

National Pirogov Memorial Medical University, Vinnytsya

“APPROVE ”

Acting rector of higher education
institution



“31“ 08 2023

“ AGREED ”

Head of the department of Internal and family
medicine



“30“ 08 2023

SYLLABUS

Internal Medicine

(profile Elective block 1: General practice - family medicine) - EB 1.3.1

Specialty 222 Medicine	222 Medicine
Educational level Master	Master
Educational program	EPP "Medicine", 2023
Academic year	2023-2024
Department	Internal and Family Medicine, National Pirogov Memorial Medical University, Vinnytsya
Contact information	intmed@vnmu.edu.ua Khmelnitsky highway, 96
Compiler of the syllabus	associate professor Chernova Inna Vyacheslavivna

1. Status and structure of the discipline

Discipline status	Obligatory
Discipline code in EPP /place of discipline in EPP	EB 1.3.1, a component of the cycle of professional training disciplines
Course/semester	6 course (XI/XII semester)
Scope of the discipline (total number of hours/ number of credits ECTS)	345 hours / 11.5 credits ECTS
Number of content modules	1 module
The structure of the discipline	Practical classes 168 hours Independent work 177 hours
Language of teaching	English
Form of education	Full-time (when implementing quarantine measures, remote full-time)

2. Description of the discipline

Short abstract of the course, relevance. The main focus of the program is the acquisition of knowledge in the discipline "Internal Medicine", the study of which is necessary for the successful assimilation of the disciplines of professional activity. The subject area of the program is the study of the basics of internal medicine, while the emphasis is on creating a holistic view of the etiology, pathogenesis, clinical signs of diseases, methods of diagnosis, differential diagnosis, their prevention and treatment. The program is aimed at obtaining such a level of knowledge that would allow them to:

- to develop skills in the technique of clinical examination of patients, collection of anamnesis, conducting auscultation, percussion, palpation;
- interpret the results of laboratory and instrumental research methods, - rely in diagnosis not only on the clinical signs of the disease, but also on the results of laboratory and instrumental research methods, which provide the most accurate information about the condition of the patient, his organs, systems (especially in conditions that require urgent care);
- provide qualified emergency care in various life-threatening situations: hypertensive crisis, acute coronary syndrome, paroxysmal rhythm disturbances, conduction disturbances, various types of shock, bleeding, etc.;
- treat the most common diseases, knowing the pharmacodynamics of the drugs used to treat diseases; basics of rational nutrition, work mode
- conduct dispensary monitoring of patients, master the basics of rehabilitation and examination of patients' working capacity.

Prerequisites In order to successfully master the discipline, the student needs knowledge obtained in the course of studying the following disciplines: medical and biological physics, chemistry, biology, microbiology, normal and pathological physiology, morphological disciplines, propaedeutics of internal diseases, pharmacology, clinical pharmacology, medical terminology, radiology.

The purpose of the course and its importance for professional activity. "Internal medicine" is the formation of the ability to apply the acquired knowledge, skills, and abilities to solve the typical tasks of a doctor in the field of health care in the relevant position, the scope of which is provided by the specified lists of syndromes and symptoms of diseases that require special tactics of managing patients, emergency conditions, instrumental research.

Post-requisites. In the process of studying the discipline "Internal Medicine", the foundations are laid for students to study modern diagnostic technologies used in modern clinical practice, which involves the integration of teaching with various disciplines and the formation of skills to apply knowledge from modern diagnostic methods in the process of further education and professional activity.

3. Learning outcomes.

After successfully studying the discipline, the applicant will be able to:

1. Analyze a typical clinical picture of diseases of internal organs;
2. Identify the leading clinical symptom or syndrome; establish the most likely or syndromic diagnosis of the disease;
3. Determine the development of complications;
4. Determine the necessary laboratory or instrumental research;
5. Interpret laboratory and instrumental research methods;
6. Make a preliminary diagnosis with a typical course of the disease;
7. Determine the emergency situation;
8. Carry out differential diagnosis of diseases taking into account the results of clinical and instrumental examination of patients;
9. Diagnose, treat, organize the implementation of measures to prevent diseases of internal organs;
10. Conduct an ECG and measure blood pressure;
11. Use unified clinical protocols for the provision of medical care developed on the basis of evidence-based medicine.
12. Demonstrate mastery of the moral and deontological principles of a medical specialist according to the principles of professional subordination;
13. Keep medical documentation;
14. To convey relevant information and explanations in an understandable and appropriate form, for the patient (orally and in writing) with the family and with colleagues and other experts for the purpose of joint participation in the planning and implementation of medical care;
15. Be guided by the current legislation of Ukraine on health care and regulatory legal acts that determine the activities of management bodies and health care institutions.

