

National Pirogov Memorial Medical University, Vinnytsya

“APPROVE ”

Vice – Rector of higher education institution
Research, Education and Academic Affairs

professor of HEI Oksana
SEREBRENNIKOVA

“31” 08 2022 year

“ AGREED ”

Head of Department of internal
medicine №2

professor of HEI Serhii SHEVCHUK

“30” 08 2022 year

SYLLABUS
academic discipline
"INTERNAL MEDICINE"

Specialty	222 Medicine
Educational level	Master's degree
Educational program	OPP "Medicine", 2021
Academic year	2022-2023
Chair	Internal Medicine No. 2
Lecturer	Professor of HEI Serhii SHEVCHUK, Ass-professor of HEI Lyubov MARYNYCH., Ass-professor of HEI Dmytro LYSENKO, Ass-professor of HEI Yuliya SEHEDA, Ass. of HEI Lyudmila Denischych, Ass. of HEI Svitlana Bondarchuk
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Compiler of the syllabus	Ass-professor of HEI Olena KOROBKO

1. Status and structure of the discipline

Discipline status	Mandatory
Code of discipline in OPP and place of discipline in OPP	OK 28, a component of the cycle of disciplines of general training
Course/semester	5th year (IX-X semesters)
Scope of the discipline (total number of hours/ number of ECTS credits)	150 hours / 5.0 ECTS credits
The structure of the discipline	Lectures - 22 hours Practical classes - 98 hours Independent work - 30 hours In general: classroom classes - 80%, independent work outside the classroom - 20%
Number of content modules	3
Language of teaching	Ukrainian
Form of education	Full-time (when implementing quarantine measures and security measures in connection with the introduction of martial law - remote)

2. Description of the discipline

Short abstract of the course, relevance. The subject area of the program is the study of the basics of internal medicine according to its main sections, while the emphasis is on the study of etiology, pathogenesis, clinic, diagnosis, treatment and prevention of the main and most common diseases of internal organs, gaining knowledge from such sections as cardiology, rheumatology, hematology, the formation of practical skills and abilities: taking anamnesis, conducting an objective examination of patients, drawing up an examination plan, interpreting the results obtained during the examination, prescribing treatment according to modern standards and developing measures to prevent diseases of the cardiovascular, musculoskeletal system, and blood and hematopoietic organs.

Prerequisites.

The study of the discipline "internal medicine" is based on knowledge of the main natural and scientific disciplines: human anatomy, medical biology, histology, cytology and embryology, pathomorphology, physiology, pathophysiology, medical and pathological physics, bioorganic and biological chemistry, microbiology, virology and immunology, pharmacology, clinical pharmacology and clinical pharmacy, radiology and radiation medicine, propaedeutics of internal medicine and integrates with these disciplines.

The purpose of the course and its importance for professional activity. The purpose of the discipline is to acquire and deepen knowledge, skills, and other competencies in internal medicine necessary for professional activity, which are established on the basis of the specialist's educational and professional program.

Post-requisites.

In the process of studying the discipline, the foundations are laid for students to study internal medicine, which involves the integration of teaching with endocrinology, phthisiology, clinical immunology, infectious diseases, surgery, obstetrics and gynecology, oncology and the application of knowledge from the above disciplines in the process of further education and in professional activities.

3. Learning outcomes.

After successfully studying the discipline, the applicant has:

1. Skills of interviewing a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems.
2. The ability to determine the necessary list of laboratory and instrumental studies and evaluate their results in a patient with pathology of the cardiovascular, musculoskeletal, and hematopoietic systems.
3. The ability to establish a preliminary and clinical diagnosis for a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems.

4. The ability to determine the necessary regime of work and rest in the treatment of diseases of the cardiovascular, musculoskeletal and hematopoietic systems.
5. The ability to determine the nature of nutrition in the treatment of diseases of the cardiovascular, musculoskeletal and hematopoietic systems.
6. Ability to determine the principles and nature of treatment of diseases of the cardiovascular, musculoskeletal and hematopoietic systems.
7. The ability to diagnose emergency conditions in patients with pathologies of the cardiovascular, musculoskeletal and hematopoietic systems.
8. The ability to determine the tactics of providing emergency medical care to a patient with pathology of the cardiovascular, musculoskeletal, and hematopoietic systems.
9. Skills of providing emergency medical care to a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems.
10. Skills in performing medical manipulations of a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems.
11. The ability to determine the management tactics of a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems, subject to dispensary supervision.
12. The ability to conduct an examination of the working capacity of a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems.
13. Ability to maintain medical documentation of a patient with pathology of the cardiovascular, musculoskeletal and hematopoietic systems.

