SYLLABUS ІШКІ АУРУЛАР ВНУТРЕННИЕ БОЛЕЗНИ INTERNAL MEDICINE

1	General information about the discipline		
1.1	Faculty/School: Medicine and Healthcare Department of Internal Medicine	1.6	Credits (ECTS): 10 credits-300 hours, of which 150 are contact hours (practical training)
1.2	Educational program (EP): 6В10103 ЖАЛПЫ МЕДИЦИНА 6В10103 ОБЩАЯ МЕДИЦИНА 6В10103 GENERAL MEDICINE	1.7	Рrerequisites: 1. Жалпы патология/Общая патология/General pathology 2. Наукас және дәрігер/Пациент и врач/Patient and doctor 3. Жүйе мүшелердің патологиясы/Патология органов систем/Pathology of organs and systems Postrequisites: 1. Жедел медициналық көмек және қарқынды терапия (мамандық практикасымен итегрирленген)/Экстренная медицина и интенсивная терапия (с интегрированной профпрактикой)/Emergency Medicine and Critical (Intensive) Care (theoretical training and professional practice) 2. Маманды дамыту модулі (мамандық практикасымен итегрирленген)/Модуль профессионального развития (с интегрированной профпрактикой)/ Professional Development (theoretical training and professional practice)
1.3	Agency and year of accreditation of the EP IAAR 2021	1.8	SIW/SPM/SRD (qty): 100 hours
1.4	Name of discipline: Ішкі аурулар/Внутренние болезни/Internal medicine	1.9	SRSP/SRMP/SRDP (number): 50 hours
1.5	Discipline ID: 94353 Discipline code: VB4314	1.10	Required - yes
2.	Description of the discipline		
	During the course to form students' abilities:		

The discipline includes the study of the diagnosis and treatment of patients with the most common somatic diseases in their typical manifestation and course and in the age aspect, based on the principles of evidence-based medicine, using the skills of effective professional communication, interpretation of clinical symptoms and syndromes, data of laboratory and instrumental research methods and the application of basic medical therapeutic, diagnostic and preventive measures

3 Purpose of the discipline

Mastering the diagnosis and treatment of patients with the most common somatic diseases in their typical manifestation and course and in the age aspect, based on the principles of evidence-based medicine, using the skills of effective professional communication, interpretation of clinical symptoms and syndromes, data from laboratory and instrumental research methods and the application of basic medical diagnostic and preventive measures

4.	Learning outcomes (LO) by discipline (3-5)		
	LO disciplines		LO according to the educational program,
			with which the LO is associated by discipline
			(LO No. from the EP passport)
1	To identify and interpret clinical symptoms and syndromes, data	Pro	1. To apply detailed knowledge of the typical structure and functions of the
	from laboratory and visual examination methods in patients with	fici	human body at the level from molecules to cells of organs and the whole
	the most common somatic diseases in their typical manifestation	enc	organism; apply knowledge of the main pathological processes and biological
	and course, taking into account age-related aspects.	У	damage that they cause.
		lev	
		el	
2	Possess the skills of basic medical diagnostic and preventive	Pro	2. Collect information from patients and other sources related to the
	measures to provide medical care to the population with diseases	fici	diagnosis, treatment and prevention of common and emergency conditions,
	of internal organs.	enc	including the performance of diagnostic procedures.
		y	
		lev	
2	D 4 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	el	
3	Possess the initial skills of maintaining current accounting and	Pro	3. Identify and interpret the clinical symptoms and syndromes, the data of
	reporting medical documentation, including in information	fici	laboratory and instrumental methods of research of patients with the most
	systems.	enc	common diseases in their typical manifestation and course in the age aspect;
		y 1	interpret, analyze, evaluate, and prioritize relevant data for developing a plan
		lev	for diagnosing and managing a disease, including initiating appropriate
		el	interventions.
4	Integrates knowledge and skills to ensure an individual approach	Pro	4. Integrate clinical skills and knowledge to provide individualized approach
	in the treatment of a particular patient; teach to make professional	fici	in the treatment of a specific patient, and the strengthening of health in

	decisions based on the analysis of the rationality of diagnosis and the principles of evidence-based medicine.	enc y lev el	accordance with its needs; make professional decisions based on the analysis of the rationality of diagnosis and applying the principles of evidence-based and personalized medicine.
5	Uses communication skills, teamwork skills, organization and management of the diagnostic and treatment process.	Pro fici enc y lev el	5. Apply knowledge of the basic principles of human behavior for effective communication and therapeutic and diagnostic process in compliance with the principles of ethics and deontology; apply knowledge of the psychology of the patient, taking into account cultural characteristics and race; demonstrate skills in teamwork, organization and management of the diagnostic and therapeutic process; effectively build dynamic relationships between doctor and patient, which occur before, during and after medical treatment; effectively communicate medical information verbally and in writing to provide safe and effective care for patients; work effectively in an interprofessional / multidisciplinary team with other health care professionals;
6	Apply knowledge of the principles and methods of forming a healthy lifestyle of a person and family.	Pro fici enc y lev el	6. To provide medical care for the most common diseases in patients of all age groups, in urgent and life-threatening conditions;
7	Demonstrate and use commitment to professional values such as altruism, compassion, empathy, responsibility, honesty and respect for the principles of confidentiality.	Pro fici enc y lev el	7. To apply knowledge of the rights, duties and ways of protecting the rights of the physician and the patient, including the child as a patient, in their professional activities; apply medical knowledge, clinical skills and professional attitude to the patient regardless of his age, culture, faith, traditions, nationality, lifestyle.
8	Demonstrate and use the abilities and needs for continuous professional training and improvement of their knowledge and skills of professional activity.	Pro fici enc y lev el	8. Analyze and maintain the necessary documentation and organization of documents in health care organizations; the use of modern information and digital technology, and health information systems for professional applications

9	Demonstrate and use commitment to the highest standards of professional responsibility and honesty; -observe ethical principles in all professional interactions;		and fa	oly knowledge of the principles and methods of formation a healthy human amily life, population health; apply knowledge of a set factors that nine health and disease for the purpose of prevention
10	Demonstrate the skills of conducting scientific research, the desire for new knowledge and the transfer of knowledge to others. Participate in scientific conferences, write scientific articles	Pro	respon intera	Demonstrate commitment to the highest standards of professional nsibility and honesty; observe ethical principles in all professional ctions with patients, families, colleagues and society as a whole, dless of ethnic characteristics, culture, gender, economic status or sexual ation;
11 12				
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	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 info	rmation about (the discipline			
6.1	Academic ye	ar:	6.3	Timetable (сабақ күні, уа	қыт):	
	2024-2025			From 8.00 to14.00		
6.2	Semester:		6.4	Place		
	8 semester			(educational building, office	ce, platfor	m and link to the DOT learning meeting):
				City Clinical Hospital №1	, City Clin	nical Hospital №7
7.	Discipline le	ader				
Posi	tion	Full name	Department	Contact information	C	onsultations before exams
				(tel., e-mail)		
Seni	or lecturer	Bugibaeva	Clinical	8-702-447-46-31	В	efore the examination session within 60 minutes
		A.B.	discipline			
8.	The content	of the discipline	;			
	Name of the	discipline			Quantit	Conducting form
		-			y of	
					hours	
1.	Bronchitis. A	RVI. Influenza. V	Viral pneumonia	and ARDS	7	Formative assessment:
						1. Using active learning methods: TBL
						2. Working with a patient for at least 20% of the study time
						3. Training in the simulation center
						4. Mini-conference of the ISW topics
2.	Community-a	acquired pneur	nonia. Compli	ications of pneumonia.	7	Formative assessment:
	Suppurative	lung diseases. S	Sepsis. DIC syı	ndrome. Hospital-acquired		1. Using active learning methods: TBL
	pneumonia ai	nd pneumonia in	immunocompro	mised individuals		2. Working with a patient for at least 20% of the study time
						3. Training in the simulation center
						4. Mini-conference of the ISW topics
3.	Bronchial ast	hma. Complicati	ions and emerge	encies in bronchial asthma.	7	Formative assessment:
	Anaphylaxis,	anaphylactic sho	ock			1. Using active learning methods: TBL
						2. Working with a patient for at least 20% of the study time
						3. Training in the simulation center
						4. Mini-conference of the ISW topics
4.	COPD				7	Formative assessment:
						1. Using active learning methods: TBL
						2. Working with a patient for at least 20% of the study time
						3. Training in the simulation center

			4. Mini-conference of the ISW topics
5.	Respiratory failure. Disseminated lung diseases. Acute and chronic cor	7	Formative assessment:
	pulmonale		1. Using active learning methods: TBL
			2. Working with a patient for at least 20% of the study time
			3. Training in the simulation center
			4. Mini-conference of the ISW topics
6.	Ischemic heart disease. Stable exertional angina. CHD treatment. Chronic	8	Formative assessment:
	heart failure		1. Using active learning methods: TBL
			2. Working with a patient for at least 20% of the study time
			3. Training in the simulation center
			4. Mini-conference of the ISW topics
7.	Acute coronary syndrome (ACS). Myocardial infarction. Complications	8	Formative assessment:
	of myocardial infarction Acute heart failure		1. Using active learning methods: TBL
			2. Working with a patient for at least 20% of the study time
			3. Training in the simulation center
			4. Mini-conference of the ISW topics
8.	Arterial hypertension. Arrhythmias	8	Formative assessment:
			1. Using active learning methods: TBL
			2. Working with a patient for at least 20% of the study time
			3. Training in the simulation center
			4. Mini-conference of the ISW topics
9.	Myocarditis. Cardiomyopathy. Pericarditis	8	Formative assessment:
			1. Using active learning methods: TBL
			2. Working with a patient for at least 20% of the study time
			3. Training in the simulation center
			4. Mini-conference of the ISW topics
10.	Acute rheumatic fever and chronic rheumatic heart disease. Infective	8	Formative assessment:
	endocarditis		1. Using active learning methods: TBL
			2. Working with a patient for at least 20% of the study time
			3. Training in the simulation center
			4. Mini-conference of the ISW topics

Mid	term control 1	Summative evaluation: 2 stages: 1-stage – MCQ testing for understanding and application - 4 2-stage – mini clinical exam (MiniCex) - 60%	10%
11.	Rheumatoid arth	ritis	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
12.	Medical tactics i	n monoarticular and polyarticular lesions	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
13.	Seronegative spo	ondyloarthropathies	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
14.	Systemic connec	tive tissue diseases	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
15.	Systemic vasculi	itis	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
16.		esophagus. Chronic gastritis, duodenitis. Peptic ulcer of duodenum. Anemia. IDA, B-12 - deficiency anemia	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics

17.	Cholesterosis, chronic cholecystitis, cholelithiasis. Chronic pancreatitis Nonspecific ulcerative colitis. Crohn's disease	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center
19.	Viral hepatitis. Diagnostics and clinical manifestations, antiviral therapy. Hypoplastic and hemolytic anemias. Thrombocytopenia	4. Mini-conference of the IWS topics Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
20.	Liver cirrhosis. Complications of liver cirrhosis. Gastrointestinal tumors	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
21.	Diabetes mellitus. Emergencies in diabetes mellitus. Obesity and metabolic syndrome	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
22.	Diseases of the thyroid and parathyroid glands	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
23.	Diseases of the hypothalamic-pituitary system and adrenal glands	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center

			4. Mini-conference of the IWS topics
24.	Major syndromes i	n kidney disease, urinary tract infection	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
25.	Glomerular disease	es ·	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
26.	Acute kidney injur	y	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
27.	Chronic kidney dis	ease	Formative assessment: 1. Using active learning methods: TBL 2. Working with a patient for at least 20% of the study time 3. Training in the simulation center 4. Mini-conference of the IWS topics
Mid	term control 2	Summative evaluation: Formative assessment: 1. Using active learning methods: TBL, CBL 2. Working with the patient 3. Training in the simulation center 4. Mini-conference of the IWS topics 2 stages: 1-stage – MCQ testing for understanding and application 2-stage – mini clinical exam (MiniCex) - 60%	
Fina	al control (Exam)	Summative evaluation: 2 stages: 1-stage – MCQ testing for understanding and application 2- stage – OSCE with NP - 60%	on - 40%

