


<p> ONTÜSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ </p>	 <p> SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия» </p>
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SYLLABUS

Department of General Practitioner - 1»

Working curriculum disciplines « Outpatient - outpatient clinic cardiology »


Educational program 6 B 10101 - « General medicine »

1.	General information about the discipline		
1.1	code : OVP 6 30 1-5	1.6	Academic year: 2024 - 2025
1.2	Discipline name: Outpatient - outpatient clinic cardiology	1.7	Course: 6
1.3	Prerequisites : Fundamentals of General Medical Practice	1.8	Semester: 11-12
1.4	Postrequisites : 7th year internship course "Internal Medicine in General Practitioner"	1.9	Number of credits (ECTS): 3
1.5	Cycle: PD	1.10	Component: CCH
2.	Description of the discipline (maximum 50 words)		
Organization of cardiological care for the adult population of the Republic of Kazakhstan in outpatient settings. Algorithm for diagnostics and differential diagnostics of the most common cardiac diseases taking into account age characteristics, treatment, prevention, medical examination, rehabilitation. Disease management program for hypertension and CHF. Indications for hospitalization. Emergency and urgent medical care for adult cardiac patients. Communication skills, self-control, patient support.			
3.	Summative Assessment Form		
3.1	Testing	3.5	Coursework
3.2	Written +	3.6	Essay
3.3	Oral	3.7	Project
3.4	Assessment of practical skills +	3.8	Other (specify)
4.	Objectives of the discipline		
To train a general practitioner (GP) who has the required amount of knowledge, skills and practical abilities to independently carry out preventive, diagnostic,			


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therapeutic and rehabilitation measures for cardiac patients within the competence of the GP in the primary health care system in accordance with the principles of evidence-based medicine and modern achievements in therapeutic, diagnostic and pharmaceutical technologies.


5.	Final learning outcomes (LO of the discipline)	
RO 1	Apply knowledge when using the healthcare information system to provide cardiological care to the adult population within the competence of the general practitioner, is proficient in the preparation of medical documentation, including electronic documentation.	
PO2	Applies diagnostic and differential diagnostic skills to the most common adult cardiac diseases	
PO3	Demonstrates knowledge in developing a treatment and prevention plan for the most common adult cardiac diseases according to Clinical Protocols.	
PO4	Makes decisions on providing emergency and urgent qualified medical care of the second category of complexity to adult cardiac patients.	
RO5	Evaluates the results of screening programs , participates in the implementation of preventive and widespread cardiovascular diseases, implementation of a disease management program for hypertension and CHF.	
RO6	Applies skills to effectively interact with patients, their family members and colleagues in a comprehensive assessment of the patient's condition to conduct an examination of temporary and permanent loss of ability to work and professional suitability of cardiac patients.	
5.1	RO discipline	Learning outcomes of the OP, which are associated with the discipline RO
	RO1	PO1 - Applies patient-centered care skills, uses interpersonal and communication skills with patients, their environment and colleagues in compliance with bioethical principles and patient rights
	PO4	
	RO6	
	PO2	RO2 - Organizes its activities within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan to implement the policy of strengthening the health of the nation
	PO3	
	RO5	PO3 – Plans for continuous personal and professional growth to improve the quality of health care through self-assessment, self-education and lifelong learning
6.	Detailed information about the discipline	
6.1	Venue (building, auditorium):	

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	Location of the department : Location of the department : Shymkent, Askarova 26a GKP at the RV "GP No. 13" , Shymkent, 4 microdistrict , st. Balapan-ata 22/1, Medical Center "Ay-Nury", Shymkent, Baitursynova 2 GKP at the storage facility "GP No. 8 " , Shymkent, Medical Center "Orynbaev", Shymkent, Tauke Khana 35, GKP at PVC "GP No. 1" Electronic address: femmed_skma@mail.ru If you have any questions regarding training and/or technical support, please call and/or email the numbers listed on the website of JSC YUKMA in the CALL- Center section , Helpdesk on the main page of the website.						
6.2	Number of hours		Lectures	Practical. of an.	Lab. Z an.	SROP	SRO
			-	30	-	9	51-9 = 42
7.	Information about teachers :						
No.	Full name	Degrees and Position	Email address				
1	Bektibaeva Nazipa Shakmanovna	PhD , Associate Professor	Bnsh64@mail.ru				
2	Temirkulova Sholpan Alibekovna	Associate Professor	sholpant_kz@mail.ru				
3	Emesheva Meruert Ataevna	Assistant	m.yemesheva@mail.ru				
8.	Thematic plan						
Week / Day	Topic Title	Summary	RO discipline	Numb er of hours	Methods/ learning technologies	Forms/ evaluation methods	
1	Practical lesson. Topic: Organization outpatient outpatient clinic cardiology help to an adult	Modern technologies for organizing outpatient and polyclinic cardiological care for the population. Health information systems for providing cardiological care to the adult population within the competence of the general practitioner. Preventive - medical examinations, screening preventive medical	RO 1, RO 5	4	Clinical analysis of the topic sick	Assessment of initial knowledge using test questions, criteria-based assessment	

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	to the population V RK.	<p>examinations of target population groups with subsequent health improvement and dynamic observation, with the introduction of PHI. Provision of hospital-replacing care to patients with CVD.</p> <p>Assessment of patients' condition for conducting examination of temporary and permanent loss of working capacity and professional suitability of cardiac patients.</p> <p>Preparation of medical documentation as provided by healthcare legislation.</p>				
	<p>SROP/SRO Consultation upon completion SRO.</p> <p>SRO task: Carrying out preventive work</p>	<p>Order and frequency conducting screening inspections target population groups. Screening cardio programs</p> <p>Principles of Primary and secondary prevention cardiovascular diseases vascular system. Effective interaction of GPs with patients, their family members and colleagues when implementing a health management program for hypertension and CHF.</p>	RO 1 RO 5 RO 6	1/6	<p>Clinical work in the GP department</p> <p>Analysis of scientific articles by topics</p>	Criteria-based assessment
2	Practical lesson. Topic: Spicy coronary syndrome	Tactics of the VOP sharp coronary syndromes. Types and features of the course, diagnostic criteria, tactics of	RO 2 RO 4	4	method or clinical analysis	