4. Content and logistics of the discipline

Module 2. Internal medicine	9-10 semester 150 hours/5.0 credits	Lectures No. 1-11 Practical classes No. 1-53 Topics for independent processing No. 1-4 _____
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The discipline includes 31 topics, which are divided into 3 content modules.

Content module #1. Basics of diagnosis, treatment and prevention of the main diseases of the circulatory system

Topic 1. Main symptoms of cardiac pathology and research methods in cardiology.

Topic 2. Essential arterial hypertension (hypertensive disease).

Topic 3. Secondary (symptomatic) hypertension.

Topic 4. Atherosclerosis.

Topic 5. Acute coronary syndromes.

Topic 6. Coronary heart disease (CHD): acute myocardial infarction.

Topic 7. Chronic forms of CHD.

Topic 8. Congenital heart defects.

Topic 9. Acquired heart defects.

Topic 10. Infective endocarditis.

Topic 11. Myocarditis and cardiomyopathies.

Topic 12. Pericarditis.

Topic 13. Pulmonary hypertension and thromboembolism of the pulmonary artery and pulmonary heart.

Topic 14. Heart failure.

Topic 15. Heart rhythm disorders. Training under the SKIF program.

Topic 16. Disturbance of conductivity. Training under the SKIF program.

Content module 2. Basics of diagnosis, treatment and prevention of the main diseases of the musculoskeletal system and connective tissue

Topic 17. Rheumatic fever.

Topic 18. Rheumatoid arthritis.

Topic 19. Systemic diseases of connective tissue.

Topic 20. Systemic vasculitis.

Topic 21. Osteoarthritis.

Topic 22. Ankylosing spondylitis.

Topic 23. Reactive arthropathies.

Topic 24. Gout.

Content module 3. Basics of diagnosis, treatment and prevention of the main diseases of the blood and hematopoietic organs

Topic 25. Hemophilia and thrombocytopenic purpura

Topic 26. Anemia

Topic 27. Acute leukemias

Topic 28. Chronic leukemias

Topic 29. Curation and protection of medical history.

Topic 30. Control of practical skills

Topic 31. Computer test control.

The topics of the lecture course reveal the problematic issues of the relevant sections of internal medicine.

Practical classes involve theoretical substantiation of the main issues of the topic and the acquisition of the following practical skills:

1) conducting a survey of a patient with diseases of internal organs, conducting a clinical examination, prescribing an examination plan and interpreting the obtained results of laboratory and instrumental studies, determining the leading syndrome of the disease, the ability to establish a clinical diagnosis according to modern classifications of diseases of internal organs, carry out a differential diagnosis with other diseases, prescribe treatment and preventive measures;

2) solving situational problems in internal medicine, which have a clinical and diagnostic direction.

In practical classes, students analyze the subject of the practical class, conduct a clinical examination of the thematic patient, and solve clinically-oriented situational problems and test problems.

The student's independent work involves preparing for practical classes and developing practical skills, studying topics for independent extracurricular work, preparing presentations, tables, studying scientific literature and writing reviews on the given topics for individual work. Control of learning the topics of independent work outside the classroom is carried out at the final control of the discipline.

Thematic plans of lectures, 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 receiving materials: Department of Internal Medicine No. 2/Student/Full-time study/Medicine/5th year/Educational and methodological materials/ or via the link [https://www.vnmue.edu.ua/Department of Internal Medicine #2#](https://www.vnmue.edu.ua/Department%20of%20Internal%20Medicine%20#2#): Access to the materials is carried out from the student's corporate account s000XXX@vnmue.edu.ua.

