ec	о́́́ити́sтік qazaqstan MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ Оңтүстік Қазақстан медицина академиясы АҚ	ская академия
2	Department of Biology and Biochemistry	011
$\mathcal{A}_{\mathcal{V}}$	Department of Pathology and Forensic Medicine	Page 1of 41
	Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology	
X	Department of Propaedeutics of Internal Diseases	No. Co.
2	Department of Pediatrics-1	6. 3.
	Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus)	1. 1. 2.
1	Educational program 6B10115 "Medicine"	ST. No.
	Svllabus	

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

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

1.	General information about the discipline	111.	1 24 03. 00 14 1 3 16
1.1	Course code: KSP 3302	1.6	Academic year: 2024-2025
1.2	Course name: Cardiorespiratory system in pathology	1.7	Course: 3
1.3	<b>Prerequisites:</b> General pathology, cardiorespiratory system is norm	1.8	Semester: 5
1.4	Postrequisites: Cardiorespiratory diseases	1.9	Number of credits (ECTS): 9/270
1	Cycle: PD	1.10	Component: IC
2.	Description of the discipline	2	Mr. 20 W. W. St. Road

Integrated discipline: development of fundamental knowledge on the basics of semiotics, syndromology, physical examination methods and the main parameters of laboratory tests, issues of etiology, pathogenesis, morphogenesis, biological characteristics of microorganisms of frequently occurring pathological processes of the cardiovascular and respiratory systems in their relationship, acquisition of skills in choosing examination methods for diagnostics and drugs for the treatment of the most common diseases in adults and children

3.	Summative Assessment Form		1 $4$ $3 $ $00 $ $4$
3.1	• Testing	3.5	Coursework
3.2	Written	3.6	Essay
3.3	Oral	3.7	Project
3.4	• reception of practical skills	3.8	Other (specify)
4.	Objectives of the discipline	VI at do.	en internationalista

Development of a holistic understanding of the main symptoms and syndromes of diseases of the cardiorespiratory system, as well as methods of their study.

Ensuring the achievement of final learning outcomes based on the integrated study of propaedeutics of internal and pediatric diseases with fundamental disciplines.

Development of clinical thinking skills based on knowledge of etiology, pathophysiological mechanisms of the course, pathological changes, complications and outcomes of diseases, physical and clinical laboratory methods of examination and selection of drugs in adults and children with the main clinical syndromes of diseases of the cardiorespiratory system.

Development of research skills through the analysis of scientific articles, experimental studies and project activities.

- 5. Final learning outcomes (LO of the discipline)
- LO1 Demonstrates knowledge and understanding of the basics of semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathological changes in the cardiorespiratory system.
- LO2 Proficient in methods of conducting questioning and physical examination of adults and children, uses clinical thinking in collecting information when making an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in pathology of the cardiorespiratory system.

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	Working		discipline "Cardiorespiratory sy cational program 6B10115 "Mec	stem in pathology"	(Syllabus)	1 stand							
LO3		ing in collecting ds of examining	information when interpreti patients with cardiorespirato	ng the results of									
LO4	Communicates info	rmation, ideas, p	broblems and solutions to pat										
LO5	in ethical and deontological practices when communicating with patients, their relatives and colleagues. Determines pathological processes at the organ and cellular levels, interprets data on the pathophysiology and morphology of diseases taking into account the clinical data of patients, makes conclusions, explains the patterns of development of complications and outcomes of pathology of the cardiorespiratory system, evaluates the results of experimental studies. Selects medications in accordance with the diagnosis, writes prescriptions, determines the dosage regimen,												
LO6													
LO7				ticles, completes	a project, demoi	nstrates a desire							
for continuous improvement of his/her activities.         5.1       LO of discipline       Learning outcomes of the EP, which are associated with the discipline LO         LO 1       LO 1 Assesses population health indicators and its physical, radiolog         LO 2       and biological-ecological determinants													
ma.	LO 3LO 2 Performs professional duties efficiently based on self-control and continuous improvement of his/her activities.												
	LO 5 LO 6 LO 7		ne results of modern resea count bioethics.	arch methods in	their profession	onal activities,							
<b>6.</b> 6.1	Detailed informati		cipline f Biology and Biochemistry:	Channel A 1 D		1 Stanio							
du. r du. s du. s s s s s s s s s s s s s s s s s s s	<ul> <li>Location of t building No.</li> <li>e-mail: <u>Patan.gist</u></li> <li>Location of t Shymkent, Al-Fan No. 421, No. 425 tel. 40-82-06 (AT</li> <li>Location of t Clinic "Parkl tel: 8 701 73 e-mail: propertion</li> </ul>	2 of SKMA, 4th <u>o@mail.ru</u> he Department of rabi sq., 1, main of , No. 429, No. 43 S), 227 (ext.). he Department of Health", Kurman 8 6114, <u>edevtica_vb@ma</u> he Department of	of Pathology and Forensic Me floor, rooms No. 404 a, b, N of Pharmacology, Pharmacoth educational building of SKM 81, No. 434, No. 417, lecture of Propaedeutics of Internal E bekova, st., 2;	io. 406, No. 408, herapy and Clinic A, 4th floor, root hall No. 4; Diseases: Shymke	No. 409, No. 41 of Pharmacolog m No. 419, nt,	1 a, b; ;y:							
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	Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases Department of Pediatrics-1									
1	Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"									
).	Full name	Degrees and Position	Email address	Scientific interests etc.	Note					
	Kenzhebekov	CChS,	inclit of blology and	"Study of the	Author of 42 scientific					
	Pernebek Kenzhebekovich	professor	kenzhebekov.p @gmail.com	chemical composition of volatile aroma- forming compounds in some meat products"	publications 1 teaching aid					
	Ordabekova Asmira Master of Baltabaevna biology, Senior Lecturer		asmira75@mail .ru	"Bauyrdyn uly zakymdanuyndagy selenin antioxidanttyk kasiyeti"	Author of 22 scientific publications 1 teaching aid					
	Asilbekova Gulshakhar Kenesbekovna	Master of Biology, Senior Lecturer	shahats@mail.ru	"Microelementoses"	Author of 14 scientific publications 1 teaching aid					
V.	Kanzhigitova Moldir Zharkynbekkyzy	Master of Biology, Senior Lecturer	Molya_1503	Alka zhane burshak tұқуmdas osimdikterdi homologilyk katarlar zanyy zertteu	Author of 10 scientific publications					
2	Zhienbaeva Aliya Aitbaevna	Teacher	alia.zhienbaeva@ mail.ru	SKUIS, COULLA	Author of 3 scientific publications					
	Beisebaeva Lyazzat Mukhtarovna		lyzzatb70@list. ru	"Organization of clinical diagnostic laboratory service in modern conditions in the Republic of Kazakhstan"	Author of 3 scientific publications					
U	Call.		nt of Pathology and		Author of 04 starts of					
5 5 1	Sadykova Aliya Shamilevna Head of Department pathology and forensic medicine, doctor of medicine, acting professor		aliya.sadykova. 66@mail.ru	The topic of the scientific direction "Pathology of the immune system, pathological anatomy of tumors"	Author of 84 scientific publications, 5 textbooks, 1 patent for invention, 1 monograph					
	Bisimbaeva Saule	PhD, Acting	Bisimbaeva @inbox.ru	The topic of the scientific direction is	Author of 40 scientific publications, 2 provisional					

	«Оңтү	- / · · · · / · · / · · · · · ·	MEDISINA AKADEMIASY цина академиясы» АК partment of Biology at	АСАДЕМУ АО «Южно-Каза»	хстанская медицинская академ 11						
20 24	Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases Department of Pediatrics-1										
1	Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"										
J.Y.	Babatovna	a.equ.k.k.	1. SKINA. SKINA. P	"Okpe tuberculosis ontayly emdeudin hygienalyk turgydan negizdeu"	patents, 1 patent, 1 monograph and 2 acts of implementation of the results of scientific research work						
24 (1)	Dosybaev Bakhytzhan Krykbaevich	PhD, Acting Associate Professor	Krik85 @mail.ru	The topic of the scientific direction "Prognostic assessment of the health of workers in cement production"	Author of 14 scientific publications						
17 310 8.0	Kulbalieva Zhannat Zhakslikovna	PhD, Acting Associate Professor	zhann_7 @mail.ru	The topic of the scientific direction is "The influence of lead on the oxidative metabolism of lipids and proteins in the blood and its correction with biofenikol"	Author of 44 scientific publications, 1 teaching aid, 2 acts of implementation of the results of scientific research work and 3 acts of implementation of the results of educational and methodological work						
ex.	Kerimov Rasim Azatovich	Master, Senior Lecturer	Kir-2004 @list.ru	The topic of the scientific direction "Diagnostics and prevention of colorectal cancer"	Author of 20 scientific publications						
9. 7.	Abildina Kalamkas Berzhanovna	Master, Assistant	Mskas1972 @mail.ru	The topic of the scientific direction is "Shymkent kalasy turgyndarynyn kolka zhane buyrek arteries of atherosclerosis morphogenesis"	Author of 19 scientific publications 1 teaching aid						
, ra	Ignatyeva Anastassiya Sergeevna	Senior teacher	zhelonkina_88@ mail.ru	1 sknona.edu.	A Standing of						
l	Berdalieva Gulmira Bakhytkyzy	Senior Lecturer	Mira-3505 @mail.ru	U.K. J. Skina.	Author of 6 scientific publications						
. ( . (	Kurymbaeva Ainur Rashidkyzy	Assistant	Smp_zoj @mail.ru	edu du te starter	ma.e. edutit						
	Seydakbar Aisana Usenovna	Teacher	aseydakbar@mai 1.ru	na. edu	Author of 2 scientific publications						
1	Duysembieva Zhazira Mereikyzy	Teacher	zhazira0508 @mail.ru	Topic of the scientific direction "Ontustik Kazakhstan aymagyndagy turgyndardyn salauatty omir saltyn kalyptastyrudyn gyly	Author of 3 scientific publications						

2	«Оңтүстік Қазақстан медицина академиясы» АҚ Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology Department of Propaedeutics of Internal Diseases Department of Pediatrics-1 Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus)									
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2 2 2 2	Dep Ibragimova Aigul Gaffarovna	Department of Pharmacology, Pharmacotherapy and Clinical PharmacologyiovaPhD, Actingaygul_ibr"Problems of rationalAuthor of more th								
Abuova PhD, Actin Gulnara Associate Turganbaevna Professor			abuova@mail.ru		Author of more than 20 scientific papers, textbooks, and methodological recommendations					
S. S.	Korganbaeva Zaure Sarybaevna	PhD, Acting Associate Professor	korganbaeva055 @mail.ru	"Korgasynmen uyttananu kezinde kan zhane bauyrdan zakymdanuyna phytopreparatardyn protektorlyk aserin negizdeu"	Author of more than 20 scientific works, teaching aids, methodological recommendations					
, the	Syrmanova Nurgul Rakhmanovna	Master of Medical Sciences, Senior teacher	n_rakchman @mail.ru	"Taspa tuysy asimdikterinen bolinip alyngan extracttardyn specificity belsendylykterin zertteu"	Author of more than 20 scientific papers, textbooks, and methodological recommendations					
Š.	Muyutova Makhsuda Nasyrovna	Master of Medical Sciences, Senior teacher	mahsu_med @mail.ru	Clinical pharmacology in general medicine and neurology	Author of 3 scientific articles					
0	Sultanbekova Aidana Nasirllaqyzy	teacher	arnur.ernur89@ mail.ru	Clinical pharmacology in general medicine and pediatrics	Author of 3 scientific articles					
3			t of Propaedeutics	of Internal Diseases	the structure ser					
L,	Bekmurzaeva Elmira Kuanyshevna	Head of Department Doctor of Medical Sciences, professor	Elmira-bek @mail.ru	Scientific work: "Clinical and hygienic features of the formation of diseases of the digestive organs in workers of a modern oil	Author of over 260 scientific and methodological publications, 2 textbooks, 8 teaching aids. Certificate of therapist, gastroenterologist					

