

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
"MILITARY THERAPY"

Specialty	222 Medicine
Educational level	Master's degree
Educational program	OPP "Medicine", 2022
Academic year	2022-2023
Chair	Internal Medicine No. 2
Lecturer	Ass-professor of HEI Lyubov MARYNYCH, Ass-professor of HEI Serhii NECHIPORUK.
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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 50.1, a component of the cycle of disciplines of general training
Course/semester	5th year (IX semester)
Scope of the discipline (total number of hours/ number of ECTS credits)	60 hours / 2 ECTS credits
The structure of the discipline	Lectures - 8 hours Practical classes - 30 hours Independent work - 22 hours In general: classroom classes - 63.3%, independent extracurricular work - 36.7%
Number of content modules	1
Language of teaching	Ukrainian
Form of education	Full-time (when implementing quarantine measures or 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 military therapy, while the emphasis is on the study of etiology, pathogenesis, clinic, diagnosis, treatment and prevention of the main diseases of internal organs at the stages of medical evacuation in wartime and peacetime.

Prerequisites.

The study of the discipline "military therapy" 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 diseases of internal organs in wartime and peacetime conditions.

Post-requisites.

In the process of studying the discipline, the foundations are laid for students to study diseases of internal organs in wartime and peacetime conditions, 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 professional activities.

3. Learning outcomes.

After successfully studying the discipline, the applicant has:

1. Skills of interviewing a patient with diseases of internal organs in wartime and peacetime conditions.
2. The ability to determine the necessary list of laboratory and instrumental studies and evaluate their results in a patient with diseases of internal organs in wartime and peacetime conditions.

3. The ability to establish a preliminary and clinical diagnosis of a patient with diseases of internal organs in wartime and peacetime conditions.
4. The ability to determine the necessary regime of work and rest in the treatment of diseases of internal organs in wartime and peacetime conditions.
5. The ability to determine the nature of nutrition in the treatment of diseases of internal organs in wartime and peacetime conditions.
6. Ability to determine the principles and nature of treatment for diseases of internal organs in wartime and peacetime conditions.
7. The ability to diagnose emergency conditions in patients with diseases of internal organs in wartime and peacetime conditions.
8. The ability to determine the tactics of providing emergency medical care to a patient with diseases of internal organs in wartime and peacetime conditions.
9. Skills in providing emergency medical care to a patient in wartime and peacetime conditions.
10. Skills of performing medical manipulations on a patient with diseases of internal organs in wartime and peacetime conditions.
11. The ability to determine the tactics of managing a patient with diseases of internal organs in wartime and peacetime conditions.
12. The ability to conduct an examination of the working capacity of a patient with diseases of internal organs in wartime and peacetime conditions.
13. Ability to maintain medical documentation of a patient with diseases of internal organs in wartime and peacetime conditions.

4. Content and logistics of the discipline

Module 1. Military therapy	9th semester 60 hours/ 2 credits	Lectures No. 1-4 Practical lessons No. 1-15 Topics for independent processing No. 1-4
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The discipline includes 15 topics that make up 1 content module.

Content module

- Topic 1. Organization of therapeutic care in wartime.
- Topic 2. Organization of therapeutic assistance in peacetime emergency situations
- Topic 3. Radiation damage. Pathogenesis of radiation sickness.
- Topic 4. Radiation damage. Clinical characteristics of ionizing radiation.
- Topic 5. Clinical classification of radiation lesions, acute radiation sickness.
- Topic 6. Concept of radiation sickness, provision of medical assistance at the stages of medical evacuation. Acute radiation sickness. Bone-brain form of acute radiation sickness. Clinic, diagnosis.
- Topic 7. Phased treatment of patients with acute radiation sickness. Atypical forms of acute radiation sickness.
- Topic 8. Diseases of internal organs in combat surgical trauma and injuries.
- Topic 9. Diseases of internal organs in the conditions of disasters and peacetime accidents.
- Topic 10. Complications in diseases of internal organs in combat surgical trauma.
- Topic 11. Prevention of complications in diseases of internal organs in combat surgical trauma at different stages of treatment.
- Topic 12. Emergencies, provision of therapeutic assistance in life-threatening conditions at the stages of medical evacuation.
- Topic 13. Exposure to poisonous substances in wartime and peacetime.
- Topic 14. Diseases caused by the action of thermal factors (heat and cold) on the body.
- Topic 15. Differential calculation

The topics of the lecture course reveal problematic issues in the pathology of internal organs in wartime and peacetime conditions.