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		management of unstable angina. ACS without ST segment elevation and with ST segment elevation: clinical presentation, diagnostics (clinical, instrumental and laboratory), differential diagnostics. Diagnostic strategy. Modern methods of treatment (at the prehospital stage) according to Clinical protocols. Prognosis. Complications. Treatment after discharge from hospital. Evaluation of the effectiveness and safety of diagnostic and therapeutic interventions.				
	<p>SROP/SRO Consultation By implementation of SRO. Exercise SRO: Tactics management in ACS complicated by cardiogenic shock .</p>	<p>Algorithm for providing assistance in ACS complicated by cardiogenic shock at the prehospital level.</p>	<p>RO 2 RO 4</p>	<p>1/6</p>	<p>Clinical work in the GP department</p> <p>Analysis of scientific articles by topics</p>	<p>Criteria-based assessment</p>
<p>3</p>	<p>Practical lesson. Topic: Arterial hypertension (essential)</p>	<p>Algorithm for examination of patients with hypertension. Non-drug and drug methods of treating hypertension. Main groups of modern antihypertensive drugs, pharmacodynamics and pharmacokinetics . Tactics for choosing antihypertensive drugs in patients with hypertension, taking</p>	<p>RO 3 RO 5 RO 6</p>	<p>4</p>	<p>Solving problematic cases</p>	<p>Assessment of initial knowledge using test questions, criteria-based assessment</p>

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		into account individual characteristics of patients: comorbidity , risk groups, age, etc. Screening studies to detect hypertension and a health management program for hypertension. Effective interaction of GPs with patients, their family members and colleagues in the management of patients with hypertension.				
	SROP/SRO Consultation By implementation of SRO. Exercise SRO: Hypertensive crises.	Algorithm for providing assistance in hypertensive crises uncomplicated And complicated at the prehospital level	RO 2 RO 4	1/6	Clinical work in the GP department Analysis of scientific articles by topics	Criteria-based assessment
4	Practical lesson. Topic: Chronic heart failure	Diagnostics and differential diagnostics. Clinical, laboratory and instrumental research methods. Treatment. Non-drug methods of treating heart failure. Features of medical tactics taking into account the main pathological process and stage of heart failure. Medical examination of patients with CHF. Effective interaction of GPs with patients, their family members and colleagues when implementing a health management program for CHF.	RO 2 RO 3 RO 6	4	Clinical analysis of the topic sick	Assessment of initial knowledge using test questions, criteria-based assessment

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	<p>SROP/SRO Consultation By implementation of SRO. task : Diagnosis and treatment chronic heart failure</p>	<p>Tactics of management of patients with CHF of various etiologies: against the background of coronary heart disease, hypertension, acquired defects, cardiomyopathy of various genesis. Choice of drugs in comorbid conditions.</p>	<p>RO 2 RO 3</p>	<p>2/6</p>	<p>Clinical work in the GP department</p> <p>Analysis of scientific articles by topics</p>	<p>Criteria-based assessment</p>
<p>Milestone Control-1: Testing</p>						
<p>5</p>	<p>Practical lesson. Topic: Disturbance of rhythm and conduction</p>	<p>Clinical electrocardiography. ECG diagnostics of rhythm and conduction disorders. Classification and selection of antiarrhythmic drugs for various arrhythmias, taking into account the pharmacokinetics and pharmacodynamics of drugs against the background of comorbid conditions. Providing emergency care for life-threatening arrhythmias at the pre-hospital level. Effective interaction between the GP and the patient.</p>	<p>RO 2 RO 4 RO 6</p>	<p>4</p>	<p>method or clinical analysis</p>	<p>Assessment of initial knowledge using test questions, criteria-based assessment</p>
	<p>SROP/SRO Consultation By implementation of SRO. task : Diagnosis and treatment rhythm and conduction disturbances</p>	<p>Tactics of managing patients with rhythm and conduction disorders. Providing emergency care for life-threatening arrhythmias at the prehospital level. Selection of antiarrhythmic drugs for various arrhythmias, taking into account comorbid conditions.</p>	<p>RO 2 RO 4</p>	<p>2/6</p>	<p>Clinical work in the GP department</p> <p>Analysis of scientific articles by topics</p>	<p>Criteria-based assessment</p>

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6	Practical lesson. Topic: Disturbance of rhythm and conduction	Clinical electrocardiography. ECG diagnostics of rhythm and conduction disorders. Classification and selection of antiarrhythmic drugs for various arrhythmias, taking into account the pharmacokinetics and pharmacodynamics of drugs against the background of comorbid conditions. Provision of emergency care at the prehospital level. Evaluation of the effectiveness and safety of therapeutic interventions.	RO 2 RO 3 RO 4	5	Clinical analysis of the topic sick	Assessment of initial knowledge using test questions, criteria-based assessment
	SROP/SRO Consultation By implementation of SRO. task : Diagnosis and treatment rhythm and conduction disturbances	Tactics of managing patients with rhythm and conduction disorders. Providing emergency care for life-threatening arrhythmias at the prehospital level. Selection of antiarrhythmic drugs for various arrhythmias, taking into account comorbid conditions.	RO 2 RO 4	1/6	Clinical work in the GP department Analysis of scientific articles by topics	Criteria-based assessment
7	Practical lesson. Topic: Rational pharmacotherapy in cardiology	Fundamentals of rational pharmacotherapy, evidence-based medicine. Clinical and pharmacological approaches to substantiating the prescription, choice, and dosage regimen. Evaluation of the effectiveness and safety of drugs used in cardiology practice.	RO 3 RO 4	5	Clinical analysis of the topic sick	Assessment of initial knowledge using test questions, criteria-based assessment

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		Clinical and pharmacological expertise. Errors and unjustified prescriptions of drugs to cardiac patients by general practitioners.				
	SROP/SRO Consultation By implementation of SRO. task : Modern pharmacotherapy in cardiology in general practitioner practice.	Interactions of drugs used in various cardiac diseases. Evaluations of the effectiveness and safety of drugs used in cardiology practice. Errors and unjustified prescriptions of drugs to cardiac patients by general practitioners.	RO 3 RO 4	1/6	Clinical work in the GP department Analysis of scientific articles by topics	Criteria-based assessment
	Preparation and implementation of interim assessment		(10% of the total number of hours allocated to the discipline) – 9 hours			
Boundary Control-2: Testing						
9.	Teaching and assessment methods :					
9.1	Lectures	-				
9.2	Practical classes	Standardized Patient Method, Clinical analysis thematic patients (using a real patient as an example, analysis of ECGs of real patients), solving problematic cases.				
9.3	SROP/SRO	Clinical work in the GP department. Analysis of scientific articles by topic (search for data from scientific databases)				
9.4	Border control	Testing				
10.		Evaluation criteria				
10.1		Criteria for assessing the learning outcomes of the discipline				

