

MINISTRY OF HEALTHCARE OF UKRAINE
Poltava State Medical University
Department of Internal Medicine №1

«AGREED»

Guarantor of the academic and
professional program "Medicine"

_____ Igor SKRYPNYK
“ _____ ” _____ 20 _____

«APPROVED»

Chairman of the Academic Council of the
Medical Faculty №1

_____ Mykola RIABUSHKO
Minutes as of 28.08.2024 №1

SYLLABUS
MEDICAL PRACTICE
MODULE 1. THE THERAPEUTIC DEPARTMENT DOCTOR'S
ASSISTANT
elective discipline

level of higher education	the second (master's) level of higher education
field of knowledge	22 "Healthcare"
specialty	222 "Medicine"
academic qualification	Master of Medicine
professional qualification	Medical Doctor
academic and professional program	"Medicine"
mode of study	full-time education
course(s) and semester(s) of study of the discipline	the 4th course, the 7th-8th semesters

«RESOLVED»

at the meeting of the Department of Internal
Medicine №1
Head of the Department
_____ H.S. Maslova

Minutes as of 27.08.2024 №1

Poltava – 2024

INFORMATION ABOUT TEACHERS

Surname, name, teacher (s),	Maslova Hanna Serhiivna – PhD, associate professor, head of the department
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academic degree, academic title	Skrypnyk Igor Mykolayovych - Doctor of Medicine, Professor Kulishov Serhiy Kostiantynovych - Doctor of Medicine, Professor Sorokina Svitlana Ivanivna - PhD, associate professor Tretyak Natalia Hryhorivna - PhD, associate professor Shevchenko Tetyana Ivanivna - PhD, associate professor Shaposhnyk Olga Anatoliivna - PhD, associate professor Prykhodko Nataliia Petrivna - PhD, associate professor Kudria Iryna Pavlivna - PhD, assistant Lymanets Tetiana Volodymyrivna - PhD, assistant Ostrovskiy Vladyslav Leonidovych - assistant Skrypnyk Roman Igorovych - assistant Drabovska Inna Anatoliivna - assistant Pilat Inna Olegovna – assistant
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MAIN CHARACTERISTICS OF THE EDUCATIONAL DISCIPLINE

The scope of the academic discipline

Number of credits / hours: **1.25/37.5, of which:**

Lectures (hours) – ***not provided.***

Practical classes (hours) – **7.**

Self-directed work (hours) – **30.5.**

Types of control – final module control

THE POLICY OF THE ACADEMIC DISCIPLINE

- Regulations on the organization of the educational process in Poltava State Medical University
https://www.pdmu.edu.ua/storage/department-npr/docs_links/0nrGNrEzksWWytpXV8j05INcg9wbyVjkYx9FrbEY.pdf
- Regulations on non-formal and informal education in Poltava State Medical University
https://www.pdmu.edu.ua/storage/department-npr/docs_links/Naj27POg8c3ZiBAbT1czec3PYWQqO6YDuB7I2qq2.pdf
- Regulations on the academic integrity of higher education applicants in Poltava State Medical University
https://www.pdmu.edu.ua/storage/sections_nv/docs_links/zr3FjyN6oKY7qqQax2EfYjhdlnZg7YvhqyD58WZj.pdf
- Internal regulations for students in Poltava State Medical University
https://www.pdmu.edu.ua/storage/department-npr/docs_links/OaN2nwysLPFAUDRvuDPvFSpzM1j9E9CwQQkgr93b.pdf
- Regulations on the organization and methodology of evaluating the educational activities of higher education applicants in Poltava State Medical University
https://www.pdmu.edu.ua/storage/department-npr/docs_links/6Tdcp23hyEkS7hqbJXdxYJVvURg4ZBLjhCLVpOoU.pdf
- Regulations of the student's self-work in Poltava State Medical University
https://www.pdmu.edu.ua/storage/department-npr/docs_links/9fsgUnv0JUzOhYB7CkJF2dX8jSDmM3vlt4LUMebt.pdf

