DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Internal Medicine N 1 Department of Internal Medicine N 2

Approved

Approved

First Vice-Rector for scientific and pedagogical work

Assoc. prof. Iryna SOLONYNKO

2023

WORK PROGRAMME OF THE EDUCATIONAL ELECTIVE DISCIPLINE

"Current issues of cardiology" ВБ 1.85.

6 years of study

training of specialists of the second (master's) level of higher education Field of Knowledge 22 "Health care" specialties 222 "Medicine"

Discussed and approved on the methodical meetings of the Departments of Internal Medicine N 1 and Internal Medicine N 2 protocol N 9 dated 18.04.2023

Head of the Department of Internal Medicine N 1

rof Orest ABRAHAMOVYCH

Head of the Department of Internal Medicine N 2

assoc. prof Orest KOMARYTSYA

Approved by the Profile Methodical Council on the therapeutic disciplines protocol N 3 dated 04.05.2023

Head of the Profile Methodical Council prof. Olena RADCHENKO

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The program of study of the discipline "Current issues of cardiology" is made according to: the educational-professional program (EPP) of preparation of experts of the second (master's) level of higher education Field of knowledge 22 "Health care" specialty 222 "Medicine"

Description of the discipline (abstract)

The organization of the educational process is carried out according to the European Credit Transfer System of the Organization of the Educational Process (ECTS). The program of the optional discipline "Current issues of cardiology", which is taught in the 6th year, provides for the improvement of knowledge about the main etiological and pathogenetic factors of the occurrence of diseases of the excretory system, consolidates the basics of clinical examination of the patient, the main symptoms and syndromes and methods of their assessment, methodological foundations of physical examination and semiological assessment of examination results, clinical-diagnostic interpretation of indicators of the most important laboratory-instrumental studies in normal conditions and in diseases; provides basic knowledge of the basic principles of treatment, planning strategy and tactics of prevention and determination of prognosis.

The types of classes according to the curriculum are:

- a) practical classes, b) independent work of students. Practical classes are held at the department's clinical facilities. The method of organizing practical classes in the discipline "Current issues of cardiology" involves the use of:
- 1) control of the initial level of knowledge with the help of test questions composed in the format of questions with 5 answer options, of which 1 is correct and checking workbooks;
- 2) situational problems and clinical cases on the topic of teaching or curation of patients followed by a discussion of the correctness of establishing a diagnosis, differential diagnosis and treatment measures using the principles of evidence-based medicine and in accordance with National and European guidelines and protocols;
- 3) the results of additional research methods (laboratory and instrumental) and parameters characterizing the functions of the human body, which are used during the diagnosis and differential diagnosis of diseases with toxic lesions by substances of different groups, the consideration of which is provided for by the topic of the practical session;
 - 4) monitoring the acquisition of practical skills and medical manipulations.
 - 5) control of the final level of knowledge on test tasks.

The independent and individual work of students is an integral part of the educational activity in the elective discipline "Current issues of cardiology" and is included in the ECTS credits of the discipline as a whole. It includes:

- preparation for practical classes;
- implementation and defense of ISRS (reporting of an abstract at a practical session; reporting at clinical conferences of department bases; writing theses, articles; review of scientific literature by topic);
 - acquisition of practical skills;
 - preparation for the final control;
 - writing a workbook on the subject of the lesson.

The teachers of the department provide the opportunity to carry out independent work. During practical classes and final control, control and evaluation of its implementation is carried out.

The Department of Internal Medicine has the right to make changes to the curriculum up to 15.0%. The final control is made at the last practical session by the teacher of the department in accordance with the schedule approved at the educational and methodical meeting of the department. The evaluation of the student's success in the discipline is a rating and is presented on a multi-point scale, taking into account the grades for the entire cycle of the discipline.

For those students who want to improve their grade in a discipline, after completing the study of the discipline, the curriculum provides for a retake period.

If it is not possible to provide curation of patients with diseases according to the topic of the lesson, students consider clinical cases with diseases of the corresponding topic. Docents/assistants ensure that each student acquires the necessary competence in the following areas: questioning the patient, clinical examination, oral presentation, making diagnostic decisions and determining treatment tactics (critical thinking), filling out documentation.

The structure of the educational	Number of credits, hours,		Classroomba	ased	V 7	Type of	
discipline	Total	Lectures (hrs)	Practical studies (hrs)	Ind. Stud.	Yr	control	
Discipline "Current issues of cardiology"".	3.0 credits /ECTS 90 hrs.	0	36	54	VI course	credit	

The subject of study of the academic discipline is etiopathogenesis, diagnostics, approaches to planning strategies and tactics for the treatment of individual patients, groups of patients, and the organization of therapeutic and preventive measures in cardiology.

Interdisciplinary links are based on the study by students of propaedeutics of internal medicine, propaedeutics of other clinical disciplines (pediatrics, general surgery), as well as other basic disciplines (medical biology, medical and biological physics, bioorganic and biological chemistry, histology, cytology and embryology, human anatomy, pathomorphology, physiology and pathophysiology, microbiology, virology and immunology, radiology) and integrates with these disciplines.