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No RO		
RO 1	Name of learning outcomes	Applies knowledge when using a health information system to provide cardiological care to the adult population within the competence of the general practitioner, is proficient in the preparation of documentation, including electronic documentation.
	Great	Fully knowledgeable about the use of the health information system (HIS) in providing cardiological care to the adult population within the competence of the general practitioner. Accurately and completely, correctly applies this knowledge in practice, when working with the HIS of the polyclinic on issues of cardiac patients and when preparing medical documentation, including electronic. Uses literature recommended in the syllabus .
	Fine	Does not fully possess all the necessary knowledge on how to use the information system health care when providing cardiological care to the adult population within the competence of the general practitioner, makes inaccuracies and mistakes that are corrected by the intern himself when working with the polyclinic's information system on issues of cardiac patients and when preparing medical documentation, including electronic documentation. Uses literature recommended in the syllabus in an incomplete volume.
	Satisfactorily	Does not fully possess the necessary knowledge to use the information system health care when providing cardiological care to the adult population within the competence of the general practitioner and makes mistakes when preparing medical documentation, including electronic documentation. Has difficulties when working with the outpatient health care system on issues related to cardiology patients. I have not fully completed the literature recommended in the syllabus .
	Unsatisfactory	Does not have the necessary knowledge of using the health information system when providing cardiological care to the adult population within the competence of the general practitioner and does not know how to work with the outpatient clinic's information system on issues related to cardiological patients. Has not studied the literature recommended in the syllabus .
	RO 2	Applies diagnostic and differential diagnostic skills to the most common Cardiological diseases in adults

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Great	Has the skills to use diagnostic and differential diagnostic algorithms most common cardiac diseases in adults. Collects complaints and anamnestic data of patients, clearly and consistently conducts objective examinations, draws up a plan of diagnostic studies in accordance with the Clinical Protocols, observing full list of examinations at the outpatient level. Pr applies knowledge obtained from scientific databases.
Fine	Has the skills to use diagnostic and differential diagnostic algorithms most common cardiac diseases in adults. Collects complaints and anamnestic data of patients, but does not follow the sequence in conducting objective examinations, draws up a plan of diagnostic studies in accordance with the Clinical Protocols, but skips some tests from the list of examinations at the outpatient level. Uses literature recommended in the syllabus and Clinical protocols .
Satisfactorily	Does not fully master the skills of using diagnostic and differential diagnostic algorithms for the most common adult cardiac diseases. Does not fully collect complaints and anamnestic data from patients, does not follow the sequence of objective examinations, and does not follow the recommendations specified in the Clinical Protocols. Has not fully worked through the Clinical Protocols and literature recommended in the syllabus .
Unsatisfactory	Does not have the skills to use diagnostic and differential diagnostic algorithms most common cardiac diseases in adults. Makes gross errors when collecting complaints and anamnestic data from patients, does not follow the sequence when conducting objective examinations and is unable to draw up an examination plan in accordance with the Clinical Protocols. Has not worked through the Clinical Protocols and the literature recommended in the syllabus .
RO 3	Demonstrates knowledge in developing a treatment and prevention plan for the most common Cardiological diseases in adults according to Clinical Protocols.
Great	Uses knowledge to develop a treatment and prevention plan for the most common cardiovascular diseases in adults. When developing a treatment and prevention plan, adhere to accurately and in full all the requirements specified in the Clinical Protocols, taking into account all individual characteristics of the patient, indications and contraindications of drugs.

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	Takes into account interactions of drugs from different groups when combined. Apply knowledge obtained from scientific databases .
Fine	Uses knowledge to develop a treatment and prevention plan for the most common cardiovascular diseases in adults. When developing a treatment and prevention plan, it is allowed minor errors corrected by the intern himself, does not fully comply with the requirements, specified in the Clinical Protocols, taking into account all the individual characteristics of the patient, indications and contraindications of drugs. Takes into account interactions of drugs from different groups when combined. Uses literature recommended in the syllabus and Clinical Protocols .
Satisfactorily	When developing a treatment and prevention plan for the most common cardiac diseases adults make inaccuracies and do not adhere to the requirements specified in the Clinical Protocols with taking into account all the individual characteristics of the patient, indications and contraindications of drugs. Doesn't fully take into account interactions of drugs from different groups when combined. Not fully worked through the Clinical Protocols and literature recommended in the syllabus .
Unsatisfactory	When developing a treatment and prevention plan for the most common cardiac diseases adults make gross mistakes, do not adhere to the requirements specified in the Clinical Protocols, taking into account all the individual characteristics of the patient, indications and contraindications of drugs. Does n't read interactions of drugs from different groups when combined. Not worked out Clinical protocols and literature recommended in the syllabus .
RO 4	Makes decisions on providing emergency and urgent qualified medical care the second category of complexity for adult cardiac patients.
Great	Conducts examinations accurately, fully, and consistently when assessing the condition of patients and correctly determines the tactics of providing assistance. Fully masters the skills of using algorithms for providing emergency and urgent qualified medical care of the second category of complexity to adult cardiac patients according to Clinical Protocols . Knows how to evaluate the effectiveness of the measures provided and correctly monitors the functional state of patients after providing assistance . Apply knowledge obtained from scientific databases.
Fine	Conducts examination in full, but inconsistently, when assessing the condition of patients. Correctly determines the tactics of

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	<p>providing assistance. Fully masters the skills of using algorithms for providing emergency and urgent qualified medical care of the second category of complexity adult cardiac patients according to Clinical Protocols . Allows non-fundamental errors corrected by the intern himself when assessing the effectiveness of the measures provided. Correctly monitors the functional state of patients after providing assistance . Uses literature recommended in the syllabus and Clinical protocols .</p>
Satisfactorily	<p>Incompletely and inconsistently conducts examination when assessing the condition of patients and makes inaccuracies in determining the tactics of providing assistance. Makes mistakes when using algorithms for providing emergency and urgent qualified medical care of the second category of complexity to adult cardiac patients according to Clinical Protocols . Does not have sufficient skills in assessing the effectiveness of the measures provided. Correctly conducts monitoring of the functional the condition of patients after providing assistance . I have not fully worked through the literature recommended in syllabus and Clinical protocols .</p>
Unsatisfactory	<p>Does not have the skills to conduct an examination when assessing the condition of patients and does not know how to determine the tactics of providing assistance. Makes gross errors when using algorithms for providing emergency care and emergency qualified medical care of the second category of complexity for cardiac patients adulthood according to the Clinical Protocols . Does not have the skills to evaluate the effectiveness of the measures provided. Has not studied the literature recommended in the syllabus and the Clinical Protocols .</p>
RO 5	<p>Evaluates the results of screening programs , participates in the implementation of preventive measures common cardiac diseases and implementation of disease management programs for hypertension and CHF.</p>
Great	<p>Applies skills in conducting screening studies, medical examinations, and rehabilitation patients with common cardiac diseases diseases and the implementation of management programs diseases of hypertension and CHF. Accurately and fully demonstrates knowledge of the assessment criteria effectiveness of screening studies and preventive measures and knows how to use them in practice. Conducts a comparative assessment of the effectiveness of PUS in patients with hypertension and CHF and dispensary patients with such diagnoses that are not included in the PUS. Apply knowledge obtained from scientific databases.</p>