2	na.edu.kl.kl	De Depart Department of Pharr Depart	ment of Propaedeutics Department of Pe	K O«Южно-Каза and Biochemistry d Forensic Medicine herapy and Clinical Pharmaco s of Internal Diseases ediatrics-1	Strike and skilling of
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1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Sadykova Gulzhan	PhD, Acting	gulzhan2171	refining production (on the example of JSC "SHNOS")"	and rheumatologist of the highest category. 2005 - Doctor of Medical Sciences, approved by the Higher Attestation Commission of the Republic of Kazakhstan (diploma FK No. 0000379), (14.00.50 - "Occupational Medicine"), professor in the specialty "Medicine" (diploma PR No. 0000446), Higher Attestation Commission of the Republic of Kazakhstan. Under the supervision of Bekmurzaeva E.K., 3 candidates of medical sciences were prepared, who received approval from the Committee for Control and Certification in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan. Awarded for high scientific achievements with medals, diplomas and certificates: Robert Koch 2012, Peterkoff 2014, Albert Schweitzer 2015, "Excellent Healthcare Worker of the Republic of Kazakhstan", Republican grant of the Ministry of Education and Science of the Republic of Kazakhstan "Best University Teacher - 2014" Author of more than 35
, 10 , 10 , 10	Sadykova Gulzhan Saparovna	PhD, Acting Associate Professor	gulzhan2171 @mail.ru	Scientific work: "Uly hepatitister kesindegi pannuvladinnin hepatoprotectorlyk aseri"	Author of more than 35 scientific and scientific- methodical publications, 8 teaching aids, Certificate of the highest category therapist. Certificate of a specialist in general medicine
1	Baidullaev Bahram Muzaffarovich	Assistant	bbm2055 @mail.ru	KU.KI SKINONO	Author of over 65 scientific and scientific-methodical publications, 6 teaching aids Certificate of the highest

	Department of Biology and Biochemistry Department of Pathology and Forensic Medicine Department of Pharmacology, Pharmacotherapy and Clinical Pharmacology								
	Department of Propaedeutics of Internal Diseases Department of Pediatrics-1								
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200	Akhaeva Laura Zhaksylykovna	Assistant	Laura1990a00 @mail.ru	equite	1 5	Certificate of general practitio of 25 scientific j	ner. Author		
5.9	Toktarova Gulnaz Abdimalikovna	Assistant	Toktar_8585 @mail.ru			therapist, fu diagnostics, ca Author of 8 s publications and	Certificate of specialist therapist, functional diagnostics, cardiologist. Author of 8 scientific publications and co-author of 1 educational and		
6	Batkhieva Madina Bekenovna	Assistant	Madin_madina @mail.ru				eaching aid. APTIS herapist ate		
7	Tazhibaeva Azhar Bakytbekkyzy	Assistant	avril.tab@mail.ru	a.e.edu.	R. K.	Certificate o Practitioner A scientific pul	f General uthor of 29		
8	Amangeldieva Gulfairuz Seytimovna	Assistant	Amangeldievag 71@mail.ru	A SKINA. 8	edu.k	Certificate o Practitio	f General		
. (		DID	Department of Pedi						
L V	Kemelbekov Kanatzhan Sauhanbekovich	PhD	Kanat- 270184@mail.ru	Pediatrics, Balalar surger	y	Author of more scientific public and 3 textbook	cations		
2	Mustafina Kenzhegul Akhmetovna	Associate Professor	<u>sayat.mka@mail.</u> <u>ru</u>	Pediatrics	, 3, 3,45 VI . 0	Author of more than 70 scientific publications and 3 textbooks			
3	Baimakhanova Bakhtygul Bimendievna	PhD, Associate Professor	Bakhtigul059 @mail.ru	Pediatrics	du.Kl	Author of more scientific public 1 manual			
4	Toleuova Akgulim	assistant	ai_ol_ak.83 @mail.ru	Pediatrics	a.edu	Author of more scientific public	cations		
5	Absadyk Aidana Erseitkyzy	Aidana		Pediatrics	KUUS	and 1 textbook           Author of scientific           publications -			
6	Akhmetova Gaukhar Shakenovna	Akhmetova assistant Gaukhar		Pediatrics	L SK	Author of more scientific public 1 textbook			
7	Baltabaeva assistant Botakoz Serikyzy		Boti.asik@mail. ru	edu, ki	Author of scient publications -	ific			
8. Day	Thematic plan Name of topic	JU. K. S. KING	Summary		LO Ho liscip lines		Forms/ evaluation methods		

Department o	о медицина академиясы» АК Орантина об Biology and Biochemistry Department of Pathology and Forensic Medic f Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Disea Department of Pediatrics-1	ine al Pharr ases	nacolo	N. KI St	инская акадел 11 Page 9of			
Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"								
Propaedeutics of internal Diseases. Lecture 1 The importance of internal diseases in general medical education. Questioning, examination, palpation, percussion and auscultation of patients with respiratory diseases in norm and pathology. Diagnostic importance.	The importance of internal diseases in general medical education. Objectives and tasks of the discipline. Scheme of the medical history. Physical examination methods. Questioning, general examination, palpation, percussion and auscultation of patients with respiratory diseases in norm and pathology. Diagnostic value.		AU.Y.	Overview lecture	Quick poll Feedback			
Propaedeutics of internal diseases. 1. Practical class Questioning, examination, palpation, percussion, auscultation of the lungs in patients with diseases of the respiratory system in health and pathology. Diagnostic value.	Questioning patients with respiratory diseases: main and additional complaints. Peculiarities of the anamnesis of the disease and life. Determination of the respiratory rate, type and rhythm. Palpation of the chest: determination of tenderness, resistance and vocal fremitus. Percussion of the chest: comparative and topographic: determination of the upper and lower border, excursion and Kroening fields. Auscultation of the lungs: vesicular and bronchial breathing. Bronchophony. Additional respiratory sounds: wheezing, crepitation, pleural friction rub. Diagnostic value.	LO2 LO3 LO4	2013 2011 2011 2011 2011 2011 2011 2011	Discussion of the topic of the practical class, solving situational problems.	Checklist for oral questionin g, checklist for solving a situational problem			
Propaedeutics of internal diseases. SIWT/SIW 1 Diagnostic value of laboratory and instrumental methods of studying respiratory organs. Study of external respiratory function.	Basic methods of laboratory research and instrumental research and determination of a number of diagnostic signs that serve as criteria for the pathological process of the respiratory system. Methods of functional diagnostics.	LO2 LO3	12/4	Presentation Defense	Presentation Evaluation Checklist			
 Pathological anatomy. Lecture 1 Pathological anatomy of lung diseases	Acute and chronic bronchitis. Lobar pneumonia. Bronchopneumonia. Bronchial asthma. Bronchiectasis. Emphysema. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LOI	R9 SKM	Overview lecture	Quick poll Feedback			
Pathological anatomy. Practical class 1 Pathological anatomy of lung diseases	Acute and chronic bronchitis. Lobar pneumonia. Bronchopneumonia. Bronchial asthma. Bronchiectasis. Emphysema. Pulmonary edema. Hydrothorax. Lung cancer. Lung abscess. Pleurisy. Etiology. Pathogenesis.	LO3 LO5	edu edu	Discussion of the topic, description of macro- and micro- preparations with the	Checklist descriptions of macro- and microprepar ations, case			

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Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"								
Educational program 6B10115 "Medicine"         Morphogenesis. Pathological anatomy.       conclusion         Complications. Causes of death.       nim,         Clinical significance       case study								
Pathological anatomy. SIWT/SIW 1 Pathological anatomy of lung diseases	Pulmonary edema. Hydrothorax. Lung cancer. Lung abscess. Pleurisy. Interstitial (restrictive) lung diseases. Tuberculosis. Pneumosclerosis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1/6	Case study	Case Solution Checklist			
Biochemistry. Practical class 1 Biochemistry of the respiratory system in pathology	Biochemistry of the respiratory system in pathology.	LO3 LO5	ind Skr	Discussion of the topic, solving situational problems, testing	Checklist for solving a situational problem			
Pathological physiology. Lecture 1 Pathophysiology of external respiration	Impaired pulmonary ventilation. Alveolar hypo- and hyperventilation. Obstructive and restrictive types of hypoventilation. Impaired gas diffusion through the alveolar-capillary membrane. Impaired pulmonary blood flow. Pulmonary hypertension. Impaired respiratory regulation. Insufficiency of external respiration, types, pathogenesis. Pulmonary edema. Clinical significance		12.80 13.80 13.80	Overview lecture	Quick poll Feedback			
Pathological physiology. Practical class 1 Pathophysiology of external respiration	Impaired pulmonary ventilation. Alveolar hypo- and hyperventilation. Obstructive and restrictive types of hypoventilation. Impaired gas diffusion through the alveolar-capillary membrane. Impaired pulmonary blood flow. Pulmonary hypertension. Impaired respiratory regulation. Insufficiency of external respiration, types, pathogenesis. Pulmonary edema. Clinical significance	LO3 LO5	1.3 J.KL na.e	Discussion of the topic, case study	Case Solution Checklist			
Pathological physiology. SIWT/SIW 1 Respiratory distress syndrome	Respiratory distress syndrome of newborns and respiratory distress syndrome of adults, concept, etiopathogenesis, manifestations. Clinical significance	LO3 LO5	1/6	Case study	Case Solution Checklist			
<b>Pharmacology. Lecture 1</b> Pharmacology as a scientific discipline. Pharmacokinetics, pharmacodynamics of drugs. Interaction of drugs.	Definition of pharmacology, content and main tasks of pharmacology. Pharmacokinetics of drugs, definition and content. Main parameters of pharmacokinetics. Pharmacodynamics of drugs, definition and content. Types	LOI	edu na.	Overview lecture	Quick poll Feedback			

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Department of	Department of Pathology and Forensic Medic f Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dise Department of Pediatrics-1	al Pharr	nacolo	gyl Sky	Page 11 41
	the discipline "Cardiorespiratory system in pa Educational program 6B10115 "Medicine"	athology	" (Sylla	abus)	- KUI
R. S. SKINA. E. EUU.K. JU.K. SKINA. SKINA. EUU.K. S. EUU.K. SKINA. EUU.K. S. EUU.K. SKINA. EUU.K. Ma. EUU.K. SKINA. SKINA.	of action of drugs. Factors influencing the pharmacokinetics and pharmacodynamics of drugs. Features of the pharmacokinetics of drugs in pregnant women. Features of the pharmacokinetics and pharmacodynamics of drugs in the fetus. Types of drug interactions. Combination of drugs.	5 4 4 19 19 19 19 19 19 19 19 19 19 19 19 19	Marine Skin Skin Skin	A.edu.edu.edu Ma.edu.edu Skina.edu KI. Skina.e	R 56 11. KL .edu. KL 
Pharmacology. Practical class 1 Chemotherapeutic agents. Antibacterial agents (antibiotics)	Classification. Mechanism and spectrum of antimicrobial action. Beta- lactam antibiotics. Penicillin group antibiotics: classification, mechanism and spectrum of action and pharmacokinetics of drugs. Features of action and use of semi-synthetic penicillins. Ureidopenicillins. Combination drugs with beta- lactamase inhibitors. Features of use in children.	LO6	3) 2.30 540 540	writing out prescriptions	for solving a situationa problem, checklist fo writing prescription s
<ul> <li>Pharmacology.</li> <li>SIWT/SIW 1</li> <li>1. Antibiotic resistance.</li> <li>Antiseptic and disinfectants.</li> <li>2. Drugs that affect efferent innervation: cholinergic drugs.</li> </ul>	The concept of antibiotic therapy. Requirements imposed on it. Antibiotic resistance. Antiseptic and disinfectant agents. Classification. Mechanism of action. Application. Biological significance of antibiotics. History of obtaining and using antibiotics. Principles of classification. Principles of combining antibiotics. Features of use in children. M-N-cholinomimetic agents. Anticholinesterase agents. Toxic effect of muscarine, treatment of poisoning. M-N-cholinoblockers. Ganglionic blockers. Muscle relaxants. Classification, mechanism of action.	17. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7		Presentation Defense Analysis of scientific articles	Presentatio Evaluation Checklist Checklist conducting an analysis of a scientific article
Propaedeutics of children diseases. Lecture 1 Introduction to propaedeutics of childhood diseases. Periods of childhood. Physical development. Questioning and general examination of sick children of different age groups. Questioning, examination, palpation, percussion, auscultation of the chest of sick children of different age groups	The purpose and objectives of the discipline. Scheme of the medical history. Diagnostic value of methods of clinical examination of sick children of different age groups. Questioning or medical interview; rules for collecting anamnesis. Physical examination methods.		RAN AL NU.KI NO. C	Overview lecture	Quick poll Feedback