5. Forms and methods of monitoring learning success

Current control in practical classes	Methods: oral or written survey, testing, electronic survey, solving situational problems, conducting a clinical examination of the thematic patient to determine the examination and treatment plan.
Final semester control (credit) at the end of the 7th semester	According to the regulations on the organization of the educational process at M.I. Pirogov VNMU (link https://www.vnmue.edu.ua/Yamschenkainformation/Maindocuments)
The final control of the discipline is an exam	Methods: pre-examination testing, oral interview (according to the regulations on the organization of the educational process at M.I. Pirogov VNMU (link https://www.vnmue.edu.ua/Yamschenkainformation/Maindocuments))
Means of diagnostics of learning success	Theoretical questions, tests, clinically-oriented situational tasks, practical tasks, demonstration of practical skills

6. Evaluation criteria

Assessment of knowledge is carried out in accordance with the Regulation on the organization of the educational process at M.I. Pirogov VNMU ([linkhttps://www.vnmuet.edu.ua/Yamschenkainformation/Main documents](https://www.vnmuet.edu.ua/Yamschenkainformation/Main documents))

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
Test	On a 200-point scale (the average arithmetic grade for the semester is converted into points) Scored: from 120 to 200 points Not counted: less than 120 points (see Grading scale)
Final control of discipline	Sum of points for pre-examination testing (6-15 points), medical history defense (6-10 points), practical skills (8-10 points) and oral interview (30-45 points). Exam grade: 71-80 points - "excellent" 61-70 points - "good" 50-60 points - "satisfactory" Less than 50 points - "not satisfactory"/failed
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 1 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	ECTS assessment	Evaluation on a national scale	
		for an exam, course project (work), practice	for credit
180-200	AND	perfectly	counted
170-179.9	IN	fine	
160-169.9	WITH		
141-159.9	D	satisfactorily	
122-140.99	IS	satisfactorily	-
120-140.99	IS	-	counted
119-61	FX	unsatisfactory with the possibility of reassembly	not counted with the possibility of retaking
1-60	F	unsatisfactory with mandatory repeated study of the discipline	not enrolled with mandatory repeated study of the discipline

Criteria for evaluating student knowledge

Evaluation of oral/written response during ongoing control

Excellent rating is presented to a student who has deeply and comprehensively mastered the theoretical material, competently and logically teaches it. He can freely use Latin terminology, clearly answers non-standard questions on the topic of the lesson, knows how to connect the material of this topic with previously studied sections, which indicates mastery of the recommended literature and the ability to analyze the studied material, and also clearly demonstrates the value of the acquired theoretical knowledge for practical of medicine

Rating "good" presented to a student who knows and has a good command of the theoretical material, teaches it competently, does not allow inaccuracies in the answer, knows how to reveal the topic from the standpoint of its medical significance and practical application, but at the same time the answers do not go beyond the textbook and methodical recommendations.

Rating "satisfactory" is given to a student who knows the basic concepts and definitions of the studied topic, but makes significant inaccuracies or has difficulties in formulating an answer, does not understand the medical aspects of the topic, cannot connect theoretical material with practice.

Rating "unsatisfactory" is presented to a student who does not know the theoretical foundations of the topic, makes gross mistakes when answering, does not understand basic concepts and definitions, cannot explain the meaning of theoretical material for practical medicine.

Evaluation of the performance of practical skills during the current control

Excellent ratings is presented to a student who, knowing the course and sequence of independent educational and research work for the performance of a practical task, searches for optimal options for making a diagnosis and prescribing a plan for the examination and treatment of a patient with diseases cardiovascular, musculoskeletal system, blood and hematopoietic organs.

Rating "good" is issued to a student who makes inaccuracies when making a diagnosis and prescribing a plan for the examination and treatment of a patient with diseases cardiovascular, musculoskeletal system, blood and hematopoietic organs, but is able to independently identify the mistakes made and can demonstrate the implementation of practical skills in general.

Rating "satisfactory" is given to a student who knows the basics of a practical task, but experiences difficulties when performing a microbiological study, cannot demonstrate a complete and correct sequence of practical skills, cannot fully interpret the results of the conducted studies, sloppily draws up the protocol.

Rating "unsatisfactory" is issued to a student who cannot make a diagnosis and prescribe a plan of examination and treatment of a patient with diseases cardiovascular, musculoskeletal system, blood and hematopoietic organs.

Evaluation of the performance of test tasks during the current control

Excellent ratings is issued to a student who, during the test control, allows no more than 10% of incorrect answers (the amount of correct answers is 90-100%). When solving clinically oriented test tasks, provides correct answers to all test questions.

Rating "good" is issued to a student who makes no more than 20% mistakes during test control. (the amount of correct answers is 80-89%). When solving clinically oriented test tasks, provides correct answers to most of the test questions.

Rating "satisfactory" is awarded to a student who makes mistakes in no more than 40% of test tasks (the amount of correct answers is 60.5-79%). When solving clinically-oriented test tasks, he gives correct answers only to some questions before the test.

