodynamics and pharmacokinetics, and the effect on the fetus;
- Determine indications for prolongation of pregnancy with kidney pathology;
- Improve interpersonal communication and patient counseling skills;

Resubmission of the medical history with correction of errors and assessment of the student's skills

- 3. Нефрология. Оқулық. /Қанатбаева А.Б, Қабулбаев К.А ред М: Литтера, 2016. 197-208 б.
- 4. Нефрология. Учебник/ Канатбаева А.Б., Кабулбаев К.А., 2021. –234-245.
- 5. Brenner and Rector's The Kidney, 2-Volume Set, 11th Edition, Alan Yu et al. 2020. Chapter 36-38, 48, 72
- 6. Nephrology secrets, fourth edition edited by Edgar V. Lerma, 2019 Part I, VIII (Chapter 44).

RUBRICATOR FOR ASSESSING LEARNING OUTCOMES with summative assessment

Rating calculation formula

For the 4th course as a whole- overall admission rating (OAR)

Curation, clinical skills	20%
SIW (case, video, simulation OR research thesis, report, article) – assessment of a creative task	10%
Border control	70%
Total for BC-1	100%
Medical history	20%
SIW (case, video, simulation OR research thesis, report, article) – assessment of a creative task	10%
Border control 2	70%
Total for BC -2	100%

Final score: OAR 60% + exam 40%

Exam (2 stages) – MSQ testing (40%) + OSKE (60%)

Team based learning – TBL

	%
Individual (IRAT)	30
Group (GRAT)	20
Appeal	10
Case rating -	30
Companion rating (bonus)	10
	100%

Point-rating assessment of practical skills at the bedside (maximum 100 points)

	Criteria	10	8	6	4	2
Nº	(evaluated according to the point system)	Excellent	Good	Satisfactory	Need correction	Bad
	,		INTERVIEWING 7	THE PATIENT	1	
1	Communication skills in interviewing a patient	Introduced himself to the patient. He asked how to address the patient. He spoke in a friendly tone, his voice was sonorous and clear. Polite wording of the questions. He showed empathy for the patient - the doctor's posture, approving of "fading". I asked openended questions.	Introduced himself to the patient. He asked how to address the patient. He spoke in a friendly tone, his voice was sonorous and clear. Polite wording of the questions. He showed empathy for the patient - the doctor's posture, approving of "fading". I asked openended questions.	Introduced himself to the patient. He asked how to address the patient. He spoke in a friendly tone, his voice was sonorous and clear. Polite wording of the questions. Few openended questions have been asked	He did not fully introduce himself to the patient, did not ask the patient's name, the student's speech was slurred, and his voice was not legible. Openended questions are not asked, the patient answers in monosyllables. The student did not pay attention to the convenience of the patient, did not show empathy.	Communication with the patient is negative. The basic requirements for communicating with the patient are not met, there is no manifestation of empathy for the patient.
	Collecting complaints	Identified the main and secondary complaints of the patient. Revealed important details of the disease (for example, is there nausea, vomiting, abdominal pain? What kind of character?). He asked questions about the differential diagnosis.	Identified the main and secondary complaints of the patient. Have you identified important details of the disease (for example, nausea, vomiting, abdominal pain? What kind of character?).	Identified the main complaints of the patient. Revealed important details of the disease.	The student cannot distinguish the main complaints from the secondary ones. Did not reveal important details of the disease. He asks chaotic questions.	He did NOT reveal any details of the disease. The collection of complaints is limited only by the subjective words of the patient himself.