Tota	ıl	100					
9.	Methods of teaching in th	ne discipline					
	(briefly describe the approx	aches to teaching and learning that will be used in teaching)					
		ng active learning methods: TBL, CBL					
1	Methods of formative ass						
	TBL – Team Based Learni						
	CBL – Case Based Learnin						
2	Summative assessment m	\ 1 /					
	1. MCQ testing for underst						
		miniclinical exam (MiniCex)					
	3. SIW - creative task						
	4. Medical history						
		(student's scientific research work)					
	6. 360 score - behavior and	d professionalism					
10.	Summative assessment						
№	Forms of control	General % from total %					
1	Patient history defence	30% (estimated by the checklist)					
5	Border control	70%					
		(1-stage – MCQ testing for understanding and application - 40%;					
		2- stage – mini clinical exam (MiniCex) - 60%)					
	Border control 1	30% +70% = 100%					
1	Patient history defence	20% (estimated by the checklist)					
2	360 score - behavior and	10% (estimated by the checklist)					
	professionalism						
3	Scientific project SSRW	10%					
	(student's scientific						
	research work)						
5	Border control	60%					
		(1-stage – MCQ testing for understanding and application - 40%;					
		2- stage – mini clinical exam (MiniCex) - 60%)					
	der control 2	20+10+10 + 60 = 100%					
9	Exam	2 stages:					
		1st stage - testing on MCQ for understanding and application - 40%					
		2nd stage - OSCE with NP - 60%					

10	Final s	core:	ORD 60% + Ex	ORD 60% + Exam 40%			
10.	Score						
Rati	ng by	Digital	Points	Assessment Description			
lette:	r	equivalent	(% content)	(changes should be made only at the level of the decision of the Academic Committee on the quality of the faculty)			
Ā		4,0	95-100	Excellent. Exceeds the highest job standards.			
A-		3,67	90-94	Excellent. Meets the highest job standards.			
B+		3,33	85-89	Good. Very good. Meets high job standards.			
В		3,0	80-84	Good. Meets most of the job standards.			
B-		2,67	75-79	Good. More than enough. Shows some reasonable ownership of the material.			
C+		2,33	70-74	Good. Acceptable. Meets the basic standards of the task.			
С		2,0	65-69	Satisfactory. Acceptable. Meets some basic job standards.			
C-		1,67	60-64	Satisfactory. Acceptable. Meets some basic job standards.			
D+		1,33	55-59	Satisfactory. Minimally acceptable.			
D		1,0	50-54	Satisfactory. Minimally acceptable. The lowest level of knowledge and completion of the task.			
FX		0,5	25-49	Unsatisfactory. Minimally acceptable.			
F		0	0-24	Unsatisfactory. Very low productivity.			
11.	Educa	tional resources	(use the full link ar	nd specify where you can access the texts/materials)			
Liter	rature			Main Available in the library			
		Author		Name of the book, publisher Page 1 on publicati on			

Курманова, Гаухар Медеубаевна	Курманова, Гаухар Медеубаевна. ОРВИ и грипп: учеб. пособие / Г. М. Курманова, К. Б. Курманова, 2019 73, [1] с Текст: непосредственный.	2019
В. И. Маколкин, С. И. Овчаренко, В. А. Сулимов	Маколкин, Владимир Иванович. Ішкі аурулар: оқулық / В. И. Маколкин, С. И. Овчаренко, В. А. Сулимов; қазақ тіл. Ауд., жауапты ред. Қ. А. Жаманқұлов, 2014. — 968, [2] б. — Текст: непосредственный.	2014
Стрюк, Р. И.	Стрюк, Р. И. Внутренние болезни [Текст]: в 3 ч.: учебник. Ч. 3, 2017 240 с Текст: непосредственный.	2017
	Клинические протоколы диагностики и лечения болезней органов пищеварения, одобренные в Республике Казахстан: протокол / Каз. Ассоциация КАИП по изучению печени, Каз. науч. общество по изучению заболеваний кишечника, 2017 293 с Текст: непосредственный.	2017
Н. Ж. Орманов, А. Қ. Қоңырбасов, Т. Н. Орманов	Кардиологиялық фармакотерапия: оқулық / [Н. Ж. Орманов, А. Қ. Қоңырбасов, Т. Н. Орманов және т.б.], 2017 221 б Текст: непосредственный.	2017
Иванова, Райфа Латыфовна	Иванова, Райфа Латыфовна. Жалпы дәрігерлік тәжірибе жағдайындағы буындық синдром: оқу құралы / Р. Ф. Иванова, 2018 71, [1] б Текст: непосредственный.	2018
Н. Ж. Орманов, З. С. Қорғанбаева, Л. Н. Орманова	Гематологиялық фармакотерапия : оқулық / [Н. Ж. Орманов, З. С. Қорғанбаева, Л. Н. Орманова және т.б.], 2017 173 б Текст : непосредственный.	2018
Н. Ж. Орманов, Т. Н. Орманов, У. Ж. Садырханова	Бүйрек ауруларының фармакотерапиясы : оқулық / [Н. Ж. Орманов, Т. Н. Орманов, У. Ж. Садырханова, және т.б.], 2017 163 б Текст : непосредственный.	2017
С. А. Байдурин	Байдурин, Серік Амангелдіұлы. Ішкі аурулардың диагностикалық критерийлері және диагноз қою әдістемесі : оқу құралы / С. А. Байдурин, 2016 251 б Текст : непосредственный.	2016

С. А. Байдурин	Байдурин, Серик Амангельдинович. Принципы диагностики заболеваний внутренних органов: учеб. пособие / С. А. Байдурин, Ф. К. Бекенова, 2015 207 с Текст: непосредственный.	2015
Р. С. Досмағамбетова	Ішкі аурулар : оқулық : 2 томдық / жалпы ред. басқ. Р. С. Досмағамбетова ; жауапты ред. Л. Г. Тургунова ; ред. басқ.: В. С. Моисеев [және т.б.] ; қазақ тіл. ауд.: Ә. Р. Алина, Г. Ғ. Оспанова. 1-том, 2015 760, [1] б Текст : непосредственный.	2015
Р. С. Досмағамбетова	Ішкі аурулар : оқулық : 2 томдық / жалпы ред. басқ. Р. С. Досмағамбетова ; жауапты ред. Л. Г. Тургунова ; ред. басқ.: В. С. Моисеев [және т.б.] ; қазақ тіл. ауд.: Ә. Р. Алина, Г. Ғ. Оспанова. 2-том, 2015 760, [1] б Текст : непосредственный.	2015
Muzdubayeva, Zhanna Ergalievna	Muzdubayeva, Zhanna Ergalievna. Diagnosis and Principles of Treatment of Hematological Diseases: methodical guidance / Zh. E. Muzdubayeva, 2016 117, [1] р Текст: непосредственный.	2016
Katritsis, Demosthenes	Katritsis, Demosthenes. Clinical Cardiology: Current Practice Guidelines / D. G. Katritsis, B. J. Gersh, A. J. Camm, 2016 970 р Текст: непосредственный.	2016

Available at the department (ссылка на Classroom)

General medicine		
Brian R., Nicki R. Stuart H., Ian D.	Davidson's principles and practice of Medicine	
	22 th Edition, Brian R., Nicki R. Stuart H., Ian D.	
	HARRISON'S Infectious Diseases, Derived from	
	Harrison's Principles of Internal Medicine, 17th Edition,	2010
	2010	

Mandell, Douglas, and Bennett's	Mandell, Douglas, and Bennett's Infectious Disease ESSENTIALS, 2017	2017
David Schlossberg	Clinical Infectious Disease SECOND EDITION, Edited by David Schlossberg, MD, FACP, 2015	2015
	Clinical Handbook of Pediatrics, Schwartz's, fifth edition, 2013	2013
Henry M. Adam, MD, FAAP Jane Meschan Foy, MD	Signs & Symptoms IN PEDIATRICS, by Henry M. Adam, MD, FAAP Jane Meschan Foy, MD, FAAP, 2015	2015
Richard P.Usatine, Camille Sabella	The color atlas of pediatrics by Richard P.Usatine, Camille Sabella, 2015	2015
	PRINCIPLES of PHARMACOLOGY, Fourth Edition, 2017	2017
Pulmonology	·	
	Clinical Infectious Disease (WEST'S PULMONARY PATHOPHYSIOLOGY)	
Steven E. Weinberger, MD, FACP, Barbara A. Cockrill, MD, Jess Mandel, MD	PRINCIPLES OF PULMONARY MEDICINE, sixth edition by Steven E. Weinberger, MD, FACP, Barbara A. Cockrill, MD, Jess Mandel, MD, FACP, 2014	2014
	Oxford Handbook of Respiratory Medicine, Third Edition, 2014	2014
Cardiology		
Pierre Théroux, MD	Acute coronary syndromes : a companion to Braunwald's heart disease, SECOND EDITION	2011
Brent G. Petty	Basic Electrocardiography Second Edition	2020
Joseph Loscalzo, MD, PhD	HARRISON'S Cardiovascular Medicine	2010
James C. Reed, MD	CHEST RADIOLOGY: PATTERNS AND DIFFERENTIAL DIAGNOSES ISBN: 978-0-323- 49831-9 SEVENTH EDITION	2018
Douglas L. Mann, MD, FACC	HEART FAILURE: A COMPANION TO BRAUNWALD'S HEART DISEASE, SECOND EDITION	2011
Henry R. Black, William J. Elliott	Hypertension A Companion to Braunwald's Heart Disease SECOND EDITION	2013
M Gabriel Khan	Practical Cardiology First Edition	2018

Punit Ramrakha	Oxford Handbook of Cardiology SECOND EDITION	2013
Alan Noble, Alan Thomas	The Cardiovascular System BASIC SCIENCE AND CLINICAL CONDITIONS/ SECOND EDITION	2010
А.И. Дядыка, А.Э. Багрия	Сердечно-сосудистые заболевания у пожилых /	2013
Элисдейр Райдинг	Эхокардиография. Практическое руководство/ Элисдейр Райдинг: пер. с анг М.: МЕДлресс- ннформ	2010
Ю. Н. Беленкова, Р. Г. Оганова	Кардиология. Национальное руководство : краткое издание / под ред. Ю. Н. Беленкова, Р. Г. Оганова. — М. : ГЭОТАР-Медиа	2012
Джородж А. Стаффер	Кардиология с иллюстрациями Неттера	2021
Струтынский А.В.	Электрокардиограмма – 14-е изд. М: Медпресс- информ	2012
	VASCULAR MEDICINE: A COMPANION TO BRAUNWALD'S HEART DISEASE, 2013	2013
Ziad F. Issa, MD, John M. Miller, MD, Douglas P. Zipes, MD	Clinical Arrhythmology and Electrophysiology. A Companion to Braunwald's Heart Disease, second edition, Ziad F. Issa, MD, John M. Miller, MD, Douglas P. Zipes, MD	
Gastroenterology		
Dan L. Longo, MD, Anthony S. Fauci, MD, Carol A. Langford, MD	HARRISON'S Gastroenterology and Hepatology, edited by Dan L. Longo, MD, Anthony S. Fauci, MD, Carol A. Langford, MD, MHS, 2010	2010
Mauss, Berg, Rockstroh, Sarrazin, Wedemeyer	Hepatology- A clinical textbook. Mauss, Berg, Rockstroh, Sarrazin, Wedemeyer. 2016	2016
/ под ред. И.В. Маева	Тактика врача-гастроэнтеролога: практическое руководство /: ГЭОТАР-Медиа, ил. — (Серия «Тактика врача»).	2019
М.К. Бэйтсон, И.А.Д. Бушьер; пер. с англ. под ред. Е.Ю. Плотниковой	. Клинические исследования в гастроэнтерологии	2021
В.Т. Ивашкин, И.В. Маев, А.С. Трухманов	Справочник по инструментальным исследованиям и вмешательствам в гастроэнтерологии /— М.: ГЭОТАРМедиа	2015
И.В. Маев, Г.А. Бусарова, Д.Н. Андреев	Болезни пищевода / М.: ГЭОТАР-Медиа	2019

	под ред. А.В. Чжао	Холангиоцеллюлярная карцинома, — М.: ГЭОТАР- Медиа	2021
	под ред. Б.Е. Лэйси, М.Д. Кроуэлла, Дж.К. ДиБайза; пер. с англ. под ред. С.В. Демичева	Функциональные расстройства желудочнокишечного тракта. Практический подход на основе клинического опыта. — М.: ГЭОТАР-Медиа	2017
	под ред. М.Ф. Ваези; пер. с англ. под ред. В.А. Ахмедова	Гастроэзофагеальная рефлюксная болезнь. Диагностика и лечение. — М.: ГЭОТАР-Медиа	2016
	под ред. Е.В. Ших	Гастроэзофагеальная рефлюксная болезнь: клинические проявления, медикаментозная терапия. — М.: ГЭОТАРМедиа	2019
	В.А. Ахмедов, М.А. Ливзан	Заболевания желудочно-кишечного тракта у беременных. — М.: ГЭОТАР-Медиа	2016
	С.В. Бельмер, А.И. Хавкин, Д.В. Печкуров	Функциональные расстройства органов пищеварения у детей. Принципы диагностики и лечения (международные и отечественные рекомендации). — М.: ГЭОТАР-Медиа	2020
	А.М. Запруднов	Заболевания кишечника в детском возрасте: руководство для врачей. — М.: ГЭОТАР-Медиа	2018
	Hematology		
	Dan L.Longo, MD	Harrison's Hematology and Oncology, 17 th edition, edited by Dan L.Longo, MD	2017
	A. Victor Hoffbrand, Paul A. H. Moss	Hoffbrand's Essential Haematology, 7 th edition by A. Victor Hoffbrand, Paul A. H. Moss, UK 2016	2017
		Oxford Handbook of Clinical Haematology, 4 th edition, 2015	2012
	Сараева Н. О.	Гематология: учебное пособие	2015
	Shauna C. Anderson Young	ANDERSON'S Atlas of Hematology THIRD EDITION	2021
	Nicholas J Talley, Brad Frankum & David Currow.	Essentials of Internal medicine Elsevier. 3d edition	2015
		Harrisson's Manual of Medicine/ 20th Edition	2020
I	Endocrinology		
	J. Larry Jameson, MD	HARRISON'S Endocrinology, 2 nd edition, by J. Larry Jameson, MD, PhD, 2010	2010