- Regulations on working off for missed classes and unsatisfactory grades by higher education applicants in Poltava State Medical University
- https://www.pdmu.edu.ua/storage/department-npr/docs_links/d2v3WhcBOWnuedYRoBKRe7k1xnl4KtbB2r2NR2CG.pdf
- Regulations on the procedure for forming individual educational trajectories by higher education applicants in Poltava State Medical University https://www.pdmu.edu.ua/storage/department-npr/docs_links/65GC4bRqLembOGII7xon3ISIR7hQtFXcxUrSjdCA.pdf
- Regulations on the organization and methodology of evaluating the educational activities of higher education applicants in Poltava State Medical University https://www.pdmu.edu.ua/storage/department-npr/docs_links/6Tdcp23hyEkS7hqbJXdxYJVvURg4ZBljhCLVpOoU.pdf
- Regulations on the "Electronic Record of Success" (ez.umsa.edu.ua) in Poltava State Medical University https://www.pdmu.edu.ua/storage/department-npr/docs_links/IO1LPMtso9YsbUQkSTaDJ8wQrkBDjoFnGZUuEpho.pdf
- Regulations on the rating of higher education applicants in Poltava State Medical University https://www.pdmu.edu.ua/storage/department-npr/docs_links/NodgoGa48aOWP ErstHcBGEagkjBk1rWUwaxvZfde.pdf
- Regulations on financial incentives for students' academic success in Poltava State Medical University https://www.pdmu.edu.ua/storage/department-npr/docs_links/RmhZx0Lx1V0c6zZkg1mCkcW6omo3enMM4uB6C5bT.pdf

Policy of educational discipline. Medical practice in internal medicine involves independent mastery of practical skills by higher education applicants according to the educational and professional program 222 "Medicine". It is held at a time when students of the 4th year of higher education at the medical faculty have acquired knowledge of internal medicine.

Course description (abstract). Practice is carried out as a physician's assistant in the therapeutic department in accordance with the current curriculum and program. Medical practice for students of the 4th year in the scope of professional duties of the physician's assistant in the therapeutic department lasts 1 week. Medical practice in internal medicine Content module 1 "Medical practice: physician's assistant in the therapeutic department" is an optional discipline.

Prerequisites and postrequisites of the discipline (interdisciplinary links):

Prerequisites: the study of the academic discipline is based on the previously acquired knowledge of internal medicine propaedeutics, 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, immunology and radiology) and integrates with these disciplines.

Postrequisites: forms the foundations for students to study internal medicine and other clinical disciplines, which involves the integration of teaching with these disciplines and the formation of skills to apply knowledge of occupational diseases in the process of further education and professional activity; forms basic principles of healthy lifestyle and prevention of functional impairment during working process.

The aim and objectives of the discipline:

The aim of studying Module 1 "Medical practice: the therapeutic department doctor's assistant": is to consolidate practical skills within the limits of competencies and learning outcomes

defined in the educational and professional training program for specialists in specialty 222 "Medicine" field of knowledge 22 "Health care": mastering basic manipulations and diagnostic methods for making a diagnosis and choosing the right treatment method; the responsibility formation of higher education applicant, as a future specialist, for the level of his training and its improvement during training and professional activity.

The main tasks of the practice are to consolidate the knowledge and skills acquired during the study of the main clinical and theoretical disciplines (examination of the patient, establishing a clinical diagnosis, prescribing treatment) and further improvement of practical skills, familiarization with the organization of the medical care and the doctor's working conditions in the therapeutic department, as well as consolidation of sanitary and educational work skills.

Competences and learning outcomes, the formation of which is facilitated by discipline (integral, general)

According to the standard, the discipline ensures that higher education applicants acquire the following competencies:

Integral competence: ability to solve complex specialized tasks and practical problems in professional activities in health care in specialty "Medicine", or in the learning process, which involves conducting research and/or implementing innovations and is characterized by the complexity and uncertainty of conditions and requirements;

General competences:

GC1. Ability to abstract thinking, analysis and synthesis, ability to learn and master modern knowledge.

GC2. Ability to apply knowledge in practical situations.

GC3. Knowledge and understanding of the subject area and understanding of professional activity.

GC4. Ability to adapt and act in a new situation.

GC5. Ability to make informed decisions; work in team; interpersonal skills.

GC6. Ability to communicate in the state language both orally and in writing; the ability to communicate in a foreign language. Ability to use international Greek-Latin terms, abbreviations and clichés in professional oral and written communication.

GC7. Skills in using information and communication technologies.