1. The purpose and tasks of the educational discipline

- **1.1. The purpose** of teaching the educational discipline "Current issues of cardiology": formation of the ability to apply acquired knowledge, abilities, skills and understanding to solve typical tasks of a doctor's activity in the field of health care, the scope of which is provided by the specified lists of syndromes and symptoms of diseases, emergency conditions and diseases, that require special patient management tactics; laboratory and instrumental research, medical manipulations.
 - **1.2. The main tasks** of studying the discipline by choosing "Current issues of cardiology":
 - know the subject and tasks of the discipline "Actual issues of cardiology";
 - have an idea about the structure and functions of the kidneys;
 - classify kidney diseases; determine the stage of chronic kidney disease;
 - conduct surveys and clinical examinations of patients with kidney diseases and analyze their results;
 - determine the etiological and pathogenetic factors of kidney diseases;
 - analyze typical clinical signs, identify clinical variants and complications of kidney diseases;
 - prescribe laboratory and instrumental examination of patients with kidney diseases;
- on the basis of the evaluation of the results of laboratory and instrumental examination, carry out a differential diagnosis, justify and establish a clinical diagnosis of kidney diseases;
 - determine the necessary mode of work and rest during the treatment of kidney diseases;
 - determine the necessary medical nutrition during the treatment of kidney diseases;
 - determine the principles and nature of treatment during the treatment of kidney diseases;
 - prescribe treatment, including prognosis-modifying treatment, of kidney diseases;
- evaluate the prognosis and working capacity of patients with kidney diseases; determine the tactics of preventive measures to prevent kidney damage;
 - perform medical manipulations;
 - keep medical documentation;
 - comply with the requirements of ethics, bioethics and deontology in their professional activities.
- **1.3. Competences and learning outcomes,** the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the EPP).

According to the requirements of the PP, the discipline provides students with the acquisition of competencies:

- integral.

ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and/or innovation and is characterized by complexity and uncertainty of conditions and requirements.

-general:

- GC1. Ability to abstract thinking, analysis and synthesis.
- GC2. Ability to learn and master modern knowledge.
- GC3. Ability to apply knowledge in practical situations.
- GC4. Knowledge and understanding of the subject area and understanding of professional activity.
- GC5. Ability to adapt and act in a new situation.
- GC6. Ability to make informed decisions.
- GC7. Ability to work in a team.
- GC8. Interpersonal skills.
- GC9. Ability to communicate in the state language both orally and in writing.
- GC 11. Skills in the use of information and communication technologies.
- GC 12. Definiteness and perseverance in terms of tasks and responsibilities.
- GC 13. Awareness of equal opportunities and gender issues.
- GC 14. The ability to realize one's rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the supremacy of law, the rights and freedoms of people and citizens.
- GC 15. The ability to preserve and multiply the moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and the development of society, techniques and technologies, to use various types and forms of motor activity for active rest and leading a healthy lifestyle.
 - $\hbox{\it -special (professional, subject):}$
 - PC1. Ability to collect medical information of the patient and analyze clinical data.

Autonomy and

responsibility

- PC2. The ability to determine the necessary list of laboratory and instrumental studies and evaluate their results.
- PC 3. The ability to establish a preliminary and clinical diagnosis of the disease.
- PC 4. The ability to determine the necessary regime of work and rest in the treatment and prevention of diseases.
- PC 5. The ability to determine the characteristics of nutrition in the treatment and prevention of diseases. FC6. Ability to determine the principles and nature of treatment and prevention of diseases.
 - PC 7. Ability to diagnose urgent conditions.
 - PC 8. Ability to determine the tactics of providing emergency medical aid.

Knowledge

- PC 9. Ability to carry out medical evacuation measures.
- PC 10. Ability to perform medical manipulations.
- PC 11. The ability to solve medical problems in unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.
 - PC 16. The ability to provide medical documentation, including the use of electronic forms.
- PC 21. It is clear and unambiguous to convey one's own knowledge, conclusions and arguments about health care problems and related issues to specialists and non-specialists, in particular to people who are studying.
 - PC 24. Adherence to ethical principles when working with patients and laboratory animals.
- PC 25. Adherence to professional and academic integrity, bear responsibility for the reliability of the obtained scientific results

Skills

Communication

"Competence Matrix".

Classification of

competencies by NQF

	competencies by NQF				responsibility
1	2	3	4	5	6
			Integral competencies		
				a professional health care	
			novation and is character	rized by the complexity and	d uncertainty of
con	ditions and requirements				
			General competencies	<u></u>	1
1	Ability to abstract	Know the methods	Be able to analyze	Establish appropriate	Be responsible for
	thinking, analysis and	of analysis,	information, make	connections to achieve	the timely
	synthesis.	synthesis and	informed decisions, be	goals.	acquisition of
		further modern	able to acquire modern		modern
		learning.	knowledge.		knowledge.
2	Ability to learn and	Know the current	Be able to analyze	Establish appropriate	Be responsible for
	master modern	trends in the	professional	connections to achieve	the timely
	knowledge.	industry and	information, make	goals.	acquisition of
		analyze them.	informed decisions,		modern
			acquire modern		knowledge.
	A 1 *11*	TT 11 1	knowledge.	CI I I'	D 11.1.6
3	Ability to apply	Have specialized	Be able to solve	Clear and unambiguous	Responsible for
	knowledge in practical	conceptual	complex problems and	communication of their	making decisions
	situations.	knowledge acquired in the	problems that arise in	own conclusions,	in difficult conditions.
		learning process.	professional activities	knowledge and explanations that	conditions.
		learning process.		substantiate them to	
				specialists and non-	
				specialists and non-	
4	Knowledge and	Have a profound	Be able to carry out	Ability to effectively	Be responsible for
•	understanding of the	knowledge of the	professional activities	form a communication	professional
	subject area and	structure of	that require updating	strategy in professional	development,
	understanding of	professional	and integration of	activities.	ability to further
	professional activity.	activity.	knowledge.		professional
	1		8		training with a high
					level of autonomy.
5	Ability to adapt and		Be able to apply means	Establish appropriate	Be responsible for
	act in a new situation.		of self-regulation, to	connections to achieve	the timely use of
	Know the types and		be able to adapt to new	results.	self-regulatory
	methods of adaptation,		situations		methods.
	principles of action in		(circumstances) of life		
	a new situation.		and activity.		
6	Ability to make an	Know the tactics	Be able to make	Use communication	Be responsible for
	informed decision.	and strategies of	informed decisions,	strategies and	the choice and