	Department o	Department of Biology and Biochemistry Department of Pathology and Forensic Medic f Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dises Department of Pediatrics-1	cine cal Phari ases	nacolog	KI SK	инская акаде 11 Page 12 41
S		the discipline "Cardiorespiratory system in pa Educational program 6B10115 "Medicine"	athology	" (Sylla	abus)	3 SKILL
w	ith respiratory pathology.	12 SKN BE COULTY	Sty	n.	a.e. duri	FL St
di P Q ey di Q pa au ch	ropaedeutics of children iseases. ractical class 1 uestioning and general kamination of sick children of ifferent age groups. uestioning, examination, alpation, percussion, uscultation of the chest of sick hildren of different age groups ith respiratory pathology.	Diagnostic value of clinical examination methods for sick children of different age groups. Examination – examination of the skin, mucous membranes of the lips, fingertips; condition of external respiration - examination of the nose – condition of the septum and wings of the nose, nasolabial triangle; changes in them - examination of the chest – shape, symmetry of both halves, participation in the act of breathing; changes in them. Palpation of the chest: methods for determining the elasticity of the chest; methods for determining vocal fremitus and its changes. Percussion of the lungs: physical principles of percussion of the lungs and clear pulmonary sound; rules of percussion; methods and techniques for performing the upper and lower boundaries of the lungs, Kerning fields. Diagnostic value. Methodology for determining active mobility of the lower edge of the lungs. Basic rules for auscultation of the lungs in children. Basic respiratory sounds. The mechanism of occurrence of vesicular and bronchial breathing. Bronchophony. Adverse respiratory sounds. The mechanism of occurrence of wheezing, crepitations, pleural	s.edu ma.e skm .kl.k	A A A A A A A A A A A A A A A A A A A	Discussion of the topic, performance of practical skills.	Checklist for mastering practical skills
P	St. Mor evenue	friction noise. Differential diagnostics of adverse respiratory sounds		174	Derformen	Proventional
di SI D ar	ropaedeutics of children iseases. IWT/SIW 1 viagnostic value of laboratory nd instrumental methods of udying the respiratory organs	Study of external respiration function in children. Relevance of application of instrumental research methods. Types of laboratory and instrumental research methods. Their importance in differential diagnostics	LO 4 LO5 LO6	51/4 7 54 7 7	Performing practical skills	Practical Skills Assessment Checklist
P di L (p	ropaedeutics of internal iseases. ecture 2 eading clinical syndromes pulmonary tissue compaction, ronchial obstruction, increased	Predisposing factors and causes leading to the development of syndromes of lung tissue compaction, bronchial obstruction, increased airiness in the lung, the presence of fluid and cavity in the lung,	LO2	eqn Sel	Overview lecture	Quick poll Feedback

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	the discipline "Cardiorespiratory system in pa Educational program 6B10115 "Medicine"	athology	" (Sylla	abus)	SKIL
airiness in the lung, presence of fluid and cavity in the lung, respiratory failure) in patients with respiratory diseases.	respiratory failure. Clinical features and diagnostic values.	St St	SKIN	na.edu.	R SP
Propaedeutics of internal diseases. Practical class 2 Leading clinical syndromes ( lung tissue consolidation, bronchial obstruction, increased airiness in the lung) in patients with respiratory diseases. Diagnostic value.	Predisposing factors and causes leading to the development of pulmonary tissue compaction syndrome, bronchial obstruction, increased airiness in the lung. Clinical features.	LO3 LO4		Discussion of the topic of the practical class, solving situational problems	Checklist for oral questioni ng, situationa l tasks
Propaedeutics of internal diseases. SIWT/SIW 2 Laboratory and instrumental methods of examination for syndromes: compaction of lung tissue, bronchial obstruction, increased airiness in the lung. Palpation of the chest and percussion of the lungs in patients with respiratory pathology.	Laboratory and instrumental methods of examination for syndromes: compaction of lung tissue, bronchial obstruction, increased airiness in the lung. Palpation of the chest and percussion of the lungs in patients with respiratory pathology.	LO2 LO3 LO4	2/4 540 	Presentation defense, practical implementatio n what skills	Presentation Protection Checklist, Checklist for mastering practical skills
Pathological anatomy. Lecture 2 Pathological anatomy of heart diseases.	Acute ischemic heart disease. Ischemic myocardial dystrophy. Myocardial infarction. Chronic ischemic heart disease. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance.	LOI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Overview lecture	Quick poll Feedback
Pathological anatomy. Practical class 2 Pathological anatomy of heart diseases.	Acute ischemic heart disease. Ischemic myocardial dystrophy. Myocardial infarction. Chronic ischemic heart disease. Cardiosclerosis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance.	LO3 LO5	es na skm	description of macro- and	Checklist descriptions of macro- and microprepa ations, case solution checklist
Pathological anatomy. SIWT/SIW 2 Pathological anatomy of heart diseases.	Congenital and acquired cardiomyopathies. Myocarditis. Infective endocarditis. Pericarditis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance. Discussion and approval of the project topic on the	LO3 LO5 LO7	1/6	Analysis of scientific articles	Checklist conducting an analysis of a scientific article

Department of I	медицина академиясы» АҚ АО Department of Biology and Biochemistry Department of Pathology and Forensic Medic f Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Disea Department of Pediatrics-1	cine cal Pharr ases	nacolog	KI St	инская акадея 11 Page 144 41
	the discipline "Cardiorespiratory system in pa Educational program 6B10115 "Medicine"	athology	" (Sylla	abus)	SKILL
A SKIMB. COCUL	topic: "Emergency conditions. Pathological anatomy of acute cardiovascular failure".	SS	ekn.	a.e.edu.i	A St
Pathological physiology. Practical class 2 Coronary insufficiency.	Ischemic myocardial injury. Coronary insufficiency, pathogenesis. Myocardial infarction, pathogenesis, manifestations, complications. Pathogenesis of myocardial reperfusion injury. Endogenous mechanisms of cardiac protection during ischemia and reperfusion. Clinical significance.	LO3 LO5	2 KL du.K a.edi	Discussion of the topic, case study	Case Solution Checklist
Pathological physiology. SIWT/SIW 2 Non-coronary - non-rheumatic cardiac pathology.	Etiopathogenesis, manifestations, myocardial dystrophy, myocarditis, infective endocarditis, pericarditis, cardiomyopathy. Clinical significance	LO3 LO5	1/3	Case study	Case Solution Checklist
Biochemistry. Lecture 1 Biochemical changes in the cardiac myocardium.	Biochemical changes in the cardiac myocardium.	LO1	- 1 c	Overview	Quick poll Feedback
<b>Biochemistry.</b> <b>Practical class 2</b> Metabolic disorders in the lungs. Biochemical aspects of hypoxia, lactic acidosis, energy deficiency.	Metabolic disorders in the lungs. Biochemical aspects of hypoxia, lactic acidosis, energy deficiency. Disturbances in enzyme activity in respiratory system pathologies.	LO3 LO5	13.e0	Discussion of the topic, solving situational problems, testing	Situational Task Assessment Checklist
Biochemistry. SIWT/SIW 1 Biochemical markers of cardiovascular diseases.	Review of key markers used in clinical practice for the diagnosis of cardiac pathologies: troponins, creatine kinase-MB (CPK-MB), brain natriuretic peptide (BNP), C-reactive protein (CRP), lactate dehydrogenase (LDH) and others.	LO3 LO5	1/8	Discussion of the topic, solving situational problems, testing	Situational Task Assessment Checklist
Pharmacology. Lecture 2 Agents affecting efferent innervation. Cholinergic agents.	General characteristics of the autonomic nervous system. Structure and function of the cholinergic synapse. Localization of M- and H-cholinergic receptors. Characteristics of M- and H-cholinergic receptors, their subtypes. M-N-cholinomimetic agents. Anticholinesterase agents. M- cholinomimetic agents. Toxic effect of muscarine, treatment of poisoning. N-cholinomimetic agents. M-cholinoblockers. Gangliblockers.		na.edu	Overview lecture	Quick poll Feedback

	Department of I	медицина академиясы» АҚ АО Department of Biology and Biochemistry Department of Pathology and Forensic Medic f Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dises Department of Pediatrics-1	ine al Pharr ases	nacolo	KI St	инская академ 11 Page 150 41
		the discipline "Cardiorespiratory system in pa Educational program 6B10115 "Medicine"	thology	" (Syll	abus)	SKIL
	Pharmacology. Practical class 2 Chemotherapeutic agents. Antibacterial agents. Other antibiotics.	Muscle relaxants. Classification, mechanism of action. Antibiotics of the aminoglycoside, tetracycline, lincosamide, macrolide, glycopeptide, chloramphenicol and other groups. Classification, mechanism and spectrum of action and pharmacokinetics of drugs. Features of action and use of drugs. Features of use in children.	LO6	5319 5319 541,K	solving situational problems, writing out	Checklist for solving a situational problem, checklist for writing prescription s
	Pharmacology. SIWT/SIW 2 Irritants. Reflex action expectorants. Organophosphate poisoning. Atropine poisoning.	Expectorants with reflex action. Bitters, laxatives and choleretics with reflex action. Side effects. Organophosphate poisoning. Atropine poisoning. Symptoms, measures of assistance. Drugs used.	LO6 LO7	1/6 5/0 5/0	Presentation Defense Analysis of scientific articles	Presentation Evaluation Checklist Checklist conducting an analysis of a scientific article
A	Propaedeutics of children diseases. Lecture 2 Clinical syndromes in pediatric pulmonology	Predisposing factors and causes leading to the development of pulmonary tissue compaction syndrome, bronchial obstruction, lung cavity syndrome, fluid accumulation in the pleural cavity. Clinical features in children of different age groups.		13.80 13.80	Overview lecture	Quick poll Feedback
	Propaedeutics of children diseases. Practical class 2 Clinical syndromes in pediatric pulmonology	Clinical manifestations of the leading syndromes in pediatric pulmonology: pulmonary tissue compaction syndrome, bronchial obstruction, lung cavity syndrome, fluid accumulation in the pleural cavity, upper respiratory tract obstruction syndrome, respiratory distress syndrome of newborns. Clinical features in children of different age groups.	LO2 LO3	13 1.K2 na.e	Discussion of the topic, implementatio n of practical skills.	Checklist for mastering practical skills
	Propaedeutics of children diseases. SIWT/SIW 2 Clinical syndromes (acute and chronic respiratory failure) in pediatric pulmonology	Predisposing factors and causes leading to the development of acute	LO 4 LO5 LO6	1/4 5	Discussion of the topic, implementatio n of practical skills	Checklist for mastering practical skills
	Propaedeutics of internal diseases. Lecture 3 Questioning, examination, palpation and percussion of patients with cardiovascular	Questioning, examination, palpation and percussion of patients with cardiovascular pathology. Methods of examining large and peripheral vessels. Auscultation of the heart in norm and pathology. Diagnostic	LO2	edu edu	Overview lecture	Quick poll Feedback