	Oxford Handbook of Endocrinology and Diabetes,	2014
	Third edition, 2014	2014
Nephrology		
J. Larry Jameson	Harrison's nephrology and acid-base disorders/ J. Larry Jameson, 2010	2010
Edgar V. Lerma, Allen R. Nissenson	Nephrology secrets. —3rd ed. / Edgar V. Lerma, Allen R. Nissenson, New York 2012	2012
Rheumatology		
	HARRISON'S Rheumatology, second edition, 2010	2010
	Oxford Handbook of Rheumatology, forth edition, 2013	2013

Additional Available in the library

Автор	Наименование книги, издательство	Год издан ия
Nicholas J Talley, Brad Frankum & David Currow. Essentials of Internal medicine	Elsevier. 3d edition, Chapter 12, p 320-323 – 1 экземпляр	2014
Mukhamedzhanov R. Pathomorphology of Gastritis: Kamishanskiy, 58, [1] р Текст: непосредственный.	teaching manual / R. Mukhamedzyanov, M. Tussupbekova, E.	2016
Rao, S Devaji. Snapshots in Gastroenterology: [mone- - Текст: непосредственный.	ograph] / S D. Rao, 1075 p.	2016
Ішкі аурулар гастроэнтерология модулі : окулық / Е. М. Ларюшина, Л. Г. Тургунова, А. А. Ким, Г. Г. Оспанова ; серия ред. Р. С. Досмагамбетова, 380 б - Текст : непосредственный.		2016
Ас қорыту жүйесі модулі : оқулық / [С. К. Жауғашева және т. б.] ; жауапты ред.: С. Б. Жәутікова, С. Б. Нұрсұлтанова ; серия ред. Р. С. Досмағамбетова, - 375 б Текст : непосредственный.		2014

Зэр шығару жүйесі модулі: оқулық / [С. К. Жауғашева және т. б.]; жауапты ред.: С. Б. Жәутікова, С. Б. Нұрсұлтанова; серия ред. Р. С. Досмағамбетова, 2014 250 б Текст: непосредственный.	2014
Жүрек-қан тамырлар жүйесі модулі: оқулық / [С. К. Жауғашева және т. б.]; жауапты ред.: С. Б. Жәутікова, С. Б. Нұрсұлтанова; серия ред. Р. С. Досмағамбетова, 2014 340 б Текст: непосредственный.	2014
Дуйсебаева, Алия Таттибаевна. Ультразвуковая диагностика в кардиологии : учеб. пособие / А. Т. Дуйсебаева, 2018 470 с Текст : непосредственный.	2018
Дифференциальная диагностика внутренних болезней / Российское научное медицинское общество терапевтов, 2018 927, [1] с Текст: непосредственный.	2018
Сейсембеков Т. 3. Классификации и диагностические критерии внутренних болезней: учеб. пособие / Т. 3. Сейсембеков, 2018 394 с Текст: непосредственный.	2018
Ревматологиялық фармакотерапия: [окулық] / [Н. Ж. Орманов, Т. Н. Орманов, Ж. О. Бекенова және т. б.], 2017 237 б Текст: непосредственный.	2017
Кәсіптік аурулар : оқулық / Н. А. Мухин, В. В. Косарев, С. А. Бабанов, В. В. Фомин ; ауд.: Ш. Т. Жукушева, И. Н. Нұрмұханбет ; жауапты ред. Л. Қ. Қаражанова, 2021 389 б Текст : непосредственный.	2021
Аметов, Александр Сергеевич. Избранные лекции по эндокринологии: учеб. пособие / А. С. Аметов, 2016 713 с Текст: непосредственный.	2016
Колуэлл, Джон. Сахарный диабет. Новое в лечении и профилактике : монография / Дж. А. Колуэлл, 2014 288 с Текст : непосредственный.	2014
Ішкі аурулар кардиология модулі : окулық / Л. К. Бадина, Н. Г. Малюченко, Ф. У. Нильдибаева, Г. Г. Оспанова ; серия ред. Р. С. Досмагамбетова ; [жауапты ред.: Л. Г. Тургунова, Е. М. Ларюшина], 2016 239, [1] б Текст : непосредственный.	2016
Ішкі аурулар пульмонология модулі : оқулық / А. М. Жусупова, А. А. Ким, А. Р. Алина [және т.б.] ; серия ред. Р. С. Досмагамбетова ; [жауапты ред.: Л. Г. Тургунова, Е. М. Ларюшина], 2016 263, [1] б Текст : непосредственный.	2016
Ішкі аурулар эндокринология модулі : оқулық / Н. В. Васильева, Д. Т. Амирханова, А. А. Серикбаева, М. Т. Абдрахманова ; серия ред. Р. С. Досмагамбетова ; [жауапты ред.: Л. Г. Тургунова, Е. М. Ларюшина], 2016 247, [1] б Текст : непосредственный.	2016
Ішкі аурулар нефрология модулі : оқулық / И. В. Бачева, Л. Г. Тургунова, Н. С. Умбеталина, Г. Г. Оспанова ; серия ред. Р. С. Досмагамбетова ; [жауапты ред.: Л. Г. Тургунова, Е. М. Ларюшина], 2016 260, [1] б Текст : непосредственный.	2016

	Ішкі аурулар Гематология модулі: окулық / Л. Г. Тургунова, Е. М. Ларюшина, Н. С. Умбеталина [және т.б.]; серия ред. Р. С. Досмагамбетова; [жауапты ред.: Л. Г. Тургунова, Е. М. Ларюшина], 2016 239, [1] б Текст: непосредственный.	2016
	Ішкі аурулар гастроэнтерология модулі : оқулық / Е. М. Ларюшина, Л. Г. Тургунова, А. А. Ким, Г. Г. Оспанова ; серия ред. Р. С. Досмагамбетова, 2016 380, [1] б Текст : непосредственный.	2016
	The ESC Textbook of Preventive Cardiology: textbook / European Association for Cardiovascular Prevention and Rehabilitation, 2015 351 р Текст: непосредственный.	2015
	Cardiac Drugs : [monograph] / The Carver College of Medicine, University of Iowa, USA, 2015 536 р Текст : непосредственный.	2015
Electronic resources		•
	Internet resources: 1. Medscape.com - https://www.medscape.com/familymedicine 2. Oxfordmedicine.com - https://oxfordmedicine.com/	
	 Medscape.com - https://www.medscape.com/familymedicine Oxfordmedicine.com - https://www.wolterskluwer.com/en/solutions/uptodate Osmosis - https://www.youtube.com/c/osmosis Ninja Nerd - https://www.youtube.com/c/NinjaNerdScience/videos CorMedicale - https://www.youtube.com/c/CorMedicale - medical video animations in Russian language Lecturio Medical - https://www.youtube.com/channel/UCbYmF43dpGHz8gi2ugiXr0Q 	

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:

For extraordinary achievements in the field of future professional activity (clinical, scientific, organizational, etc.), additional points up to 10% of the final assessment can be added to the student (by the decision of the department)

13.	Discipline policy (части, выделенные зеленым, пожалуйста, не изменяйте)
	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 (outdoors) 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."

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 -

5 points for each missed lesson for 3rd year disciplines

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 review			
Department head		Sadykova Sh.S.	
Committee on the Quality of Teaching and Learning of the Faculty	R	Kurmanova G.M.	

Topic plan and content of classes

No	Topic	Content	Literature	Conduct form
	2	3	4	5
		Pulmonology		
1	Influenza . Viral pneumon ia and ARDS		https://geekymedics.com/category/medicine/respiratory/https://geekymedics.com/croup/https://geekymedics.com/bronchiolitis/ 1. Harrison's Principles of internal medicine, 2022 2. HARRISON'S Pulmonary and CriticalCare Medicine; Editor Joseph Loscalzo, MD, PhD, 2010 3. Clinical Infectious Disease (WEST'S PULMONARY PATHOPHYSIOLOGY); 4. PRINCIPLES OF PULMONARY MEDICINE, sixth edition by Steven E. Weinberger, MD, FACP, Barbara A. Cockrill, MD, Jess Mandel, MD, FACP, 2014 5. Oxford Handbook of Respiratory Medicine, Third Edition, 2014	Formative assessment: 1. Using active learning methods: TBL 2. Working with the patient 3. Training in the simulation center 4. Mini-conference of the IWS topics
2	Commun	1. Be able to diagnose (clinically, lab-instrumentally) and	1. Harrison's Principles of internal	Formative
	ity-	treat community-acquired pneumonia in children, adults, the	medicine, 2022	assessment:
	acquired	elderly, pregnant women with a typical and atypical pathogen	2. HARRISON'S Pulmonary and	abbobbilloit.
	pneumon	(Str. Pneumonia, Mycoplasma pneumoniae and Chlamydophila	CriticalCare Medicine; Editor Joseph	

	1			,
	ia.	pneumoniae, St. aureus, Klebsiella pneumoniae, Candida) with	Loscalzo, MD, PhD, 2010	1. Using active
	Complic	understanding their characteristics, prescribe antibacterial and	3. Clinical Infectious Disease (WEST'S	learning methods:
	ations of	mucolytic therapy using knowledge of clinical microbiology and	PULMONARY PATHOPHYSIOLOGY);	TBL
	pneumon	pharmacology. Apply the treatment algorithm and rational	4. PRINCIPLES OF PULMONARY	2. Working with the
	ia.	antibiotic therapy for pneumonia from the perspective of	MEDICINE, sixth edition by Steven E.	patient
	Suppurat	evidence-based medicine. To understand the principles of	Weinberger, MD, FACP, Barbara A.	3. Training in the
	ive lung	immunomodulatory therapy.	Cockrill, MD, Jess Mandel, MD, FACP,	simulation center
	diseases.	2. Apply knowledge about the criteria for severity,	2014	4. Mini-conference
	Sepsis.	indications for hospitalization.	5. Oxford Handbook of Respiratory	of the IWS topics
	DIC	3. Identify and interpret clinical symptoms and syndromes,	Medicine, Third Edition, 2014	
	syndrom	data from laboratory and visual examination methods in patients		
	e.	with complications of pneumonia (pleurisy, complicated pleurisy,		
	Hospital-	pleural empyema; abscesses and gangrene, sepsis, infectious-		
	acquired	toxic shock), typical manifestation and course, taking into		
	pneumon	account age aspects.		
	ia and	4. Suggest bronchiectasis, lung cancer, infiltrative		
	pneumon	tuberculosis and tuberculous pleurisy.		
	ia in	5. Assume healthcare-associated pneumonia (hospital,		
	immunoc	ventilator-associated) and apply treatment principles based on		
	ompromi	knowledge of likely pathogens.		
	sed	6. Assume pneumonia in immunocompromised patients, the		
	individua	features of pathogenesis and know the principles of treatment and		
	ls	prevention.		
		7. Know the features of aspiration pneumonia.		
		8. Formulate a complete clinical diagnosis, prescribe		
		treatment, apply knowledge of the course of the disease to		
		manage the patient, taking into account individual characteristics		
		and evaluate effectiveness.		
		Apply knowledge of primary and secondary prevention to conduct		
		patient education.		
3	Bronchia	1. Identify and interpret the clinical symptoms of IgE-dependent	https://geekymedics.com/peak-expiratory-	Formative
	l asthma.	and IgE-independent BA, be able to determine the variants of the	flow-rate-pefr/	assessment:
	Complic	clinical course of the disease, control levels, severity, comorbid	1. Harrison's Principles of internal	1. Using active
	ations	diseases, the risk of BA exacerbations.	medicine, 2022	learning methods:
	and	2. Carry out differential diagnosis of BA with other allergic	2. HARRISON'S Pulmonary and	TBL
	emergen	(Quincke's edema) and non-allergic diseases (chronic cough	CriticalCare Medicine; Editor Joseph	