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Fine	Applies skills in conducting screening studies, medical examinations, and rehabilitation patients with common cardiac diseases , but do not have sufficient skills in implementation of the disease management program for hypertension and CHF. Allows for inaccuracies in knowledge criteria for assessing the effectiveness of screening studies and preventive measures, has difficulty using them in practice. Makes minor mistakes in conducting a comparative assessment of the effectiveness of PUS in patients with hypertension and CHF and dispensary patients with such diagnoses that are not included in the PUS. Uses literature recommended in the syllabus .
Satisfactorily	Insufficient skills in conducting screening studies, medical examinations, rehabilitation of patients with common cardiac diseases diseases , does not have the skills to implement a disease management program for hypertension and CHF. Makes mistakes when determining the criteria for assessing the effectiveness of screening studies and preventive measures, does not know how to use them in practice. Has not fully studied the literature recommended in the syllabus .
Unsatisfactory	Does not have the skills to conduct screening tests, medical examinations, rehabilitation patients with common cardiac diseases diseases , does not have the skills to implement management programs for hypertension and CHF. Makes gross errors in determining criteria for assessing the effectiveness of screening studies and preventive measures. Did not work through the literature recommended in the syllabus .
RO 6	Applies skills to effectively interact with patients, their family members and colleagues in a comprehensive assessment of the patient's condition to conduct an examination of temporary and permanent loss of ability to work and professional suitability of cardiac patients.
Great	Has full communicative skills with a comprehensive assessment of the condition and degree limitations of life activity of cardiac patients to conduct an examination of the temporary and permanent loss of working capacity and professional suitability . Effectively establishes relationships with the patient's family members and colleagues when solving the patient's problem. Uses knowledge of effective communication when choosing rehabilitation measures and assessment of rehabilitation potential . It applies knowledge obtained from scientific databases .

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	<p>Fine</p> <p>Allows minor errors that are corrected by the intern himself when establishing an effective interactions with patients during a comprehensive assessment of the condition and degree of limitation of cardiac patients to conduct an examination of temporary and permanent loss of working capacity and professional suitability . Has an incomplete command of all the rules of effective communication with the patient's family members and colleagues when solving the patient's problem. Has difficulties with effective communication when choosing rehabilitation measures and assessing the rehabilitation potential. Uses the literature recommended in the syllabus .</p>						
	<p>Satisfactorily</p> <p>Makes mistakes in establishing effective interactions with patients when comprehensive assessment of the condition and degree of disability of cardiac patients to conduct an examination of temporary and permanent loss of ability to work and professional suitability . Does not follow the rules of effective communication when communicating with the patient's family members. Has difficulty in teamwork with colleagues when solving the patient's problem. Does not fully possess the skills of effective communication when choosing rehabilitation measures and assessing rehabilitation potential. Has not fully studied the literature recommended in the syllabus .</p>						
	<p>Unsatisfactory</p> <p>Does not have communication skills to establish effective interaction with patients during a comprehensive assessment of the condition and degree of disability of cardiac patients to conduct an examination of temporary and permanent loss of working capacity and professional suitability . Does not follow the rules of effective communication when communicating with the patient's family members and with colleagues when solving the patient's problem. Does not have the skills of effective communication when choosing rehabilitation measures and assessing rehabilitation potential. Has not studied the literature, recommended in the syllabus .</p>						
10.2	Methods and criteria for evaluation						
Checklist for practical lesson							
	<table> <tr> <th>Grade</th><th>Evaluation criteria</th></tr> <tr> <td>1</td><td>Clinical analysis thematic patients</td></tr> <tr> <td>Great corresponds ratings: A (4.0; 95 - 100%)</td><td>Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 4.5; upper - 5.0): fully completed the task, accuracy, consistency, ability to correctly assess and draw logical conclusions)</td></tr> </table>	Grade	Evaluation criteria	1	Clinical analysis thematic patients	Great corresponds ratings: A (4.0; 95 - 100%)	Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 4.5; upper - 5.0): fully completed the task, accuracy, consistency, ability to correctly assess and draw logical conclusions)
Grade	Evaluation criteria						
1	Clinical analysis thematic patients						
Great corresponds ratings: A (4.0; 95 - 100%)	Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 4.5; upper - 5.0): fully completed the task, accuracy, consistency, ability to correctly assess and draw logical conclusions)						

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	<p>A- (3.67; 90 - 94%)</p>	<ul style="list-style-type: none"> - identified the patient's main problems - assessed the anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - substantiated his diagnosis - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he made a treatment plan taking into account: - pharmacodynamics of drugs - drug interactions - contraindications - age-related features - comorbid conditions - according to the KPDiL, I drew up a plan of preventive measures - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures
	<p>Fine corresponds ratings:</p>	<p>Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 3.5; upper - 4.45): fully completed the task, accuracy, consistency,</p>

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	<p> B+ (3.33; 85 - 89%) IN (3.0; 80 - 84%) B- (2.67; 75 - 79%) C+ (2.33; 70 - 74%) </p>	<p>ability to correctly assess and draw logical conclusions):</p> <ul style="list-style-type: none"> - identified the patient's main problems - assessed the anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - substantiated his diagnosis - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he made a treatment plan taking into account: - pharmacodynamics of drugs - drug interactions - contraindications - age-related features - comorbid conditions - according to the KPDiL, I drew up a plan of preventive measures - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures
	<p>Satisfactorily</p>	<p>Assessment parameters (each parameter is assessed according to the following criteria</p>