Rating "unsatisfactory" is issued to a student who correctly solves less than 60% of the test tasks during the test survey. When solving clinically oriented test tasks, he cannot provide correct answers to the test questions.

Evaluation of the oral answer during the final control (exam)

Excellent ratings is presented to the student who correctly and in a logical sequence provides answers to the questions of the examination ticket. During the answer, the student demonstrates the ability to analyze theoretical material, makes reasonable conclusions about the significance of theoretical material for practical medicine, provides clear and correct answers to additional non-standard questions, can explain how the diagnosis and prevention of a certain disease of internal organs is practically carried out, knows the principles of its treatment.

Rating "good" presented to a student who has a good command of the theoretical material and provides answers to the questions on the exam ticket in a logical sequence, but admits minor inaccuracies, which he quickly corrects when answering the examiner's clarifying questions.

When answering questions, he can explain how a certain disease is diagnosed and prevented, knows the principles of its treatment.

Rating "satisfactory" is issued to a student who demonstrates knowledge of basic concepts and definitions when answering questions on the exam ticket, makes significant inaccuracies or has difficulties in answering questions, cannot sufficiently explain the principles of diagnosis, prevention and treatment of the disease, makes inaccuracies when answering the examiner's clarifying questions.

Rating "unsatisfactory" is issued to a student who does not know the answer to one of the questions on the exam ticket, makes gross mistakes when answering the question, cannot explain basic concepts and definitions, does not know the principles of diagnosis, prevention and treatment of the disease, does not know the answer to additional clarifying questions of the examiner.

The calculation of individual points is carried out on the basis of the Regulation on the organization of the educational process at the M.I. Pirogov Vinnytsia National Medical University (Vinnytsia, 2020). (link [https://www.vnmu.edu.ua/General information/Main documents](https://www.vnmu.edu.ua/General%20information/Main%20documents))

12 points- are added to the grade in the discipline of a student who received a prize at an inter-university Olympiad in a discipline or a prize at an All-Ukrainian competition of student scientific works or a prize at an inter-university/international scientific conference with the presence of a printed work

11 points- are added to the evaluation of the discipline of a student who received 1st place at the intra-university Olympiad in the discipline or 1st place at the student scientific conference with the presence of a printed work, or participated in the All-Ukrainian competition of student scientific works

10 points- are added to the evaluation of the discipline of a student who received a prize (II-III) at an intramural Olympiad in the discipline or at a student scientific conference with the presence of a printed work; or for participation (without a prize place) in interuniversity Olympiads in the discipline or a prize place at an interuniversity/international scientific conference with the presence of a printed work.

9 points- are added to the grade for the discipline of a student who participated (without a prize) in an intramural Olympiad in the discipline or a student scientific conference with the presence of a printed work

8 points- are added to the grade for the discipline of a student who actively participated in the work of a student scientific group, published a printed work based on the results of scientific and practical research, but did not personally participate in a student scientific conference, prepared a poster report.

6-7 points- are added to the evaluation of the discipline for a student who produced at least 20 micropreparations or at least 3 tables, or an educational video to supplement the visual support for teaching the discipline (taking into account the scope and importance of the work performed).

3-5 points are added to the grade for the discipline of a student who has produced at least 10 micropreparations or at least 2 tables, or has created a thematic illustrated presentation of a specific causative agent of an infectious disease (at least 2) to supplement visual support for teaching the discipline (taking into account the scope and importance of the work performed).

7. Academic discipline/course policy

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 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 M.I. Pirogov VNMU and the principles of academic integrity

Observance of the rules of procedure of the VNMU, safety equipment in practical classes. Instruction on safety techniques when working with medical devices, safety of handling in the conditions of the hospital of the clinical base is conducted at the first practical session by the

teacher. Requirements for preparation for practical classes. The student must be prepared for the practical session, the test tasks for the current topic must be solved in the workbook. You should come to class on time, without being late. A student who is more than 10 minutes late for class 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 work uniform (medical gown, cap, change of shoes, mask if necessary). Students who do not have a working uniform are not allowed to attend classes.

The student must observe safety rules during practical classes and during his stay in the premises of the department.