	cies in	syndrome, COPD, heart disease, GERD, pulmonary fibrosis, vocal	Loscalzo, MD, PhD, 2010	2. Working with the
	bronchial	cord dysfunction syndrome, hyperventilation syndrome).	3. Clinical Infectious Disease (WEST'S	patient
	asthma.	3. Possess the skills of appointment and clinical interpretation of	PULMONARY PATHOPHYSIOLOGY);	3. Training in the
	Anaphyl	the results of laboratory and instrumental examination.	4. PRINCIPLES OF PULMONARY	simulation center
	axis,	4. Formulate and substantiate a detailed clinical diagnosis, taking	MEDICINE, sixth edition by Steven E.	4. Mini-conference
	anaphyla	into account the accepted GINA classification.	Weinberger, MD, FACP, Barbara A.	of the IWS topics
	ctic	5. Possess the skills of carrying out medical and diagnostic	Cockrill, MD, Jess Mandel, MD, FACP,	_
	shock	measures to provide emergency medical care to patients with	2014	
		asthma (attack of asthma, status asthmaticus).	5. Oxford Handbook of Respiratory	
		6. Carry out treatment of patients depending on the pathogenesis	Medicine, Third Edition, 2014	
		of the disease, the severity of exacerbation, the level of control		
		and the severity of BA. Assess the effectiveness of therapy.		
		7. Diagnose and carry out urgent measures in case of anaphylactic		
		shock at all levels of medical care for adults and children, taking		
		into account different clinical variants of shock.		
		8. Know the immunopathogenesis of severe allergic reactions, be		
		able to identify, formulate a diagnosis and know the principles of		
		treatment of Lyell's syndrome, Stevens-Johnson syndrome,		
		exudative erythema multiforme. Possess skills in managing		
		patients who have had severe allergic reactions, evaluate the		
		effectiveness of the therapy.		
		9. Own management of patients with bronchial asthma and severe		
		allergic reactions, taking into account their individual		
		characteristics and various variants of the course of diseases.		
		10. Apply knowledge of primary and secondary prevention of		
		allergic diseases in patient education.		
4	COPD	1. Identify and interpret the clinical symptoms of COPD, be able to	https://classroom.google.com/u/0/c/MzE5Nz	Formative
		determine the variants of the clinical course of the disease	YxNDAzNDIy?hl=ru	assessment:
		(emphysametous, bronchitis, mixed), levels of control, prevention	https://classroom.google.com/u/0/c/MzE5Nz	1. Using active
		of complications, categories, comorbid diseases, exacerbation of	YyODA1ODgw?hl=ru	learning methods:
		COPD and pneumonia in COPD.	1. Harrison's Principles of internal	TBL
		2. Possess the skills of prescribing and clinical interpretation of the	medicine, 2022	2. Working with the
		results of laboratory and instrumental examination (spirography,	2. HARRISON'S Pulmonary and	patient
		CT).	CriticalCare Medicine; Editor Joseph	3. Training in the
		3. Carry out treatment of patients depending on the severity of	Loscalzo, MD, PhD, 2010	simulation center
		exacerbation, category and degree of respiratory insufficiency and	3. Clinical Infectious Disease (WEST'S	

		comorbid conditions (IHD, AH, ACOS). Assess the effectiveness of therapy. 4. Possess the skills of medical treatment and diagnostic measures to provide assistance in case of complications (respiratory insufficiency, chronic cor pulmonale, pulmonary hypertension, lung cancer). 5. Formulate a complete clinical diagnosis, prescribe treatment, apply knowledge of the course of the disease to manage the patient, taking into account individual characteristics and evaluate effectiveness. 6. Apply knowledge of primary and secondary prevention to conduct patient education.	PULMONARY PATHOPHYSIOLOGY); 4. PRINCIPLES OF PULMONARY MEDICINE, sixth edition by Steven E. Weinberger, MD, FACP, Barbara A. Cockrill, MD, Jess Mandel, MD, FACP, 2014 5. Oxford Handbook of Respiratory Medicine, Third Edition, 2014	4. Mini-conference of the IWS topics
5	Respirat ory failure. Dissemin ated lung diseases. Acute and chronic cor pulmonal e	1. Assumes disseminated lung disease: exogenous alveolitis (allergic and toxic), idiopathic fibrosing alveolitis, acute, subacute and chronic sarcoidosis; pneumoconiosis (silicosis), disseminated forms of tuberculosis. 2. Has an idea (knows) about rare lung diseases with dissemination syndrome (pulmonitis, pulmonary vasculitis, proteinosis, pneumomycosis, idiopathic pulmonary hemosiderosis, primary bronchopulmonary amyloidosis), EVALI (vaper diseases). 3. Identify and interpret clinical symptoms and syndromes, data from laboratory and imaging examinations in patients with pulmonary embolism (PE), acute and chronic cor pulmonale, exogenous and endogenous alveolitis, pulmonary vasculitis in their typical manifestation and course, taking into account age-related aspects. 4. Master the skills of basic medical treatment, diagnostic and preventive measures to provide medical care to the population in case of pulmonary embolism, acute and chronic pulmonary heart disease, exogenous and endogenous alveolitis, pulmonary vasculitis. 5. Possess initial skills in maintaining current accounting and reporting medical documentation, including information systems. 6. Integrates knowledge and skills to ensure an individual approach in the treatment of a particular patient; to teach to make professional	1. Harrison's Principles of internal medicine, 2022 2. HARRISON'S Pulmonary and CriticalCare Medicine; Editor Joseph Loscalzo, MD, PhD, 2010 3. Clinical Infectious Disease (WEST'S PULMONARY PATHOPHYSIOLOGY); 4. PRINCIPLES OF PULMONARY MEDICINE, sixth edition by Steven E. Weinberger, MD, FACP, Barbara A. Cockrill, MD, Jess Mandel, MD, FACP, 2014 5. Oxford Handbook of Respiratory Medicine, Third Edition, 2014 6. Harrison's Principles of internal medicine, 2022 7. Davidson's principles and practice of Medicine 22 th Edition, Brian R., Nicki R. Stuart H., Ian D.	Formative assessment: 1. Using active learning methods: TBL 2. Working with the patient 3. Training in the simulation center 4. Mini-conference of the IWS topics

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		decisions based on the analysis of the rationality of diagnostics and		
		the principles of evidence-based medicine.		
		7. Demonstrate communication skills, teamwork skills,		
		organization and management of the diagnostic and treatment		
		process.		
		8. Apply knowledge of the principles and methods of forming a		
		healthy lifestyle for a person and family.		
		9. Demonstrate commitment to professional values such as		
		altruism, compassion, empathy, responsibility, honesty and		
		confidentiality.		
		10. Demonstrate the ability and need for continuous professional		
		training and improvement of their knowledge and professional		
		skills.		
		11. Demonstrate basic research skills.		
		12. Differential diagnosis: idiopathic fibrosing alveolitis,		
		Goodpasture's syndrome, histiocytosis X, hematogenous		
		disseminated tuberculosis, lung carcinomatosis, bronchoalveolar		
		cancer, pneumomycosis, pneumoconiosis.		
		Cardiology. Rheumatology		
6	Ischemic	1. Identify and interpret clinical symptoms and syndromes, data	1. Harrison's Principles of internal	Formative
	heart	from laboratory and visual examination methods in patients with	medicine, 2022	assessment:
	disease.	IHD, HF, CHF, their typical manifestation and course, taking into	2. HARRISON'S Cardiovascular Medicine,	1. Using active
	Stable	account age-related aspects.	by Joseph Loscalzo, MD, PhD of Harvard	learning methods:
	exertiona	2. Master the skills of basic medical treatment, diagnostic and	Medical School; Chairman, Boston, 2010	TBL
	l angina.	preventive measures to provide medical care to the population with	3. Acute Coronary Syndromes, second	2. Working with the
	CHD	IHD, HF, CHF.	edition, A Companion to Braunwald's Heart	patient
		3. Demonstrate skills in integrating knowledge and skills to ensure	Disease, by Pierre Théroux, MD Professor	3. Training in the
	. Chronic	an individual approach in the treatment of IHD, HF, CHF; to teach	of Medicine of Canada, 2011	simulation center
	heart	to make professional decisions based on the analysis of the	4. Hypertension: A companion to	4. Mini-conference
	failure	rationality of diagnostics and the principles of evidence-based	Brounwald's heart disease, second edition,	of the IWS topics
		medicine.	2013, by Saunders	
		4. Demonstrate communication skills, teamwork skills,	5. Heart Failure Updates, John JV	
		organization and management of the diagnostic and treatment	McMurray MD FRCP FESC FACC, Marc A	
		process.	Pfeffer MD PhD, 2003	
		5. Apply knowledge of the principles and methods of forming a	6. Heart Failure: A companion to	
		healthy lifestyle for a person and family.	Brounwald's heart disease, second edition,	

6. Demonstrate the ability and need for continuous profetraining and improvement of their knowledge and profeskills. 7. Demonstrate basic research skills.	essional
skills.	
7. Demonstrate basic research skills.	
8. Differential diagnosis: Variant angina pectoris. I	Painless
myocardial ischemia. Microvascular angina (syndrome X).	
9. The use of antianginal, thrombolytic, anticoagulant	
antiplatelet agents, systematic dosed physical	
Classification of thrombolytics, indications and contraind	
for their use, complications.	
10. Mechanism of action, indications and contraindications	s for the
use of anticoagulants, laboratory control methods; side effe	
11. Classification of antiplatelet agents, indication	
contraindications for use, side effects.	
12. Modern invasive methods of treatment (balloon angiop)	lasty.
stenting, coronary artery bypass grafting).	
7 Acute 1. Identify and interpret clinical symptoms and syndrome	es, data 1. Harrison's Principles of internal Formative
coronary from laboratory and imaging methods in patients with AC	
syndrom AHF, their typical manifestation and course, taking into	
e (ACS). age-related aspects.	by Joseph Loscalzo, MD, PhD of Harvard learning methods:
Myocard 2. Possess the skills of basic medical treatment, diagnos	
ial preventive measures to provide medical care to the populati	
infarctio ACS, MI, AHF.	edition, A Companion to Braunwald's Heart patient
n. 3. Demonstrate skills in integrating knowledge and skills to	
Complic an individual approach in the treatment of ACS, MI, AHF;	
ations of to make professional decisions based on the analysis	
myocardi rationality of diagnostics and the principles of evidence	
al medicine.	2013, by Saunders
infarctio 4. Demonstrate communication skills, teamwork	
n Acute organization and management of the diagnostic and tro	1 1
heart process.	Pfeffer MD PhD, 2003
failure 5. Apply knowledge of the principles and methods of for	
healthy lifestyle for a person and family.	Brounwald's heart disease, second edition,
6. Demonstrate the ability and need for continuous profe	
training and improvement of their knowledge and profe	
skills.	

		7. Demonstrate basic research skills.		
		8. Mechanisms of atherosclerotic plaque destabilization and		
		development of coronary artery thrombosis. Differential diagnosis.		
		9. The role of biochemical markers of myocardial damage:		
		troponins T and I, myoglobin, creatine phosphokinase MB-fraction		
		in the diagnosis of ACS.		
		10. Medical tactics, treatment and prevention of complications.		
		Emergency care for anginal status at the pre-hospital and hospital		
		stage.		
		11. Diagnostic criteria and therapeutic tactics for rhythm and		
		conduction disorders, cardiogenic shock, pulmonary edema,		
		thromboembolic complications, pericarditis, Dressler's syndrome,		
		early postinfarction angina pectoris, cardiac aneurysm.		
		12. Diagnosis and emergency care for cardiogenic shock, acute		
		left ventricular failure (pulmonary edema).		
8	Arterial	1. Identify and interpret clinical symptoms and syndromes, data	1. Harrison's Principles of internal	Formative
	hyperten	from laboratory and visual examination methods in patients with	medicine, 2022	assessment:
	sion.	hypertension, arrhythmia, their typical manifestation and course,	2. HARRISON'S Cardiovascular Medicine,	1. Using active
	Arrhyth	taking into account age-related aspects.	by Joseph Loscalzo, MD, PhD of Harvard	learning methods:
	mias	2. Possess the skills of basic medical treatment, diagnostic and	Medical School; Chairman, Boston, 2010	TBL
		preventive measures to provide medical care to the population	3. Acute Coronary Syndromes, second	2. Working with the
		with hypertension, arrhythmia.	edition, A Companion to Braunwald's Heart	patient
		3. Demonstrate skills in integrating knowledge and skills to	Disease, by Pierre Théroux, MD Professor	3. Training in the
		provide an individual approach in the treatment of hypertension,	of Medicine of Canada, 2011	simulation center
		arrhythmia; to teach to make professional decisions based on the	4. Hypertension: A companion to	4. Mini-conference
		analysis of the rationality of diagnostics and the principles of	Brounwald's heart disease, second edition,	of the IWS topics
		evidence-based medicine.	2013, by Saunders	•
		4. Demonstrate communication skills, teamwork skills,	5. Heart Failure Updates, John JV	
		organization and management of the diagnostic and treatment	McMurray MD FRCP FESC FACC, Marc A	
		process.	Pfeffer MD PhD, 2003	
		5. Apply knowledge of the principles and methods of forming a	6. Heart Failure: A companion to	
		healthy lifestyle for a person and family.	Brounwald's heart disease, second edition,	
		6. Demonstrate the ability and need for continuous professional	2011, by Saunders	
		training and improvement of their knowledge and professional	7. Clinical Arrhythmology and	
		skills.	Electrophysiology. A Companion to	
		7. Demonstrate basic research skills.	Braunwald's Heart Disease, second edition,	