GC8. Determination and persistence in relation to assigned tasks and assumed responsibilities.

GC9. The ability to act socially responsibly and consciously.

Learning outcomes for medical practice:

LO1. Know the structure and functions of individual organs and systems and the human body as a whole in normal conditions, during the development of pathological processes, diseases; to be able to use the acquired knowledge in further education and in the practical activities of a doctor.

LO2. Collect data on the patient's complaints, life history (professional history in particular) in the conditions of a health care facility and/or at the patient's home, according to a standard survey scheme.

LO3. Assign and analyze additional (mandatory and optional) examination methods (laboratory, X-ray, functional and/or instrumental). Evaluate information for the purpose of differential diagnosis of diseases (according to list 2), using knowledge about person, his organs and systems, based on the results of laboratory and instrumental research (according to list 4).

LO4. Establish a preliminary and clinical diagnosis (according to list 2) on the basis of the leading clinical symptoms or syndromes (according to list 1) by making a reasoned decision and logical analysis, using the most likely or syndromic diagnosis, data from a laboratory instrumental examination of the patient, conclusions of differential diagnosis, knowledge of person, his organs and systems, observing the relevant ethical and legal norms.

LO5. Determine the necessary work and rest regimen during the treatment of the disease (according to list 2) in the conditions of a health care institution, at the patient's home and at the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, using knowledge about person, his organs and systems, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.

LO6. Prescribe the necessary medical diet during treatment (according to list 2), in the conditions of a health care facility, at the patient's home and at the stages of medical evacuation, including in field conditions on the basis of a preliminary clinical diagnosis, using knowledge about person, his organs and systems, observing relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.

LO7. Determine the nature of treatment (conservative, surgical) and its principles (according to list 2) in the conditions of a health care institution, at the patient's home and at the stages of medical evacuation, including in field conditions on the basis of a preliminary clinical diagnosis, using knowledge about person, his organs and systems, observing relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.

LO8. Diagnose emergency conditions and establish a diagnosis (according to list 3) by making a reasoned decision and assessing a person's condition under any circumstances (at home, on the street, in a health care facility), including in emergency situations, in field conditions, in conditions of lack of information and limited time, using standard methods of physical examination and possible anamnesis, knowledge about person, his organs and systems, observing relevant ethical and legal norms.

LO9. Determine the tactics of providing emergency medical care, under any circumstances, using knowledge about person, his organs and systems, observing the relevant ethical and legal norms, by making a reasoned decision, based on the established diagnosis (according to list 3) in conditions of limited time with the help of standard schemes.

LO10. Provide emergency medical care under any circumstances, using knowledge about person, his organs and systems, observing the relevant ethical and legal norms, by making a reasoned decision, based on the diagnosis of an emergency condition (according to list 3) in conditions of limited time in accordance with the defined tactics, using standard schemes.

LO12. Perform medical manipulations (according to list 5) in the conditions of a health care institution, at home or at work based on a previous clinical diagnosis and/or indicators of the patient's condition, using knowledge about person, his organs and systems, observing the relevant ethical and legal norms, by making an informed decision and using standard methods.

LO16. Determine the dispensary management of persons in a health care institution or at a patient's home on the basis of the received data on the patient's state of health, using standard schemes, using knowledge about person, his organs and systems, observing the relevant ethical and legal norms, by making a reasoned decision.

LO17. To carry out an examination of working capacity by determining the presence and degree of restrictions on vital activities, the type and duration of incapacity for work with the preparation of relevant documents in the conditions of a health care institution based on data on the disease and its course, peculiarities of person's professional activity.

LO18. To maintain medical records regarding the patient and the contingent of the population on the basis of regulatory documents, using standard technology. Prepare reports on personal production activity using official accounting documents in a standard form.

LO23. To form goals and determine the structure of personal activity based on the result of the analysis of certain social and personal needs.

LO24. Follow a healthy lifestyle, use self-regulation and self-control techniques.

LO25. To be aware of and be guided in one's activities by civil rights, freedoms and responsibilities, to constantly raise one's professional and cultural level.

LO26. To comply with the requirements of ethics, bioethics and deontology in their professional activities.

LO27. To ensure the necessary level of individual safety (own and the persons they care about) in case of typical dangerous situations in the individual field of activity.