		communication, laws and ways of	choose ways and strategies	interpersonal skills	tactics of communication
		communicative behavior.	communication to ensure effective teamwork.		
7	Ability to work in a team.	Know the tactics and strategies of communication, laws and ways of communicative behavior	. Be able to choose ways and strategies of communication to ensure effective teamwork.	Use communication strategies	Be responsible for the choice and tactics of communication.
8	Interpersonal skills.	Know the laws and methods of interpersonal interaction.	Be able to choose ways and strategies of communication for interpersonal interaction.	Use interpersonal skills.	Be responsible for the choice and tactics of communication.
	Skills in the use of information and communication technologies.	Have deep knowledge in the field of information and communication technologies used in professional activities.	Be able to use information and communication technologies in the professional field, which requires updating and integration of knowledge	Use information and communication technologies in professional activities.	. Be responsible for the development of professional knowledge and skills.
11	The ability to search, process and analyze information from various sources.	To know the places of search, methods of processing and analysis of information from various sources.	To be able to determine the priority areas of search, processing and analysis of information from various sources.	To use interpersonal interaction. different sources	To be responsible for a qualitative search, processing and analysis of information from various sources
12	Definiteness and perseverance in terms of tasks and responsibilities.	Know the responsibilities and ways to accomplish the tasks.	Be able to set goals and objectives to be persistent and conscientious in the performance of duties.	Establish interpersonal relationships to effectively perform tasks and responsibilities	Responsible for the quality of the tasks
13	Awareness of equal opportunities and gender issues	Know and be aware of issues of equal opportunities and gender issues	Be able to evaluate rights and responsibilities regarding equal opportunities and gender issues	Establish interpersonal interaction based on equal opportunities and exclude gender issues	Be responsible for establishing equal opportunities and eliminating gender issues problems
14	one's rights and responsibilities as a member of society, to be aware of the values of civil society (free democratic) and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	To know one's social and public rights and responsibilities, to be aware of the values of civil society (free democratic) and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	To form one's civic consciousness, to be able to act in accordance with it. To be able to apply the values of civil society (free democratic) for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	The ability to convey one's civic and social position. To adhere to the values of civil society (free democratic) and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine.	To be responsible for one's civic position and activities for sustainable development, the rule of law, the rights and freedoms of a person and a citizen of Ukraine
15	The ability to preserve and increase the moral, cultural, scientific values and	To know the moral, cultural, scientific values and achievements of	To be able to preserve and multiply the moral, cultural, scientific values and	To adhere to moral, cultural, scientific values and achievements of society based on	To be responsible for the observance of moral, cultural, scientific values

	achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.	society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, equipment and technologies, to know about different types and forms of motor activity for active recreation and maintaining a healthy lifestyle.	achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and being able to keep a healthy lifestyle.	understanding the history and patterns of development of the subject area, their place in the general system of knowledge about nature and society and in the development of society, equipment and technologies, to adhere to various types and forms of motor activity for active recreation and healthy lifestyle.	and achievements of society on the basis of understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology.
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1	Ability to collect medical information about the patient and analyze clinical data	Have specialized knowledge about the person, his organs and systems, know the methods and standard schemes of questioning and physical examination of the patient.	Be able to conduct a conversation with the patient on the basis of algorithms and standards, using standard techniques to conduct a physical examination of the patient. Be able to assess the state of human health.	Effectively form a communication strategy when communicating with the patient. Enter information about the state of human health in the relevant medical records.	Be responsible for the quality collection of information obtained through interviews, surveys, examinations, palpation, percussion of organs and systems and for the timely assessment of the state: human health and for taking appropriate measures.
2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results.	Have specialized knowledge about the person, his organs and systems, standard methods of laboratory and instrumental research (according to list 4).	Be able to analyze the results of laboratory and instrumental studies and on their basis to assess information about the patient's diagnosis (according to list 4).	Form and communicate to the patient and specialists the necessary conclusions list of laboratory and instrumental studies (according to list 4).	Be responsible for deciding on the evaluation of laboratory and instrumental research results
3	Ability to establish a preliminary and clinical diagnosis of the disease.	Know the algorithms of disease diagnosis; algorithms for selection of leading symptoms or syndromes (according to list 1); preliminary and clinical diagnoses (according to list 2); methods of laboratory and instrumental	Be able to conduct a physical examination of the patient. Be able to make an informed decision regarding the selection of the leading clinical symptom or syndrome; be able to make a preliminary and clinical diagnosis of the disease (according to list 2); appoint a laboratory and instrumental	Based on regulatory documents, maintain the patient's medical documentation (ambulatory/inpatient card, etc.)	Be responsible for making informed decisions and actions regarding the correctness of the established preliminary and clinical diagnosis of diseases

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			care; to carry out organizational and diagnostic measures aimed at saving and saving human life.		
9	Ability to conduct medical evacuation measures	Know the algorithms of medical evacuation measures	Be able to conduct medical evacuation measures	Explain the necessity and procedure of medical evacuation measures	Be responsible for the timeliness and quality of medical evacuation measures
10	Skills to perform medical manipulations.	Have specialized knowledge about man, his organs and systems; knowledge of algorithms for performing medical manipulations (according to list 5).	Be able to perform medical manipulations (according to list 5).	Reasonable form and bring to the patient, specialists conclusions about the need for medical manipulations (according to list 5)	Be responsible for the quality of medical manipulations (according to list 5).
11	Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.	Know and navigate medical problems arising in new or unfamiliar environments in the presence of incomplete or limited information.	Have the skills to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information	Communicate to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information.	Take responsibility for solving medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility
16	Ability to maintain medical documentation	Know the system of official document flow in the professional work of a doctor, including modern computer information technologies.	Be able to determine the source and location of the required information depending on its type. Be able to process information and conduct analysis of received information	Receive necessary information from a specified source and, based on its analysis, form appropriate conclusions	Be responsible for the completeness and quality of information analysis and conclusions based on its analysis
21	To convey clear and unambiguous one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and nonspecialists, in particular to people who are studying	Know how to clearly and unambiguously convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and nonspecialists, in particular to people who are studying.	. Possess the methods and skills for clearly and unambiguously conveying one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and nonspecialists, in particular to students.	Formulate an opinion on the clear and unambiguous presentation of one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to students.	Be responsible for the validity of conclusions regarding one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non- specialists, in particular to persons who are studying
24	Adhere to ethical principles when working with patients, laboratory animals	Know the ethical principles that apply when working with patients	Be able to apply ethical principles when working with patients	Adhere to ethical principles when communicating with patients	Be responsible for observing ethical principles when working with patients