		8. Has an idea (knows) about arterial hypertension in children and adolescents. Rules for measuring blood pressure. Principles of management of children and adolescents with hypertension. 9. Knows the mechanism of action, dosage, side effects and contraindications of the following drugs: beta-blockers, diuretics, calcium antagonists, ACE inhibitors, angiotensin II receptor antagonists, direct vasodilators, sympathomimetics, vasoactive prostaglandins and prostacyclin synthesis stimulants. 10. Has an idea (knows) about the features of antihypertensive therapy in patients with complicated course of arterial hypertension, in pregnant women. Target organ damage: heart, organ of vision, kidneys, central nervous system. 11. Able to provide emergency care in acute cerebrovascular accident, cerebral edema, exfoliating aortic aneurysm, eclapsia, acute renal failure, kidney disease. Renovasklar arterial hypertension. Endocrine. Cerebral (neurological). Hemodynamic. Hypertension during pregnancy. Relief of hypertension in a pregnant woman. 12. Knows clinical diagnostic and differential diagnostic criteria for ventricular and supraventricular tachycardia, atrioventricular and intraventricular blockades. ECG diagnostics. Indications for permanent or temporary pacing (ECS). Surgical treatment of	Ziad F. Issa, MD, John M. Miller, MD, Douglas P. Zipes, MD 8. ECG Diagnosis Made Easy, Romeo Vecht FRCP, FACC, FESC, 2011	
9	Myocard itis. Cardiom yopathy. Pericardi tis	 Identify and interpret clinical symptoms and syndromes, data from laboratory and objective examination methods in patients with Myocarditis, Cardiomyopathy, Pericarditis, their typical manifestation and course, taking into account age-related aspects. Possess the skills of basic medical treatment, diagnostic and preventive measures to provide medical care to the population with Myocarditis, Cardiomyopathy, Pericarditis. Possess the initial skills of maintaining current accounting a medical documentation, including in information systems. 	1. Harrison's Principles of internal medicine, 2022 2. HARRISON'S Cardiovascular Medicine, by Joseph Loscalzo, MD, PhD of Harvard Medical School; Chairman, Boston, 2010 3. Acute Coronary Syndromes, second edition, A Companion to Braunwald's Heart Disease, by Pierre Théroux, MD Professor of Medicine of Canada, 2011 4. Hypertension: A companion to Brounwald's heart disease, second edition, 2013, by Saunders	Formative assessment: 1. Using active learning methods: TBL 2. Working with the patient 3. Training in the simulation center 4. Mini-conference of the IWS topics

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		4. Integrates knowledge and skills to ensure an individual approadlicartification Up	
		treatment of a particular patient; to teach to make profession MIDEFIRIOFISFESC F	FACC, Marc A Pfeffer MD
		based on the analysis of the rationality of diagnostics and the Philip Aples	
		of evidence-based medicine.	
		5. Demonstrate communication skills, teamwork skills, organization, and	
		management of diagnostic and treatment process.	
		6. Apply knowledge of the principles and methods of forming a healthy	
		lifestyle, including healthy family lifestyle.	
		7. Demonstrate commitment to professional values such as altruism,	
		compassion, empathy, responsibility, honesty and confidentiality.	
		8. Demonstrate abilities and needs for continuous professional training and	
		improvement of their knowledge and skills of professional activity.	
		9. Demonstrate initial researcher skills.	
		10. Knows the differential diagnosis between	
		cardiomyopathies: Dilated, Hypertrophic, Restrictive.	
		EchoCG diagnostics of various options.	
		11. Has an idea (knows) about Acute pericarditis, Pericardial	
		effusion, Cardiac tamponade, Postinfarction injury	
		syndrome, Chronic pericardial effusion, Pericardial cysts.	
10	Acute		Rheumatology, second Formative
	rheumati		assessment:
	c fever		book of Rheumatology, 1. Using activ
	and	3. Knows the features of ARF therapy with and without forth edition, 2013	
	chronic		iples of internal medicine, TBL
	rheumati		2. Working with the
	c heart	4. Applies knowledge on pathogenesis, clinic and treatment for 4. Medscape.com	patient
	disease.	primary, secondary and tertiary prevention. 5. Uptodate.com	3. Training in the
	Infective		
	endocard	\	EART DISEASE, ED. 4, 4. Mini-conference
	itis		TO BRAUNWALD'S of the IWS topics
		diseases. HEART DISEASE	5, 2009
		6. Interprets instrumental data of CRHD.	
		7. Knows the indications for surgical treatment of CRHD.	
		8. Identifies and interprets clinical symptoms, laboratory and	
		instrumental data in subacute septic endocarditis, acute bacterial	
		infective endocarditis and prosthetic valve endocarditis.	

				T .
		9. Knows the features of patient management, taking into account		
		age-related aspects, pregnancy and other concomitant diseases		
		with an unknown pathogen and depending on the etiology.		
11	Rheumat	1. Knows the radiological stages of rheumatoid arthritis (RA).	1. HARRISON'S Rheumatology, second	Formative
	oid	2. Identifies and interprets clinical symptoms and syndromes,	edition, 2010	assessment:
	arthritis	laboratory and instrumental data in RA.	2. Oxford Handbook of Rheumatology,	1. Using active
		3. Knows options for debut, systemic manifestations (vasculitis,	forth edition, 2013	learning methods:
		serositis, peripheral neuropathy) and syndromes (Felty, Kaplan,	3. Harrison's Principles of internal medicine,	TBL, CBL
		Still), JRA.	2022	2. Working with the
		4. Makes professional decisions based on the analysis of the	4. Medscape.com	patient
		rationality of diagnosis and the principles of evidence-based	5. Uptodate.com	3. Training in the
		medicine (full diagnosis - severity, features, course options),	6. ncbi.nlm.nih.gov/PubMed/	simulation center
		complications (risk of atherosclerosis, infectious, amyloidosis), as	_	4. Mini-conference
		well as treatment taking into account comorbidity and the patient's		of the IWS topics
		condition (pregnancy, secondary infection, fibrosis lungs, etc.).		
		5. Knows the principles of prescribing pulse therapy, basic first-		
		and second-line therapy, extracorporeal methods of treatment.		
12	Medical	1. Identifies and interprets clinical symptoms and syndromes,	1. HARRISON'S Rheumatology, second	Formative
	tactics in	laboratory and instrumental data in microcrystalline arthritis	edition, 2010	assessment:
	monoarti	(gout, pyrophosphate arthropathy, basic calcium phosphate	2. Oxford Handbook of Rheumatology,	1. Using active
	cular and	crystal deposition disease), osteoarthritis, bacterial (septic)	forth edition, 2013	learning methods:
	polyartic	arthritis. Brucella arthritis and spondylitis. Gonoccal arthritis.	3. Harrison's Principles of internal medicine,	TBL
	ular	Lyme disease. Viral arthritis (with viral hepatitis, parvovirus	2022	2. Working with the
	lesions	infection) HIV-associated rheumatic symptoms and syndromes.	4. Medscape.com	patient
		2. Makes professional decisions based on the analysis of the	5. Uptodate.com	3. Training in the
		rationality of diagnosis and the principles of evidence-based	6. ncbi.nlm.nih.gov/PubMed/	simulation center
		medicine (full diagnosis - severity, features, course options,		4. Mini-conference
		complications, as well as treatment taking into account		of the IWS topics
		comorbidity and the patient's condition).		
		3. Integrates knowledge and skills to provide an individual		
		approach to the treatment of a particular patient.		
		Applies knowledge on pathogenesis, clinic and treatment for		
		primary, secondary and tertiary prevention.		
13	Seronega	1. Knows articular and extra-articular manifestations of	1. HARRISON'S Rheumatology, second	Formative
	tive	seronegative spondyloarthropathies: ankylosing spondylitis	edition, 2010	assessment:
	spondylo	(Bekhterev's disease), reactive arthritis, Reiter's disease,	2. Oxford Handbook of Rheumatology,	

		1 1 1 1 1 1 1 2 2 1 1 2 2 2 2 2 2 2 2 2	0 4 12 0010	4 77 1
	arthropat	psoriatic arthritis, ulcerative colitis, Crohn's disease, Whipple's	forth edition, 2013	1. Using active
	hies	disease, celiac disease.	3. Harrison's Principles of internal medicine,	learning methods:
		2. Whipple's disease in their typical manifestation and course,	2022	TBL
		taking into account age-related aspects.	4. Medscape.com	2. Working with the
		3. Able to interpret laboratory and instrumental data (including X-	5. Uptodate.com	patient
		ray) in seronegative spondyloarthropathies.	6. ncbi.nlm.nih.gov/PubMed/	3. Training in the
		Makes professional decisions based on the analysis of the		simulation center
		rationality of diagnosis and the principles of evidence-based		4. Mini-conference
		medicine (full diagnosis - severity, features, course options),		of the IWS topics
		complications (risk of atherosclerosis, infectious, amiliodosis), as		•
		well as treatment taking into account comorbidity and the patient's		
		condition.		
14	Systemic	1. Makes a diagnosis based on clinical criteria for systemic	1. HARRISON'S Rheumatology, second	Formative
	connecti	connective tissue diseases (systemic lupus erythematosus,	edition, 2010	assessment:
	ve tissue	systemic scleroderma, secondary antiphospholipid syndrome,	2. Oxford Handbook of Rheumatology,	1. Using active
	diseases	dermato/polymyositis, Sjögren's disease, Sharp's syndrome and	forth edition, 2013	learning methods:
	aiseases	overlap syndromes, eosinophilic fasciitis, relapsing	3. Harrison's Principles of internal medicine,	TBL
		polychondritis, fibromyalgia, paraneoplastic syndromes	2022	2. Working with the
		(rheumatic manifestations in oncopathology)).	4. Medscape.com	patient
		2. Knows the features of damage to internal organs, the course and	5. Uptodate.com	3. Training in the
		prognosis of the disease.	6. ncbi.nlm.nih.gov/PubMed/	simulation center
		3. Knows the indications for high-dose corticosteroid therapy,	o. neor.mm.nm.gov/1 dorvied/	4. Mini-conference
		pulse therapy, cytostatics, efferent therapy, biological therapy.		of the IWS topics
		4. Knows the features of therapy and patient management, taking		of the two topics
		into account comorbidity and the patient's condition.		
15	Systemic	1. Identifies, interprets the clinical symptoms of systemic	1. HARRISON'S Rheumatology, second	Formative
13	vasculitis	vasculitis (polyarteritis nodosa, cryoglobulinemic vasculitis,	edition, 2010	
	vascuiitis			assessment:
		hemorrhagic vasculitis, Behcet's disease, Takayasu's disease,	2. Oxford Handbook of Rheumatology,	1. Using active
		Wegener's granulomatosis, Churg-Straws syndrome, Horton's	forth edition, 2013	learning methods:
		disease, polymyalgia rheumatica, Buerger's disease,	3. Harrison's Principles of internal medicine,	TBL
		microscopic polyangiitis, Kawasaki disease) by relating them	2022	2. Working with the
		to the principles immunopathogenesis.	4. Medscape.com	patient
		Makes professional decisions based on the analysis of the	5. Uptodate.com	3. Training in the
		rationality of diagnosis and the principles of evidence-based		simulation center
		medicine (full diagnosis - severity, features, course options), as		4. Mini-conference
				of the IWS topics