	I Department of	академиясы» АК Department of Biology and Biochemistry Department of Pathology and Forensic Medic Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Disea	ine al Pharr	. Kl	станская медиці gy	инская акадел 11 Page 166 41
		Department of Pediatrics-1 he discipline "Cardiorespiratory system in pa	thology	" (Syll	abus)	- Knia
	pathology. Methods of examining large and peripheral vessels. Auscultation of the heart in norm and pathology. Diagnostic value.	Educational program 6B10115 "Medicine" value.	Star St	me. Skm	a.eou edu.k.e	AL SK
	Propaedeutics of internal diseases. Practical class 3 Leading clinical syndromes (presence of fluid and cavity in the lung, respiratory failure) with diseases of the respiratory system. Diagnostic value.	Predisposing factors and causes leading to the development of fluid and cavity syndrome in the lung, respiratory failure. Clinical features.	LO2 LO3	123 11. 11. 11. 11. 12. 11. 12. 11. 12. 11. 12. 11. 12. 11. 12. 12	Discussion of the topic, solving situational problems	Checklist for oral questionin g, situational tasks
	Propaedeutics of internal diseases. SIWT/SIW 3 Laboratory and instrumental methods of research in syndromes: presence of fluid and cavity in the lung, respiratory failure. Auscultation of the lungs in norm and in pathology in patients with the respiratory system.	Complaints, anamnestic features, examination and objective data of the patient. Laboratory and instrumental methods of research in syndromes: the presence of fluid and cavity in the lung, respiratory failure. Auscultation of the lungs in norm and in pathology (wheezing, crepitation, pleural friction noise) in patients with the respiratory system.	LO2 LO3 LO4	2/4	Presentation defense and practical skills implementatio n	Presentati on Evaluatio n Checklist, checklist for mastering practical skills
	Pathological anatomy. Lecture 3 Pathological anatomy of heart diseases	Rheumatism. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO1	P L P	Overview lecture	Quick poll Feedback
	Pathological anatomy. Practical class 3 Pathological anatomy of heart diseases	Rheumatism. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	all	Discussion of the topic, description of macro- and micro- preparations with the conclusion nim, case study	descriptions of macro- and microprepar ations, case solution checklist
	Pathological anatomy. Practical class 3	Topics of lectures, practical classes, independent work, covered during 1-12 days of training	LO1 LO2 LO3 LO4 LO5 LO6	1/5	Integrated control of educational achievements using control cases, testing	Checklist solutions to test cases
k	Midterm examination #1	A 34 (13 00 10 H 1	2 2	<u>()'</u>		HV 5

	I Department of E	медицина академиясы» АҚ AO Department of Biology and Biochemistry Department of Pathology and Forensic Media Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dise Department of Pediatrics-1	cine cal Pharr ases	nacolog	KI St	инская академ 11 Page 170 41
1		he discipline "Cardiorespiratory system in pa ducational program 6B10115 "Medicine"	athology	" (Syll:	abus)	SK a
5	Pathological physiology. Lecture 2 Heart rhythm disturbances	Heart rhythm disorders, types, development mechanisms, manifestations. Cardiac automatism disorders. Cardiac excitability disorders. Extrasystoles. Conduction disorders. Heart blocks. Clinical significance		NY SKN SKN	Overview lecture	Quick poll Feedback
H. C.	Pathological physiology. Practical class 3 Heart rhythm disturbances	Heart rhythm disorders, types, development mechanisms, manifestations. Cardiac automatism disorders. Cardiac excitability disorders. Extrasystoles. Conduction disorders. Heart blocks. Clinical significance	LO3 LO5	a.edi	Discussion of the topic, case study	Case Solution Checklist
	Pathological physiology.         SIWT/SIW 3         Rheumatism         Pharmacology         Practical class 3         Medicines that affect the function of the respiratory system.         Pharmacology.         Pharmacology.         Lecture 3         Medicines that affect the function of the respiratory system.	Rheumatism, concept, etiology, pathogenesis, manifestations, outcomes. Clinical significance Drugs used in bronchial conduction disorder syndrome alpha and beta adrenergic stimulants, M- anticholinergics, phosphodiesterase inhibitors, glucocorticosteroids. Drugs used in lung tissue consolidation syndrome: antibacterial therapy, antitussives and mucolytics. Drugs used in increased airiness of the lung. Drugs used in fluid accumulation syndrome, cavity in the lung and respiratory failure. The main mechanisms of action of drugs. Comparative characteristics. Indications for use. Side effects. Drugs used in bronchial conduction disorder syndrome alpha and beta adrenergic stimulants, M- anticholinergics, phosphodiesterase inhibitors, glucocorticosteroids. Drugs used in lung tissue consolidation syndrome: antibacterial therapy,	LO3 LO5 LO6	1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	solving situational	Case Solution Checklist Checklist for solving a situational problem, checklist for writing prescription s
	Pharmacology. Practical class 4 Medicines that affect the function of the respiratory system.	antitussives and mucolytics. Main mechanisms of drug action. Comparative characteristics. Indications for use. Side effects. Drugs used in fluid accumulation syndrome, pulmonary cavity and respiratory failure. The main mechanisms of drug action. Comparative characteristics. Indications for use. Side effects. Drugs used in chronic obstructive pulmonary	LO6	R JU3 edu	Discussion of the topic, solving situational problems, writing out prescriptions	Checklist for solving a situational problem, checklist for writing prescription

	l Department of I	медицина академиясы» АҚ AO Department of Biology and Biochemistry Department of Pathology and Forensic Medic Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dises Department of Pediatrics-1	cine cal Pharn ases	nacolo	KI St	инская академ 11 Page 180 41
		he discipline "Cardiorespiratory system in pa ducational program 6B10115 "Medicine"	athology	" (Syll	abus)	SKII.
2	KL SKN AND ELEVINE	disease, chronic bronchitis, bronchiectasis. The main mechanisms of drug action. Comparative characteristics. Indications for use. Side effects.	St St St St	SKIN	Ana.edu.e	A ssa
	Pharmacology. SIWT/SIW 3 Drugs used for cavity syndrome in the lung Antiallergic agents.	Drugs used for cavity syndrome in the lung: Abcess, tuberculous cavity, echinococcal cyst. Antiallergic drugs. Mechanism of action and use of antiallergic drugs (diphenhydramine, suprastin, clemastine, chloropyramine, fexofenadine). Main mechanisms of action of drugs. Comparative characteristics. Indications for use. Side effects.	LO6 LO7		Presentation Defense Analysis of scientific articles	Evaluation Checklist Checklist conducting an analysis of a scientific article
	Propaedeutics of children diseases. Lecture 3 Questioning, examination, palpation and percussion of sick children of different age groups with cardiovascular pathology.	Questioning sick children of different ages with cardiovascular pathology. Data from physical methods of examination of the cardiovascular system in a physiological state.			Overview lecture	Quick poll Feedback
	Propaedeutics of children diseases. Practical class 3 Topic: Questioning, examination, palpation and percussion of sick children of different age groups with cardiovascular pathology.	Percussion of the heart: boundaries of absolute and relative cardiac dullness, determination of the boundaries of the vascular bundle. Methodology for determination in children of different age groups. Diagnostic value. Determination of the cross-section of the heart, the position of the right and left contours and the configuration of the heart. Methods of examining large and peripheral vessels in children. Auscultation of the heart in norm and pathology in children. Examination of peripheral vessels: methods for determining the pulse, its properties - comparison of the pulse on both hands, frequency, rhythm, filling, tension, size, pulse shape; Concept and types of blood pressure; Auscultation of the heart: heart sounds, the origin of sounds or the mechanism of formation of 1 and 2 sounds. Determination of the projection of the chest, rules, order and technique of auscultation of the heart: the order of listening to the heart valves, characteristics of normal		103 KINO	Discussion of the class topic, implementatio n of practical skills.	Oral Questioning Checklist, Practical Skills Mastery Checklist

	I Department of E	Department of Biology and Biochemistry Department of Pathology and Forensic Medio Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dise Department of Pediatrics-1	cine cal Pharr ases	nacolog	VI St	инская академ 11 Page 190 41
		he discipline "Cardiorespiratory system in p ducational program 6B10115 "Medicine"	athology	" (Sylla	abus)	1 ckn o
0	KL SKINA. EUL	sounds - 1 and 2, their differences from each other during auscultation, a graphic image of the sonority of 1 and 2 sounds at the apex and base of the heart, types of changes, physiological causes of changes. Causes of Increased and Decrease in Heart Sounds in Children. Classification of Heart Murmurs	5 7 7	No. Skri HI. K.	Ma.edu.edu Ma.edu.edu Skma.edu	R. S.
5	Propaedeutics of children diseases. SIWT/SIW 3 Methodology of conducting ECG, EchoCG and functional tests in childhood	Diagnostic value of ECG, EchoCG in childhood. The concept of load- functional tests for heart diseases in children of different age groups. Ultrasound examination of the heart, its diagnostic value. Normal values in children.	LO2 LO3	1/4	Technique of performing the study and interpretation of ECG	ECG Performanc e and Interpretatio n Checklist
	Propaedeutics of internal diseases. Lecture 4 The leading clinical syndromes are: high blood pressure and ischemic heart disease, acute and chronic coronary insufficiency, damage to the valve apparatus in patients with cardiovascular diseases.	Predisposing factors and causes leading to the development of syndromes of increased blood pressure, and ischemic heart disease, acute and chronic coronary insufficiency, damage to the valve apparatus. Clinical features.		1 0 12 13 13 13 13 13 13 13 13 13 13 13 13 13	Overview lecture	Quick poll Feedback
0,0,0	Propaedeutics of internal diseases. Practical class 4 Questioning, complaints and examination of the chest of patients with cardiovascular pathology. Palpation, percussion of the heart. Auscultation of the heart and blood vessels in norm and in pathology. Diagnostic value.	Questioning, complaints and examination of patients with cardiovascular pathology. Palpation of the heart area: determination of the apical impulse. Examination and palpation of large vessels. Percussion of the heart. Methods and techniques of auscultation of the heart. Mechanism of the occurrence of tones. Causes of strengthening and weakening of heart tones. Classification of heart murmurs.	12.00 10.00 10.000 10.000 10.000 10.00000000		Discussion of the topic of the class, practical Skills performance	Checklist, Checklist for mastering practical skills
	Propaedeutics of internal diseases. SIWT/SIW 4 Diagnostic value of laboratory and instrumental studies in diseases of the cardiovascular system. Diagnostic value. ECG in norm. Electrocardiographic examination technique.	The main methods of laboratory and instrumental research and determination of a number of diagnostic signs that serve as criteria for the pathological process of the cardiovascular system. ECG in norm. Electrocardiographic examination technique. ECG - signs of hypertrophy of the atria and ventricles of the heart and in ischemic heart disease.	LO2 LO3	2/4 52/4 54 54 54 54 54 54 54 54 54 54 54 54 54	Preparation and defense of the presentation	Presentation Evaluation Checklist

5	Department of I	медицина академиясы» АҚ АО Department of Biology and Biochemistry Department of Pathology and Forensic Medic f Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dise Department of Pediatrics-1	cine cal Pharr ases	nacolo	KI SK	нская акадел 11 Page 200 41
Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"						
	Pathological anatomy. Practical class 4 Pathological anatomy of heart diseases	Atherosclerosis. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance Acute and chronic heart failure. Pulmonary heart. Congenital and acquired heart defects. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance		N2 SKN AUX	description of macro- and	Checklist descriptions of macro- and microprepar ations, case solution checklist
	Pathological anatomy. SIW 4 Pathological anatomy of heart diseases.	Acute chronic failure. Pulmonary heart. Congenital and acquired heart defects. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5 LO7	ski	Project Defense	Project Execution Checklist
	Pharmacology Lecture 4 Drugs affecting the cardiovascular system.	Medicines used for arterial hypertension: diuretics, beta blockers, calcium antagonists, ACE inhibitors. Medicines used for coronary heart disease: antianginal drugs, anticoagulants, antiplatelet agents, fibrinolytics, lipid-lowering drugs. Antiarrhythmic drugs. Mechanism of action, indications, contraindications and side effects. Classification. Comparative characteristics of drugs and application. Side effects.		12.80 13.80 13.80 13.80 13.80 13.80 13.80 14.80	Overview lecture	Quick poll Feedback
	<b>Biochemistry</b> <b>Practical class 3</b> Heart biochemistry in pathology. Lipid metabolism disorders. The role of lipoproteins in the development of atherosclerosis.	Heart biochemistry in pathology. Lipid metabolism disorders. The role of lipoproteins in the development of atherosclerosis. Dyslipoproteinemia. Hyperlipoproteinemia.	LO3 LO5	edu	Discussion of the topic, solving situational problems, testing	Checklist for solving a situational problem
Ę	Pathological physiology. Lecture 3 Heart failure. Acquired heart defects	Heart failure, classification, etiopathogenesis, manifestations, mechanisms of compensation and decompensation. Myocardial hypertrophy. Acquired heart defects. Mitral insufficiency, mitral stenosis, defects of the tricuspid valve, aortic valves and pulmonary trunk, hemodynamic disorders, manifestations. Clinical significance		RANG SHIT	Overview lecture	Quick poll Feedback
	Pathological physiology. Practical class 4 Heart failure. Acquired heart defects	Heart failure, classification, etiopathogenesis, manifestations, mechanisms of compensation and decompensation. Myocardial	LO3 LO5	3	Discussion of the topic, case study	Case Solution Checklist