25	Adherence to	Have specialized	Be able to organize	Communicate for	
	professional and	knowledge about	one's own work in	compliance with	
	academic integrity,	the system of	compliance with	professional and	
	be responsible for	professional and	professional and	academic integrity	
	the reliability of the	academic integrity	academic integrity		
	obtained results				

Learning outcomes:

Integrative final program learning outcomes, the formation of which is facilitated by the educational discipline

- :• conduct professional activities in social interaction based on humanistic and ethical principles; identify future professional activities as socially significant for human health;
 - apply knowledge of general and professional disciplines in professional activities;
- comply with the norms of the sanitary and hygienic regime and safety requirements during professional activities;
- use the results of independent search, analysis and synthesis of information from various sources to solve typical problems of professional activity;
- argue information for decision-making, be responsible for them in standard and non-standard professional situations; adhere to the principles of deontology and ethics in professional activities;
- to carry out professional communication in modern Ukrainian, to use skills of oral communication in a foreign language, analyzing texts of professional orientation and translate foreign language information sources;
- adhere to the norms of communication in professional interaction with colleagues, management, work effectively in a team;
- analyze the information obtained as a result of scientific research, summarize, systematize and use it in professional activities.

Program learning outcomes (PLO) for discipline

№	ann rear ming outcomes (1 LO) for discipline	Abbreviation	Correspondence
745		Abbieviation	to competencies
	Program learning outcomes		to competencies
1.	Have thorough knowledge of the structure of professional activity. To be able	PLO – 1	GC 1-15; PC 1-
1.	to carry out professional activities that require updating and integration of		25
	knowledge. To be responsible for professional development, the ability for		
	further professional training with a high level of autonomy.		
2.	Understanding and knowledge of fundamental and clinical biomedical sciences,	PLO-2	GC 4, 6, 10, 11,
	at a level sufficient for solving professional tasks in the field of health care.		12; PC 1-15,
			17, 19, 20,24
3.	Specialized conceptual knowledge that includes scientific achievements in the	PLO – 3	GC 1-3, 6, 7, 9-
	field of health care and is the basis for conducting research, critical		12; PC 1-3, 11,
	understanding of problems in the field of medicine and related interdisciplinary		18-26
	problems.		
4.	Identify and identify leading clinical symptoms and syndromes (according to	PLO – 4	GC 3-4; PC 12,
	list 1); according to standard methods, using preliminary data of the patient's		16, 22, 24
	history, data of the patient's examination, knowledge about the person, his		
	organs and systems, establish a preliminary clinical diagnosis of the disease		
	(according to list 2).		
5.	Collect complaints, anamnesis of life and diseases, assess the psychomotor and	PLO – 5	GC 1-3, 6, 7;
	physical development of the patient, the state of organs and systems of the		PC 1-3, 7, 8,
	body, based on the results of laboratory and instrumental studies, evaluate information regarding the diagnoss (according to list 4), taking into account the		11, 12, 16, 24
	age of the patient.		
6.	To establish the final clinical diagnosis by making a reasoned decision and	PLO – 6	GC 1-3, 6-8;
0.	analyzing the received subjective and objective data of clinical, additional	I LO - 0	PC 1-3, 7, 8,
	examination, carrying out differential diagnosis, observing the relevant ethical		11, 12, 16, 24
	and legal norms, under the control of the head physician in the conditions of the		11, 12, 10, 21
	health care institution (according to the list 2)		
7.	Assign and analyze additional (mandatory and optional) examination methods	PLO – 7	GC 8; PC 1-2,
	(laboratory, functional and/or instrumental) (according to list 4) of patients with		16, 24
	diseases of organs and body systems for differential diagnosis of diseases		
	(according to list 2).		
8.	To determine the main clinical syndrome or what causes the severity of the	PLO – 8	GC 3-4; PC 5-
	victim/victim's condition (according to list 3) by making a reasoned decision		12, 24
	and assessing the person's condition under any circumstances (in the conditions		