3. Content and logistics of the discipline

Module 1. "Internal Medicine" Content modules 7	XI/XII semestr 345 hours/ 11,5 Credits	Practical training №№ 1-34 Topics for self-study №№ 1-5
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The discipline includes 34 topics, which are divided into 1 module.

Module 1. "Internal Medicine"

Content module 1. Management of patients with basic symptoms and syndromes in the cardiology clinic

- Topic 1. Management of a patient with hypertension..
- Topic 2. Management of a patient with chronic chest pain.
- Topic 3. Management of a patient with acute chest pain.
- Topic 4. Management of a patient with cardiac arrhythmia.
- Topic 5. Management of a patient with impaired cardiac conduction..
- Topic 6. Management of a patient with edema syndrome.
- Topic 7. Management of a patient with CHF.
- Topic 8. Management of a patient with heart murmur.
- Topic 9. Management of a patient with pulmonary hypertension.

Content module 2. "Management of patients with main symptoms and syndromes in the rheumatology clinic"

- Topic 10. Management of a patient with back and limb pain, joint syndrome.
- Topic 11. Management of a patient with fever.

Content module 3. "Management of patients with basic symptoms and syndromes in the gastroenterology clinic"

- Topic 12. Management of a patient with dysphagia and heartburn.
- Topic 13. Management of a patient with functional dyspepsia.
- Topic 14. Management of a patient with abdominal pain.
- Topic 15. Management of a patient with diarrhea.
- Topic 16. Management of a patient with constipation.
- Topic 17. Management of a patient with jaundice.
- Topic 18. Management of a patient with hepatomegaly and hepatolienal syndrome.

Topic 19. Management of a patient with portal hypertension and ascites.

Content module 4. "Management of patients with main symptoms and syndromes in the pulmonology clinic"

Topic 20. Management of a patient with pulmonary infiltrate.

Topic 21. Management of a patient with a chronic cough.

Topic 22. Management of a patient with broncho-obstructive syndrome.

Content module 5. "Management of patients with basic symptoms and syndromes in the nephrology clinic"

Topic 23. Management of a patient with urinary and nephrotic syndrome.

Topic 24. Management of a patient with chronic kidney disease.

Content module 6. "Management of patients with basic symptoms and syndromes in the hematology clinic"

Topic 25. Management of a patient with anemia, hemorrhagic syndrome.

Content module 7. "Emergencies in the clinic of internal medicine"

Topic 26. Treatment of a patient with a hypertensive crisis.

Topic 27. Treatment of a patient with acute coronary syndrome.

Topic 28. Treatment of a patient with pulmonary embolism.

Topic 29. Treatment of a patient with acute heart failure.

Topic 30. Curation of a patient with fainting.

Topic 31. Treatment of a patient with paroxysmal heart rhythm disorders.

Topic 32. Treatment of a patient with hematemesis, melena.

Topic 33. Curation of a patient with a coma.

Topic 34. Treatment of a patient with shock.

Topic 35. Differentiated credit.

The student's independent work involves preparation for practical classes, study of topics for independent extracurricular work, preparation of presentations, tables. Control of mastering the topics of independent extracurricular work is carried out during practical classes on the discipline and final controls of each module.

Individual work includes researching scientific literature, preparing reviews on the given topics for presentation at meetings of the student scientific circle, performing scientific and practical research, participation in professional Olympiads, scientific and practical conferences, competitions of student scientific works.

Calendar plans of practical classes, thematic plan of independent extracurricular work, scope and directions of individual work are published on the website of the department.

The route of obtaining materials: Department of Internal and Family Medicine /Students/Full-time education/Medicine/6 course/Educational and methodological materials/ or via the link [https://www.vnmu.edu.ua/Department of Internal and Family Medicine](https://www.vnmu.edu.ua/Department%20of%20Internal%20and%20Family%20Medicine). Access to the materials is carried out from the student's corporate account s000XXX@vnmu.edu.ua.