During the discussion of theoretical issues, students should demonstrate tolerance, courtesy and respect for their colleagues and the teacher; 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 M.I. Pyrogov VNMU (<https://www.vnmdu.edu.ua/general-information/Main-documents/Code-of-academic-integrity>). If the norms of academic integrity are violated during the current and final examinations, 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 M.I. Pyrogov VNMU ([link https://www.vnmdu.edu.ua/General-information/Basic-documents](https://www.vnmdu.edu.ua/General-information/Basic-documents)) at the time determined by the practice schedule (published on the website of the department [https://www.vnmdu.edu.ua/Department of Internal Medicine No. 2#](https://www.vnmdu.edu.ua/Department-of-Internal-Medicine-No.-2#)) to the regular teacher. In order to make up for the missed class, the student must answer questions on the subject of the class in writing or orally. Workup of missed lectures is carried out after providing a synopsis of the lecture material, or writing an informative message or preparing your own presentation on the topic of the missed lecture.

The procedure for admission to the final control from the discipline given in the Regulation on the organization of the educational process at M.I. Pyrogov VNMU ([link https://www.vnmdu.edu.ua/General-information/Main-documents](https://www.vnmdu.edu.ua/General-information/Main-documents)). Students who have not missed unworked practical classes and lectures and have received an average traditional grade of at least "3" are admitted to the final examination.

Additional individual points. A student can receive individual points from a discipline for individual work, the amount of which is published on the department's website in the teaching and methodical materials of the discipline, the number of points is determined based on the results of the IRS according to the Regulations on the Organization of the Educational Process at M.I. Pyrogov VNMU ([link https://www.vnmdu.edu.ua/General-information/Main-documents](https://www.vnmdu.edu.ua/General-information/Main-documents)).

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 M.I. Pyrogov VNMU (<https://www.vnmdu.edu.ua/General-information/Main-documents>).

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 M.I. Pyrogov VNMU (<https://www.vnmdu.edu.ua/General-information/Main-documents>). The main training platforms for conducting training sessions are Microsoft Team, Google Meets. The procedure for conducting practical classes and lectures, exercises and consultations during distance learning is published on the web page of the department ([https://www.vnmdu.edu.ua/Department of Internal Medicine No. 2/](https://www.vnmdu.edu.ua/Department-of-Internal-Medicine-No.-2/) To the student or [https://www.vnmdu.edu.ua/Department of Internal Medicine No. 2/News](https://www.vnmdu.edu.ua/Department-of-Internal-Medicine-No.-2/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.

8. **Educational resources** Educational and methodological support of the discipline is published on the website of the department. The route of receiving materials <https://www.vnmu.edu.ua/Department of Internal Medicine No. 2/ To the student>.

1) Basic literature:

- 2) 30 невідкладних станів у терапії: Навчальний посібник / За ред. проф. Ю.М. Мостового. – Київ: Центр ДЗК, 2017 – 128 с.
- 3) Внутрішні хвороби. у 2 т. Т. 1 / Л.В.Глушко, С.В.Федоров, І.М. Скрипник, М.М. Островський/ За ред. проф. Л.В.Глушка. – К.: ВСВ «Медицина», 2019. – 680 с.
- 4) Внутрішні хвороби: Підручник, заснований на принципах доказової медицини 2018/19 / Керівник проекту Александра Кубец, гол. ред. Адріана Яремчук-Кочмарик, Анатолій Свінцицький; пер. з польск. – Краків: Практична медицина, 2018. – 1632 с.
- 5) Внутрішня медицина: ревматологія: навчальний посібник / В.Є. Кондратюк, М.Б. Джус. - К.: ВСВ «Медицина», 2017. - 272 с.
- 6) Воронков Л.Г. Рекомендації Української асоціації кардіологів з діагностики, лікування та профілактики хронічної серцевої недостатності у дорослих, 2019.
- 7) Гастроентерологія. Підручник: У 2 Т. - Т.1 / за ред. проф Н.В Харченко., О.Я. Бабака. - Кіровоград: Поліум, 2016. - 488 с.
- 8) Денесюк В.І., Денесюк О.В. Внутрішня медицина. Підручник для студентів закладів вищої освіти III-IV рівня акредитації та лікарів післядипломної освіти на основі рекомендацій доказової медицини / За ред. В.М. Коваленка.– К.: МОРІОН, 2019. – 960с.
- 9) Денесюк В.І., Мороз В.М., Денесюк О.В. Аритмії та блокади серця: 30-річний науково-практичний досвід вивчення порушень ритму серця з урахуванням рекомендацій доказової медицини; Практичне керівництво / Київ: Центр ДЗК, 2017 – 560 с.
- 10) Електронний документ «Адаптована клінічна настанова, заснована на доказах. Osteoartrроз», 2016.
- 11) Клінічні протоколи надання медичної допомоги. Медицина невідкладних станів : [зб. док.] / Департамент охорони здоров'я викон. органу Київ. міськради (Київ. міськдержадмін.), Київ. міськ. наук. інформ.-аналіт. центр мед. статистики ; [відп. ред. Т. В. Марухно]. - Київ : МНІАЦ мед. статистики : Медінформ, 2015. - 273 с. : рис., табл. - (Нормативні директивні правові документи)
- 12) Наказ Міністерства охорони здоров'я України 15.06.2016 №597 Уніфікований клінічний протокол первинної, вторинної (спеціалізованої) та третинної (високоспеціалізованої) медичної допомоги при фібриляції передсердь.
- 13) Наказ Міністерства охорони здоров'я України 12.05.2016 № 439 Уніфікований клінічний протокол первинної, вторинної (спеціалізованої), третинної (високоспеціалізованої) медичної допомоги Хронічний лімфоїдний лейкоз.
- 14) Наказ МОЗ України від 02.03.2016 №152 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги при стабільній ішемічній хворобі серця». Уніфікований клінічний протокол екстреної, первинної, вторинної (спеціалізованої) та третинної (високоспеціалізованої) медичної допомоги «Стабільна ішемічна хвороба серця».
- 15) Наказ МОЗ України від 02.11.2015 №709 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги при залізодефіцитній анемії». Уніфікований клінічний протокол первинної та вторинної (спеціалізованої) медичної допомоги «Залізодефіцитна анемія».
- 16) Наказ МОЗ України від 02.11.2015 №710 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги при множинній мієломі». Уніфікований клінічний протокол первинної, вторинної (спеціалізованої), третинної (високоспеціалізованої) медичної допомоги «Множинна мієлома».

- 17) Наказ МОЗ України від 02.11.2015 №711 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги при хронічному мієлоїдному лейкозі». Уніфікований клінічний протокол первинної, вторинної (спеціалізованої), третинної (високоспеціалізованої) медичної допомоги «Хронічний мієлоїдний лейкоз».
- 18) Наказ МОЗ України від 03.03.2016 №164 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги при гострому коронарному синдромі без елевачії сегмента ST» Уніфікований клінічний протокол екстреної, первинної, вторинної (спеціалізованої) та третинної (високоспеціалізованої) медичної допомоги та медичної реабілітації «Гострий коронарний синдром без елевачії сегмента ST».
- 19) Наказ МОЗ України від 05.06.2019 № 1269 «Про затвердження та впровадження медико-технологічних документів зі стандартизації екстреної медичної допомоги» Екстрена медична допомога: догоспітальний етап. Новий клінічний протокол..
- 20) Наказ МОЗ України від 12.05.2016 №439 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги при хронічному лімфоїдному лейкозі». Уніфікований клінічний протокол первинної, вторинної (спеціалізованої), третинної (високоспеціалізованої) медичної допомоги «Хронічний лімфоїдний лейкоз».
- 21) Наказ МОЗ України від 13.06.2016 №564 «Про затвердження та впровадження медико-технологічних документів зі стандартизації медичної допомоги в частині профілактики серцево-судинних захворювань». Уніфікований клінічний протокол первинної, вторинної (спеціалізованої) та третинної (високоспеціалізованої) медичної допомоги «Профілактика серцево-судинних захворювань».
- 22) Наказ МОЗ України від 30.01.2013 N 72 «Про внесення Змін до наказу МОЗ України від 30.07.2010 №647 «Про затвердження клінічних протоколів надання медичної допомоги хворим зі спеціальності «Гематологія»».
- 23) Практичний посібник ACC / АНА / ESC з ведення пацієнтів з шлуночковими аритміями і запобігання раптової серцевої смерті 2015 р.
- 24) Рекомендації EULAR (2019) лікування ревматологічних захворювань (подагри, остеоартриту, ревматоїдного артрити)
- 25) Рекомендації Європейського товариства кардіологів 2015 року щодо діагностики та лікування захворювань міокарда та перикарда //Серце і судини.- 2016. - №1
- 26) Свінцицький А.С. Діагностика та лікування ревматичних захворювань: навчальний посібник / Свінцицький А.С. – Київ: Медкнига. - 2017. – 372 с.
- 27) Свінцицький А. Методи діагностики в клініці внутрішньої медицини / Медицина, 2019. – 1008 с.
- 28) Свінцицький А.С. Діагностика та лікування ревматичних захворювань: навчальний посібник. – Медкнига. – 2017. – 372 с.
- 29) Серцево-судинні захворювання. Класифікація, стандарти діагностики та лікування // За редакцією В.М.Коваленка, М.І.Лутая, Ю.М.Сіренка, О.С.Сичова, 3-тє вид., переробл. і доповн. – К.: Моріон, 2018. – 224 с.
- 30) Суправентрикулярна тахікардія: рекомендації ESC 2019. Brugada J., Katritsis D.G., Arbelo E. et al. (2019) 2019 ESC Guidelines for the management of patients with supraventricular tachycardia. Eur. Heart J., 00: 1–66, doi:10.1093/eurheartj/ehz467.
- 31) Уніфікований клінічний протокол первинної і вторинної (спеціалізованої) медичної допомоги: профілактика серцево-судинних захворювань. Наказ Міністерства охорони здоров'я України 13.06.2016 №564
- 32) Уніфікований клінічний протокол первинної та вторинної (спеціалізованої) медичної допомоги. Залізодефіцитна анемія. Наказ Міністерства охорони здоров'я України 02.11.2015 №709. Перегляд протоколу: вересень 2018 року
- 33) Уніфікований клінічний протокол первинної, вторинної (спеціалізованої) та третинної (високоспеціалізованої) медичної допомоги при легеневій гіпертензії у дорослих. Наказ Міністерства охорони здоров'я України 21.06.2016 № 614