		1	1
	of a health care facility, outside its borders), including in the conditions of an		
	emergency and hostilities, in field conditions, in conditions of lack of		
	information and limited time.		
9.	Determine the nature and principles of treatment (conservative, operative) of	PLO – 9	PC 1, 2, 6-8,
	patients with diseases (according to list 2), taking into account the age of the		10, 12
	patient, in the conditions of a health care institution, outside its borders and at		
	the stages of medical evacuation, including in field conditions, on the basis of a		
	preliminary clinical diagnosis, observing the relevant ethical and legal norms,		
	by making a reasoned decision according to existing algorithms and standard		
	schemes, in case of the need to expand the standard scheme, be able to justify		
	personalized recommendations under the control of the head physician in the		
	conditions of a medical institution.		
10.	Determine the necessary mode of work, rest and nutrition based on the final	PLO – 10	GC 4; PC 4, 5,
	clinical diagnosis, observing the relevant ethical and legal norms, by making a		24
	reasoned decision according to existing algorithms and standard schemes.		
11.	. Determine tactics and provide emergency medical care in emergency	PLO – 14	GC 5, 7, 8; PC
	situations (according to list 3) in limited time conditions according to existing		1, 7, 11, 17, 19,
	clinical protocols and standards of treatment.		23
12.	Form rational medical routes for patients; to organize interaction with	PLO – 16	PC 3, 7, 10, 11
	colleagues in their own and other institutions, organizations and institutions; to		
	apply tools for the promotion of medical services in the market, based on the		
	analysis of the needs of the population, in the conditions of the functioning of		
	the health care institution, its division, in a competitive environment.		
13.	Perform medical manipulations (according to list 5) in the conditions of a	PLO – 17	GC 14, 15; PC
	medical institution, at home or at work based on a previous clinical diagnosis		7, 11, 17
	and/or indicators of the patient's condition by making a reasoned decision,		
	observing the relevant ethical and legal norms.		
14.	To determine the state of functioning and limitations of a person's vital	PLO – 18	PC 13, 14, 17,
	activities and the duration of incapacity for work with the preparation of		20
	relevant documents, in the conditions of a health care institution, based on data		
	about the disease and its course, peculiarities of a person's professional activity,		
	etc. Maintain medical documentation regarding the patient and the contingent		
	of the population on the basis of regulatory documents.		
15.	Plan and implement a system of anti-epidemic and preventive measures	PLO – 19	PC 14
	regarding the occurrence and spread of diseases among the population.		
16.	PLO21. Search for the necessary information in the professional literature and	PLO – 21	GC 2, 9, 10
<u> </u>	databases of other sources, analyze, evaluate and apply this information.		
17.	Apply modern digital technologies, specialized software, and statistical data	PLO – 22	GC 5, PC 13-17
4.0	analysis methods to solve complex healthcare problems.	DY 0 5 =	007.5
18.	To convey clearly and unambiguous one's own knowledge, conclusions and	PLO – 25	GC 5, 6, PC 11,
	arguments on health care problems and related issues to specialists and non-		17, 21
4.5	specialists.		
19.	Manage work processes in the field of health care, which are complex,	PLO – 26	GC 2, 8
	unpredictable and require new strategic approaches, organize the work and		
	professional development of personnel taking into account the acquired skills		
	of effective teamwork, leadership positions, appropriate quality, accessibility		
2.0	and fairness, ensuring the provision of integrated medical help	DV 0 5-	00.50 15.55
20.	Communicate freely in the national and English languages, both orally and in	PLO – 27	GC 5-8, 15; PC
21	writing to discuss professional activities, research and projects.	DY C 50	11, 18, 21-22
21.	Make effective decisions about health care problems, assess the necessary	PLO – 28	GC 14, 15; PC
	resources, take into account social, economic and ethical consequences.		14, 20

Learning outcomes for the discipline

	Learning outcomes for the discipline					
Learning outcome	The content of the learning outcome	References to the				
code		code of the				
		competence				
		matrix				
Category:	Learning outcomes determine that the student must know, understand and be	Symbol of the				
Kn - knowledge	able to perform, after completing the discipline. Learning outcomes follow	Program				
Ab - ability	from the set learning goals. To enroll in the discipline, it is necessary to	Learning				
Co- competence	confirm the achievement of each	Outcome (PLO)				
AR - autonomy and		code in the High				

onsibility		Education Standard	
Kn-1	Have thorough knowledge of the structure of professional activity.	PLO-1	
Ab-1	Able to carry out professional activities that require updating and integration of knowledge.	1201	
Co-1	Skills of further professional training		
AR-1	To bear responsibility for professional development, the ability for further		
1111	professional training with a high level of autonomy		
Kn-2	. Have knowledge of fundamental and clinical biomedical sciences, equally sufficient for solving professional tasks in the field of health care.	PLO-2	
Ab-2	To be able to analyze the problems of fundamental and clinical biomedical sciences		
CO-2	Ability to determine the necessary list of problems of fundamental and clinical biomedical sciences		
AR-2	To be responsible for making a decision regarding the evaluation of tasks of fundamental and clinical biomedical sciences		
Kn-3	Have specialized conceptual knowledge, including scientific achievements in the field of health care and the basis for conducting research	PLO-3	
Ab-3	To be able to critically analyze problems in the field of medicine and related interdisciplinary problems.		
CO-3	The ability to analyze problems in the field of medicine and related interdisciplinary problems.		
AR-3	Be responsible for making informed decisions and actions regarding the correctness of coverage of the problem in the field of medicine and interdisciplinary problems related to it.		
Kn-4	Know the leading clinical symptoms and syndromes; standard diagnostic methods.	PLO-4	
Ab-4	To be able to distinguish and identify the leading clinical symptoms and syndromes; by standard methods, using the patient's anamnesis data, the patient's examination data, knowledge about the person, his organs and systems.		
CO-4	The ability to establish a preliminary clinical diagnosis of the disease		
AR-4	Be responsible for establishing a preliminary clinical diagnosis of the disease	1	
Kn-5	Know the algorithms of working with the patient	PLO-5	
Ab-5	. To be able to collect complaints, anamnesis and diseases, evaluate the psychomotor and physical development of the patient, the state of the organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information related to the diagnosis, taking into account the age of the patient.		
CO-5	Ability to evaluate the results of laboratory and instrumental research		
AR-5	Be responsible for the completeness of collected information about the patient.		
Kn-6	Know the principles of establishing a final clinical diagnosis.	PLO-6	
Ab-6	Be able to establish a final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, conducting differential diagnosis, observing the relevant ethical and legal norms, under the supervision of the head physician in the conditions of the health care institution.		
CO-6	The ability to establish an algorithm for formulating a final clinical diagnosis		
AR-6	Be responsible for formulating the final clinical diagnosis		
Kn-7	Know the standard methods of conducting laboratory and instrumental research	PLO-7	
Ab-7	Be able to analyze the results of laboratory and instrumental studies and, based on them, evaluate information about the patient's diagnosis		
CO-7	Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results		
AR-7	To be responsible for making a decision regarding the evaluation of the results of laboratory and instrumental studies		
Kn-8	To know the main clinical syndromes and the severity of the condition of the victim/injured (under the conditions of the health care institution, outside its	PLO-8	
	boundaries), including in the conditions of emergency situations and combat operations, in field conditions, in conditions of lack of information and		