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		well as treatment, taking into account comorbidity and the		
		patient's condition.		
		Gastroenterology, Hepatology, endocrinology, Nephrology		
16	Diseases	1. Identify and interpret clinical symptoms and syndromes,	1. HARRISON'S Gastroenterology and	Formative
	of the	data from laboratory and imaging methods of examination	Hepatology, edited by Dan L. Longo, MD,	assessment:
	esophagu	in patients with esophageal disease, Chronic gastritis,	Anthony S. Fauci, MD, Carol A. Langford,	1. Using active
	S.	duodenitis, Peptic ulcer of the stomach and duodenum,	MD, MHS, 2010	learning methods:
	Chronic	Anemia (IDA, B-12 deficiency), their typical	2. Hepatology- A clinical textbook. Mauss,	TBL
	gastritis,	manifestation and course, taking into account age aspects.	Berg, Rockstroh, Sarrazin, Wedemeyer.	2. Working with the
	duodeniti	2. Possess the skills of basic medical treatment, diagnostic	2016	patient
	s. Peptic	and preventive measures to provide medical care to the	3. Sherlock's diseases of the liver and biliary	3. Training in the
	ulcer of	population in diseases of the esophagus, chronic gastritis,	system, 12 th edition, edited by S.Dooley	simulation center
	the	duodenitis, peptic ulcer of the stomach and duodenum,	James, Anna S.F.Lok, Andrew	4. Mini-conference
	stomach	anemia (IDA, B-12 deficiency).	K.Burroughs, E.Jenny Heathcote, 2002	of the IWS topics
	and	3. Possess the initial skills of maintaining current accounting	4. Clinical Medicine Eighth Edition, by	_
	duodenu	medical documentation, including in information systems.	Professor Parveen Kumar, Dr Michael	
	m.	4. Integrates knowledge and skills to ensure an individual app	Clark, 2012	
	Anemia.	treatment of a particular patient; to teach to make profession		
	IDA, B-	based on the analysis of the rationality of diagnostics and the	MARC S. SABATINE, M.D., M.P.H. 2011	
	12 -	of evidence-based medicine.	6. Davidson's principles and practice of	
	deficienc	5. Demonstrate communication skills, teamwork skills, organi		
	y anemia	management of diagnostic and treatment process.	Stuart H., Ian D.	
		6. Apply knowledge of the principles and methods of forming	7. Medscape.com	
		lifestyle, including healthy family lifestyle.	8. Uptodate.com	
		7. Demonstrate commitment to professional values such as alt		
		compassion, empathy, responsibility, honesty and confident		
		8. Demonstrate abilities and needs for continuous professiona	ı ,	
		improvement of their knowledge and skills of professional		
		9. Demonstrate initial researcher skills.		
		10. Differential diagnostic criteria for achalasia cardia,		
		esophagospasm, gastroesophageal reflux disease, hiatal		
		hernia. Modern methods of treatment. Barrett's esophagus.		
		11. Differential diagnosis of the main syndromes in		
		gastroenterology (including those with surgical and		
		infectious pathology): pain, fever, malabsorption,		
		cytolytic, mesenchymal inflammation, astheno-vegetative,		
		cytorytic, mesenchymai innammation, astneno-vegetative,		

17	Choleste	hemorrhagic, cholestatic, putrefactive and fermentative dyspepsia, diarrhea. 12. Tumors of the esophagus. Criteria for diagnosis. Methods for early detection of the disease. Screening. The role of endoscopy and biopsy in diagnosis. Prevention. 13. The role of vitamin B-12 in hematopoiesis. The value of the autoimmune mechanism in pathogenesis. Major clinical syndromes. Laboratory and instrumental diagnostics. The value of myelogram in the diagnosis of megaloblastic anemia. 14. Differential diagnosis with folic deficiency anemia, hypoplastic anemia, acute leukemia. Treatment (oxycobalamin, cyanocobalamin). 1. Identify and interpret clinical symptoms and syndromes,	HARRISON'S Gastroenterology and	Formative
	rosis, chronic cholecyst itis, cholelithi	data from laboratory and visual examination methods in patients with Cholesterosis, Chronic cholecystitis, Cholelithiasis, Chronic pancreatitis, their typical manifestation and course, taking into account age-related aspects.	Hepatology, edited by Dan L. Longo, MD, Anthony S. Fauci, MD, Carol A. Langford, MD, MHS, 2010 2. Hepatology- A clinical textbook. Mauss, Berg, Rockstroh, Sarrazin, Wedemeyer.	assessment: 1. Using active learning methods: TBL 2. Working with the
	asis. Chronic pancreati tis	 Possess the skills of basic medical treatment, diagnostic and preventive measures to provide medical care to the population in case of Cholesterosis, Chronic cholecystitis, Gallstone disease, Chronic pancreatitis. Possess initial skills in maintaining current accounting and reporting medical documentation, including information systems. Integrates knowledge and skills to ensure an individual approach in the treatment of a particular patient; to teach to make professional decisions based on the analysis of the rationality of diagnostics and the principles of evidence-based medicine. Demonstrate communication skills, teamwork skills, organ management of diagnostic and treatment process. 	2016 3. Sherlock's diseases of the liver and biliary system, 12 th edition, edited by S.Dooley James, Anna S.F.Lok, Andrew K.Burroughs, E.Jenny Heathcote, 2002	patient 3. Training in the simulation center 4. Mini-conference of the IWS topics
		 reporting medical documentation, including information systems. 4. Integrates knowledge and skills to ensure an individual approach in the treatment of a particular patient; to teach to make professional decisions based on the analysis of the rationality of diagnostics and the principles of evidence-based medicine. 5. Demonstrate communication skills, teamwork skills, organ 	E.Jenny Heathcote, 2002	

		7. Demonstrate commitment to professional values such as alt		
		compassion, empathy, responsibility, honesty and confident		
		8. Demonstrate abilities and needs for continuous professiona		
		improvement of their knowledge and skills of professional	activity.	
		9. Demonstrate initial researcher skills.		
		10. Ultrasound methods for diagnosing stones in the		
		gallbladder, retrograde cholangiopancreatography.		
		Laparoscopic cholecystectomy. Management of the patient		
		after cholecystectomy. Derivatives of ursodeoxycholic		
		acid.		
		11. Functions of the pancreas. Features of the ductal system of		
		the pancreas. Classification of chronic pancreatitis.		
		Retrograde cholangiopancreatography. Biochemical		
		markers of chronic pancreatitis. Coprogram.		
18	Nonspeci	1. Identify and interpret clinical symptoms and syndromes,	1. HARRISON'S Gastroenterology and	Formative
	fic	laboratory and imaging data in patients with non-specific	Hepatology, edited by Dan L. Longo, MD,	assessment:
	ulcerativ	ulcerative colitis, Crohn's disease, their typical	Anthony S. Fauci, MD, Carol A. Langford,	1. Using active
	e colitis.	manifestation and course, taking into account age-related	MD, MHS, 2010	learning methods:
	Crohn's	aspects.	2. Hepatology- A clinical textbook. Mauss,	TBL
	disease	2. Possess the skills of basic medical treatment, diagnostic	Berg, Rockstroh, Sarrazin, Wedemeyer.	2. Working with the
		and preventive measures to provide medical care to the	2016	patient
		population with non-specific ulcerative colitis, Crohn's	3. Sherlock's diseases of the liver and biliary	3. Training in the
		disease.	system, 12 th edition, edited by S.Dooley	simulation center
		3. Possess the initial skills of maintaining current accounting	James, Anna S.F.Lok, Andrew	4. Mini-conference
		medical documentation, including in information systems.	K.Burroughs, E.Jenny Heathcote, 2002	of the IWS topics
		4. Integrates knowledge and skills to ensure an individual app		
		treatment of a particular patient; to teach to make profession		
		based on the analysis of the rationality of diagnostics and the	2012	
		of evidence-based medicine.		
		5. Demonstrate communication skills, teamwork skills, organi		
		management of diagnostic and treatment process.		
		6. Apply knowledge of the principles and methods of forming		
		lifestyle, including healthy family lifestyle.		
		7. Demonstrate commitment to professional values such as alt		
		compassion, empathy, responsibility, honesty and confident		

		8. Demonstrate abilities and needs for continuous professiona	training and	
		improvement of their knowledge and skills of professional		
		9. Demonstrate initial researcher skills.		
		10. Has an idea (knows) about diseases that manifest	1	
		themselves as diarrhea (tumors of the gastrointestinal tract,		
		ulcerative colitis, Crohn's disease, chronic enterocolitis,		
		mono- and disaccharidase malabsorption, celiac disease,		
		functional disorders, infectious diseases).		
		11. Knows malabsorption syndrome. Constipation (dilated		
		colon, overdistended colon syndrome, colon tumors,		
		diverticulosis, distal colon disease, irritable bowel		
		syndrome).		
		12. Tumors of the intestine. Clinical manifestations. Methods of		
		diagnosis and treatment. Screening of colorectal cancer.		
		13. Diagnostics of hypo and hypervitaminosis,		
		microelementoses.		
19	Viral	1. Identify and interpret clinical symptoms and syndromes,	1. HARRISON'S Gastroenterology and	Formative
	hepatitis.	data from laboratory and visual examination methods in	Hepatology, edited by Dan L. Longo, MD,	assessment:
	Diagnost	patients with viral hepatitis, anemia (hypoplastic and	Anthony S. Fauci, MD, Carol A. Langford,	1. Using active
	ics and	hemolytic), thrombocytopenia, their typical manifestation	MD, MHS, 2010	learning methods:
	clinical	and course, taking into account age-related aspects.	2. Hepatology- A clinical textbook. Mauss,	TBL
	manifest	2. Possess the skills of basic medical treatment, diagnostic	Berg, Rockstroh, Sarrazin, Wedemeyer.	2. Working with the
	ations,	and preventive measures to provide medical care to the	2016	patient
	antiviral	population in case of viral hepatitis, anemia (hypoplastic	3. Sherlock's diseases of the liver and biliary	3. Training in the simulation center
	therapy.	and hemolytic), thrombocytopenia.3. Possess the initial skills of maintaining current accounting and the second second	system, 12 th edition, edited by S.Dooley James, Anna S.F.Lok, Andrew	4. Mini-conference
	Hypopla stic and	medical documentation, including in information systems.	K.Burroughs, E.Jenny Heathcote, 2002	of the IWS topics
	hemolyti	4. Integrates knowledge and skills to ensure an individual app		of the two topics
	c	treatment of a particular patient; to teach to make profession		
	anemias.	based on the analysis of the rationality of diagnostics and the	The state of the s	
	Thrombo	of evidence-based medicine.	5. Pocket MEDICINE Fourth Edition, by	
	cytopeni	5. Demonstrate communication skills, teamwork skills, organi		
	a	management of diagnostic and treatment process.	6. Davidson's principles and practice of	
		6. Apply knowledge of the principles and methods of forming	1 1 1	
		lifestyle, including healthy family lifestyle.	Stuart H., Ian D.	
			7. Medscape.com	

	, ,			
		7. Demonstrate commitment to professional values such as all		
		compassion, empathy, responsibility, honesty and confident	iality.	
		8. Demonstrate abilities and needs for continuous professiona	training and	
		improvement of their knowledge and skills of professional	activity.	
		9. Demonstrate initial researcher skills.		
		10. Knows morphological diagnostics (Knodell index, fibrosis		
		level assessment - Metavir). Outcomes. Primary		
		prevention, vaccination of the population and risk groups.		
		11. Differential diagnosis of the main syndromes in liver		
		pathology: cholestasis, cytolytic, hepatocellular		
		insufficiency, portal hypertension, ascites, diffuse change,		
		volumetric formation in the liver, etc.		
		12. Treatment with antiviral drugs - standard antiviral therapy		
		for hepatitis C, hepatitis B, $B + C$, $B + D$. The main		
		indications and contraindications for the appointment of		
		antiviral therapy. Predictors of treatment effectiveness.		
		13. Features of the functional state of the blood system in		
		oncological patients. Features of the functional state of the		
		blood system in liver diseases, alcoholism, kidney		
		diseases, chronic inflammation (rheumatic diseases),		
		infectious diseases, HIV. Aplastic anemia, aplastic		
		syndrome and partial red cell aplasia.		
		14. Knowledge of hemograms, myelograms, trepanobiopsy		
		data, specific tests, morphological changes in formed		
		elements in blood smears. Principles of treatment.		
		Dispensary monitoring.		
20	Liver	Identify and interpret clinical symptoms and syndromes,	1. HARRISON'S Gastroenterology and	Formative
	cirrhosis.	data from laboratory and imaging methods of examination	Hepatology, edited by Dan L. Longo, MD,	assessment:
	Complic	in patients with liver cirrhosis, tumor of the	Anthony S. Fauci, MD, Carol A. Langford,	1. Using active
	ations of	gastrointestinal tract, their typical manifestation and	MD, MHS, 2010	learning methods:
	liver	course, taking into account age-related aspects.	2. Hepatology- A clinical textbook. Mauss,	TBL
	cirrhosis.	2. Possess the skills of basic medical treatment, diagnostic	Berg, Rockstroh, Sarrazin, Wedemeyer.	2. Working with the
	Gastroint	and preventive measures to provide medical care to the	2016	patient
	estinal	population with cirrhosis of the liver, tumors of the	3. Sherlock's diseases of the liver and biliary	3. Training in the
	tumors	gastrointestinal tract.	system, 12 th edition, edited by S.Dooley	simulation center
		San a childental and	James, Anna S.F.Lok, Andrew	
	1		values, mina s.i.box, minew	

3. Possess the initial skills of maintaining current accounting arki. Baptotingles, E.Jenny Heathcote, 2002	4. Mini-conference
medical documentation, including in information systems. 4. Medscape.com	of the IWS topics
4. Integrates knowledge and skills to ensure an individual approadliptotlate.com	
treatment of a particular patient; to teach to make professional decisionsed cine.com	
based on the analysis of the rationality of diagnostics and the prince planedics.com	
of evidence-based medicine. 8. medline.com	
5. Demonstrate communication skills, teamwork skills, organization and delement.com/	
management of diagnostic and treatment process.	
6. Apply knowledge of the principles and methods of forming a healthy	
lifestyle, including healthy family lifestyle.	
7. Demonstrate commitment to professional values such as altruism,	
compassion, empathy, responsibility, honesty and confidentiality.	
8. Demonstrate abilities and needs for continuous professional training and	
improvement of their knowledge and skills of professional activity.	
9. Demonstrate initial researcher skills.	
10. Knows the morphological classification according to	
Metavir, Knodell. Treatment. The main groups of drugs.	
Mechanism of action. Management of patients with	
cirrhosis of the liver. Indications for porto-caval shunting,	
liver transplantation (the concept of MELD). Management	
of the patient after liver resection, liver transplantation -	
the concept.	
11. The syndrome of portal hypertension. Complications:	
bleeding from varicose veins of the esophagus, portal	
gastropathy. Emergency care for bleeding from varicose	
veins of the esophagus, primary and secondary prevention.	
Hepatic encephalopathy. Evaluation of hepatic	
encephalopathy. Acute hepatic encephalopathy, causes of	
development. Severity assessment. Urgent care.	
12. Ascites and complications of ascites. Steps in the treatment	
of ascites. Refractory ascites, causes. Lapaprocentesis.	
Spontaneous bacterial peritonitis. Hepato-renal syndrome,	
hepato-pulmonary syndrome.	
13. Hepatocellular carcinoma. Criteria for diagnosis. The role	
of alphafetoprotein and ultrasound screening in diagnosis.	
PIVKA. Primary prevention.	