	Department of		ine al Pharn	Y.	станская медиці gy	инская академ 11 Page 210: 41
	Working curriculum of	the discipline "Cardiorespiratory system in pa Educational program 6B10115 "Medicine"	thology	" (Syll	abus)	- And
0	Pathological physiology. SIWT/SIW 4	hypertrophy. Acquired heart defects. Mitral insufficiency, mitral stenosis, defects of the tricuspid valve, aortic valves and pulmonary trunk, hemodynamic disorders, manifestations. Clinical significance Congenital heart defects, types, causes, manifestations. Mechanisms of	LO3 LO5	1/6	Case study	Case Solution
3	Congenital heart defects <b>Pharmacology.</b> <b>Practical class 5</b> Drugs used for arterial hypertension and ischemic heart disease	development. Clinical significance Medicines used for arterial hypertension: diuretics, beta-blockers, alpha 1-adrenoblockers, direct vasodilators, calcium antagonists, ACE inhibitors, central alpha-2- adrenomimetics. Medicines used for coronary heart disease: antianginal drugs, anticoagulants, antiplatelet agents, fibrinolytics, lipid-lowering drugs.		4112 2.40 540 .40	solving situational problems, writing out prescriptions	a eds.
	Pharmacology. SIWT/SIW 4 Drugs used in acute coronary syndrome.	Medicines used in acute coronary syndrome: antianginal drugs, anticoagulants, antiplatelet agents, fibrinolytics, lipid-lowering drugs. Mechanism of action, indications, contraindications and side effects. Classification. Comparative characteristics of drugs and use. Side effects.	LO6 LO7	1/5	Presentation Defense Analysis of scientific articles	Presentation Evaluation Checklist Checklist conducting an analysis of a scientific article
L K	Pathological anatomy. Practical class 5 Pathological anatomy of heart diseases	Hypertension. Etiology. Pathogenesis. Morphogenesis. Pathological anatomy. Complications. Causes of death. Clinical significance	LO3 LO5	1 2 1.K2 	Discussion of the topic, description of macro- and micro- preparations with the conclusion nim, case study	Checklist descriptions of macro- and microprepar ations, case solution checklist
	Propaedeutics of children diseases. Practical class 4 Clinical syndrome of acute and chronic cardiac and vascular insufficiency in children.	Clinical manifestations of acute and chronic circulatory failure in children of different age groups: classification, etiopathogenesis, manifestations, age characteristics. Mechanisms of hemodynamic compensation in heart failure. Intra- and extracardiac compensation mechanisms The main symptoms of myocardial damage are: cardiac arrhythmia, cardiac failure, thromboembolic complications. Syndrome of arterial	LO 2 LO3		Discussion of the topic of the class, implementatio n of practical	Questioning Checklist, checklist for

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Ç Ç	Department of	Department of Biology and Biochemistry Department of Pathology and Forensic Medic Pharmacology, Pharmacotherapy and Clinic Department of Propaedeutics of Internal Dises Department of Pediatrics-1	al Pharn	nacolo	gyl St Skille	11 Page 220 41
	Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"					
	JU.K. SKINS. SKINS. EQUIT	hypertension and hypotension in childhood: primary and symptomatic. Congenital and acquired carditis syndrome in children of different age groups.	51 St St St St St	SKI	a.e. edu.e	
	Propaedeutics of children diseases. SIWT/SIW 6 Syndromes of the most common congenital heart defects.	Congenital heart defects – definition of the concept, types, causes, hemodynamic features.	LO4 LO5 LO6	1/4	Performing practical skills	Checklist for mastering practical skills
	Propaedeutics of internal diseases. Practical class 5 Leading clinical syndromes (increased blood pressure and ischemic heart disease, acute and chronic coronary insufficiency) in patients with cardiovascular diseases. Dyslipidemia. Hypotension. Diseases of the myocardium and pericardium. Diagnostic value.	Predisposing factors and causes leading to the development of syndromes of increased blood pressure, ischemic heart disease, acute, chronic coronary insufficiency and dyslipidemia, hypotension, myocardial and pericardial disease. Clinical features and diagnostic value.	LO2 LO3 LO4	3.2 ma skr	Discussion of the topic. Oral survey, implementatic n of practical skills	Oral Questioning Checklist, Practical
	Pharmacology. Practical class 6 Drugs used in acute and chronic heart failure. Drugs used in arrhythmias.	Drugs used in acute and chronic heart failure: Cardiac glycosides, ACE inhibitors, diuretics, beta-blockers. Antiarrhythmic drugs. Mechanism of action, indications, contraindications and side effects. Classification. Comparative characteristics of drugs and use. Side effects.	LOG	20 13. 54 13 13	Discussion of the topic, solving situational problems, writing out prescriptions	for solving a situational problem, checklist for writing
5	Pharmacology. SIWT/SIW 5 Medicines used for ventricular arrhythmias and prevention of sudden cardiac death. Medicines used for Tetralogy of Fallot.	Medicines used for ventricular	LO6 LO7	1/5	Presentation Defense Analysis of scientific articles	Presentation Evaluation Checklist Checklist conducting an analysis of a scientific article
	Pathological physiology. Practical class 5 Pathophysiology of blood vessels	Vascular tone disorders, types. Arterial hypertension. Primary arterial hypertension, etiology, pathogenesis. Symptomatic hypertension, types, etiopathogenesis. Vascular insufficiency, types, development mechanisms, manifestations. Atherosclerosis, concept, etiology, pathogenesis, manifestations, complications. Clinical significance	LO3 LO5	2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Discussion of the topic, case study	Checklist case solutions
	Propaedeutics of internal	Predisposing factors and causes	LO2	2	Oral survey,	Checklist

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	Working curriculum of t		ine "Cardiorespi l program 6B10		atholog	y" (Sylla	abus)	1 april a
3.0 3.0	diseases. Practical class 6 Leading clinical syndromes (valvular apparatus lesions) in patients with cardiovascular diseases. Arrhythmias. Diagnostic value.	leading apparatu Arrhyth	to the develops is damage sync mias. Clinical tic value.	nent of valve lrome.	LO3 LO4		discussion of the topic of the class, solution of situational tasks	f questioning, checklist for f solving
5 3	Biochemistry. Practical class #4 Energy metabolism disorders in pathologies. Biochemical markers of heart failure, myocardial infarction.	patholog	metabolism dis gies. Biochemi lure, myocardi	cal markers of	LO3 LO5			
9	Propaedeutics of internal diseases. SIWT/SIW 5 Laboratory and instrumental research methods for syndromes: high blood pressure and ischemic heart disease, acute and chronic coronary insufficiency, damage to the valve apparatus and arrhythmias.	methods pressure acute an insuffici	ory and instrum for syndrome and ischemic d chronic coro iency, damage is and arrhythm	heart disease, nary to the valve	LO2 LO3			Checklist
	Pathological anatomy. SIWT/SIW 4 Midterm examination #2	indepen	of lectures, prad dent work, cov of training	ctical classes, ered during 13-	RO1 PO2 PO3 PO4 RO5 RO6	SKINO	Integrated control of educationa achievemen using control case testing	for solving al control ats cases
1	Preparation and implementation	n of inter	im assessment	t St no.	e0,	1.1.	1.	27 hours
	Teaching methods and forms of	control		1 4 A	<u>e</u>	$\sum_{i=1}^{n}$	122	A. 3. 0
$\frac{1}{2}$	Lectures Practical classes		Overview lecturesWork in small groups, discussion of the topic, oral questioning (solving situational problems), writing out prescriptions, case studies, description of macro- and micropreparations with a conclusion, implementation of practical skills, interpretation of clinical laboratory test results, discussion of the topic.					
3	SIWT/SIW	du.'. K	Presentation of the topic, s	nalysis of scient defense and prace colutions to test of	tical sl cases	cills imp	Dementation	, discussion
4	Midterm examination	a. ed	Integrated mo educational c	onitoring of educ ases, testing	ational	l achiev	ements using	g control
). .1	<b>Evaluation criteria</b> Criteria for assessing the learning	ng outcom	nes of the disc	inline	<u>).</u> 6	0		K A
). )	Name of learning outcomes	Unsa	tisfactory	Satisfactoril		Fin	0, 14	Great
1	Demonstrates knowledge and understanding of the basics of		s not have a lerstanding of	1. Does not hav knowledge of t		. Has a ndersta		uently masters he basics of

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		the discipline "Cardioresp Educational program 6B10		ogy" (Syllabus)	N. KI	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	semiotics and syndromology, etiology, pathogenesis and morphogenesis of pathological changes in the cardiorespiratory system	semiotics and syndromology, does not define symptoms and syndromes. 2. Cannot explain the etiology, pathogenesis and morphogenesis of pathological changes in the cardiorespiratory system	basics of semiotics and syndromology, makes gross errors when determining symptoms and syndromes in pathologies of the cardiorespiratory system. 2. Makes mistakes	of semiotics and syndromology, identifies symptoms and syndromes. 2. Explains the etiology, pathogenesis and morphogenesis of pathological changes in the cardiorespirator y system, but allows for fundamental inaccuracies	na.edu.	hology, dently ymptoms fromes. explains ology, esis and enesis of al changes he piratory em
	Has knowledge of methods of conducting questioning, physical examination of adults and children, uses clinical thinking in collecting information when drawing up an examination plan; outlines the scope of basic and additional studies to clarify the syndrome of damage in pathology of the cardiorespiratory system	<ol> <li>Does not know the basic physiological processes in the heart and lungs, does not understand the regulation of breathing and cardiac activity.</li> <li>Unable to explain the mechanisms of gas exchange and transport of oxygen and carbon dioxide</li> </ol>			basic phys processe heart and l a deep unde of the regu breathin cardiac acti able to d mechanisr exchang	iological s in the ungs, has erstanding lation of ng and wity. 2. Is raw the ns of gas ge and of oxygen
	Uses clinical thinking in collecting information when interpreting the results of morphological, laboratory and instrumental methods of examining patients with cardiorespiratory pathology, formulates a syndromic diagnosis, fills out a medical history	<ol> <li>Does not know the main metabolic pathways that affect the function of the cardiorespiratory system.</li> <li>Does not understand the biochemical processes associated with energy exchange in the heart muscles, breathing and gas exchange</li> </ol>	1. Does not fully understand the basic metabolic pathways that affect the function of the cardiorespiratory system. 2. Poor understanding of the biochemical processes associated with energy metabolism in the heart muscles, respiration and gas exchange.	1. Explains the	applies kno collec informatio	skills, wledge in eting on when ing the ss of ogical, ry and hental ds of g patients h piratory

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		the discipline "Cardioresp Educational program 6B10		ogy" (Syllabus)	it I skind
691 1.1.	KI SKII SKII B. EOULIK JU.KI SKII B. SKII B. EOULIK JU.KI SKII B. SKII B. EOU	HI SKINA SKINA	edu. edu. Kr St	muscles, respiration and gas exchange.	Formulates a syndromic diagnosis, fills out a medical history. 3. Effectively solves situational problems.
	Communicates information, ideas, problems and solutions to patients and their family members, and is proficient in ethical and deontological practices when interacting with patients, their relatives and colleagues	1. Does not know how to apply knowledge about the cardiorespiratory system in a clinical context, has not acquired the skills to collect a clinical history and perform a physical examination of patients with cardiorespiratory diseases to provide first aid. 2. Not able to interpret the results of laboratory and instrumental studies	<ol> <li>Does not fully know how to apply knowledge about the cardiorespiratory system in a clinical context; collects clinical history and physical examination of patients with cardiorespiratory diseases to provide first aid with errors.</li> <li>With Lab, he is well versed in interpreting the results of laboratory and instrumental studies</li> </ol>	and physical examination of patients with diseases of the cardiorespirator y system and provides first aid. 2.Student is well versed in interpreting	1. Fluently demonstrates knowledge of the cardiorespiratory system in a clinical context, and conducts clinical history taking and physical examination of patients with cardiorespiratory disorders. system with the provision of first aid. 2.Student is well versed in interpreting the results of laboratory and instrumental studies
205 54 54 54 54 54 54 54 54 54 54 54 54 54	Determines pathological processes at the organ and cellular levels, interprets data on the pathophysiology and morphology of diseases taking into account the clinical data of patients, makes conclusions, explains the patterns of development of complications and outcomes of pathology of the cardiorespiratory system, evaluates the results of experimental studies	<ol> <li>Is unable to determine pathological processes at the organ and cellular levels, makes gross errors.</li> <li>Cannot interpret data on the etiology, pathophysiology and morphology of diseases taking into account the clinical data of patients.</li> <li>Makes erroneous conclusions, has poor orientation and does not explain the patterns of development of complications and outcomes of cardiorespiratory pathology.</li> <li>Is unable to evaluate</li> </ol>	account the clinical data of patients. 3. Makes erroneous conclusions, finds it difficult to independently	pathophysiolog y and morphology of diseases, taking into account the clinical data of patients. 3. Draws	<ol> <li>Independently identifies pathological processes at the organ and cellular levels.</li> <li>Independently interprets data on the etiology, pathophysiology and morphology of diseases, taking into account the clinical data of patients.</li> <li>Draws conclusions and explains the patterns of development of complications and outcomes of cardiorespiratory system pathology.</li> </ol>