	limited time.	
Ab-8	To be able to determine the main clinical syndrome or the severity of the victim's condition caused by making a reasoned decision and assessing the condition of a person under any circumstances (in the conditions of a health care institution, outside its borders), including in the conditions of emergency situations and combat operations, in field conditions, in conditions of lack of	
	information and limited time.	
CO-8	To have interaction skills, regarding the determination of the main clinical syndrome or the cause of the severity of the victim's/victim's condition, making a reasoned decision and evaluating a person under any circumstances (in terms of a health care institution, outside its boundaries), including in the conditions of emergency situations and combat operations, in field conditions, in conditions of lack of information and limited time.	
AR-8	To be responsible for the timely determination of the main clinical syndrome or the cause of the severity of the victim's/victim's condition by making a reasoned decision and assessing the state of a person under any circumstances (in terms of a health care institution, outside its boundaries), including in the conditions of emergency situations and combat operations, in field conditions, in conditions of lack of information and limited time.	
Kn-9	Know the principles of treatment of patients (conservative, operative) with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and stages of medical evacuation, including in field conditions.	PLO-9
Ab-9	Be able to determine the nature and principles of treatment of patients (conservative, operative) with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, following the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes, and when it is necessary to expand the standard scheme, and to be able to substantiate personalized recommendations under the control of the head physician in the conditions of the medical institution.	
CO-9	The ability to communicate about the nature and principles of treatment of patients (conservative, operative) with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes	
AR-9	To be responsible for the quality of the prescribed treatment (conservative, operative) of patients with diseases, taking into account the age of the patient, the conditions of the health care facility, its limits and the stage of medical evacuation, including in field conditions	
Kn-10	Know the necessary mode of work, rest and nutrition based on the final clinical diagnosis, existing algorithms and standard schemes.	PLO-10
Ab-10	Be able to determine the necessary regime of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making a well-founded decision with existing algorithms and standard schemes.	
CO-10	The ability to determine the mode of work, rest and the nature of nutrition during the treatment of diseases	
AR-10	To be responsible for the reasonableness of determining the mode of work, rest and the nature of nutrition during the treatment of diseases	
Kn-11	To know the tactics of providing emergency medical aid in emergency situations in limited time in accordance with existing clinical protocols and treatment standards.	PLO-14
Ab-11	Able to provide emergency medical assistance in emergency situations in limited time in accordance with existing clinical protocols and treatment standards.	
CO-11	The ability to determine the tactics of providing emergency medical aid in emergency situations in limited time in accordance with existing clinical protocols and treatment standards.	

AR-11	To be responsible for the provision of emergency medical aid in	
AK-11	emergency situations in a time-limited manner in accordance with existing	
	clinical protocols and treatment standards.	
Kn-12	Know the rational medical routes of patients.	PLO-16
Ab-12	To be able to form rational medical routes for patients.	120 10
CO-12	The ability to communicate with colleagues in order to form rational medical	
CO 12	routes for patients	
AR-12	To be responsible for the validity of decisions regarding the formation of	
111112	rational medical routes for patients	
Kn-13	Know the principles of performing medical manipulations in the conditions of	PLO-17
	a medical institution, at home or at work	
Ab-13	. Be able to perform medical manipulations in the conditions of a medical	
	institution, at home or at work based on a previous clinical diagnosis and/or	
	indicators of the patient's condition by making a reasoned decision, observing	
	the relevant ethical and legal norms	
CO-13	. Ability to communicate regarding medical manipulations in the conditions of	
	a medical institution, at home or at work	
AR-13	To be responsible for carrying out medical manipulations in the conditions of	
	a medical institution, at home or at work	
Kn-14	To know what limitations of a person's life activity and the duration of	PLO-18
	incapacity for work require the preparation of relevant documents, in the	
	conditions of a health care institution based on data about the disease and its	
	course, the peculiarities of a person's professional activity, etc.	
Ab-14	Be able to determine the state of functioning and limitations of a person's vital	
	activity and the duration of incapacity with the preparation of relevant	
	documents, in the conditions of a health care institution, based on data about	
	the disease and its course, the peculiarities of a person's professional activity,	
	etc.	
CO-14	The ability to assess the limitation of a person's vital activity and the duration	
	of his disability	
AR-14	Be responsible for assessing the limitation of a person's life activity and the	
	duration of his/her incapacity	
Kn-15	Know anti-epidemic and preventive measures for the occurrence and	PLO-19
	spread of diseases among the population.	
Ab- 15	To be able to carry out anti-epidemic and preventive measures regarding	
	the occurrence and spread of diseases among the population.	
Ab-16	Be able to find the necessary information in professional literature and	PLO-21
	databases of other sources, analyze, evaluate and apply this information.	
Ab-17	Be able to apply modern digital technologies, specialized software, and	PLO-22
	statistical methods of data analysis to solve complex healthcare problems.	
AR-15	Be responsible for the clear and unambiguous presentation of one's own	PLO-25
	knowledge, conclusions and arguments on health care problems and related	
	issues to specialists and specialists To	
AR-16	be responsible for ensuring the provision of integrated medical care.	PLO-26
Ab-18	Be able to communicate freely in the state language and in English, both	PLO-27
	orally and in writing to discuss professional activities, research and projects.	
CO-15	To comply with the requirements of ethics, bioethics and deontology in their	PLO-28
	professional activities	
AR - 17	To be responsible for compliance with the requirements of ethics, bioethics	
	and deontology in one's professional activity.	