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 pathology of internal organs in wartime and peacetime conditions, conducting a clinical examination, prescribing an examination and interpreting the obtained results of laboratory and instrumental studies, determining the leading syndrome of the disease, the ability to establish a diagnosis, carry out a differential diagnosis with other diseases, prescribe treatment and carry out preventive measures;

2) solving situational problems with pathologies of internal organs in wartime and peacetime conditions.

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 extracurricular work 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.vnmua.edu.ua/Department of Internal Medicine #2#](https://www.vnmua.edu.ua/Department%20of%20Internal%20Medicine%20#2#). Access to materials is carried out from the student's corporate accounts 000XXX@vnmua.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, prescribing an examination and treatment plan.
The final control of the discipline is a differentiated assessment	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.vnmua.edu.ua/Yamschenkainformation/Main documents)
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
(link [https://www.vnmua.edu.ua/Yamschenkainformation/Main documents](https://www.vnmua.edu.ua/Yamschenkainformation/Main%20documents))

Current control	According to the four-point system of traditional evaluations: 5 "excellent", 4 "good", 3 "satisfactory", 2 "unsatisfactory"
Final control of discipline	Sum of points for pre-examination testing (15-30 points), oral survey (35-50 points) Grade for differential assessment: 71-80 points - "excellent" 61-70 points - "good" 50-60 points - "satisfactory" Less than 50 points - "not satisfactory"/failed

Evaluation of discipline:	<p>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</p> <p>Final control - from 50 to 80 points: 40% of the grade for the discipline</p> <p>Individual work - from 1 to 12 points</p> <p>Total from 122 to 200 points.</p>
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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 test tasks during the current control

Excellent rating 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 (differentiated assessment)

Excellent ratings is given to a student who answers the questions correctly and in a logical sequence. During the answer, demonstrates the ability to analyze theoretical material, makes reasonable conclusions about the value of theoretical material for practical medicine, provides clear and correct answers to additional non-standard questions, can explain how the diagnosis and treatment of diseases of internal organs is practically carried out in wartime and peacetime conditions.

Rating "good" presented to a student who has a good command of the theoretical material and provides answers to questions in a logical sequence, but admits minor inaccuracies, which he quickly corrects when answering the examiner's clarifying questions. Knows the basic principles of diagnosis and treatment of diseases of internal organs at the stages of medical evacuation in wartime and peacetime conditions.

Rating "satisfactory" is presented to a student who, when answering questions, demonstrates knowledge of basic concepts and definitions, makes significant inaccuracies, or has difficulties when answering questions about the diagnosis and treatment of diseases of internal organs at the stages of medical evacuation in wartime and peacetime conditions.

Rating "unsatisfactory" is presented to a student who does not know the answer to any of the questions, makes gross mistakes when answering questions on the diagnosis and treatment of diseases of internal organs at the stages of medical evacuation in wartime and peacetime conditions.

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>)

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 3 tables,

or an educational video to supplement the visual support of 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 made at least 2 tables or created a thematic illustrated presentation (at least 2) to supplement the 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.

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. Pirogov VNMU (<https://www.vnmue.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. Pirogov VNMU (link <https://www.vnmue.edu.ua/General-information/Basic-documents>) at the time determined by the practice schedule (published on the website of the department <https://www.vnmue.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. Pirogov VNMU (link <https://www.vnmue.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 ([linkhttps://www.vnmu.edu.ua/ Generalinformation/Main documents](https://www.vnmu.edu.ua/Generalinformation/Main%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 M.I. Pyrogov VNMU ([https://www.vnmu.edu.ua/ Generalinformation/Main documents](https://www.vnmu.edu.ua/Generalinformation/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 M.I. Pyrogov VNMU ([https://www.vnmu.edu.ua/ Generalinformation/Main documents](https://www.vnmu.edu.ua/Generalinformation/Main%20documents)). 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.vnmu.edu.ua/Department of Internal Medicine No. 2/ To the student orhttps://www.vnmu.edu.ua/of internal medicine No. 2/ News](https://www.vnmu.edu.ua/Department%20of%20Internal%20Medicine%20No.%202/To%20the%20student%20orhttps://www.vnmu.edu.ua/of%20internal%20medicine%20No.%202/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](https://www.vnmu.edu.ua/Department%20of%20Internal%20Medicine%20No.%202/To%20the%20student).