When completing medical practice, students of higher education should:

- get an advice from the head of the practice department of the higher educational institution regarding the duration of the course, the preparation of documentation, etc.;
- get a referral to a basic institution for medical practice at the dean's office;
- arrive at the practice base on time;
- fully perform all the tasks provided for by the practice program and the instructions of its supervisors during the course;
- learn and strictly follow the safety rules;
- comply with the rules of internal labor regulations in the hospital;

- bear responsibility for assigned work and its results on a par with full-time employees;
- keep a practice diary, other documentation provided by the practice program;
- after the end of the course "Medical practice: physician's assistant in the therapeutic department", submit to the university practice supervisor a written report on the performance of all the tasks provided for in the program, filled diary and signed by the first-hand basic supervisor;
- timely pass the final module control on practice.

The subject of this academic discipline is to consolidate knowledge and skills in the conditions of future professional activity, which are obtained during studying the main theoretical and clinical disciplines. During practical training as the doctor's assistant in therapeutic department, students have to study the methods of doctor's work of various specialties in the therapeutic profile and gain practical experience in the following areas of future professional activity:

- Principles of organization of planned and emergency therapeutic care in Ukraine.
- Improving the skills of patient's physical examination with respiratory, digestive, hematopoietic organs and endocrine system diseases.
- Mastering the skills of laboratory and instrumental research methods interpretation in internal medicine.
- Improving the skills of substantiating and formulating a diagnosis for the main diseases of the respiratory, digestive, hematopoietic organs and endocrine system.
- Prescribing treatment, primary and secondary prevention in the main diseases of respiratory organs, digestion, hematopoietic organs and endocrine system.
- Mastering the skills of providing emergency care in an internal medicine clinic.
- Application of the principles of ethics and deontology in the doctor's practice in the therapeutic department.

As a result of studying the discipline, the higher education applicant should be able to:

- conduct surveys and physical examinations of patients and analyze them;
- plan examination schemes for a specific patient depending on the characteristics of the disease clinical course;
- analyze the results of basic laboratory and instrumental research methods;
- determine the leading pathological symptoms and syndromes in the most common diseases;
- carry out differential diagnostics and establish preliminary diagnosis for the most common diseases;
- interpret the general principles of treatment, rehabilitation and prevention of the most common therapeutic diseases;
- master the methods of diagnosis and providing emergency care at the pre-hospital level;
- master the necessary medical manipulations;

- get acquainted with the maintenance of medical documentation in the conditions of a therapeutic department;
- master ethical and deontological principles of a medical specialist and principles of professional subordination.

Medical practice as a physician's assistant in the therapeutic department involves:

- getting acquainted with the department's work, keeping medical records;
- conducting an independent physical examination of the patients assigned to the student;
- filling in the medical history and all the necessary medical records when patient is discharged, prescribing the appropriate treatment in agreement with the doctor;
- participation of higher education applicant in all diagnostic and treatment procedures prescribed for his patients (endoscopic, X-ray, laboratory tests, injections and manipulations, physiotherapeutic procedures, etc.) in the amount provided by the practice program;
- presence during the head of the department and the assistant (associate professor) visiting patients;
- holding conversations with patients about primary and secondary prevention of internal organs diseases, rational medical nutrition, and about the negative consequences of bad habits;
- knowledge of manifestations, risk factors, therapy principles of the most common diseases with the aim of their prevention, early detection and timely provision of the necessary care.

Thematic plan of practical classes and the main issues considered in practical classes

№	Topic name	Hours
1.	Survey and physical examination of patients with the main diseases of the respiratory, digestive, hematopoietic and endocrine system.	1
2.	Interpretation of the results of laboratory and instrumental research methods in the clinic of internal medicine: evaluation of clinical, biochemical and bacteriological studies of blood, urine, faeces, sputum; instrumental research methods: chest and abdominal X-ray, spirometry, abdominal sonography, upper endoscopy, colonoscopy.	1
3.	Diagnosis formulation of the main diseases of the respiratory, digestive, hematopoietic and endocrine system.	1
4.	Treatment, primary and secondary prevention in the main diseases of respiratory, digestive, hematopoietic and endocrine system.	1
5.	Emergency care in urgent situations (conditions) with acute respiratory failure (bronchial asthma attack); hepatic colic; acute liver failure, etc.	2
6.	Final module control	1
	Total per module	7