		44.5		
		14. Tumors of the esophagus, stomach. Criteria for diagnosis.		
		Methods for early detection of the disease. The role of		
		endoscopy and biopsy in diagnosis. Prevention.		
		15. Tumors of the intestine. Clinical manifestations. Methods		
		of diagnosis and treatment.		
21	Diabetes	1. Apply knowledge of the etiology of type 1 and type 2 diabetes in	1. HARRISON'S Endocrinology, 2 nd	Formative
	mellitus.	the process of diagnosis and treatment.	edition, by J. Larry Jameson, MD, PhD,	assessment:
	Emergen	2. Be able to conduct targeted questioning and physical	2010	1. Using active
	cies in	examination, taking into account age characteristics in patients with	2. Oxford Handbook of Endocrinology and	learning methods:
	diabetes	type 1 and type 2 diabetes.	Diabetes, Third edition, 2014	TBL
	mellitus.	3. Identify and use diagnostic and therapeutic interventions to	3. Harrison's Principles of internal	2. Working with the
	Obesity	differentiate between type 1 and type 2 diabetes.	medicine, 2022	patient
	and	4. Interpret the basic data of laboratory diagnostics.	4. Signs & Symptoms IN PEDIATRICS, by	3. Training in the
	metaboli	5. Integrate knowledge for the identification and differential	Henry M. Adam, MD, FAAP Jane Meschan	simulation center
'	c	diagnosis of emergency conditions in diabetes.	Foy, MD, FAAP, 2015	4. Mini-conference
	syndrom	6. Know the classification, mechanism of action, pharmacokinetics,	5. PRINCIPLES of PHARMACOLOGY,	of the IWS topics
	e	side effects, indications and contraindications of insulins.	Fourth Edition, 2017	
		7. Demonstrate the skills of independent work, effective	6. medline.com	
		communication in the learning process and teamwork, skills of	7. https://medelement.com/	
			8. Medscape.com	
			•	
			•	
		, , , , , , , , , , , , , , , , , , , ,		
		disorders.		
22	Diseases	1. Identify and interpret clinical symptoms and syndromes,	1. HARRISON'S Endocrinology, 2 nd	Formative
'	of the		edition, by J. Larry Jameson, MD, PhD,	assessment:
'	thyroid		2010	1. Using active
'	and			learning methods:
	parathyr		Diabetes, Third edition, 2014	TBL
'	oid			2. Working with the
'	glands		*	<u> </u>
		, , ,	4. PRINCIPLES of PHARMACOLOGY,	1
22	of the thyroid and parathyr		edition, by J. Larry Jameson, MD, PhD, 2010 2. Oxford Handbook of Endocrinology and Diabetes, Third edition, 2014 3. Harrison's Principles of internal medicine, 2022	assessment: 1. Using active learning method TBL

			 Possess the skills of basic medical treatment, diagnostic and preventive measures to provide medical care to the population in diseases of the thyroid gland and parathyroid glands (Thyrotoxicosis. Thyrotoxic heart. Thyrotoxic crisis. Hypothyroidism. Autoimmune thyroiditis (Hashimoto's goiter). Endemic goiter. Hypercalcemia and hypocalcemia. Hypoparathyroidism). Possess the initial skills of maintaining current accounting a medical documentation, including in information systems. Integrates knowledge and skills to ensure an individual app treatment of a particular patient; to teach to make profession based on the analysis of the rationality of diagnostics and the of evidence-based medicine. Demonstrate communication skills, teamwork skills, organi management of diagnostic and treatment process. Apply knowledge of the principles and methods of forming lifestyle, including healthy family lifestyle. Demonstrate commitment to professional values such as altered compassion, empathy, responsibility, honesty and confident 		3. Training in the simulation center 4. Mini-conference of the IWS topics
23	Diseases	1.	improvement of their knowledge and skills of professional 9. Demonstrate initial researcher skills. Be able to conduct targeted questioning and physical	1. HARRISON'S Endocrinology, 2 nd	Formative
	of the hypothal amic- pituitary system and adrenal glands	 3. 4. 	examination, taking into account age characteristics in patients with endocrine pathology. Identify and use diagnostic and therapeutic interventions related to the adrenal glands. Interpret the basic data of laboratory and visual diagnostics of the pathology of the adrenal glands. Integrate knowledge to identify the main pathologies of the adrenal glands: Hyperaldosteronism, Hypercorticism Syndrome, Hycorticism Syndrome, Addison's Disease, Pheochromocytoma, Acute Adrenal Insufficiency, Waterhouse-Frederiksen Syndrome, Itsenko-Cushing's Syndrome. Know the classification, mechanism of action, pharmacokinetics, side effects, indications and	edition, by J. Larry Jameson, MD, PhD, 2010 2. Oxford Handbook of Endocrinology and Diabetes, Third edition, 2014 3. Harrison's Principles of internal medicine, 2022 4. PRINCIPLES of PHARMACOLOGY, Fourth Edition, 2017 5. medline.com 6. https://medelement.com/ 7. Medscape.com 8. Uptodate.com	assessment: 1. Using active learning methods: TBL 2. Working with the patient 3. Training in the simulation center 4. Mini-conference of the IWS topics

	1			
		contraindications of the main drugs for the treatment of		
		adrenal pathology: Spironolactone, Calcium channel blockers,		
		Alpha-adrenoblockers (Doxazosin), Hydrocartisone,		
		Fludrocortisone.		
		6. Demonstrate the skills of independent work, effective		
		communication in the learning process and teamwork, skills of		
		working with information resources.		
		7. Identify, use and interpret diagnostic and therapeutic		
		interventions related to hypothalamic-pituitary system (HPS).		
		8. Interpret the main data of laboratory and visual diagnostics of		
		HPS.		
		9. Know the pathogenesis of clinical manifestations in pathology		
		of HPS.		
		10. Integrate knowledge to identify the main pathology of HPS:		
		Acromegaly, Gigantism, Diabetes Insipidus,		
		Hyperprolactinemia, S. Shikhana, Secondary hypothyroidism,		
		Nephrogenic diabetes insipidus, Hypogonadism.		
		11. Know the classification, mechanism of action,		
		pharmacokinetics, side effects, indications and		
		contraindications of the main drugs for the treatment of HPS:		
		Dopamine agonists (Cabergoline, Bromkriptine), Somatostain		
		drugs (Somatulin, Octreotide), Desmopressin analogs		
		(Minirin), Testosterone analogs, Levothyroxine.		
		12. Know, be able to diagnose and treat various pathologies of		
		HPS.		
		13. Demonstrate the skills of independent work, effective		
		communication in the learning process and teamwork, skills of		
		working with information resources.		
24	Major	1. Knows the pathogenesis and differential diagnosis of the	1. HARRISON'S Endocrinology, 2 nd	Formative
	syndrom	main syndromes in nephrology: hematuria, proteinuria,	edition, by J. Larry Jameson, MD, PhD,	assessment:
	es in	nephritic syndrome, nephrotic syndrome, renal failure	2010	1. Using active
	kidney	syndrome (acute renal pathology, end-stage chronic kidney	2. Oxford Handbook of Endocrinology and	learning methods:
	disease,	disease), dysuria, arterial hypertension, pain syndrome,	Diabetes, Third edition, 2014	TBL
	urinary	tubulointerstitial syndromes.	3. Harrison's Principles of internal	2. Working with the
	tract	2. Apply knowledge on the pathogenesis of urinary tract	medicine, 2022	patient
	infection	infections in the process of diagnosis and treatment.	4. PRINCIPLES of PHARMACOLOGY,	

- 3. Conduct targeted questioning and physical examination, taking into account age characteristics in patients with UTI.
- 4. Identify and differentiate complicated and uncomplicated UTIs, infections of the upper (pyelonephritis) and lower urinary tract (cystitis, urethritis).
- 5. Integrate knowledge to identify and differential diagnosis of the main manifestations of UTI, urolithiasis.
- 6. Substantiate and prescribe examination methods, with the interpretation of the results of laboratory and instrumental diagnostics of UTI.
- 7. Apply the principles of diagnosis and treatment, taking into account the clinical and laboratory manifestations of UTI.
- 8. Know the classification, mechanism of action, pharmacokinetics, side effects, indications and contraindications of the main drugs for the treatment of UTIs antibacterial drugs, uroseptics, antimicrobials, antispasmodics, litholytics.
- 9. Demonstrate the skills of independent work, effective communication in the learning process and teamwork, skills of working with information resources.
- 10. Apply knowledge on the pathogenesis of nephrotic syndrome in the process of diagnosis and treatment.
- 11. Conduct targeted questioning and physical examination, taking into account age characteristics in patients with nephritic syndrome.
- 12. Identify and differentiate edematous syndrome, proteinuria syndrome.
- 13. Integrate knowledge to identify and differential diagnosis of the main manifestations of nephritic syndrome.
- 14. Substantiate and assign methods of examination, with the interpretation of the results of laboratory and morphological diagnosis of nephritic syndrome.

Fourth Edition, 2017

- 5. medline.com
- 6. https://medelement.com/
- 7. Medscape.com
- 8. Uptodate.com
- 9. Harrison's nephrology and acid-base disorders/ J. Larry Jameson, 2010
- 10. Nephrology secrets. —3rd ed. / Edgar V. Lerma, Allen R. Nissenson, New York 2012

3. Training in the simulation center

4. Mini-conference of the IWS topics

		15. Apply the principles of diagnosis and treatment, taking		
		into account the clinical and morphological manifestations		
		of nephrotic syndrome.		
		16. Differentiate the morphological manifestations of		
		nephrotic syndrome with clinical and morphological		
		parallels.		
		17. Know the classification, mechanism of action,		
		pharmacokinetics, side effects, indications and		
		contraindications of the main drugs for the treatment of		
		nephrotic syndrome - corticosteroids, cytostatics, diuretics,		
		ACE inhibitors, CCBs, etc.		
		18. Demonstrate the skills of independent work, effective		
		communication in the learning process and teamwork,		
		skills of working with information resources.		
		19. Acute and chronic tubulointerstitial nephritis: medicinal,		
		infectious, idopathic, with tumors, heavy metal		
		intoxication Secondary kidney damage in diseases of		
		internal organs: hypertensive nephropathy and		
		nephroangiosclerosis, diabetic, gouty, paraneoplastic		
		nephropathy. Kidneys during aging (involutive changes),		
		vascular lesions of the kidneys, features of the course of		
2.5	C1	kidney diseases, principles of treatment.	1 77 ' 1 1 1 1 11	D C
25	Glomeru	1. Apply knowledge on the pathogenesis of nephritic	1. Harrison's nephrology and acid-base	Formative
	lar	syndrome in the process of diagnosis and treatment.	disorders/ J. Larry Jameson, 2010	assessment:
	diseases	2. Conduct targeted questioning and physical examination,	2. Nephrology secrets. —3rd ed. / Edgar V.	1. Using active
		taking into account age characteristics in patients with nephritic syndrome.	Lerma, Allen R. Nissenson, New York 2012 3. Harrison's Principles of internal	learning methods:
		3. Integrate knowledge to identify and differentially diagnose	medicine, 2022	2. Working with the
		the main manifestations of nephritic syndrome.	4. PRINCIPLES of PHARMACOLOGY,	patient
		4. Substantiate and assign methods of examination, with the	Fourth Edition, 2017	3. Training in the
		interpretation of the results of laboratory and	5. medline.com	simulation center
		morphological diagnosis of nephritic syndrome.	6. https://medelement.com/	4. Mini-conference
		5. Apply the principles of diagnosis and treatment, taking	7. Medscape.com	of the IWS topics
		into account the clinical and morphological manifestations	8. Uptodate.com	
		of nephritic syndrome.	•	
		6. Differentiate morphological manifestations of nephritic		