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	Department o	Department of Pathology f Pharmacology, Pharmaco Department of Propaedeut Department of	and Forensic Medicine otherapy and Clinical Pl ics of Internal Diseases	narmacology	SKIN	Page 26ot 41
	Working curriculum of the discipline "Cardiorespiratory system in pathology" (Syllabus) Educational program 6B10115 "Medicine"					
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	AU.K. SKINA. EUU.K. du.K. SKINA. EUU.K. a. Edu.K. SKINA. EUU. A. Edu.K. SKINA. EUU.K. SKINA. Edu.K. SKINA. EUU.K. SKINA. Edu.K. SKINA. EUU.K.	the results of experimental studies and makes fundamental mistakes. 5. Incapable of solving situational problems	outcomes of cardiorespiratory system pathology. 4. Finds it difficult to evaluate the results of experimental studies and makes fundamental inaccuracies. 5. Solves situational problems, but makes fundamental mistakes	of pathology of the cardiorespirator y system. 4. Evaluates the results of experimental studies, but allows for unfundamental inaccuracies. 5. Solves situational problems	result experiment 5. Effective situational	s of al studies. ely solves problems
	Selects medications according to the diagnosis, writes prescriptions, determines the dosage regimen, recognizes adverse effects of medications, predicts the development of side effects and drug interactions in cardiorespiratory pathology	<ol> <li>Defines the general pharmacological group of drugs.</li> <li>Writes out a prescription with errors</li> </ol>	prescription using reference literature/ sources	common diseases. 2. Writes out a prescription for the specified medication without errors 3. Calculates the dose of the drug	1. Sel medicatio vario pharmaco groups in a with indica contraind and side 2. Write prescript medicatio most app dosage depending gender functi characte 3. Calcula using v methoo determin frequen duration o the d	ons from bus blogical ccordance ations for e, ications effects. s out a ion for ns in the ropriate form g on age, r, and onal ristics. tes doses arious ls and nes the cy and of use of
	Analyzes professional literature when working with scientific articles, carries out a project, demonstrates a desire for continuous improvement of his/her activities	<ol> <li>Does not have research skills.</li> <li>Does not have a desire for continuous self-education and development</li> </ol>	<ol> <li>Cannot analyze the topics of the classes.</li> <li>Participates in the implementation of the project</li> <li>violates deadlines for completing tasks</li> </ol>	<ol> <li>Analyzes scientific articles on the topics of the class.</li> <li>Participates in the implementation of the project.</li> <li>Completes assignments on</li> </ol>	<ol> <li>Ana scientific a the topic clas</li> <li>Uses into databases</li> <li>Succe defend completed</li> <li>Demo motivat</li> </ol>	rticles on s of the ss. ernational in work. essfully ls the l project. nstrates

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1 State W		ipline "Cardiorespiratory system in patho onal program 6B10115 "Medicine"	logy" (Syllabus)	U.M.L	SKN no
NV. KZ SK	Mara.edu.k	1 skina. edu u.K. S	time	independe approach creat	nes tasks
	criteria for evaluation	W St Stores and	A SP	<u> </u>	W. K
		Evaluation	n criteria	· · · · · · · · · · · · · · · · · · ·	20 <u>7</u> ), (
hecklist for practical class         Form of control       Grade         Performing       oractical skills         practical skills       Excellent         corresponds to points       95-100         90-94       90-94		<ul> <li>The student is well-versed in que Correctly and accurately select anamnesis, accurately analyzes pri and is well-versed in the collected a</li> <li>Accurately performs a basic examination, palpation, percussion blood pressure, determination of rate, etc. ) in children and adolescer</li> <li>Conducts correct linking of obje (palpation, auscultation, percussion and instrumental examination data.</li> <li>Able to evaluate pathophysiolog Finds and compares the connection syndromes.</li> <li>Substantiates and establishes diagnosis.</li> <li>Used additional literature wh Systematizes the material on the giv</li> <li>Effectively communicates in med relevant information, knows and deontology when performing the sk</li> </ul>	ts questions mary and secon namnesis of life physical exan n, auscultation, pulse character nts. ective physical n), correctly into ical patterns of between the ma a presumptive en preparing ven topic. ical practice, ob uses the norn	when colle ndary comple and disease nination: ge measureme istics, respin examination erprets labor research re ain symptom syndrome- for the cla	ecting laints, s. eneral ent of ratory a data ratory esults. as and based ass nveys
edu. KI SK edu. KI SK na. edu. KI skina. edu. KI skina. edu. KI skina. edu. KI	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>The student differentiates betweer complaints well, is well oriented in and disease. Is well oriented when o patients, but allows minor inaccurate corrected by the student himself.</li> <li>Accurately performs a basic physic examination, palpation, percussion, measurement, determination of pulse etc. of children and adolescents. Incon- examination results. Does not accurate</li> </ul>	the collected an questioning and cies or fundament cal examination auscultation, blue capable of correct	amnesis of 1 examining ntal errors, : general ood pressure s, respiratory ctly interpret	e V rate,

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A COLUNCE AND		<ul> <li>information;</li> <li>Links data from objective physical examination (palpation, auscultation, percussion), and incorrectly interprets data from laboratory and instrumental studies.</li> <li>Has errors in assessing pathophysiological patterns based on research results. Finds and compares the relationship between the main symptoms and syndromes. Establishes a presumptive syndrome-based diagnosis without substantiating the data</li> </ul>	mala
L SKINA	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>The student is able to navigate when questioning and examining patients, <u>differentiates between primary and secondary complaints</u> with errors, and is poorly <u>oriented</u> in the collected anamnesis of li and illness.</li> <li>Makes mistakes when conducting a physical examination (palpation, percussion, auscultation and general examination) and demonstrates incomplete knowledge of the material on the given topic, while making fundamental mistakes.</li> <li><u>Links</u> data from objective physical examination (palpation, auscultation, percussion), correctly <u>interprets</u> data from laboratory and instrumental studies. Has errors in assessing examination results. Is unable to determine the relationships between the main symptoms and syndromes. <u>Establishes a</u> presumptive syndromebased diagnosis without substantiating the data.</li> <li>Has a low level of communication skills in medical practice; subjectively conveys appropriate information;</li> </ul>	s ife y ilts.
103. 200 14	Unsatisfactory corresponds to points 25-49	- The student has no idea about the main and secondary complain and is not <u>oriented</u> in the collected anamnesis of life and illness.	ts,
AU.KL SKINA a.edu.KL SKI a.edu.KL SKI kma.edu.KL Kma.edu.KL	Unsatisfactory corresponds to points 0-24	<ul> <li>Is unable to carry out practical skills to interpret their results. <u>Cannot determine the relationship of objective physical examination</u> data (palpation, auscultation, percussion), incorrectly <u>interprets</u> laboratory and instrumental examination data.</li> <li>Does not know how <u>to evaluate pathophysiological patterns of</u> research results. <u>Does not find and is not able to compare</u> the relationship between the main symptoms and syndromes. Establis a presumptive syndrome-based diagnosis without substantiating the data</li> <li>Does not participate in the work of the group. Is not able to communicate in medical practice; does not convey proper information, does not know and is not able to use the norms of eth</li> </ul>	shes he

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Wo		ipline "Cardiorespiratory system in pathology" (Syllabus) onal program 6B10115 "Medicine"		
W.P. J. SKIN	na. edu ku ku	and deontology when performing the skill. When answering the teacher's questions, gross errors, not using specific terminology answers.		
Case study	Excellent corresponds to points 95-100 90-94	<ul> <li>solved cases within a certain time;</li> <li>gave full answers to all questions</li> <li>Demonstrates original thinking when analyzing a situational ta Fully utilizes theoretical knowledge necessary to solve a giver</li> <li>Demonstrates excellent knowledge of reference biochemical parameters when interpreting the proposed biofluid analysis da Demonstrates the ability to draw logical conclusions on a situational task, while demonstrating a deep understanding of</li> </ul>	ı task. ata.	
AU.KI SKINE	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>necessary educational material.</li> <li>solved cases within a certain time;</li> <li>gave complete answers to all questions;</li> <li>made minor mistakes when solving cases</li> <li>Possesses the necessary knowledge to solve this situational tas</li> <li>Allows for minor inaccuracies when discussing this case. Is all draw correct conclusions on the proposed situational task.</li> </ul>		
Kma.edu.edu.	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>solved cases within a certain time;</li> <li>gave incomplete answers to questions;</li> <li>made fundamental mistakes when solving cases</li> <li>Allows minor inaccuracies when discussing a given task, has</li> <li>difficulty interpreting analyses proposed in a situational task.</li> <li>Draws conclusions with difficulty</li> </ul>	13.00	
edu. K. Skin	Unsatisfactory corresponds to points 25-49 Unsatisfactory corresponds to points 0-24	<ul> <li>solved cases incorrectly or did not solve them at all;</li> <li>made gross mistakes when solving cases</li> <li>Allows fundamental errors in discussing a situational task. Pasunable to draw appropriate conclusions.</li> </ul>	ssive,	
Interpretation of Elinical aboratory test results	Excellent corresponds to points 95-100 90-94	<ul> <li>- correctly, without any errors, interpreted the results of clinical laboratory tests;</li> <li>- made a reasoned conclusion</li> </ul>		
L.KL SKMO.	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>- correctly interpreted the results of clinical laboratory tests, making minor errors;</li> <li>- made a reasoned conclusion</li> </ul>	SKI MA	
na.edu.r.K	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>correctly interpreted the results of clinical laboratory studies, having made fundamental mistakes;</li> <li>made an unfounded conclusion</li> </ul>	·S,	
SK SKINO	Unsatisfactory corresponds to points 25-49 Unsatisfactory corresponds to points	<ul> <li>- incorrectly interpreted the results of clinical laboratory tests, making gross errors;</li> <li>- did not draw a conclusion</li> </ul>	ATT AL	

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Wo		ipline "Cardiorespiratory system in pathology" (Syllabus) onal program 6B10115 "Medicine"	SKANDA
VI SHI	0-24	All as all it is all as all the	gt'
Description of the macropreparatio n	Excellent corresponds to points 95-100 90-94	<ul> <li>named the organ correctly and indicated its dimensions,</li> <li>described the surface: the condition of the capsule or serous membrane, dullness, shine, overlap;</li> <li>gave a description of the pathological focus: indicated the local size, shape (if it is an ulcer - the condition of the bottom), color, consistency;</li> <li>made the correct pathological conclusion/diagnosis</li> </ul>	tion,
AU.KI SKINA.	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>correctly named the organ, indicated the dimensions, described surface:</li> <li>condition of the capsule or serous membrane, dullness, shine, overlap;</li> <li>gave a description of the pathological focus:</li> <li>indicated the location, size, shape (if it is an ulcer – the condition the bottom), color, consistency;</li> <li>made the correct pathological conclusion/diagnosis, but during answer made minor mistakes and inaccuracies</li> </ul>	n of
2. SKITLE NA. EC. 2. KL SKITA. SKITA. 3. KL SKITA. SKITA edu. KL SKITA. SKITA	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>correctly named the organ, did not indicate the dimensions, did fully describe the surface: did not describe the condition of the capsule or serous membrane, dullness, shine, overlap;</li> <li>gave an incomplete description of the pathological focus: did not indicate indicated location, size, shape (if it is an ulcer - condition of the bottom), color, consistency;</li> <li>made the correct pathological conclusion/diagnosis, but during answer made fundamental mistakes and inaccuracies</li> </ul>	1 54 00
Na. C. Edu	Unsatisfactory corresponds to points 25-49	<ul> <li>- correctly named the organ, did not indicate the size, did not describe the surface: did not describe the condition of the capsul serous membrane, dullness, shine, overlap;</li> <li>- gave an incorrect description of the pathological focus: did not indicate indicated location, size, shape (if it is an ulcer - condition of the bottom), color, consistency;</li> <li>- made the correct pathological conclusion/diagnosis, but during answer made fundamental mistakes and inaccuracies</li> </ul>	na. el
edu. K.	Unsatisfactory corresponds to points 0-24	<ul> <li>- incorrectly named the organ, did not indicate the size, did not describe the surface: did not describe the condition of the capsul serous membrane, dullness, shine, overlap;</li> <li>- gave an incorrect description of the pathological focus: did not indicate indicated location, size, shape (if it is an ulcer - condition of the bottom), color, consistency;</li> <li>- made an incorrect pathological conclusion/diagnosis, made groe errors during the answer, some questions left unanswered</li> </ul>	10.01 01 V
Description of	Excellent corresponds to points	-correctly named the organ or tissue, correctly characterized	340