34) Внутрішня медицина Частина 2 Кардіологія. Ревматологія. Гематологія / За ред. проф. Станіславчука М.А., Вінниця: ООО Віницька міська друкарня, 2018.- 520с. (Рекомендовано для використання студентами 5 курсу при підготовці до практичних занять Протокол № 20 від 16.03.2018)

35) Internal medicine: Part 1: textbook for English-speaking students of higher medical schools / edited by Professor M.A. Stanislavchuk and professor V.K. Sierkova. – Vinnytsya: Nova Knyha, 2019. – 408 p. (Рекомендовано для використання студентами 5 курсу при підготовці до практичних занять Протокол № 19 від 22.12.2018)

2) Additional literature:

1. Клінічна гематологія. Частина 1. Анемії : метод. вказ. для студентів і лікарів-інтернів / упоряд. Л. В. Журавльова, О. О. Янкевич. – Харків : ХНМУ, 2015. – 44 с.

2. Очерки клинической пульмонологии [Текст] / Под ред. В. К. Гаврисюка. Киев, 2016. 336 с.

3. Свінціцький А. Методи діагностики в клініці внутрішньої медицини. Медицина, 2019. – 1008 с.

4. Davidson's Principles and Practice of Medicine 23rd Edition. Editors: Stuart Ralston, Ian Penman, Mark Strachan Richard Hobson. Elsevier. - 2018. – 1440p.

5. Посібник з клінічної лабораторної та функціональної діагностики захворювань внутрішніх органів / О. К. Шевчук, О. Л. Старжинська, А. Ф. Гуменюк ; Вінниц. НМУ ім. М.І. Пирогова. — Вінниця, 2013. — 160 с.

6. Впровадження діагностичних, прогностичних та лікувальних шкал з внутрішньої медицини у навчальний процес підготовки студентів та лікарів післядипломної освіти. Навчальний посібник // За редакцією проф. В.І. Денесюка, проф. Р.Г. Процюка. - Київ:Центр ДЗК, 2017 – 168 с.

7. Діагностичні, лікувальні та профілактичні алгоритми з внутрішньої медицини: навчально-методичний посібник. // За редакцією проф. В.І. Денесюка. - Київ:Центр ДЗК, 2015 – 152 с.

8. Диференційний діагноз больового синдрому в грудній клітині : навч. посіб. / [В. О. Малахов та ін.] ; Харків. мед. акад. післядиплом. освіти. - Харків : Щедра садиба плюс, 2015. - 131 с.

9. ЕКГ у практиці = The ECG in Practice = ЭКГ в практике: навчальний посібник / Джон Р. Хемптон Джон Р. Хемптон; за участю Девіда Едлема; наукові редактори перекладу Нестор М. Середюк, Олексій З. Скакун. - «Медицина». – 2018. – 560 с.