2. Information volume of the discipline "Current issues of cardiology".2,0 ECTS credits (60 hours) are allocated to study the individual profile course "Current issues of cardiology". in the 6th year.

3. The structure of the discipline

Topic	Lectures	Practical classes	Independent work
The global pandemic of COVID-19. Diagnosis of SARS-CoV-2.		6	6
Clinical manifestations, prevention and treatment. Modern			
methods of instrumental diagnostics in cardiology			
Modern principles of diagnosis and treatment of acute and		6	6
chronic coronary syndromes			

Modern principles of diagnosis and treatment of heart rhythm and		6	6
heart conduction disorders			
Modern recommendations for diagnosis and treatment of		6	6
essential and symptomatic arterial hypertension			
Non-coronarogenic diseases of the myocardium 6 6		6	
Heart failure: the current state of the problem		6	6
Total hours _90 _ / _ 3_ ECTS credits 0 36		54	
Form of final control	Credit		

4. The thematic plan of lectures according to the order 881-z dated 15.03.2022 "On the implementation of the training plan for applicants of the second (master's) level of higher education in the specialty 222 "Medicine" (Appendix 1) lectures are not provided.

5. Thematic plan of practical classes

№	TOPIC		
1.	The global pandemic of COVID-19. Diagnosis of SARS-CoV-2. Clinical manifestations, prevention and treatment. Modern methods of instrumental diagnostics in cardiology	6	
2.	Modern principles of diagnosis and treatment of acute and chronic coronary syndromes		
3.	Modern principles of diagnosis and treatment of heart rhythm and heart conduction disorders		
4.	Modern recommendations for diagnosis and treatment of essential and symptomatic arterial hypertension	6	
5.	Non-coronarogenic diseases of the myocardium		
6.	Heart failure: the current state of the problem	6	
	Total	36	

6. Thematic plan of independent work of students

№	TOPIC	Number of hours
1.	Preparation for a practical lesson on the topic "The global pandemic of COVID-19. Diagnosis of SARS-CoV-2. Clinical manifestations, prevention and treatment. Modern methods of instrumental diagnostics in cardiology"	9
2.	Preparation for a practical lesson on the topic "Modern principles of diagnosis and treatment of acute and chronic coronary syndromes"	9
3.	Preparation for a practical lesson on the topic "Modern principles of diagnosis and treatment of heart rhythm and heart conduction disorders"	9
4.	Preparation for a practical session on the topic "Modern recommendations for the diagnosis and treatment of essential and symptomatic arterial hypertension"	9
5.	Preparation for a practical lesson on the topic "Non-coronary myocardial diseases"	9
6.	Preparation for a practical lesson on the topic "Heart failure: the current state of the problem"	9
	TOTAL	54

7. Independent and individual work

- Essay presentation at a practical session
- Report at clinical conferences of department bases
- Presentation of medical history at a practical session
- Writing theses, articles
- Mastering practical skills
- Review of scientific literature by topic
- Writing a workbook on the subject of the lesson

Individual assignments are a mandatory part of students' work. It is divided into current (mandatory part is home self-preparation for practical classes and filling out a thematic patient card) and individual educational and research tasks. Mandatory individual work of students is an integral part of studying almost every topic. The quality of performance of mandatory individual work is taken into account during the assessment of success in the topic of the lesson. Individual work is evaluated with additional points and has different levels of difficulty.

- Individual tasks from the discipline «Cardiology" are completed by students in writing (in the form of a thematic patient card), the implementation control is carried out constantly during the semester in the relevant practical classes. Verification of the material learned by the topic of the work is carried out at the final control.
- In practical classes, home self-preparation of individual work, which is provided for the relevant topic of the practical class, is checked, evaluated during the current control of the class topic.

• Evaluation of mastery of topics, which are left for independent study by students and are not included in the topics of practical classes, is carried out during the final control with the help of tests and situational problems.

The organization of the educational process should ensure the participation of students in the management of at least 2/3 of inpatients. If it is not possible to provide curation of patients with diseases according to the topic of the lesson, students fill out charts of patients with diseases of the corresponding topic.

Daily patient examination protocols by students are provided to the associate professor/assistant for review. Docents/assistants ensure that each student acquires the necessary competence in the following areas: questioning the patient, clinical examination, oral presentation, making diagnostic decisions and determining treatment tactics (critical thinking), filling out documentation.

8. Teaching methods:

Practical, visual, verbal, work with a book, video method.

During classes, such methods of interactive learning as business games, role-playing games, cases, etc. are used.

9. Control methods:

oral, written, test, programmed, practical control, self-control.

- **9.1 Types of control:** current and final.
- 9.2 Form of final control of study success: credit
- 9.3 Evaluation criteria Control measures include current and final semester control and certification of graduates.

10. Current control:

Current control is carried out during training sessions and is aimed at checking the students' assimilation of the educational material.

During the practical session, the student examines the patient, analyzes the received data, formulates and substantiates the preliminary diagnosis; prepares a plan for additional research methods, documents the patient's examination in the form of a brief medical history; analyzes the results of additional research methods, compares data from several patients, formulates and substantiates a clinical diagnosis; learns the basic principles of disease treatment in the clinic of internal medicine, solves clinical situational problems, makes a short report on the completed independent work.

Conducting current control during training sessions should be based on test control, solving situational problems, current survey, examination of the patient, filling out the patient card and independent work, after which the student is assigned a comprehensive assessment. The student must receive a grade in each topic.

Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is given on a 4-point (national) scale

Criteria for assessing the practical lesson

- ➤ Knowledge of theoretical material has significant errors, no homework, initial test control of knowledge written less than 60%, unsatisfactory examination of the patient (unsatisfactory assessment for practical skills), the main test on the topic written on unsatisfactory assessment, the student makes mistakes that can lead until the death of the patient unsatisfactory;
- ➤ Knowledge of theoretical material has errors, which, however, can not cause the death of the patient, the initial test control is written at 60-74%, a satisfactory grade for practical skills, test on the topic written on a satisfactory grade, the student makes mistakes that lead to prolong the diagnostic search, but do not threaten the life of the patient satisfactory;
- ➤ Knowledge of theoretical material without errors, corresponds to the program, the initial test control is written on 75-89%, the grade "good" for the performed practical skills, the test on the studied topic is written on the grade "good", the student does not make mistakes good.
- Nowledge of theoretical material without errors, corresponds to the program, from basic disciplines excellent knowledge which the student can use in therapy, initial test control is written on 90% and more, an estimation "excellent" for the executed practical skills, control work on the studied subject is written on an estimation "Excellent", the student does not make mistakes, is able to examine the patient, interpret the results of examinations and prescribe modern, individual, with a dosage of treatment excellent.

Final control		
General evaluation	al evaluation Participation in the work during the semester (credit) on a 200-point scale	
system		
Rating scales	Rating scales traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of	itions of The student attended all practical classes and received at least 120 points for current	
admission to the final	ission to the final performance	
control		
Type of final control	Methods of final control	Enrollment criteria
Credit	All topics submitted for current control must be included. Grades	The maximum number

from the 4-point scale are converted into points on a multi-point	of points is 200. The
(200-point) scale in accordance with the Regulation "Criteria, rules	minimum number of
and procedures for evaluating the results of students' learning	points is 120.
activities"	

12. Scheme of accrual and distribution of points received by students

Assessment is one of the final stages of learning activities and determining learning success.

The calculation of points is based on the grades obtained by the student on the traditional scale during the study of the discipline during the semester, by calculating the arithmetic mean (AM), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:

$$200/5.x = CA$$

For convenience, the table of recalculation on a 200-point scale is given:

Recalculation of the average grade for current activities in a multi-point scale for disciplines that end with a credit

,	200
4-	200-
point	point
scale	scale
5	200
4.97	199
4.95	198
4.92	197
4.9	196
4.87	195
4.85	194
4.82	193
4.8	192
4.77	191
4.75	190
4.72	189
4.7	188
4.67	187
4.65	186
4.62	185
4.6	184
4.57	183
4.52	181
4.5	180
4.47	179

4-	200-
point	point
scale	scale
4.45	178
4.42	177
4.4	176
4.37	175
4.35	174
4.32	173
4.3	172
4.27	171
4.24	170
4.22	169
4.19	168
4.17	167
4.14	166
4.12	165
4.09	164
4.07	163
4.04	162
4.02	161
3.99	160
3.97	159
3.94	158

4-	200-
point	point
scale	scale
3.92	157
3.89	156
3.87	155
3.84	154
3.82 3.79 3.77 3.74	153
3.79	152
3.77	151
3.74	150
3.72	149
3.7	148
3.67	147
3.65	146
3.62	145
3.57	143
3.57 3.55	142
3.52	141
3.5	140
3.47	139
3.45	138
3.42	137
3.4	136

4-	200-
point scale	point scale
3.37	135
3.35	134
3.32	133
3.3	132
3.27	131
3.25	130
3.22	129
3.2	128
3.17	127
3.15	126
3.12	125
3.1	124
3.07	123
3.02	121
3	120
Less 3	not enough

Scores from the discipline are independently converted into both the ECTS scale and the 4-point scale. ECTS scale scores are not converted to a 4-point scale and vice versa.

The scores of students studying in one specialty, taking into account the number of scores scored in the discipline, are ranked on the ECTS scale as follows:

ECTS assessment	Statistical indicator
"A"	The best 10% of students
"B"	The next 25% of students
"C"	The next 30% of students
"D"	The next 25% of students
"E"	The last 10% of students

Discipline scores for students who have successfully completed the program are converted into a traditional 4-point scale according to the absolute criteria, which are given in the table below:

Score on a multi-point (200) scale	Score on a four-point scale
From 170 to 200 points	«5»
From 140 to 169 points	«4»
From 139 to the minimum number of points that must be scored by student	«3»
Below the minimum number of points that must be scored by student "2"	
Below the minimum number of points that must be scored by student	«2»

The ECTS score is not converted to the traditional scale, as the ECTS scale and the four-point scale are independent.

The objectivity of the assessment of students' learning activities is checked by statistical methods (correlation coefficient between ECTS assessment and assessment on a national scale).

13. Methodical support

Educational content:

- 1) plans for practical classes
- 2) tasks for independent work
- 3) guidelines / recommendations for students and teachers
- 4) algorithms for treatment and emergency care (according to the standards of evidence-based medicine)
- 5) algorithms for performing skills practices, medical manipulations, videos
- 6) results of laboratory and instrumental research methods
- 7) models, phantoms, etc.
- 8) simulators, electronic directories, computers with appropriate information support
- 9) questions, tasks, tasks or cases for current and final control

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Information resources

- https://www.aasld.org/
- https://www.diabetes.org
- http://www.eagen.org/
- http://www.ers-education.org/guidelines.aspx
- http://www.esmo.org/Guidelines/Haematological-Malignancies
- https://ehaweb.org/organization/committees/swg-unit/scientific-working-groups/structure-and-guidelines/
- http://www.gastro.org/guidelines
- www.ginasthma.org