	Collecting anamnesis of the disease	Revealed the chronology of the disease, important details of the disease (for example, when do abdominal pains appear?). I asked about the medications taken for this disease. He asked questions about the differential diagnosis.	Revealed the chronology of the disease, important details of the disease (for example, when do abdominal pains appear?). A student asked about the medications taken for this disease.	Revealed the chronology of the disease development. A student asked about the medications taken for this disease.	The student cannot build a chronology of the development of the disease. He asks chaotic questions.	The stage was skipped by the student. There is only information given by the patient himself.
	Anamnesis of life	The student revealed an allergic anamnesis, chronic diseases, operations, blood transfusions, medication taken on a regular basis, family history, social status of the patient, occupational hazards, and epidemiological history.	Revealed allergic anamnesis, chronic diseases, operations, medications taken regularly, family history, social status of the patient, occupational hazards, epidamnesis	Revealed an allergic anamnesis, chronic diseases, family history.	Revealed an allergic anamnesis, a family history.	The stage was skipped by the student. There is only information given by the patient himself.
2	The quality of the patient survey	The patient's survey was conducted sequentially in order, but depending on the situation and the patient's characteristics, the student changed the order of the survey. In the end, he sums up — summarizes all the	The patient is interviewed sequentially in order. In the end, he summarizes - sums up all the questions and receives feedback from the patient (for example, let's summarize - you got sick a week ago when nausea with repeated	The survey sequence is broken, but the quality of the information collected allows us to suggest a probable diagnosis. Does not use a problem sheet - does not know	The survey sequence is broken. The student repeats the same questions. The information collected is of poor quality and does not allow for a probable diagnosis.	The survey is not conducted consistently, the student asks random questions that are not related to the patient's case or does not ask questions at all.

		questions, and receives feedback from the patient (for example, let's summarize - you got sick a week ago when nausea with repeated vomiting first appeared, then diarrhea appeared, is that right?). High-quality detailed information has been collected, leading to a probable diagnosis. Uses a problem sheet — can identify major and minor problems.	vomiting first appeared, then diarrhea appeared, is that correct?). High-quality detailed information is collected, leading to a probable diagnosis. Uses a problem sheet - knows how to highlight the main and secondary problems.	how to identify major and minor problems.	Does not use a problem sheet – does not know how to identify major and minor problems.	Does not use a problem sheet - does not know how to identify major and minor problems.
3	Time management of patient interview. Control over the situation.	Minimal time in the group was spent on interviewing the patient. The student is selfconfident, fully controls the situation, and manages it. The patient is satisfied.	The survey was conducted fairly quickly. The student is self-confident and in control of the situation. The patient is satisfied.	The time of questioning the patient is prolonged but does not cause discomfort to the patient. The student does not lose his composure. There is no negativity on the part of the patient.	Long survey, the student is wasting his time. The patient expresses discomfort with the drawn-out survey. The student is not confident and is at a loss when communicating with the patient.	The survey is completed without revealing any important information. The survey is taking too long, and the atmosphere of communication is negative. Conflict with the patient is possible.
	T		PHYSICAL EXAMINATION			
		10	8	6	4	2
		Excellent	Good	Satisfactory	Need correction	Bad
4	Communication skills during physical	Asked the patient (or relatives, parents, or guardians) for consent to	Asked the patient (or relatives, parents, or guardians) for consent to	Asked the patient (or relatives, parents, or guardians) for consent	Asked the patient (or relatives, parents, or guardians) for consent	Contact with the patient's body

	examination of a patient	conduct a physical examination. Explained to the patient what and	conduct a physical examination. Explained to the patient what and how he	to conduct a physical examination. Explained to the patient what and	to conduct a physical examination.	without prior consent.
		how he will check (for example, I will listen to your lungs with a stethoscope, check your abdomen with my hand)	will check (for example, I will listen to your lungs with a stethoscope, check your abdomen with my hand)	how he will check (for example, I will listen to your lungs with a stethoscope, check your abdomen with my hand)		
	Assessment of the patient's level of consciousness using the Glasgow scale.	Calculated the points on the scale correctly. Correctly uses medical terminology to indicate the level of consciousness.	Calculate the points on the scale correctly. Correctly uses medical terminology to indicate the level of consciousness.	The error in the assessment on the scale is no more than 2 points. Knows the terminology for indicating the level of consciousness.	The error in the assessment on the scale is more than 3 points. Confused in medical terminology.	Does not know the Glasgow scale criteria. Does not know how to use it. Does not know how to differentiate the level of consciousness.
5	Assessment of the patient's vital signs - heart rate, respiratory rate, blood pressure, body temperature, body mass index.	Measured vital signs technically correctly. Correctly uses medical terminology when assessing vital signs (e.g., tachypnea, tachycardia, hypoxia, etc.)	Measured vital signs technically correctly. Correctly uses medical terminology when assessing vital signs (e.g., tachypnea, tachycardia, hypoxia, etc.)	Minor errors in the technique of measuring vital signs. The results of the measurements are not distorted. The student can correct the errors in the use of medical terminology himself.	Gross errors in the technique of measuring vital signs, distortion of results. Cannot independently correct errors in medical terminology.	Does not have the technique for measuring vital signs. Does not know the standard data for assessing blood pressure, pulse, respiratory rate, saturation, and body temperature.
6	Technique for conducting a physical	Conducted a physical examination of the patient by systems, in the established order, the	The physical examination of the patient was carried out systematically in order, the technique of palpation,	The physical examination of the patient was conducted in violation of the	Physical examination was not performed systematically, the patient stood up, lay	Gross violations during physical examination - does not know the