1) Basic literature:

1. Осьодло Г. В., Верба А. В., Козачок М. М., Бойчак М. П. та ін. Воєнно-польова терапія: підручник / за ред. Осьодло Г. В., Верби А. В. – К.: СПД Чалчинська Н. В., 2017. – 620 с.
2. Мясников Г. В. Керівництво з воєнно-польової терапії: спеціальна частина. – К.: ВМД, 2015. – 256 с.
3. Організація надання невідкладної медичної допомоги у військових частинах (закладах) Збройних Сил України: Методичні рекомендації / 2-е вид., перероб. і доп. [Автори...]; ВМД Міністерства оборони України. – К.: УВМА, 2014. – 144 с.

2) Additional literature:

1. В. Г., Прістер Б. С., Омелянець М. І. Радіо-біофізичні та медико-біохімічні наслідки Чорнобильської катастрофи: шляхи пізнання та подолання: практичний посібник [для сімейного лікаря]. – Ужгород: ТДВ «Патент», 2017. – 504 с.
2. Вплив катастроф і війн на психічне здоров'я особистості та суспільства (досвід АТО) / О. В. Богомолець, І. С. Трінька, Ю. П. Романенко та ін. // Військова медицина України. – 2015. – Т. 15, № 1. – с. 70-80.
3. Наказ МОЗ України № 34 від 15.01.2014 р. «Уніфікований клінічний протокол екстреної медичної допомоги «Травма живота»». – 20 с.
4. Наказ МОЗ України № 34 від 15.01.2014 р. «Уніфікований клінічний протокол екстреної медичної допомоги «Гострі отруєння»». – 27 с.
5. Оптимізація лікувально-евакуаційного забезпечення військових частин Збройних Сил України оперативного рівня в умовах антитерористичної операції / Бадюк М. І., Жупан Б. Б., Солярик В. В., Ковида Д. В. // Військова медицина України. – 2015. – Т. 15, № 1. – с. 11-15.
6. Організація надання невідкладної медичної допомоги у військових частинах (закладах) Збройних Сил України: Методичні рекомендації / 2-е вид., перероб. і доп. [Автори...]; ВМД Міністерства оборони України. – К.: УВМА, 2014. – 144
7. Осьодло Г. В. Військово-прикладні аспекти сучасної гастроентерології: навчальний посібник. – Вінниця: ТОВ «Консоль», 2015. – 388 с.

8. Удосконалення лікування та реабілітації військовослужбовців Збройних Сил України з бойовою психічною травмою: Методичні рекомендації / [Друзь О. В., Сиропятов О. Г., Бадюк М. І. та співавт.]; ВМД МОУ. – К.: «МП Леся», 2015. – 52 с.
9. Уніфікований галузевий клінічний протокол медичної допомоги (першої лікарської, кваліфікованої, спеціалізованої та невідкладної) «Артеріальна гіпертензія» // [колектив авторів]; ВМД МОУ. – К. УВМА, 2014. – 114 с.
10. Allied joint doctrine for medical support / NATO standard ASP. -4.10//With UK National elements 2015. –Edition B, Version 1.

3) Electronic resources

1. Website of the library of VNMU named after M.I. Pirogov (www.library.vsmu.edu.ua)
2. Website of the Verkhovna Rada of Ukraine: Access mode:<http://zakon.rada.gov.ua/>.
3. Website of the State Emergency Service of Ukraine: Access mode: <http://www.mns.gov.ua/>.
4. Website of the Ministry of Defense of Ukraine: Access mode:<http://www.mil.gov.ua/>.
5. Information and legal portal "Laws of Ukraine": Access mode: <http://uazakon.com/>.
6. 19. Resolution of the CMU "On approval of the Regulation on the organization of notification and communication in emergency situations" // Access mode:<http://zakon2.rada.gov.ua/laws/show/192-99-%D0%BF>.
7. On the approval of the Model staffing standards of the center of primary medical (sanitary) care: Order of the Ministry of Health of Ukraine dated 23.02.2012 No. 129. – Mode of access:http://www.moz.gov.ua/ua/portal/hsr_reformlaw/
8. Public Health Center of the Ministry of Health of Ukraine <https://phc.org.ua/kontrol-zakhvoryuvan>

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.vnmu.edu.ua/department> of internal medicine No. 2/ to the student).
10. **Questions about the final control of discipline** published on the web page of the department ((<https://www.vnmu.edu.ua/Department> of Internal Medicine No. 2/ To the student).

The syllabus for the discipline "Military Therapy" 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 Serhiy SHEVCHUK