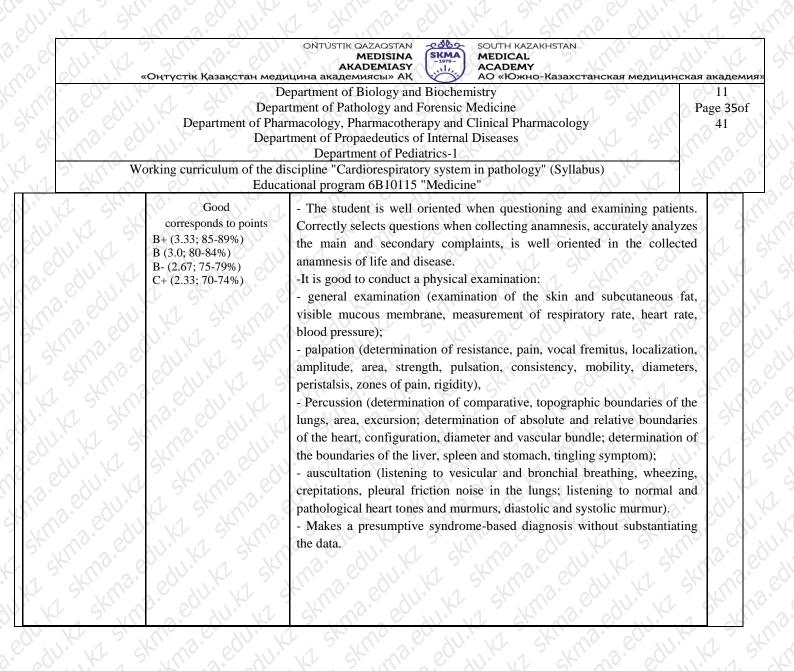
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SKUS EC EUL	Department of Pharm		age <b>31</b> 0f 41
1 Staking		ipline "Cardiorespiratory system in pathology" (Syllabus) onal program 6B10115 "Medicine"	
ne microslide	95-100 90-94	pathological changes: localization, made a description, named the color; -made the correct pathological conclusion/diagnosis	gt gt
redu. edu. K	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>-correctly named the organ or tissue, correctly characterized pathological changes: localization, made a description, named the color;</li> <li>-made the correct pathological conclusion/diagnosis, but during the answer made minor mistakes and inaccuracies</li> </ul>	212.202
KI SKITICA	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>correctly named an organ or tissue, incorrectly characterized pathological changes: localization, made a description, incorrectly named the color;</li> <li>made the correct pathological conclusion/diagnosis, but during the answer made fundamental mistakes and inaccuracies</li> </ul>	e
a.edu	Unsatisfactory corresponds to points 25-49	<ul> <li>correctly named an organ or tissue, incorrectly characterized pathological changes: localization, made a description, incorrectly named the color;</li> <li>made the correct pathological conclusion/diagnosis, made gross errors during the answer</li> </ul>	0.44 edu.
K KI SKIND	Unsatisfactory corresponds to points 0-24	<ul> <li>- incorrectly named an organ or tissue, incorrectly characterized pathological changes: localization, made a description, incorrectly named the color;</li> <li>- made an incorrect pathological conclusion/diagnosis, made gross mistakes during the answer, left some questions unanswered</li> </ul>	Stand.
rescription riting	Excellent Corresponds to ratings: A (4.0; 95-100%); A- (3.67; 90-94%)	Writes out a prescription for medicines in the most appropria dosage form depending on age, gender, and function characteristics. Writes out a prescription for the selected medici without errors. Calculates doses using various methods and determines the frequency and duration of use of the medicine.	ne
KIN SKINZ. SKINZ	Good Corresponds to ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	Writes out a prescription for the selected medication without errors Calculates the dose of the medicine. Limited to general indications "Internal", "External".	
edu.K. St.	Satisfactory Corresponds to ratings: C (2.0; 65-69%) C- (1.67; 60-64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)	Writes out a prescription using reference literature/sources. Allows corrections to the prescription.	
SKINO. BUS	Unsatisfactory FX (0.5; 25-49%) F (0; 0-24%)	Writes out a prescription with errors.	0.0.0
1 5Km		Checklist for SIWT/SIW	F A
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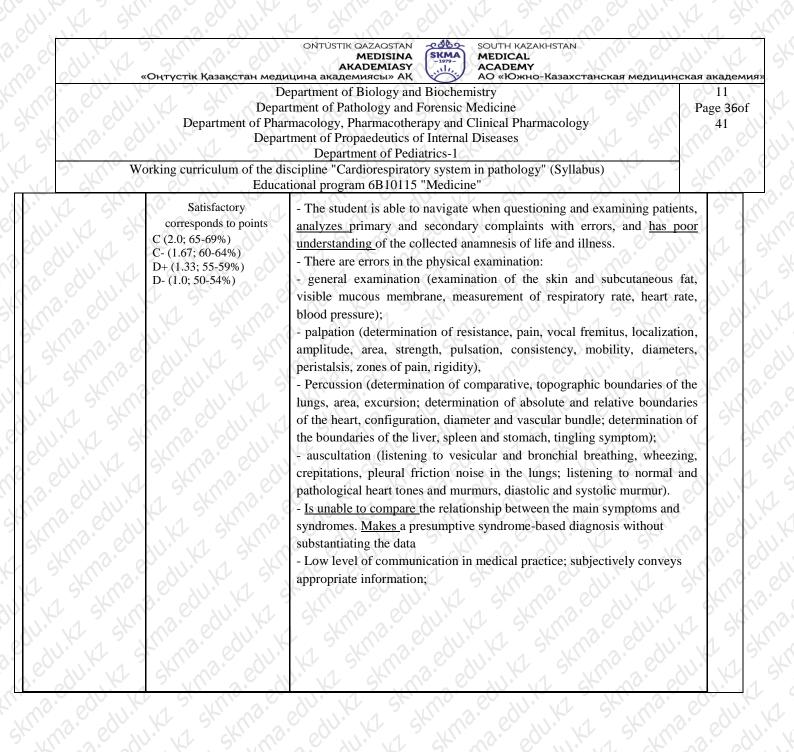
Na. Coc du.	Departr Department of Pharm	artment of Biology and Biochemistry nent of Pathology and Forensic Medicine nacology, Pharmacotherapy and Clinical Pharmacology nent of Propaedeutics of Internal Diseases Department of Pediatrics-1	11 Page 32of 41
1 Star W		ipline "Cardiorespiratory system in pathology" (Syllabus) onal program 6B10115 "Medicine"	
Analysis of a cientific article	Excellent corresponds to points 95-100 90-94	<ul> <li>independently substantiated and argued the relevance of the problem;</li> <li>explained the purpose of the work, the materials and methods u in the work;</li> <li>freely presented the semantic content of the scientific article;</li> <li>argued and substantiated conclusions;</li> <li>had the skill of using literature and justifying the selected list or references in this article</li> </ul>	du.k
AL SKING BURNA	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>substantiated and argued the relevance of the problem;</li> <li>explained the purpose of the work, the materials and methods u in the work;</li> <li>outlined the semantic content of the scientific article;</li> <li>argued and substantiated conclusions;</li> <li>had the skill of using literature and justifying the selected list or references in this article;</li> <li>when answering, he made minor mistakes and inaccuracies</li> </ul>	L SK SKON
KINA. C. COLL	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>found it difficult to justify and argue the relevance of the probl</li> <li>explained the purpose of the work, the materials and methods u in the work;</li> <li>had difficulty expressing the semantic content of a scientific article;</li> <li>had difficulty arguing and substantiating conclusions;</li> <li>had the skill of using literature and justifying the selected list or references in this article;</li> <li>when answering, he made fundamental mistakes and inaccurace</li> </ul>	ised f
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edu. K.	Unsatisfactory corresponds to points 0-24	<ul> <li>found it difficult to justify and argue the relevance of the probl</li> <li>could not explain the purpose of the work, the materials and methods used in the work;</li> <li>was unable to convey the semantic content of a scientific articl</li> <li>was unable to argue and justify the conclusions;</li> <li>failed to demonstrate the skill of using literature and justifying selected list of literature in this article;</li> <li>made gross mistakes when answering</li> </ul>	e;

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na.edu	Depa Departm Department of Pharma	artment of Biology and Biochemistry nent of Pathology and Forensic Medicine acology, Pharmacotherapy and Clinical Pharmacology ent of Propaedeutics of Internal Diseases Department of Pediatrics-1	11 Page 33of 41
W		ipline "Cardiorespiratory system in pathology" (Syllabus) nal program 6B10115 "Medicine"	
Discussion of the opic	Excellent corresponds to points 95-100 90-94	<ul> <li>- did not make any mistakes during the discussion;</li> <li>- was oriented in the theories, concepts and directions of the discipline and gave them a critical assessment;</li> <li>- used scientific achievements of other disciplines</li> </ul>	A A A
SKUUS EQUINA	Good corresponds to points 85-89 80-84 75-79 70-74	<ul> <li>during the discussion he did not make any gross mistakes, bu did make inaccuracies and minor errors, which he corrected himself;</li> <li>managed to systematize the program material with the help o teacher</li> </ul>	edu
KI SKISKMON	Satisfactory corresponds to points 65-69 60-64 50-54	<ul> <li>made fundamental mistakes during the discussion;</li> <li>limited himself to only the educational literature specified by teacher;</li> <li>experienced great difficulty in systematizing the material</li> </ul>	the
a.edu.u.ki	Unsatisfactory corresponds to points 25-49	<ul> <li>made gross mistakes during the discussion;</li> <li>did not study the basic literature on the topic of the class;</li> <li>failed to use the scientific terminology of the discipline</li> </ul>	edu, U.V.
Checklist for mid	Unsatisfactory corresponds to points	ear in the sight was earning section	3.00 00
	0-24 dterm examination asse		ckm2.02.
<b>Festing</b> - testing i necklist for assessing Form of control	dterm examination assessed using a multi- g practical skills "Propaedeu Grade	-point knowledge assessment system. <i>tics of internal diseases''</i> Evaluation criteria	
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Festing - testing in wecklist for assessing Form of control	dterm examination asse is assessed using a multi- g practical skills "Propaedeu Grade	-point knowledge assessment system. tics of internal diseases'' Evaluation criteria	Redukt