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	<p>corresponds ratings: WITH (2.0; 65 - 69%) C- (1.67; 60 - 64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)</p>	<p>(assessment levels: lower - 2.5; upper - 3.45); fully completed the task, accuracy, consistency, ability to correctly assess and draw logical conclusions):</p> <ul style="list-style-type: none"> - identified the patient's main problems - assessed the anamnestic data - assessed the physical examination data - substantiated his diagnosis - made a preliminary diagnosis - according to the KPDiL, I drew up a plan for laboratory research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he made a treatment plan taking into account: - pharmacodynamics of drugs - drug interactions <ul style="list-style-type: none"> - contraindications - age-related features - comorbid conditions - according to the KPDiL, I drew up a plan of preventive measures - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures
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	<p>Unsatisfactory corresponds to the assessment: FX (0; 0 - 49%) F(0; 0 - 24%)</p>	<p>Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: 2.45 and below): fully completed the task, accuracy, consistency, ability to correctly assess and draw logical conclusions):</p> <ul style="list-style-type: none"> - identified the patient's main problems - assessed the anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - substantiated his diagnosis - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he made a treatment plan taking into account: - pharmacodynamics of drugs - drug interactions - contraindications - age-related features - comorbid conditions - according to the KPDiL, I drew up a plan of preventive measures - according to the efficiency and performance indicators and data scientific achievements on this issue, he
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			drew up a plan of preventive measures
2			Checklist for solving problem cases
		<p>Great</p> <p>corresponds ratings:</p> <p>A (4.0; 95 - 100%)</p> <p>A- (3.67; 90 - 94%)</p>	<p>Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 9.0; upper - 10.0): correctly identified the patient's problem, demonstrated knowledge and understanding of the classification of hypertension and CV risk stratification to determine the degree of hypertension and risk group, correctly selected rational antihypertensive therapy:</p> <p>1. identified the patient's problems:</p> <p>a) the patient's main problem</p> <p>b) individual problems of the patient</p> <p>2. Correctly determined: a) the degree of hypertension;</p> <p>b) risk group</p> <p>c) demonstrated knowledge and understanding of the classification of hypertension and CVD risk stratification</p> <p>3. Correctly selected rational antihypertensive therapy taking into account:</p> <ul style="list-style-type: none"> - pharmacodynamics of drugs - drug interactions - contraindications - age-related features - comorbid conditions
		<p>Fine</p> <p>corresponds ratings:</p> <p>B+ (3.33; 85 - 89%)</p> <p>IN (3.0; 80 - 84%)</p> <p>B- (2.67; 75 - 79%)</p> <p>C+ (2.33; 70 - 74%)</p>	<p>Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 7.0; upper - 8.9): correctly identified the patient's problem, demonstrated knowledge and understanding of the classification of hypertension and CV risk stratification to determine the degree of hypertension and risk group, correctly selected rational antihypertensive therapy:</p> <p>1. identified the patient's problems:</p>

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		<p>a) the patient's main problem</p> <p>b) individual problems of the patient</p> <p>2. Correctly determined: a) the degree of hypertension;</p> <p>b) risk group</p> <p>c) demonstrated knowledge and understanding of the classification of hypertension and CVD risk stratification</p> <p>3. Correctly selected rational antihypertensive therapy taking into account:</p> <ul style="list-style-type: none"> - pharmacodynamics of drugs - drug interactions - contraindications - age-related features - comorbid conditions
	<p>Satisfactorily corresponds ratings:</p> <p>WITH (2.0; 65 - 69%)</p> <p>C- (1.67; 60 - 64%)</p> <p>D+ (1.33; 55-59%)</p> <p>D- (1.0; 50-54%)</p>	<p>Assessment parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 5.0; upper - 6.9): correctly identified the patient's problem, demonstrated knowledge and understanding of the classification of hypertension and CV risk stratification to determine the degree of hypertension and risk group, correctly selected rational antihypertensive therapy:</p> <p>1. identified the patient's problems:</p> <p>a) the patient's main problem</p> <p>b) individual problems of the patient</p> <p>2. Correctly determined: a) the degree of hypertension;</p> <p>b) risk group</p> <p>c) demonstrated knowledge and understanding of the classification of hypertension and CVD risk stratification</p> <p>3. Correctly selected rational antihypertensive therapy taking into account:</p> <ul style="list-style-type: none"> - pharmacodynamics of drugs

			<ul style="list-style-type: none"> - drug interactions - contraindications - age-related features - comorbid conditions
		<p>Unsatisfactory corresponds to the assessment: FX (0; 0 - 49%) F (0; 0 - 24%)</p>	<p>Evaluation parameters (each parameter is assessed according to the following criteria (assessment levels: below 4.9 or below 2.4): correctly identified the patient's problem, demonstrated knowledge and understanding of the classification of hypertension and CV risk stratification to determine the degree of hypertension and risk group, correctly selected rational antihypertensive therapy:</p> <ol style="list-style-type: none"> 1. identified the patient's problems: <ol style="list-style-type: none"> a) the patient's main problem b) individual problems of the patient 2. Correctly determined: a) the degree of hypertension; b) risk group 3. Correctly selected rational antihypertensive therapy taking into account: <ul style="list-style-type: none"> - pharmacodynamics of drugs - drug interactions - contraindications - age-related features of instrumental studies - comorbid conditions


3

The "Standardized Patient" Method


Clinical scenarios have been developed on the topics “ACS: Providing assistance in ACS complicated by ventricular fibrillation” and “Rhythm and conduction disturbances: Providing assistance in supraventricular tachycardia against the background of WPW syndrome”, where checklists are indicated

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Checklists for SROP/SRO			
1	<p>Carrying out practical work in the general practitioner department</p> <table> <tr> <td> <p>Excellent with ratings: A (4.0; 95-100%) A- (3.67; 90-94%)</p> </td><td> <p>Parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 4.5; upper - 5.0): volume of task completion, confidence, accuracy, consistency, ability to correctly assess and draw logical conclusions, feedback from doctors, feedback from patients):</p> <p>Outpatient appointment:</p> <ul style="list-style-type: none"> - effectively using communication skills identified the patient's main problems - effectively using communication skills assessed anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this problem made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures - work in a day hospital or home hospital - work in the screening room </td></tr> </table>	<p>Excellent with ratings: A (4.0; 95-100%) A- (3.67; 90-94%)</p>	<p>Parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 4.5; upper - 5.0): volume of task completion, confidence, accuracy, consistency, ability to correctly assess and draw logical conclusions, feedback from doctors, feedback from patients):</p> <p>Outpatient appointment:</p> <ul style="list-style-type: none"> - effectively using communication skills identified the patient's main problems - effectively using communication skills assessed anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this problem made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures - work in a day hospital or home hospital - work in the screening room
<p>Excellent with ratings: A (4.0; 95-100%) A- (3.67; 90-94%)</p>	<p>Parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 4.5; upper - 5.0): volume of task completion, confidence, accuracy, consistency, ability to correctly assess and draw logical conclusions, feedback from doctors, feedback from patients):</p> <p>Outpatient appointment:</p> <ul style="list-style-type: none"> - effectively using communication skills identified the patient's main problems - effectively using communication skills assessed anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this problem made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures - work in a day hospital or home hospital - work in the screening room 		

