

**MINISTRY OF HEALTH OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY**

PROFESSIONAL STUDY PROGRAMME

‘Medicine’

the second (Master) level of higher education

subject area 22 ‘Medicine’

field of study 222 ‘Health’

Educational qualification: Master of Medicine

Professional qualification: Doctor of Medicine

**APPROVED BY THE SCIENTIFIC COUNCIL OF KhNMU
(Minutes of the 6th meeting held on 21st June, 2024)**

**The Programme comes into force on 1st September, 2024
(Order of KhNMU No. 133 dated 28th June, 2024)**

**CHANGES APPROVED BY THE SCIENTIFIC COUNCIL OF KhNMU
(Minutes of the 8th meeting held on 19th June, 2025)**

**Changes in the Programme come into force on 1st September, 2025
(Order of KhNMU No. 150 dated 20th June, 2025)**

FOREWORD

Professional study programme ‘Medicine’ (hereinafter, “the Programme”) of the Kharkiv National Medical University (hereinafter, “the University”) is the core regulatory document that sets out the competencies, qualifications, and the organisational, academic, and methodological requirements for the training of students at the Master’s level of higher education for the field of study 22 ‘Health’, subject area 22 ‘Medicine’.

This Programme is fully aligned with the regulations of current legislation, Higher Education Standard, approved by the Order of the Ministry of Education and Science of Ukraine No. 1197 dated 08.11.2021 ‘About approval of the Higher Education Standard for the subject area 222 ‘Medicine’ for the second (Master’s) level of higher education’, and entered into force from the 2021/2022 academic year (with changes according to the Order of the Ministry of Education and Science of Ukraine No. 1583 dated 29.12.2023 ‘On amendments to certain standards of Higher Education’ and the Order of the Ministry of Education and Science of Ukraine No. 842 dated 13.06.2024 ‘On amendments to certain standards of Higher Education’.

Developed by the project group consisting of:

Nataliia Ryndina, MD, Doctor of Medical Sciences, Professor, Department of Internal Medicine, Clinical Immunology and Allergology named after Academician L.T. Mala No. 2, Head of Programme

Nataliia Zhelezniakova, MD, Doctor of Medical Sciences, Professor, Head of the Department of Internal Medicine No. 1

Serhii Bytiak, MD, Candidate of Medical Sciences, Associate Professor, Department of Surgery No. 1

Mykhailo Myroshnychenko, MD, Doctor of Medical Sciences, Professor, Head of the Department of General and Clinical Pathological Physiology named after D.O. Alpern

Aliona Boichenko, MD, Doctor of Medical Sciences, Associate Professor, Department of Pediatrics and Neonatology No. 1

Iryna Sorokina, MD, Doctor of Medical Sciences, Professor, Department of Pathological Anatomy

Oleksii Korzh, MD, Doctor of Medical Sciences, Professor, Head of the Department of General Practice – Family Medicine

Marianna Markova, MD Doctor of Medical Sciences, Professor, Head of the Department of Sexology, Psychotherapy and Medical Psychology

Viktoriiia Lazurenko, MD, Doctor of Medical Sciences, Professor, Head of the Department of Obstetrics and Gynecology No. 2;

Oksana Nakonechna, MD, Doctor of Medical Sciences, Professor, Head of the Department of Biochemistry

Maryna Kucheriavchenko, MD, Candidate of Medical Sciences, Associate Professor, Department of General and Clinical Pathological Physiology named after D.O. Alpern, Secretary of the Project Group.