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Stille		liscipline "Cardiorespiratory system in pathology" (Syllabus)	
Performing	Educ	ational program 6B10115 "Medicine"	ts A
Performing practical skills	corresponds to points A (4.0; 95-100%); A- (3.67; 90-94%)	<ul> <li>The student is well-versed in questioning and examining patien Correctly and accurately selects questions when collecting anamnes accurately analyzes primary and secondary complaints, and is well-verse in the collected anamnesis of life and disease.</li> <li>Conduct physical examination accurately: <ul> <li>general examination (examination of the skin and subcutaneous ff visible mucous membrane, measurement of respiratory rate, heart rat blood pressure);</li> <li>palpation (determination of resistance, pain, vocal fremitus, localizatio amplitude, area, strength, pulsation, consistency, mobility, diameter peristalsis, zones of pain, rigidity),</li> <li>Percussion (determination of comparative, topographic boundaries of th lungs, area, excursion; determination of absolute and relative boundari of the heart, configuration, diameter and vascular bundle; determination the boundaries of the liver, spleen and stomach, tingling symptom);</li> <li>auscultation (listening to vesicular and bronchial breathing, wheezin crepitations, pleural friction noise in the lungs; listening to normal an pathological heart tones and murmurs, diastolic and systolic murmur).</li> <li>Substantiates and makes a tentative syndromic diagnosis.</li> <li>Used additional literature when preparing for the class. Systematizes t material on the given topic. Communicates effectively in medical practic objectively conveys relevant information, knows and uses the norms ethics and deontology when performing the skill;</li> </ul> </li> </ul>	is, ed at, te, on, rs, he es of nd he ce, of
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	scipline "Cardiorespiratory system in pathology" (Syllabus) tional program 6B10115 "Medicine"	<u>6. a</u>
Unsatisfactory corresponds to points FX (0.5; 25-49%) Unsatisfactory corresponds to points F (0; 0-24%)	<ul> <li>The student has no idea about the main and secondary complaints, and is not <u>oriented</u> in the collected anamnesis of life and illness.</li> <li><u>Is unable</u> to carry out practical skills to interpret their results. <u>Does not</u> <u>see the connection between</u> objective physical examination data:</li> <li>general examination (examination of the skin and subcutaneous fat, visible mucous membrane, measurement of respiratory rate, heart rate, blood pressure);</li> <li>palpation (determination of resistance, pain, vocal fremitus, localization, amplitude, area, strength, pulsation, consistency, mobility, diameters, peristalsis, zones of pain, rigidity),</li> <li>Percussion (determination of comparative, topographic boundaries of the lungs, area, excursion; determination of absolute and relative boundaries of the boundaries of the liver, spleen and stomach, tingling symptom);</li> <li>auscultation (listening to vesicular and bronchial breathing, wheezing, crepitations, pleural friction noise in the lungs; listening to normal and pathological heart tones and murmurs, diastolic and systolic murmur).</li> <li><u>Does not find and is unable to compare</u> the relationship between the main symptoms and syndromes. <u>Makes</u> a presumptive syndrome-based diagnosis without substantiating the data</li> <li><u>Did not</u> participate in the group work. Is not able to communicate in medical practice; <u>does not convey</u> proper information, <u>does not know and is not able</u> to use the norms of ethics and deontology when performing the skill. When answering the teacher's questions, gross errors, not using specific terminology in answers.</li> </ul>	54 5 1 1 00 00 00 00 00 00 00 00 00 00 00 00

No.	Evaluation criteria	2.0 200		Level	
	KUI 3.0 gr. KI SE	Excellent	Good	Satisfactory	Unsatisfactory
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H Y	Written response to the questions of this assignment	30	21	5 15 10 e	0
2	Oral answer to the questions of this task	305	21	15 ge an	0.00
3	Completing test tasks	12	8	6	<u>3.0</u>
4	Solving situational problems	28	\$ 20	14	0.0
S	Total:	100	70	50	0
SIW a	nd SIWT checklist	in the the	VI SH	an en with	1 de la
No.	Evaluation criteria	and and	N. T. F	evel	K. J. S. Ku.
	S Great	at C	Fine	Satisfactorily	Unsatisfactory

2.0	divi ki «On	ңтүстік Қаза	ř.	Depart	мерізі академиясы» ment of Biology	AK and Biochen	nistry		анская медицино	ская акадел 11
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5	Work	ing curricul			ine "Cardioresp l program 6B10			y" (Syllabı	ls)	
J	Presentation Defe	ense	50		A . 3	5	5-2:	50000	0	St
F	Performing practi	cal skills	50	14.	1 SK KM3	5 00	× 2	5 SKUL	0.2.ed/0	XL XL
	General:	SP	100	AV.	LV Si	0	50		0.6	90. Y
ckli No	st for assessing Evaluation				of macropre Excellent	<u>parations</u> Good	Satis	factory	Unsatisfact	ory
1	Name of the	organ	SKI'	2	4	F 35K		2	1 0,4	10,00
2	Organ size	on Kr	VI a	345	10	1. 7.1	St no	5	0	K. Ma
3	Surface: condition of membrane, c				SKI NO	a.edul	1.41 x1	1 mains	0	1. 1. 5K
4	Characteristi focus: Localization ulcer – cond color, consis Pathological	, size, shap ition of the tency	e (if an bottom),	eov	8. e01	KING 4.50	.00.00.00 .00.00 .00.00	2 5 1.12 12 edu.12		eqn in i
6	Total	20.00	A	34	20	15	54	10	N. 01	Sin
ckli	st for assessing	g answers 1	to descrip	otions	of microscop	ic specimen	s	KAR	S. 00.	<u>4</u> 3
N 0.	Evaluation				Excellent	Good		factory	Unsatisfacto	ory
1	Name of an o	organ or tis	sue	30.1	4	30	edu.	2 5	0.0	
22	Characteristi changes:			).	2010 1	st 7 1 stm	na equ	5	SK ON	No edu
3	localization, Staining	description	1 SF	<u></u>	2.1	V 1 5		10 10	0 0	<u>, 0</u> ,
4	Pathological	diagnosis/o	conclusion	n	5	4	STAN	2	0, 10	st a
5	Total	<u> </u>	N.K.		20	15	x 3	10	0,12	12 6
	st for assessing					3.00	Ył.	55.0	w ev h	
0	% Evaluation	Unsatisfa 49%		Sati	sfactory (50- 69%)	Good (7	<b>'0-89%</b> )	Exc	ellent (90-100%	(0)) (1) (1)
tru rtic	criteria cture of the le	1. Does n the stru compone scientific	ctural nts of a	the stru scie when	oes not follow order of the ucture of the entific article n listing, skips omponents	compone scientific a violates th	ents of a article, but le order of	structure	erves the order of e of a scientific when listing: - Name - Authors ublishing house	article

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		ational program 6B10		gy (Synabus)	st n
J.K. K. SKIN	a. equility and a strange of the str	AU.KI SKINA	RUND RECULIE	- Summary - General part (introducti purpose, materials and methods, results and discussion) - Conclusions - Bibliography	
Analysis of the content of a scientific article	1. Does not understand the relevance of the problem, is not capable of discussing the content of the article	<ol> <li>Understands the relevance of the problem</li> <li>Lists the purpose of the work, the materials and methods used in the work</li> <li>Understands the content of a scientific article</li> <li>Lists the conclusions and bibliography in this article</li> </ol>	purpose of the work, the materials used in the work and methods presents the content of a scientific article 3. Justifies the conclusions 4. Justifies the	<ol> <li>Independently substant and argues the relevance of problem</li> <li>Explains the purpose of work, the materials and methods used in the wo</li> <li>Freely expresses the semantic content of a scient article</li> <li>Argues and justifies conclusions</li> <li>Has the skill of usint literature and justifies the selected list of literature in article</li> </ol>	of the f the d rk e ntific s g he
Answer to additional questions (on the topic of the article for the discipline)	1. Does not answer additional questions on the topic	1. Does not understand the problem at hand when answering additional questions	1. Apply the knowledge gained during the practical class on the topic when answering additional questions	1. Applies the knowled gained during the practic class on the topic when answering additional quest provides a deep and comprehensive argumenta	cal n cions,
		COT N. A.	star as ear	W. 1. S. Harrow	
Letter Grading	Multi-point knowled Digital equivalent c			Fraditional system assessme	ent
A	4.0	King on the	95-100	Excellent	
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Excellent	95-100	4.0	A
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Good	85-89	3.33	B+
I strato com	80-84	3.0 9	IN
1 1 24 3. 00	75-79	2.67	IN-
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2011. KL Skind. EU.	Educational program 6B10115 "Medicine"2. Republican Interuniversity Electronic Library (RIEL) – <a href="http://mebrk.kz/">http://mebrk.kz/</a> 3. Digital library " Aknurpress " - <a href="https://www.aknurpress.kz/">https://www.aknurpress.kz/</a> 4. Electronic library "Epigraph" - <a href="http://www.elib.kz/">http://www.aknurpress.kz/</a> 5. Epigraph - portal of multimedia textbooks <a href="https://mbook.kz/ru/index/">https://mbook.kz/ru/index/</a> 6. EBS IPR SMART <a href="https://www.iprbookshop.ru/auth">https://www.iprbookshop.ru/auth</a> 7. information and legal system " Zan" - <a href="https://zan.kz/ru">https://zan.kz/ru</a> 8. Cochrane Library - <a href="https://www.cochranelibrary.com/">https://www.cochranelibrary.com/</a>	12. 84 3. edu. 4 3. edu. 4
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	<ul> <li>Basic Literature (BL)</li> <li>Vasilenko, V. H. Propaedeutics of Internal Diseases. T. 1.: Textbo Vasilenko, V. Vasilenko, Almaty: Newbook, 2021 400, p. Vasilenko, V. H. Propaedeutics of Internal Diseases. T. 2.: Textbo Vasilenko, V. V. Vasilenko; Almaty: Newbook, 2021 208, p. Vasilenko, V. H. Propaedeutics of Internal Diseases. T. 3.: Textbo Vasilenko, V. V. Vasilenko; Almaty: Newbook, 2021 208, p. Mukhin, N.A.Ishki aurular propedeutics: okulyk M.: GEOTAR 2015 672 bets</li> <li>Vasilenko, V. Kh. Ishki aurular propedeutics. T. 1. [Matin]: okuly Vasilenko, V. V. Vasilenko; meme. tilge aud. K. Askambay Alma 2015 336 b. With</li> <li>Vasilenko, V. Kh. Ishki aurular propedeutics. T. 2 [Matin]: okulyl Vasilenko, V. Kh. Ishki aurular propedeutics. T. 3 [Matin]: okulyl Vasilenko, V. Kh. Ishki aurular propedeutics. T. 3 [Matin]: okulyl Vasilenko, V. Kh. Ishki aurular propedeutics. T. 3 [Matin]: okulyl Vasilenko, V. Kh. Ishki aurular propedeutics. T. 3 [Matin]: okulyl Vasilenko, V. Kh. Ishki aurular propedeutics. T. 3 [Matin]: okulyl Vasilenko, V. V. Vasilenko; meme. tilge aud. K. Askambay Alma 2015 176 b. With</li> <li>Vasilenko, V. V. Vasilenko; meme. tilge aud. K. Askambay Alma 2015 172 b. With</li> <li>Aitbembet, B.N.Ishkiarza aurularynyn propedeutics: okulyk Alma 2014 568 bet</li> <li>Makolkin, V. I. Ishki aurular: okulyk M.: GEOTAR - Media, 2014. Grebenev, A. L. Propaedeutics of Internal Diseases [Text]: textbo Grebenev 5th ed., revised and enlarged Almaty: Evero, 2014 57</li> <li>"Tynysaluzhuyesi" modules: integrationlanganokulyk = Module "F system": integrated textbook / S.K. Zhaugasheva [f. b.]; zhauapt Zhutikova, S. D. Nursultanova M.: "Litterra", 2014. '376 bet. With</li> <li>"As korytuzhuyesi" modules: integrationlanganokulyk = Module system": integrated textbook / S.K. Zhaugasheva [zh. b.]; zhauapt Zhutikova, S. D. Nursultanova M.: "Litterra", 2014. '376 bet. With.</li> <li>"Kan tuzushi zhuyesi" modules: integrationlanganokulyk = Modu</li></ul>	ok / V. H. ok / V. H. a - Media, k / V. Kh. aty: Evero, k / V. Kh. aty: Evero, k / V. Kh. aty: Evero, k / V. Kh. aty: Evero, ty: Evero, -976 bet ok / A. L. 20 p. Respiratory ed. S. B. 1. = Module [zh. b.]; 014 344 "Digestive t ed. S. B. h. : ill. = "Urinary t ed. S. B. h. : ill. = Module t ed. S. B. i. : : : : : : : : : : : : : : : : : : :

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- observe medical ethics and deontology;
- no smoking in the academy;
- maintain cleanliness in the department;do not damage furniture in classrooms;

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