examination of a patient.	technique of palpation, auscultation, and percussion is correct.	auscultation and percussion is correct. Explain to the patient what	systemic order, but without causing inconvenience to the	down, changed position several times, and experienced	procedure and technique for conducting a
	Explain to the patient what changes were detected and what the norm should be. All important physical data (both pathological and normal) for making a probable diagnosis were identified.	changes were detected and what the norm should be. All important physical data (both pathological and normal) were identified to establish a probable diagnosis. Details the symptoms identified (for example, have you noticed swelling in	patient. The technique of palpation, auscultation, and percussion is satisfactory but requires minor corrections from the teacher. The main violations were identified, sufficient for making a probable diagnosis	discomfort. Only individual systems were covered, The technique of performing palpation, percussion, auscultation - required significant correction by the teacher. Confused in	physical examination of a patient. Does not know the norm and pathology of physical data. Cannot identify any violations.
	The student knows how to change the order of examination depending on the symptoms identified. Details the symptoms identified (for example, have you noticed swelling in your legs? How long have you noticed this? Does the swelling increase in the evening or in the morning?) At the end, summarizes - the correspondence of the changes identified during the physical examination	your legs? How long have you noticed this? Does the swelling increase in the evening or the morning?)	probable diagnosis.	determining normal and pathological changes. The main disorders were NOT identified. Insufficient data to make a probable diagnosis.	

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		to the complaints and				
	2611	anamnesis of the patient.				
	Making a	The most complete	The most complete	Justification of the	A template or intuitive	Formulation of
	preliminary	justification and	justification and formulation	preliminary diagnosis	formulation of a	diagnosis at
	syndromic	formulation of a	of the preliminary diagnosis	based on complaints	preliminary diagnosis	random does not
	diagnosis	preliminary diagnosis	with the justification of the	and physical	cannot justify (i.e., link	understand and
	Laboratory and	with the justification of	complaints and physical	examination	complaints, chronology	does not see the
	visual	complaints and physical	examination data	in terms of the	of symptom	connection between
	examination	examination data,	Correct and justified in	underlying pathology.	development, and	the complaints and
	plan (BT, UT,	conducted differential	terms of the underlying	Determined the main	physical data).	the patient's
	biochemical test,	diagnostics for the main	pathology.	examination for	The prescribed	medical history.
	pathological	syndromes based on	Conducted differential	diagnosis.	examination does not	The prescribed
	fluids,	complaints data, disease	diagnostics for the main		allow to confirm the	examination does
	visualization	development and	syndromes.		diagnosis.	not allow to
	methods)	detected physical	Correctly named the			confirm the
		abnormalities.	necessary laboratory and			diagnosis.
		Understand the problem	instrumental examination			The prescribed
7		as a whole, link it to the	for diagnosis, named the			examination can
		patient's characteristics.	expected changes.			harm the patient's
		Correctly prescribed	Explained to the patient			health.
		laboratory and	important points in			
		instrumental	preparation for the			
		examination, taking into	examination.			
		account the differential				
		diagnosis (that is, named				
		what he prescribes, for				
		what, and expected				
		changes).				
		Explained to the patient				
		important points in				
		preparation for the				
		examination (for				
		example, if the glucose				