Self-work

№	Topic name	Hours
1	Survey and physical examination of patients with the main diseases of the respiratory, digestive, hematopoietic and endocrine system.	6.5
2	Interpretation of the results of laboratory and instrumental research methods in the clinic of internal medicine: evaluation of clinical, biochemical and bacteriological studies of blood, urine, faeces, sputum; instrumental research methods: chest and abdominal X-ray, spirometry, abdominal sonography, upper endoscopy, colonoscopy.	6.5
3	Diagnosis formulation of the main diseases of the respiratory, digestive, hematopoietic and endocrine system.	6.5
4	Treatment, primary and secondary prevention in the main diseases of respiratory, digestive, hematopoietic and endocrine system.	6.5
5	Emergency care in urgent situations (conditions) with acute respiratory failure (bronchial asthma attack); hepatic colic; acute liver failure, etc.	4.5
	Total per module	30.5

Individual tasks.

1. An abstract of additional literature on the topic presented for self-study.
2. Work in a research group with the presentation of theses for the conference and reports at student scientific conferences.

A list of theoretical questions for the preparation of higher education applicants for written final module control (FMC).

- Examination methods of patients with gastroenterological pathology (pH-metry, upper endoscopy).
- Computer and magnetic resonance diagnostics in gastroenterology: indications, contraindications.
- Diagnostic possibilities of esophagogastroduodenoscopy: indications, contraindications, limitations to its performance, possible complications.
- Diagnostic possibilities of colonoscopy: indications, contraindications and limitations to their performance, possible complications.
- Diagnostic possibilities of biopsy in gastroenterology: indications, contraindications, limitations to its performance, possible complications.
- Invasive and non-invasive methods of diagnosis of H.pylori infection and other infectious factors: advantages and disadvantages.
- The value of endoscopic (with morphology) and X-ray examination for the diagnosis of chronic gastritis, peptic ulcer disease of the stomach and duodenum and their complications.

- Value of laboratory and instrumental methods of diagnosis of gastric and duodenal ulcers. Methods of diagnosis and treatment of helicobacter infection.
- The role of laboratory and instrumental methods in the diagnosis of gallstone disease. Differential diagnosis and complications of gallstone disease.
- Laboratory and instrumental methods in the diagnosis of chronic noncalculous cholecystitis.
- The role of instrumental methods in the diagnosis of functional disorders of the biliary tract. Treatment principles.
- The value of morphological, biochemical and other instrumental methods in the diagnosis of diseases of the liver and biliary tract.
- Peculiarities of laboratory and instrumental methods of diagnosing iron-deficiency anemia, B₁₂-deficiency anemia.
- Peculiarities of the clinical picture and laboratory diagnosis of hereditary hemolytic anemias.
- Bone marrow transplantation.
- Rationale for blood and blood components transfusions.
- Study of external breathing function.
- Modern methods of diagnosis and treatment of community-acquired pneumonia. Primary and secondary prevention.
- Endoscopic examination of the bronchi, indications, contraindications, complications.
- Emergency care for severe exacerbation of bronchial asthma.
- Methods of physical examination and study of the external breathing function of patients with pulmonary pathology.
- Diagnostic capabilities of X-ray examination and computed tomography of the lungs. The diagnostic value of the microbiological study of sputum
- Diagnostic possibilities of bronchoscopy and bronchography: indications, contraindications, possible complications.
- Pleural puncture and drainage of the pleural cavity: indications and technique.

List of practical skills for the final module control (FMC).

Work with patients and clinical tasks:

- evaluate complaints, medical history, life history;
- evaluate information about the general condition of the patient (consciousness, constitution) and evaluate the appearance (examination of the skin, subcutaneous fat layer, palpation of lymph nodes, thyroid and mammary glands), examine the condition of the musculoskeletal system, joints;
- assess the state of the respiratory system (examination of the chest, palpation of the chest, percussion and auscultation of the lungs);
- assess the state of the cardiovascular system (examination and palpation of the heart and blood