4. Форми та методи контролю успішності навчання

Current control in practical classes	Methods: individual oral or written survey; electronic survey, solving typical situational problems; interpretation and evaluation of laboratory and instrumental research results; verification of the performance of independent work; control of practical skills during patient examination; test tasks with the choice of the correct answer.
Final control at the end of the discipline (differential assessment)	individual oral or written survey; electronic survey, solving typical situational problems; interpretation and assessment the results of laboratory and instrumental

	research, test tasks with the choice of the correct answer (according to the regulations on the organization of the educational process at M.I.Pyrogov VNMU (link https://www.vnmua.edu.ua/General information/Main documents)
Means of diagnostics of learning success	Theoretical questions, tests, clinically-oriented situational tasks, practical tasks, demonstration of practical skills, interpretation of laboratory and instrumental studies of the heart.

5. Evaluation criteria

Assessment of knowledge is carried out in accordance with the Regulation on the organization of the educational process at VNMU named after E. Pirogov (link [https://www.vnmua.edu.ua/General information/Main documents](https://www.vnmua.edu.ua/General%20information/Main%20documents))

Current control	According to the four-point system of traditional evaluations: 5 "excellent", 4 "good", 3 "satisfactory", 2 "unsatisfactory"
Control of practical skills	According to the four-point system of traditional evaluations
Final control of discipline	Current academic performance - from 72 to 120 points (conversion of the average traditional grade for practical classes on a 120-point scale): 60% of the grade for the discipline Final control - from 50 to 80 points: 40% of the grade for the discipline Individual work - from 6 to 12 points Total from 122 to 200 points.
Evaluation of discipline:	Current academic performance - from 72 to 120 points (conversion of the average traditional grade for practical classes on a 120-point scale): 60% of the grade for the discipline Final control - from 50 to 80 points: 40% of the grade for the discipline Individual work - from 6 to 12 points Total from 122 to 200 points.

Discipline assessment scale: national and ECTS

The sum of points for all types of educational activities	Rating ECTS	Evaluation on a national scale	
		for an exam, course project (work), practice	for credit
180-200	A	perfectly	passed
170-179,99	B	fine	
160-169,99	C		
141-159,99	D	satisfactorily	
122-140,99	E	satisfactorily	

0-121,99	FX	unsatisfactory with the possibility of reassembly	not passed with the possibility of retaking
	F	unsatisfactory with mandatory restudy of the discipline	not passed with mandatory repeated study of the discipline

5. Policy of academic discipline/course

The student has the right to receive high-quality educational services, access to modern scientific and educational information, qualified advisory assistance during the study of the discipline and mastery of practical skills. The policy of the department during the provision of educational services is student-centered, based on the regulatory documents of the Ministry of Education and the Ministry of Health of Ukraine, the university charter and the procedure for providing educational services, regulated by the basic provisions of the organization of the educational process at National Pirogov Memorial Medical University, Vinnytsya

Compliance with the rules of the National Pirogov Memorial Medical University, Vinnytsya **routine**, safety techniques at practical classes. Instruction on occupational health and safety with students during labor and professional training in health care institutions is conducted by the head of the institution's structural division or the student's direct supervisor. At the first practical session, the teacher, in accordance with the requirements of the Job Description, conducts an instruction on labor protection issues, including the rules of sanitary and hygienic, epidemiological regime.

Вимоги щодо підготовки до практичних занять.

The student must come to the practical session theoretically prepared according to the topic.

You must come to class on time, without being late. A student who is late for class by more than 10 minutes is not allowed to attend the last class and must complete it in the prescribed manner.

During practical classes, the student must be dressed in a work uniform (medical gown or medical suit, medical cap and change of shoes), which must look appropriate. Students who do not have a working uniform are not allowed to participate in practical classes.

The student must observe the safety rules during practical classes and while staying in the premises of the department at the medical institution

During the practical session, students must demonstrate tolerance, courtesy and respect for the teacher and their colleagues. The student's workplace when performing practical tasks, the workplace must be kept in order and cleaned after the end of the lesson.

Use of mobile phones and other electronic devices. The use of mobile phones and other electronic devices in class is allowed only during electronic testing or surveys.