	1	,		
		syndrome with clinical and morphological parallels.		
		7. Know the classification, mechanism of action,		
		pharmacokinetics, side effects, indications and		
		contraindications of the main drugs for the treatment of		
		nephritic syndrome - ACE inhibitors, CCBs, diuretics,		
		corticosteroids, cytostatics.		
		8. Demonstrate the skills of independent work, effective		
		communication in the learning process and teamwork,		
		skills of working with information resources.		
		9. Morphological variants of glomerulopathies: MCGN		
		(minimal change glomerulonephritis), FSGN (Focal		
		segmental glomerulosclerosis), membranous nephropathy,		
		MPGN types 1,2,3 (membranoproliferative		
		glomerulonephritis); mesangial glomerulonephritis.		
		10. Has an idea about the syndrome of rapidly progressive		
		glomerulonephritis. Principles of diagnostics. Hemolytic-		
		uremic syndrome, Thrombotic microangiopathies. Features		
		of kidney damage in systemic connective tissue diseases		
		(SLE - systemic lupus erythematosus, SSD - systemic		
		scleroderma), with systemic vasculitis (polyarteritis		
		nodosa, mixed cryoglobulinemia, hemorrhagic vasculitis,		
		Wegener's granulomatosis, Churg-Strauss syndrome,		
		microscopic polyangiitis); Goodpasture's syndrome,		
		Antiphospholipid syndrome. Features of antibodies to the		
		cytoplasm of neutrophils - dependent glomerulonephritis.		
		11. Knows the differential diagnosis of preeclampsia and		
		eclampsia of pregnancy and glomerulonephritis. Features		
		of treatment and management of patients with kidney		
		pathology during pregnancy. Emergency care for		
		preeclampsia and eclampsia of pregnant women.		
26	Acute	1. Know the etiology, pathogenesis and classification of acute	1. Harrison's nephrology and acid-base	Formative
	kidney	renal pathologies. RIFLE classification.	disorders/ J. Larry Jameson, 2010	assessment:
	injury	2. Identify and differentiate clinical symptoms and syndromes	2. Nephrology secrets. —3rd ed. / Edgar V.	1. Using active
		in renal insufficiency.	Lerma, Allen R. Nissenson, New York 2012	learning methods:
		3. Conduct targeted questioning and physical examination,	3. Harrison's Principles of internal	TBL
		taking into account age characteristics in patients with renal	medicine, 2022	

		insufficiency.	4. PRINCIPLES of PHARMACOLOGY,	2. Working with the
		4. Substantiate and prescribe examinations with the	Fourth Edition, 2017	patient
		interpretation of the results of laboratory and instrumental	5. medline.com	3. Training in the
		methods of examination.	6. https://medelement.com/	simulation center
		5. Integrate knowledge for the detection and differential	7. Medscape.com	4. Mini-conference
		diagnosis of acute kidney injury and chronic kidney disease.	8. Uptodate.com	of the IWS topics
		6. Apply the principles of diagnosis and treatment taking into		1
		account age-related features.		
		7. Identify and assess the severity of acute kidney injury to		
		address the issue of connecting renal replacement therapy -		
		acute dialysis.		
		8. Know the features of the pharmacokinetics and		
		pharmacodynamics of the main drugs used in nephrology,		
		depending on the decrease in kidney function.		
		9. Carry out diagnostics and treatment of disorders of ionic and		
		acid-base homeostasis.		
		Demonstrate the skills of independent work, effective		
		communication in the learning process and teamwork, skills of		
		working with information resources.		
27	Chronic	1. Know the etiology, pathogenesis and classification of	1. Harrison's nephrology and acid-base	Formative
	kidney	chronic kidney disease (CKD).	disorders/ J. Larry Jameson, 2010	assessment:
	disease	2. Identify and differentiate clinical symptoms and syndromes	2. Nephrology secrets. —3rd ed. / Edgar V.	1. Using active
		in renal insufficiency.	Lerma, Allen R. Nissenson, New York 2012	learning methods:
		3. Conduct targeted questioning and physical examination,	3. Harrison's Principles of internal	TBL
		taking into account age characteristics in patients with renal	medicine, 2022	2. Working with the
		insufficiency.	4. PRINCIPLES of PHARMACOLOGY,	patient
		4. Substantiate and prescribe examinations with the	Fourth Edition, 2017	3. Training in the
		interpretation of the results of laboratory and instrumental	5. medline.com	simulation center
		methods of examination.	6. https://medelement.com/	4. Mini-conference
		5. Integrate knowledge for the detection and differential	7. Medscape.com	of the IWS topics
		diagnosis of acute kidney injury and chronic kidney disease.	8. Uptodate.com	
		6. Apply the principles of diagnosis and treatment taking into	1	
		account age-related features.		
		7. Identify and assess the severity of chronic kidney disease to		
		address the issue of connecting renal replacement therapy -		
		program hemodialysis (chroniodialysis).		
	I	1 -0		l .

8. Know the features of the pharmacokinetics and	
pharmacodynamics of the main drugs used in nephrology,	
depending on the decrease in kidney function.	
9. Carry out diagnostics and treatment of disorders of ionic	
and acid-base homeostasis.	
10. Carry out renoprophylaxis, correction of anemia, arterial	
hypertension, metabolic acidosis in the early stages of CKD.	
Demonstrate the skills of independent work, effective	
communication in the learning process and teamwork, skills of	
working with information resources.	

RUBRICATOR FOR ASSESSING LEARNING OUTCOMES with summative assessment

Rating calculation formula

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

8\ /	
Medical history	30%
Border control 1	70%
Total for BC-1	100%
360 rating	10%
Science project	10%
Medical history	20%
Border control 2	60%
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%

Case-based learning CBL

		%
1	Interpreting survey data	10
2	Interpretation of physical examination findings	10
3	Preliminary diagnosis, justification, PD, examination plan	10
4	Interpretation of lab-instrumental examination data	10
5	Clinical diagnosis, problem sheet	10
6	Management and treatment plan	10
7	The validity of the choice of drugs and treatment regimens	10
8	Evaluation of effectiveness, prognosis, prevention	10
9	Special problems and questions on the case	10
10	Companion rating (bonus)	10
		100%

360° assessment checklist for student CURATOR and Lecturer

	Very well	Criteria and points	Unsatisfactory
1	Constantly preparing for classes:	Preparing for classes	Constantly not preparing for class
	For example, backs up statements with relevant references,		For example, insufficient reading and study of
	makes short summaries	10 8 6 4 2 0	problematic issues, makes little contribution to the
	Demonstrates effective teaching skills, assists in teaching		knowledge of the group, does not analyze, does not
	others		summarize the material.
2	Takes responsibility for their own learning:	A responsibility	Takes no responsibility for their own learning:
	For example, manages their learning plan, actively tries to		For example, depends on others to complete the
	improve, critically evaluates information resources	10 8 6 4 2 0	learning plan, hides mistakes, rarely critically
			analyzes resources.
3	Actively participates in the training of the group:	Participation	
	For example, actively participates in discussions, willingly		Not active in the group training process:
	takes tasks	10 8 6 4 2 0	For example, does not participate in the discussion
			process, is reluctant to accept assignments
4	Demonstrates effective group skills	Group skills	Demonstrates ineffective group skills
	For example, takes the initiative, shows respect and		For example, inappropriately intervening, showing
	correctness towards others, helps to resolve	10 8 6 4 2 0	poor discussion skills by interrupting, avoiding or
	misunderstandings and conflicts.		ignoring others, dominating or impatient
5	Skilled in communicating with peers:	Communications	Difficulty communicating with peers
	For example, actively listening, receptive to non-verbal and		For example, poor listening skills, unable or
	emotional cues	10 8 6 4 2 0	disinclined to listen to non-verbal or emotional
	Respectful attitude		cues
			Use of obscene language
6	Highly developed professional skills:	Professionalism	Clumsy, fearful, refusing to try even basic
	Eager to complete tasks, seek opportunities for more learning,		procedures
	confident and skilled	10 8 6 4 2 0	
	Compliance with ethics and deontology in relation to patients		Inferiority in professional behavior - causing harm
	and medical staff		to the patient, rude disrespectful attitude towards
	Observance of subordination.		medical staff, colleagues
	TT: 1 · 4	D G 4	T
/	High introspection:	Reflection	Low introspection:

	For example, recognizes the limitations of their knowledge or abilities without becoming defensive or rebuking others.	10 8 6 4 2 0	For example, needs more awareness of the limits of understanding or ability and does not take positive steps to correct
8	Highly developed critical thinking:	Critical thinking	Critical Thinking Deficiency:
	For example, appropriately demonstrates skill in performing		For example, has difficulty completing key tasks.
	key tasks such as generating hypotheses, applying knowledge	10 8 6 4 2 0	As a rule, does not generate hypotheses, does not
	to case studies, critically evaluating information, drawing		apply knowledge in practice either because of their
	conclusions aloud, explaining the process of thinking		lack or because of inability (lack of induction), does
			not know how to critically evaluate information
9	Fully adheres to the rules of academic conduct with	Compliance with the	Пренебрегает правилами, мешает другим
	understanding, suggests improvements in order to increase	rules of academic	членам коллектива
	efficiency.	conduct	Neglects the rules, interferes with other members
	Complies with the ethics of communication - both oral and		of the team
	written (in chats and appeals)	10 8 6 4 2 0	
10	Fully follows the rules with full understanding of them,	Compliance with the	Breaks the rules.
	encourages other members of the group to adhere to the rules	rules of conduct in the	Encourages and provokes other members of the
	Strictly adheres to the principles of medical ethics and	hospital	group to break the rules
	PRIMUM NON NOCERE	10 8 6 4 2 0	Creates a threat to the patient
	Maximum	100 points	

^{*} gross violation of professional behavior, rules of conduct in the hospital - or a decrease in the grade for boundary control or cancellation; ethical committee

Such violations are a threat to the health of patients due to action (for example, smoking on the territory of the hospital) or inaction; rudeness and rudeness towards any person (patient, classmate, colleague, teacher, doctor, medical staff)

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

	Criteria	10	8	6	4	2
Nº		Excellent	Good	Satisfactory	Need correction	Bad
1	Patient complaints: major and minor	Completely and systematically, with an	Accurate and complete	basic information	Incomplete or inaccurate, some	Misses important
2	Collecting an anamnesis of the disease	understanding of important details			details are missing	
3	Anamnesis of life					
4	Objective status - general examination	Completely and systematically, with an understanding of important details	Consistently and correctly	Identification of main data	Incomplete or not quite correct, not attentive to patient comfort	Inappropriate data
5	Nervous system		Complete, effective, technically correct application of all examination skills, physical examination with minor errors, or corrected during execution	Revealed basic data Physical examination skills learned	Incomplete or Inaccurate Physical examination skills need to be improved	Important data are missing. Inappropriate physical examination skills
6	Medical history presentation	Maximum full description and presentation Understands the problem in a complex, connects with the patient's features	precise, focused; choice of facts shows understanding	Record is by form, includes all basic information;	Many important omissions, inaccurate or unimportant facts are often included	Lack of control of the situation, many important omissions, many clarifying questions

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 solving	The organized concentrated, allocates all questions which are falling into to the main revealed problem with a comprehension of a concrete clinical situation	Organized, the concentrated, allocates all questions which are falling into to the main revealed problem, but there is no comprehension of a concrete clinical situation	Not the concentrated, Derivation on the questions which are not falling into to the main revealed problem	Inaccurate, misses the main thing, disharmonious data.
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	High	Good	moderate	no	
	focusing					
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 possession of material, a sure manner of statement are used	It is overloaded or are insufficiently used visual materials, inexact possession of material	Visual materials are not informative	Does not own material, is not able to explain it	
b o n u s	Time management*	10 For before deadline	In time	Good quality but a little late Minus 2-4	After deadline more than 24 hours Minus 10	
b o n u s	Rating**	10 points additional	Outstanding work, for example: The best work in group Creative approach Innovative approach to realization of a task According to the proposal of group			
	* The deadline is determined by the teacher, as a rule - the day of the boundary control ** thus, you can get 90 points as much as possible, to get above 90-you need to show a result higher than expected					