- vessels, percussion of the borders of the heart and auscultation of the heart and blood vessels);
- assess the state of the digestive organs (examination, percussion, superficial and deep palpation);
- establish a clinical diagnosis of the disease.
- interpret the results of laboratory and instrumental research.
- carry out differential diagnosis of diseases.
- determine the necessary regime and diet of a patient with diseases.
- determine the principles and nature of treatment (conservative, surgical) of diseases.
- diagnose and provide assistance in emergency situations.
- determine tactics of secondary prevention of patients who are subject to dispensary supervision.
- be able to interpret the results of laboratory and instrumental research methods:
- pleural fluid analysis.
- analysis of ascitic fluid.
- urine analysis for diastasis.
- biochemical indicators of serum iron metabolism.
- acute phase indicators of blood, total blood protein and its fractions.
- bile examination.
- pH-metry of the stomach and esophagus.
- breath tests with ^{13}C -urea, ^{13}C -triglycerides, ^{13}C -starch, ^{13}C -lactose and breath hydrogen tests with glucose and lactulose.
- general blood test.
- general urine test.
- general analysis of sternal puncture.
- general analysis of sputum.
- blood electrolytes.
- coagulogram.
- coprocytogram.
- viral hepatitis markers.
- microbiological research of biological fluids and secretions.
- indicators of the acid-base state of the blood.
- blood transaminases, total bilirubin and its fractions, alkaline phosphatase
- blood alpha-amylase.
- fecal elastase-1.
- study of the function of external breathing.
- abdominal X-ray.
- chest X-ray.
- X-ray examination of the skull and bones.
- endoscopic examination of the bronchi.

- endoscopic examination of the digestive tract.
- cytological examination of a lymph node biopsy.

Teaching methods

- verbal (explanation, story, conversation, instruction)
- visual (observation, illustration, presentation)
- practical (through the clinical examination of the patient to interpret and describe changes in organs and systems in various pathological conditions)
- explanatory-illustrative or information-receptive (coverage of ready-made information by a scientific and pedagogical worker and its assimilation by students of education)
- thematic discussions, clinical examinations
- analysis of specific clinical situations
- partial search, research methods.

Control methods

- oral control;
- written control;
- test control;
- programmable control;
- practical examination;
- self-control;
- self assessment.

Types of control

Baseline control is carried out at the first practical session by using test control of the basic training of students.

Current control is carried out during practical classes, at which knowledge of theoretical and practical material is assessed in the form of:

- individual oral survey on theoretical questions that are included in methodological guidelines on relevant topics;
- test tasks;
- solving situational problems;
- systematic clinical examination of the patient;
- preparation of protocols for practical classes (substantiation of diagnoses and appointment of an examination and treatment plan)

Final control serves to check and evaluate knowledge, abilities and skills in the academic discipline.

Form of final control of study success

Final module control (FMC)

Scheme of accrual and distribution of points received by higher education applicant

Control measures for evaluating educational activities of higher education students include current and final control of knowledge, abilities and skills.

Control measures are based on the principles of: compliance with higher education standards; use of a standardized and unified diagnostic system aimed at applying knowledge; certainty of evaluation criteria; objectivity and transparency of control technology.

A scientific-pedagogical employee necessarily evaluates the success rate of a higher education student in each lesson on a four-point (traditional) scale.

Assessment of success is integrated (all types of work of students are evaluated both during preparation for classes and during classes) according to criteria that are brought to their attention at the beginning of studying the discipline. Conversion of the current grade, given on a traditional 4-point scale, into a multi-point grade is not carried out at each lesson.

Knowledge evaluation criteria of higher education applicants

On a 4-point scale	Assessment in ECTS	Evaluation criteria
5 (excellent)	A	The student demonstrates special creative abilities, is able to acquire knowledge independently, without the help of the teacher finds and processes the necessary information, is able to use the acquired knowledge and skills for decision-making in unusual situations, convincingly argues his/her answers, independently reveals own talents and inclinations, possesses not less than 90 % of knowledge on the topic both during the spoken replies and all types of control.
4 (good)	B	The student is fluent in the studied amount of material, applies it in practice, freely solves exercises and problems in standardized situations, independently corrects errors, the number of which is insignificant, has at least 85% knowledge of the topic as during the spoken replies, and all types of control.
	C	The student is able to compare, summarize, systematize information under the teacher's guidance, in general, independently apply it in practice, control his/her activities; corrects mistakes, some of which are significant, chooses arguments to confirm opinions, has at least 75% knowledge of the topic both during the spoken replies and all types of control.
3 (satisfactory)	D	The student reproduces a significant part of theoretical material, shows knowledge and understanding of the basic provisions with the help of a teacher can analyze educational material, correct errors, among which there are a significant number of serious mistakes, has at least 65% knowledge of the topic, and during the spoken replies, and all types of control.
	E	The student has the educational material at a level higher than the initial, reproduces a significant part of it at the reproductive level, has at least 60% knowledge of the topic both during the spoken replies and all types of control.
2 (unsatisfactory)	FX	The student has the material at the level of individual fragments that make up a small part of the material, has less than 60% knowledge of the topic both during the spoken replies and all types of control.
	F	The student has the material at the level of elementary recognition and reproduction of individual facts, elements, has less than 60% knowledge of the topic as during the spoken replies, and all types of control.