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		test is on an empty				
		stomach, then do not				
		drink, do not eat, do not				
		brush your teeth, etc.)				
	Interpretation of	Accurate and complete	Accurate and complete	Identifying major	Incomplete or not	Does not use
	laboratory and	interpretation using	interpretation using medical	deviations in tests,	entirely correct	medical
	instrumental	medical terminology,	terminology	correct use of medical	interpretation, lack of	terminology, does
	examination	understands the		terminology	knowledge of	not know
	results	relationship/or			normative data, errors	regulatory data
	(BT, UT,	discrepancy of the			in the use of medical	
	biochemical test,	detected deviations with			terminology	
8	biopsy,	the preliminary diagnosis				
	visualization					
	methods FGDS,					
	X-ray, CT, MRÍ,					
	Elastometry,					
	PET, ultrasound,					
	etc.)					
	Formulation of	The student formulates	The student formulates the	The student formulates	The student can	The student cannot
	the final	the underlying disease.	underlying disease. When	the main disease. The	formulate only the	formulate a
	syndromic	When formulating the	formulating the underlying	clinical classification is	main disease. Cannot	diagnosis. Or
	diagnosis, with	underlying disease, use	disease, use the clinical	not complete. The	fully explain the	cannot explain the
	justification	the clinical classification	classification of the disease.	student substantiates his	rationale for the	rationale for the
	based on the	of the disease. Assesses	Assesses the severity of the	opinion on objective	diagnosis. For	diagnosis (name
	examination	the severity of the	disease. Names the	data (anamnesis,	example: pneumonia	the diagnosis at
9	results	disease. Names the	complications of the	examination results).	(or such answers as	random following
	Tesaits	complications of the	underlying disease. The	For example:	lung tissue	the topic of the
		underlying disease.	student substantiates his/her	Community-acquired	compaction syndrome,	lesson)
		The student substantiates	opinion on objective data	pneumonia, is typical.	obstructive syndrome,	1635011)
		his/her opinion on	(anamnesis, examination	pheumoma, is typical.	acute respiratory	
		objective data	results). For example:		failure syndrome, etc.	
		1 -			_	
		(anamnesis, examination	Community-acquired lobar		are perceived as	
		results).	pneumonia, is typical.		equivalent).	

		For example: Community-acquired lobar pneumonia, is typical. Moderate course. (or severe course, complication - pleural empyema	Moderate course. (or severe course, complication - pleural empyema)			
10	Treatment principles	Knows the groups of main, i.e. the main drugs for the treatment of a given disease, their mechanism of action, and the classification of these drugs. Makes a reasonable choice of drugs: taking into account the indications and contraindications for a given patient. Informs the patient about the most important side effects of the prescribed drugs. Informs the patient about the features of taking the drug (for example, after meals, with plenty of water, etc.) Determined the criteria for the effectiveness of treatment, and the expected time frame for	Knows the groups of main, i.e. the main drugs for the treatment of a given disease, their mechanism of action, and the classification of these drugs. Determines the indications and contraindications for a given patient. Informs the patient about the most important side effects of the prescribed drugs. Informs the patient about the features of taking the drug (for example, after meals, with plenty of water, etc.) Determined the criteria for the effectiveness of treatment.	Knows only the basic principles of treatment. Names only a group of basic drugs for the treatment of a given disease (for example, broad-spectrum antibiotics). Knows the mechanism of action of basic drugs.	Knows only the basic principles of treatment. Can only name the class of drugs (for example, antibiotics or bronchodilators). Does not know the classification of drugs. Explains the mechanism of action in general terms at the layman's level (for example, antibiotics kill bacteria, etc.)	

	improvement of the				
	patient's condition.				
	Named the terms and				
	methods of monitoring				
	treatment, subjective and				
	objective data, laboratory				
	and visualized data on				
	monitoring treatment.				
ИТОГО	100	80	60	40	20

Point-rating assessment (check-list) of medical history management (maximum 100 points)