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		<ul style="list-style-type: none"> - work with KIIS - preparation of medical documentation <p>Work on the site:</p> <ul style="list-style-type: none"> - assets - patronage
	<p>Good with ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)</p>	<p>Parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 3.5; upper - 4.45): volume of task completion, confidence, accuracy, consistency, ability to correctly assess and draw logical conclusions, feedback from doctors, feedback from patients):</p> <p>Outpatient appointment:</p> <ul style="list-style-type: none"> - effectively using communication skills identified the patient's main problems - effectively using communication skills assessed anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a treatment plan was drawn up - according to the efficiency and performance indicators and data scientific achievements on this issue, he

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	<p>drew up a plan of preventive measures</p> <ul style="list-style-type: none"> - work in a day hospital or home hospital - work in the screening room - work with KIIS - preparation of medical documentation <p>Work on the site:</p> <ul style="list-style-type: none"> - assets - patronage
<p>Satisfactory with corresponds to the assessments:</p> <p>C (2.0; 65-69%);</p> <p>C- (1.67; 60-64%);</p> <p>D + (1 , 33 ; 55-59 %)</p> <p>D (1 , 0 ; 50-54%)</p>	<p>Parameters (each parameter is assessed according to the following criteria (assessment levels: lower - 2.5; upper - 3.45): volume of task completion , confidence , accuracy, consistency, ability to correctly assess and draw logical conclusions , feedback from doctors, feedback from patients):</p> <p>Outpatient appointment:</p> <ul style="list-style-type: none"> - effectively using communication skills identified the patient's main problems - effectively using communication skills assessed anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan

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		<ul style="list-style-type: none"> - according to the efficiency and performance indicators and data scientific achievements on this issue, a treatment plan was drawn up - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures - work in a day hospital or home hospital - work in the screening room - work with KIIS - preparation of medical documentation <p>Work on the site:</p> <ul style="list-style-type: none"> - assets - patronage
	<p>Unsatisfactory with corresponding assessments : FX (0.5 ; 25-49%) F (0; 0- 2 4%)</p>	<p>Parameters (each parameter is assessed according to the following criteria (assessment levels: 2.45 and below): volume of task completion, confidence, accuracy, consistency, ability to correctly assess and draw logical conclusions, feedback from doctors, feedback from patients):</p> <p>Outpatient appointment:</p> <ul style="list-style-type: none"> - effectively using communication skills identified the patient's main problems - effectively using communication skills assessed anamnestic data - assessed the physical examination data - made a preliminary diagnosis - according to the KPDiL, I drew up a laboratory research plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for laboratory research was drawn up - according to the KPDiL, I drew up a plan of instrumental research - according to the efficiency and performance indicators and data scientific achievements on this issue, a plan for instrumental research was drawn up - correctly interpreted the results of laboratory tests

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		<ul style="list-style-type: none"> - correctly interpreted the results of instrumental studies - made a final diagnosis - according to the KPDiL, I made a treatment plan - according to the efficiency and performance indicators and data scientific achievements on this issue, a treatment plan was drawn up - according to the efficiency and performance indicators and data scientific achievements on this issue, he drew up a plan of preventive measures - work in a day hospital or home hospital - work in the screening room - work with KIIS - preparation of medical documentation <p>Work on the site:</p> <ul style="list-style-type: none"> - assets - patronage
SRO		
Analysis of scientific articles by topic (searching for data from scientific databases as a collective activity)		
	Great corresponds ratings: A (4.0; 95 - 100%) A- (3.67; 90 - 94%)	Correct article selection, scientific or clinical value, mastery of the material, provided an accurate, clear and concise explanation. Can explain research findings. Analyzes research findings (e.g.: article review is thorough and adequate), accuracy and structure of review (has clear information for each idea). Speech (e.g.: full volume, speed, intonation, effective use of pauses) and delivery style (gestures effective but not excessive, eye contact, posture in front of audience, use of podium). Ability to achieve results (e.g.: accuracy, sense of expertise).
	Fine corresponds ratings: B+ (3.33; 85 - 89%) IN (3.0; 80 - 84%)	Correct choice of article, scientific or clinical value, mastery of the material, provided an accurate, clear and concise explanation. Able to explain research results. When analyzing research results (e.g.: the article review is deep and adequate) allows for inaccuracies,

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	B- (2.67; 75 - 79%) C+ (2.33; 70 - 74%)	inconsistency in review. Speech (Example: full volume, speed, intonation, effective use of pauses) and presentation style (gestures are effective but not excessive, eye contact, posture in front of the audience, use of the podium). Ability to achieve results (Example: accuracy, sense of experience).
	Satisfactorily corresponds ratings: WITH (2.0; 65 - 69%) C- (1.67; 60 - 64%) D+ (1.33; 55-59%) D- (1.0; 50-54%)	Correct choice of article, scientific or clinical value, does not fully master the material, did not provide an accurate, clear and concise explanation. There are inaccuracies in explaining the results of the study. Has difficulty analyzing the results of the study. Speech (Example: full volume, speed, intonation, effective use of pauses) and manner of presentation (gestures effective but excessive, making eye contact, posture in front of the audience, use of the podium). Results not fully achieved (Example: accuracy, sense of experience).
	Unsatisfactory corresponds to the assessment: FX (0; 0 - 49%), F(0;0) - 24%)	Incorrect choice of article for scientific or clinical value, lack of mastery of material, failed to provide precise, clear and concise explanation. Unable to explain research results. Speech (Example: full volume, speed, intonation, does not use effective pauses) and presentation style (gestures effective but excessive, no eye contact). Results not achieved.
Border control - Testing		
	Excellent with ratings: A (4.0; 95-100%) A- (3.67; 90-94%)	90-100% correct answers.
	Good with ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	70-89% correct answers.