The final module control is carried out after completing the study of the program material of the discipline module in the last practical session.

Graduates of higher education who:

- scored the required minimum number of points during the current control (average success score of 3.0 and above),
- do not have unworked absences from lectures and practical classes,
- mastered the topics presented for independent work within the module.

The FMC result is evaluated in points and cannot be converted into a traditional 4-point evaluation. The maximum number of FMC points is 80. The minimum number of FMC points, at which the control is considered passed, is 50. The maximum number of points for the module is 200 points (up to 120 points for current success).

Methodology of final module control (FMC).

FMC is conducted in the form of an oral survey (by exam card). The card includes two control questions and two situational problems with 3 practical questions. The standard answer to each question requires 3-5 minutes. Control questions cover the most significant sections of the working curriculum, and are sufficiently covered in literary sources, which are recommended as the main (basic) ones for studying the discipline. Each question of the examination card is evaluated in the range of 0-20 points. Based on the result of writing control questions and situational problems, the student is assigned a total score from 0 to 80 points, the conversion of points into a traditional assessment is not carried out.

If higher education applicant hasn't fulfilled the rules of academic integrity (clause 2.2.5 of the Rules of Internal Procedure), the evaluation results obtained during the FMC for the answer are not counted, the grade "unsatisfactory" is issued.

Applicants of higher education, who during the study of the module from which the final control is conducted, had an average score of current success from 4.50 to 5.0 are exempted from taking the FMC and automatically (with consent) receive a final grade in accordance with the scheme of accrual and distribution of points (see below), while the presence of the student at the FMC is mandatory. In case of disagreement with the assessment, the specified category of higher education applicants makes the FMC according to general rules.

A student of higher education has the right to take and two retakes of FMC.

The total number of points for the module is determined as the sum of the points of the current performance and FMC.

Scheme of points calculation and distribution, received by higher education applicants

Average score for continuous achievement (A)	Points for continuous achievement in the module	Points for FMC from the module (A*16)	Points for the module and / or exam (A*24 + A*16)	ECTS category	On a 4-point scale
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	(A*24)				
1	2	3	4	5	6
2	48	32	80	F FX	2 unsatisfactory
2,1	50	34	84		
2,15	52	34	86		
2,2	53	35	88		
2,25	54	36	90		
2,3	55	37	92		
2,35	56	38	94		
2,4	58	38	96		
2,45	59	39	98		
2,5	60	40	100		
2,55	61	41	102		
2,6	62	42	104		
2,65	64	42	106		
2,7	65	43	108		
2,75	66	44	110		
2,8	67	45	112		
2,85	68	46	114		
2,9	70	46	116		
2,95	71	47	118		
3	72	50	122		
3,05	73	50	123		
3,1	74	50	124		
3,15	76	50	126		
3,2	77	51	128		
3,25	78	52	130	D	
3,3	79	53	132		
3,35	80	54	134		
3,4	82	54	136		
3,45	83	55	138		
3,5	84	56	140	C	4 good
3,55	85	57	142		
3,6	86	58	144		

3,65	88	58	146		
3,7	89	59	148		
3,75	90	60	150		
3,8	91	61	152	C	4 good
3,85	92	62	154		
3,9	94	62	156		
3,95	95	63	158		
4	96	64	160		
4,05	97	65	162	B	
4,1	98	66	164		
4,15	100	66	166		
4,2	101	67	168		
4,25	102	68	170		
4,3	103	69	172		
4,35	104	70	174		
4,4	106	70	176		
4,45	107	71	178		
4,5	108	72	180		
4,55	109	73	182		
4,6	110	74	184		
4,65	112	74	186		
4,7	113	75	188		
4,75	114	76	190		
4,8	115	77	192		
4,85	116	78	194		
4,9	118	78	196		
4,95	119	79	198		
5	120	80	200		