	Criteria (evaluated	10	8	6	4	2
№	according to the point system)	Excellent	Good	Satisfactory	Need correction	Bad
1	Patient complaints: primary	Complete and systematic,	Accurate and	Basic information	Incomplete or	Misses the important
1	and secondary	with an understanding of	complete		inaccurate, some	thing
2	Collection of anamnesis of	important details			details are missing	
	the disease					
3	Anamnesis of life					
	Objective status - general	Complete, efficient,	Consistently and	Identifying key	Incomplete or not	Inconsistent data
4	examination	organized, with an	correctly	data	quite correct, not	
-		understanding of important			attentive to the	
		details			patient's comfort	
5	Respiratory system	Complete, effective,	Complete, effective,	Basic data	Incomplete or	Missing Important Data
6	Cardiovascular system	technically correct	technically correct	identified	inaccurate	

	Digestive system	application of all skills of	application of all	Physical	Physical examination	Inappropriate Physical
7		inspection, palpation,	examination skills,	examination skills	skills require	Examination Skills
/		percussion and	physical examination	learned	improvement	
		auscultation	with minor errors, or			
	Urogenital system	Complete, effective,	corrected during			
8		technically correct	performance			
0		application of all special				
		examination skills				
	Musculoskeletal system	Complete, effective,				
9		technically correct				
9		application of all special				
		examination skills				
	Presentation of medical	The most complete	precise, focused;	The entry form	Many important	Lack of control over the
	history	description and	choice of facts	includes all the	omissions, often	situation, many
10		presentation	shows understanding	basic information;	includes false or	important omissions,
10		Understood the problem as			unimportant facts	many clarifying
		a whole, connects it with				questions
		the patient's characteristics				

Point-rating assessment (check-list) of the ISW (independent student's work) - creative task (maximum 90 points) + bonuses for English and time management

		10	8	4	2
1	Problem	The organized concentrated,	Organized, the concentrated,	Not the concentrated,	Inaccurate, misses the main
	solving	allocates all questions which are	allocates all questions which are	Derivation on the questions	thing, disharmonious data.
		falling into to the main revealed	falling into to the main revealed	which are not falling into to the	
		problem with a comprehension	problem, but there is no	main revealed problem	
		of a concrete clinical situation	comprehension of a concrete	-	
			clinical situation		

2	Information	All necessary information on a subject in the free, serial, logical manner is completely conveyed The product form is adequately chosen	All necessary information in a logical manner, but with shallow inaccuracies is conveyed	All necessary information on a subject is explained chaotically, with not gross errors	Important information on a subject, gross errors is not reflected
3	Significance	Material is chosen on the basis of authentically established facts. Manifestation of a comprehension on the level or quality of proofs	Some conclusions and the conclusions are formulated on the basis of assumptions or the incorrect facts. There is no complete comprehension of level or quality of proofs	Not the sufficient comprehension of a problem, some conclusions and the conclusions are based on the inexact and not proved data – doubtful resources are used	Conclusions and the conclusions are not proved or irregular
4	Logic	logical and well reasoning, has internal unity, provisions in a product follow one of another and are logically interdependent between themselves	Has internal unity, provisions of a product one of another follows, but there are inaccuracies	There is no sequence and logicality in statement, but it is possible to keep track of the main idea	Jumps from one on another, it is difficult to catch the main idea
5	Recourses	Literary data are submitted in logical interrelation, show deep study of the main and padding informational resources	Literary data show study of the main literature	Only ordinary recourses	Inconsistency and randomness in statement of data, an inconsistency There is no knowledge of the main textbook Using of Google
6	Practical application	High	Good	moderate	no
7	Patient focusing	High	Good	moderate	no
8	Applicability in future practice	High	Good	moderate	no
9	Presenation	Correctly, to the place all opportunities of Power Point or other e-softs, the free	It is overloaded or are insufficiently used visual	Visual materials are not informative	Does not own material, is not able to explain it

		possession of material, a sure	materials, inexact possession of				
		manner of statement are used	material				
b	Time	10	In time	Good quality but a little late	After deadline more than 24		
0	management*	For before deadline		Minus 2-4	hours		
n					Minus 10		
u							
S							
b	Rating**	10 points additional	Outstanding work, for example:				
0			The best work in group				
n			Creative approach				
u			Innovative approach to realization	n of a task			
S			According to the proposal of group				
			ale - the day of the boundary contro				
	** thus, you can	get 90 points as much as possible	, to get above 90-you need to show	a result higher than expected			