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		Satisfactory with corresponds to the assessments: C (2.0; 65-69%); C- (1.67; 60-64%); D + (1 , 33 ; 55-59 %) D (1 , 0 ; 50-54%)	50-69 % correct answers.
		Unsatisfactory with corresponding assessments : FX (0.5 ; 25-49%) F (0; 0- 2 4%)	Less than 50% correct answers.
Checklist for midterm assessment (100% each) – written exam			
1	Theoretical question:	Excellent with ratings: A (4.0; 95-100%) A- (3.67; 90-94%)	It is given if the intern did not make any mistakes or inaccuracies during the answer. Is familiar with the theories, concepts and directions of the studied discipline and gives them a critical assessment, uses scientific achievements of other disciplines.
		Good with ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	It is given if the intern did not make any serious mistakes in the answer, but there are minor inaccuracies . Not fully oriented in the theories, concepts and directions of the studied discipline and made mistakes in their critical analysis assessment , does not fully utilize the scientific achievements of other disciplines .
		Satisfactory with corresponds to the	This is given if the intern made any mistakes during the answer . Not fully oriented in the theories, concepts and directions of the studied discipline and does not have a critical understanding of them

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		assessments: C (2.0; 65-69%); C- (1.67; 60-64%); D + (1 , 33 ; 55-59 %) D (1 , 0 ; 50-54%)	assessment , does not fully utilize the scientific achievements of other disciplines .
		Unsatisfactory with corresponding assessments : FX (0.5 ; 25-49%) F (0; 0- 24%)	This is given if the intern made a lot of mistakes during the answer. Is not oriented in the theories, concepts and directions of the discipline being studied, and does not know how to use the scientific achievements of other disciplines.
2	Solution of the situational problem :	Excellent with ratings: A (4.0; 95-100%) A- (3.67; 90-94%)	did not make any mistakes or inaccuracies while solving the situational task . He is aware of the patient's problems, gives them a critical assessment, correctly draws up a plan of diagnostic and treatment-and-prophylactic measures, correctly determines the tactics of further patient management, has communication skills and uses scientific achievements on this problem and the Clinical Protocol.
		Good with ratings: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	The intern did not make any gross errors while solving the situational task , and made minor inaccuracies. He is familiar with the patient's problems, has some difficulties in critically assessing them, makes some mistakes when drawing up a plan for diagnostic and treatment-and-prophylactic measures, has communication skills and does not use scientific achievements on this problem, but has knowledge of the materials from the Clinical Protocol.
		Satisfactory with corresponds to the assessments:	made inaccuracies and minor mistakes when solving the situational task , has some difficulties in analyzing the patient's problem and critically assessing it, makes mistakes when drawing up a plan for diagnostic and treatment-and-prophylactic measures, has communication skills. Has not fully

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		C (2.0; 65-69%); C- (1.67; 60-64%); D + (1 , 33 ; 55-59 %) D (1 , 0 ; 50-54%)	worked through the materials of the Clinical Protocol.
		Unsatisfactory with corresponding assessments : FX (0.5 ; 25-49%) F (0; 0- 2 4%)	The intern is not familiar with the patient's problems, has poor communication skills. Has not worked through the materials of the Clinical Protocol.
3	Interpretation of laboratory and instrumental research results :	Matches ratings very well: A (4.0; 95-100%) A- (3.67; 90-94%)	The intern clearly and consistently describes each indicator, correctly analyzes changes in the ECG and laboratory test results, determines their clinical significance and provides a correct, complete justification for his/her conclusion.
		Matches ratings well: B+ (3.33; 85-89%) B (3.0; 80-84%) B- (2.67; 75-79%) C+ (2.33; 70-74%)	The intern clearly and consistently describes each indicator, changes in the ECG and laboratory test results, but allows for minor inaccuracies in the analysis of the identified changes, determining their clinical significance and substantiating his conclusion.
		Satisfactorily meets the assessments: C (2.0; 65-69%); C- (1.67; 60-64%); D+ (1.33; 55-59%) D (1.0; 50-54%)	The intern describes changes in the ECG and laboratory test results unclearly and inconsistently, makes mistakes in their analysis, and experiences great difficulty in determining their clinical significance and substantiating his conclusion.


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	Unsatisfactory correspondence with the assessments: FX (0.5; 25-49%) F (0; 0-24%)	The intern can't describe ECG changes and laboratory test results .
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Multi-point knowledge assessment system:

Letter Grading	Digital equivalent of points	Percentage content	Traditional system assessment
A	4.0	95-100	Great
A -	3.67	90-94	
B +	3.33	85-89	
IN	3.0	80-84	Fine
IN -	2.67	75-79	
C +	2.33	70-74	
WITH	2.0	65-69	Satisfactorily
WITH -	1.67	60-64	
D+	1.33	55-59	
D-	1.0	50-54	Not satisfactory
FX	0,5	25-49	
F	0	0-24	


11.	Educational resources :
Electronic resources, including but not limited to limiting ourselves by them:	Electronic resources of the BIC Electronic library of YUKMA - https://e-lib.skma.edu.kz/genres

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bases data , animation simulators, professional blogs, websites, others electronic reference materials (eg video, audio, digests)	<p> Republican Interuniversity Electronic Library (RIEL) – http://rmebrk.kz/ Digital library " Aknurpress " - https://www.aknurpress.kz/ Electronic library "Epigraph" - http://www.elib.kz/ Epigraph - portal of multimedia textbooks https://mbook.kz/ru/index/ EBS IPR SMART https://www.iprbookshop.ru/auth information and legal system " Za ң " - https://zan.kz/ru Cochrane Library - https://www.cochranelibrary.com/ </p>
Electronic textbooks	<p> 1. Functional diagnostics cardiovascular diseases. Version 1.1 [Electronic resource]: manual / Yu. N. Belenkov [et al.]. - Electronic text data (74.6 MB). - M.: GEOTAR - Media, 2009. - el. opt. disk (CD-ROM). 2. Consultant physician. Cardiology. Version 1. 1 [Electronic resource]: manual. - Electronic text data (167 MB). - M.: GEOTAR - Media, 2009. - electronic optical disc (CD-ROM). 3. School health. Ischemic disease hearts : manual for doctors / G.V. Pogosova [etc.]; edited by R. G. Oganova . - M.: GEOTAR - Media, 2011. - 112 With. +el. opt.disk (CD-ROM). - (VNOK.All-Russian scientific society of cardiologists). 5. Pernebekova , R.K. Antianginal drugs [Electronic resource]: a tutorial. - Electronic text data (3.28 Mb). - Shymkent: B.i., 2011. - 98 electronic optical disc (CD-ROM). 6. Kerimkulova A.S., Espenbetova M.Zh., Management of cardiac patients in outpatient settings., Study guide. - Almaty, Evero , 2020. - 245 p. 7 https://elib.kz/ru/search/read_book/857/ 7. Taizhanova D.Zh. Toleuova A.S. Non -coronary myocardial diseases. - Study guide. - Almaty. Evero Publishing House - 2020. - 76 p. https://elib.kz/ru/search/read_book/418/ 8. Pernebekova R.K. Antianginal drugs. - Textbook . - Almaty, Evero Publishing House , 2020. - 128 p. https://elib.kz/ru/search/read_book/810/ 9. Textbook: Pediatric cardiology - Almaty: " Evero"-2020. https://elib.kz/ru/search/read_book/481/ </p>
Laboratory Physical Resources	-
Special programs	-
Magazines (electronic journals)	