Methodical support

1. The working curriculum
2. The program of medical practice
3. Medical practice syllabus
4. Methodical instructions for self-directed work for students during preparing to a practical lessons and in class
5. Methodical recommendations for teachers
6. List of questions and practical skills

7. Situational tasks
8. Educational literature

Recommended literature

Basic:

1. Davidson's Principles and Practice of Medicine / I.D. Perman, S.H. Ralston, M.W.J.Strachan et al. 24th Edition. – Elsevier, 2020. – 1378 p.
2. Internal Medicine. In 2 books: textbook [for students and interns of higher medical education establishments]. Books 1. Diseases of the Cardiovascular and Respiratory Systems / N. M. Seredyuk, I. P. Vakaliuk, R. I. Yatsyshyn [et. al.]. - Kyiv: Medicine Publishing, 2019. - 663 p.
3. Internal Medicine. In 2 books: textbook [for students and interns of higher medical education establishments]. Books 2. Diseases of the Digestive System, Kidney, Rheumatic and Hematological Diseases / N. M. Seredyuk, I. P. Vakaliuk, R. I. Yatsyshyn [et. al.]. – Kyiv: Medicine Publishing, 2020. - 463 p.

Additional:

1. Harrison's Principles of Internal Medicine / D.Kasper, A.Fauci, S.Hauser, D. Longo.-21 ed. –N.Y.: McGraw-Hill Professional, 2022. - Vol. 1, Vol.2.-3000 p.
2. Internal medicine: Part 1: textbook for English-speaking students of higher medical school / edited by Professor M.A. Stanislavchuk and V.K. Sierkova. – Vinnytsya: Nova Knyha, 2019.- 408p.
3. Internal medicine: Part 2: textbook for English-speaking students of higher medical school / edited by Professor M.A. Stanislavchuk and V.K. Sierkova. – Vinnytsya: Nova Knyha, 2019.- 360p.
4. Case history in internal medicine: tutorial for IV-VI year students of the foreign training faculty / Skrypnik I.M., Sorokina S.I., Shevchenko T.I. – Poltava, 2015. – 251 p.

Information resources:

<http://moz.gov.ua/>

<http://pdmu.edu.ua/>

<https://www.facebook.com/groups/1886783128212266/?ref=bookmarks>

<http://www.medliter.ru/?page=list&id=49>

<http://www.medscape.com/gastroenterology>

<http://ukrgastro.com.ua/>

<http://www.gastroscan.ru/>

<http://www.worldgastroenterology.org/>

http://www.moz.gov.ua/ua/portal/dn_20070319_128.html

<http://www.ginasthma.org>

<http://www.goldcopd.com>

<http://www.medscape.com/pulmonarymedicine>

<http://www.who.int/mediacentre/news/releases/2017/bacteria-antibiotics-needed/ru/>

<http://health-ua.com/>

<https://medprosvita.com.ua/>

<https://www.umj.com.ua/>

European LeukemiaNet recommendations for the management of chronic myeloid leukemia: 2013/

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4915804/>

Chronic myeloid leukemia: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up
/ http://annonc.oxfordjournals.org/content/23/suppl_7/vii72.full

Chronic Lymphocytic Leukaemia: ESMO Clinical Practice Guidelines /

<http://www.esmo.org/Guidelines/Haematological-Malignancies/Chronic-Lymphocytic-Leukaemia>

Guidelines for the diagnosis and treatment of chronic lymphocytic leukemia: a report from the
International Workshop on Chronic Lymphocytic Leukemia updating the National Cancer Institute-
Working Group 1996 guidelines / <http://www.ncbi.nlm.nih.gov/pubmed/18216293>

<http://www.dec.gov.ua/mtd/reestr.html>

http://www.ifp.kiev.ua/doc/metodd/doc/metodrec_ukr.htm

<https://www.ersnet.org/>

<https://www.ueg.eu/home/>

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