Academic integrity. While studying the discipline, the student must be guided by the Code of Academic Integrity of National Pirogov Memorial Medical University, Vinnytsya

([https://www.vnmu.edu.ua/ general information/ Basic documents/ Code of academic integrity](https://www.vnmu.edu.ua/general-information/Basic-documents/Code-of-academic-integrity). In case of violation of the norms of academic integrity during the current and final controls, the student receives a grade of "2" and must work it out to his teacher in the prescribed manner within two weeks after receiving an unsatisfactory grade).

Skipping classes. Missed classes are made up in accordance with the procedure established in the Regulations on the Organization of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya (link [https://www.vnmu.edu.ua/ General information/Basic documents](https://www.vnmu.edu.ua/General-information/Basic-documents)) at the time determined by the practice schedule (published on the website of the department [https://www.vnmu.edu.ua/ department of internal and family medicine](https://www.vnmu.edu.ua/department-of-internal-and-family-medicine)) the next teacher. In order to make up for the missed class, the student must orally or in writing answer questions on the topic of the class.

The procedure for admission to the final discipline control is given in the Regulations on the Organization of the Educational Process at VNMU named after E. Pirogov (link [https://www.vnmu.edu.ua/ General information/Main documents](https://www.vnmu.edu.ua/General%20information/Main%20documents)). Students who have not missed unworked practical classes and received an average traditional grade of at least "3" are admitted to the final examination.

Additional individual points. Individual points in the discipline (from 6 to 12) a student can receive for individual work, the scope of which is published on the website of the department in the teaching and methodical materials of the discipline, the number of points is determined by the results of the IRS according to the Regulations on the Organization of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya (link [https://www.vnmu.edu.ua/ General information/Basic documents](https://www.vnmu.edu.ua/General%20information/Basic%20documents)).

Resolution of conflict issues. In the event of misunderstandings and claims against the teacher due to the quality of educational services, knowledge assessment and other conflict situations, the student must first notify the teacher of his/her claims. If the conflict issue is not resolved, the student has the right to submit an appeal to the head of the department in accordance with the Regulation on consideration of appeals by applicants for higher education at National Pirogov Memorial Medical University, Vinnytsya ([https://www.vnmu.edu.ua/ General information/Main documents](https://www.vnmu.edu.ua/General%20information/Main%20documents)).

Policy in the conditions of distance learning. The distance learning procedure is regulated by the Regulation on the introduction of elements of distance learning at National Pirogov Memorial Medical University, Vinnytsya ([https://www.vnmu.edu.ua/ General information/Main documents](https://www.vnmu.edu.ua/General%20information/Main%20documents)). The main training platforms for conducting training sessions are Microsoft Team, Google Meets. The procedure for conducting practical classes, exercises and consultations during distance learning is published on the website of the department ([https://www.vnmu.edu.ua/ department of internal and family medicine/ To the student](https://www.vnmu.edu.ua/department%20of%20internal%20and%20family%20medicine/To%20the%20student) or [https://www.vnmu.edu.ua / Department of Internal and Family Medicine / News](https://www.vnmu.edu.ua/Department%20of%20Internal%20and%20Family%20Medicine/News)).

Feedback with the teacher is carried out through messengers (Viber, Telegram, WhatsApp) or e-mail (at the choice of the teacher) during working hours.

1. Educational resources

Educational and methodological support of the discipline is published on the website of the department ([https://www.vnmu.edu.ua/ department of internal and family medicine / To the student](https://www.vnmu.edu.ua/department%20of%20internal%20and%20family%20medicine/To%20the%20student)). Consultations are held twice a week according to the consultation schedule.

2. The schedule and distribution of groups by teachers is published on the website of the department (([https://www.vnmu.edu.ua/ department of internal and family medicine / To the student](https://www.vnmu.edu.ua/department%20of%20internal%20and%20family%20medicine/To%20the%20student))).

3. Questions for the final examinations of the discipline are published on the website of the department (([https://www.vnmu.edu.ua/ department of internal and family medicine / To the student](https://www.vnmu.edu.ua/department%20of%20internal%20and%20family%20medicine/To%20the%20student))).

The syllabus for the discipline "Internal Medicine" was discussed and approved at the meeting of the Department of Internal Medicine and Family Medicine (protocol No. 1, dated August 28, 2022

Responsible for the course _____
(signature)

, Associate Professor Chernova I.V.

Head of Department _____
(signature)

MD, Professor Paliy I.G