10. Катеринчук П. Клінічне тлумачення й діагностичне значення лабораторних показників у загально-лікарській практиці: навчальний посібник. 2-е вид. Київ: Медкнига; 2018. 228 с.

11. Клінічна фармакологія : навч. посіб. / Є. І. Шоріков [та ін.] ; Буковин. ДМУ. – Вінниця : Нова Книга, 2019. – 512 с.

12. Превентивна кардіологія : імплементація міжнародних рекомендацій в Україні.- К.: МОРІОН, 2015. – 104 с.

13. Свінціцький А. С. Методи діагностики в клініці внутрішньої медицини : [навч. посіб. для лікарів-інтернів і студентів мед. закл. вищ. освіти] / А. С. Свінціцький. – Київ : Медицина, 2019. – 1008 с.

3) Electronic resources:

1. National Pirogov Memorial Medical University, Vinnytsya: <http://vnmu.edu.ua>

2. Email address of the website of the university library:<http://library.vnmu.edu.ua>

3. Testing center<https://www.testcentr.org.ua/uk/>

4. Ministry of Health of Ukraine<https://moz.gov.ua/>

5. Public Health Center of the Ministry of Health of Ukraine<https://phc.org.ua/kontrol-zakhvoryuvan>

6. State register of medicineswww.moz.gov.ua

7. Unified patient management protocolswww.moz.gov.ua

8. <https://www.aasld.org/>

9. <http://www.eagen.org/>

10. <http://www.ers-education.org/guidelines.aspx>

11. <https://ehaweb.org/organization/committees/swg-unit/scientific-working-groups/structure-and-guidelines/>
 12. <http://www.gastro.org/guidelines>
 13. www.ginasthma.org
 14. <http://goldcopd.org>
 15. http://www.ifp.kiev.ua/index_ukr.htm
 16. <http://mtd.dec.gov.ua/index.php/uk/>
 17. <https://www.nice.org.uk>
 18. <http://www.oxfordmedicaleducation.com/>
 19. <http://ukrgastro.com.ua/>
 20. <https://www.umj.com.ua/>
 21. Open educational resource Empendium. Access mode: <https://empendium.com/ua/>
 22. Australian Bulletin of Adverse Drug Reactions. <http://www.tga.health.gov.au/adr/aadrb.htm>.
 23. British Monthly Bulletin on the Safety of Medicines. <http://www.mhra.gov.uk/Publications/Safetyguidance/DrugSafetyUpdate/index.htm>.
 24. Interregional society of evidence-based medicine specialists: <http://www.osdm.org/index.php>
 25. Herald of evidence-based medicine: <http://www.evidence-update.ru>
 26. European Society of Clinical Pharmacologists and Pharmacotherapists: <http://www.eacpt.org>
 27. On-line registration of adverse drug reactions on the FDA website. <https://www.accessdata.fda.gov/scripts/medwatch/medwatch-online.htm>.
 28. Pubmed portal: <https://pubmed.ncbi.nlm.nih.gov/>
 29. UpToDate: <https://www.uptodate.com/home>
 30. *British Medical Journal* Learning: <https://new-learning.bmj.com/>
 31. Center for Disease Control: <https://www.cdc.gov/>
 32. Medical calculators: <https://www.mdcalc.com/>
 33. Lubricant index calculator: <https://www.bmi-calculator.net/>
- Lecture presentations, Methodological recommendations for practical classes and SRS, Consultations (twice a week according to the consultation schedule)

9. **Schedule and distribution of groups by teachers** published on the web page of the department ([https://www.vnmue.edu.ua/department of internal medicine No. 2/](https://www.vnmue.edu.ua/department%20of%20internal%20medicine%20No%202) to the student).
10. **Questions about the final control of discipline** published on the web page of the department ([https://www.vnmue.edu.ua/Department of Internal Medicine No. 2/](https://www.vnmue.edu.ua/Department%20of%20Internal%20Medicine%20No%202) To the student).

The syllabus for the discipline "Internal Medicine" was discussed and approved at the meeting of the Department of Internal Medicine No. 2 (protocol No. 1, dated August 30, 2022)

Responsible for the course

(signature)

Ass-professor of HEI Olena KOROBKO

Head of Department

(signature)

Professor of HEI Serhii SHEVCHUK,