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<p>Literature</p>	<p>Main:</p> <ol style="list-style-type: none"> 1. Cardiology module : textbook / L.K. Badina [reference book]. - M.: " Litterra ", 2016. - 256 beta. 2. Cardiology: national guidelines / Russian Society of Cardiology; edited by E. V. Shlyakhto . - 2nd ed., revised and enlarged. - M.: GEOTAR-Media, 2015. - 800 p. 3. Emergency cardiology: textbook / edited by P. P. Ogurtsov. - M.: GEOTAR - Media, 2016. - 272 p. 4. Gorokhova, S. G. Diagnosis of cardiovascular diseases. Formulation, classification: manual /.. - M.: GEOTAR - Media, 2016. - 304 p. 5. Arutyunov G. P. Diagnostics and treatment of diseases of the heart and blood vessels: a tutorial / - M.: GEOTAR - Media, 2015. - 504 p. 6. Dyusupova , A. A. Actual issues of cardiology : textbook. - Almaty: Evero , 2014. - 382 p . <p>Additional :</p> <ol style="list-style-type: none"> 1. Ferri David , R. ECG interpretation. 10-day course: per. from English - 2nd ed., rev . and processed - M.: GEOTAR - Media, 2009. 2. Chronic heart failure : a guide / F. T. Ageev [et al.]. - M.: GEOTAR - Media, 2010. 3. Kerimkulova A.S. Management of cardiac patients in outpatient settings: a teaching aid . - Almaty: Evero , 2013 4. Levine , G. N. Secrets of cardiology: monograph / translated from English. - 2nd ed. - M.: Medpress-inform , 2014. - 544 p. 5. Moiseev, V. S. Cardiomyopathies and myocarditis: a guide / V. S. Moiseev, G. K. Kiyakbaev . - M.: GEOTAR - Media, 2014. - 352 p. 6. Taizhanova D.Zh. Differential diagnosis of cardiological syndrome: a teaching aid - Almaty: Evero , 2014. - 140 p. 7. Kiyakbaev , G.K. Cardiac arrhythmias. Fundamentals of electrophysiology, diagnostics, treatment and modern recommendations: monograph M.: GEOTAR - Media, 2014. – 240 8. Gorokhova S.G. Diagnosis of cardiovascular diseases. Formulation, classification: manual / M .: GEOTAR-
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	<p>Media, 2016.-304 p.</p> <p>9. Clinical protocols approved by the Expert Commission on Healthcare Development of the Ministry of Health of the Republic of Kazakhstan (2013-20 22)</p> <p>10. Pivina L.M. Algorithms for providing medical care in emergency conditions: textbook. - Almaty: TechSmith , 2023, 25 copies.</p> <p>11. Pivina L.M. Syndromic approach in diagnostics and treatment of emergency conditions: textbook. - Almaty: TechSmith , 2023, 25 copies</p>
12.	<p>Discipline Policy :</p> <p>requirements for interns, attendance, behavior, grading policies, penalties, incentives, etc.</p> <p>Come to classes in uniform (gown, cap) and with a phonendoscope and tonometer;</p> <p>Be punctual and responsible;</p> <p>Attendance at practical classes and SROPS is mandatory. Actively participate in the educational process ;</p> <p>A student who misses a class (unless exempted from classes by order of the dean) is given a grade of "n", classes missed for an unjustified reason are not made up, in the electronic journal in the cell next to the mark " n", a grade of "0" is given 2 days before the start of the exam.</p> <p>Missed classes for a valid reason are made up upon presentation of a supporting document. The student is required to provide a certificate to the dean's office no later than 5 working days from the date of its receipt and submits an application to the dean to receive a worksheet indicating the deadline, which is valid for 30 days from the date of its receipt in the dean's office. The grades received as a result of working the class are entered in the electronic journal in the cell next to the mark "n". In the absence of supporting documents or when they are submitted to the dean's office later than 5 working days after returning to study, the reason is considered invalid.</p> <p>Students who missed classes due to the dean's order to be released are not given an "n" grade, but are given an average grade for their academic performance, and the midterm assessment is completed.</p> <p>Each intern must complete all forms of SRO assignments in the form of individual and collective activities and submit them according to the schedule.</p> <p>All types of written work by students are checked for plagiarism.</p> <p>Be responsible for the sanitary condition of your workplace and personal hygiene.</p> <p>10. Eating in classrooms is strictly prohibited.</p> <p>11. Observe safety regulations in classrooms .</p> <p>12. Comply with the internal regulations of the academy and clinical sites where classes are held.</p>

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13. Be tolerant, open and friendly towards fellow students and teachers.
14. Treats the department's property with care .
15. Turn off cell phones during school hours;
16. It is mandatory to perform shifts at the department's clinical sites (1 shift per week)

13	Academic policy based on the moral and ethical values of the academy		
LEARNING OUTCOME ASSESSMENT POLICY :			
1. The following types of control are used within the framework of the assessment system:			
2. Current monitoring (CM) of students' academic performance is carried out by the teacher during classroom and extracurricular activities;			
3. midterm control (MC) is carried out at least twice for each academic discipline; MC is part of the TC;			
4. The final assessment (FA) is carried out in the form of an exam held upon completion of the study of the discipline; the rating for admission to the exam in the discipline must be at least 50 points (60%), which is calculated automatically based on the average assessment of the current assessment (40%) + the average assessment of the midterm assessments (20%).			
5. Intermediate certification is carried out in two stages: acceptance of practical skills using the OSCE (objective structured clinical examination) method and testing.			
6. In the context of DOT, the intermediate certification of students is carried out online: practical skills are assessed online on the Zoom , Webex platform; online proctoring technology is used for testing - a system for verifying identity and confirming the results of online exams .			
14.	Coordination, approval and revision		
Date of agreement with the Library and Information Center		Protocol No. ____	Full name of the head of the BIC
			Darbicheva R.I.
Date of approval at the department		Protocol No. ____	Full name of the head
			Candidate of Medical Sciences, Associate Professor
			Kauyzbay Zh.Ə.
Date of approval for AK OP		Protocol No. ____	Full name of the Chairman of the AK OP
			Kalmenov N.Zh.
			Signature

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Date of revision at the department	Protocol No. ____	Full name of the head	
		Candidate of Medical Sciences, Associate Professor Kauyzbay Zh.Ә.	Signature
Date of revision on AK OP	Protocol No. ____	Full name of the Chairman of the AK OP	
		Kalmenov N.Zh.	Signature