Stakeholders of the Educational Programme involved in the work of the Project Group:
Tetiana Demenko, Director of the Healthcare Department of the Kharkiv Regional Military Administration

Valerii Boiko, MD, Doctor of Medical Sciences, Professor, Director of the State Institution “V.T. Zaitsev Institute of General and Urgent Surgery of the National Academy of Medical Sciences of Ukraine”

Viacheslav Hrushka, MD, Director of the Municipal Non-Profit Enterprise “M.I. Kononenko Chuhuiv Central Hospital” of the Chuhuiv City Council, Kharkiv Region

Olha Kadykova, MD, Doctor of Medical Sciences, Professor, Dean of the I Medical Faculty of Kharkiv National Medical University

Mykola Panchenko, MD, Doctor of Medical Sciences, Professor, Dean of the III Medical Faculty of Kharkiv National Medical University

Kateryna Reva, Student of the II Medical Faculty, 3rd year, group 18

Anna Matuzok, Student of the II Medical Faculty, 5th year, group 20, Deputy Head of the NGO “Student Self-Government of KhNMU”

Yehor Zubenko, Student of the II Medical Faculty, 2nd year, group 22, Deputy Head of the Education Quality Assessment Sector of the NGO “Student Self-Government of KhNMU”.

1. Professional Study Programme Profile

1 – General information	
Title of the Study Programme	Medicine
Type of the Study programme	Professional
Higher education level	Second (Master) level
Qualification Level/Cycle	NQF – level 7, EQF – level 7, QF-EHEA – second cycle
Field of study	22 Health
Subject area	222 Medicine
Specialization	-
Educational qualification	Master of Medicine
Professional qualification	Doctor of Medicine
Procedure for awarding professional qualification	Professional qualification is awarded in accordance with the Procedure for Awarding Professional Qualifications at KhNMU
Diploma qualification	Higher education degree – Master’s degree Subject area – I2 ‘Medicine’ Professional qualification – Doctor of Medicine
Diploma type	Master diploma, single
Number of ECTS credits required to complete the study programme	360 ECTS credits The University reserves the right to recognize and transfer no more than 60 ECTS credits earned within a previous study programme for individuals who have obtained a qualification at NQF Level 5 (Junior Specialist educational-qualification level, or Professional Junior Bachelor and Junior Bachelor degrees) in Specialty 223 ‘Nursing’.
Form of study	Full-time
Estimated length of studies	5 years 10 month
Availability of accreditation	Accredited by National Agency for Higher Education Quality Assurance (Ukraine). Certificate No. 10496 valid until 01.07.2026
Programme validity period	From 2025 until next review
Academic criteria for admission to study programme	Admission based on complete general secondary education, a Junior Bachelor’s degree, a Professional Junior Bachelor’s degree, or a Junior Specialist educational-qualification level in Specialty 223 ‘Nursing’.
Language(s) of instruction	Ukrainian, English
Study programme URL	https://knmu.edu.ua/en/program-catalog/medicine-master-2024/
2 – Aim of the study programme	
<p>The program is aimed to ensure the training of highly qualified physicians for modern national and international labor markets, grounded in academic preparation in fundamental and clinical biomedical sciences. It prepares graduates for professional medical practice in relevant entry-level positions through the acquisition of general and professional competencies. The scope of these competencies is defined, at a minimum, by specified lists of syndromes and symptoms of diseases, emergency conditions, physiological states, and diseases requiring specific patient management tactics, as well as laboratory and instrumental examinations, medical procedures, and matters of occupational, forensic, and military medical expertise.</p>	

3 – Characteristics of the study programme	
Subject area (field of study, subject area, specialization)	<p>22 ‘Health’ 222 ‘medicine’</p> <p>Object of Study and/or Activity in Medicine: prevention, diagnosis, and treatment of human diseases; the impact of health problems on patients, their families, and the population; and health maintenance.</p> <p>Learning Objectives: the acquisition of the ability to solve complex tasks and problems, including those of a research and innovative nature, in the field of medicine. The ability to continue learning with a high degree of autonomy.</p> <p>Theoretical Content of the Subject Area: concepts, principles, and theories of prevention, diagnosis, and treatment of human diseases at the individual, family, and population levels.</p> <p>Methods, Methodologies, and Technologies: anamnestic, clinical, laboratory, and instrumental methods of conducting the diagnostic process; identification of leading symptoms and syndromes; determination of provisional and clinical diagnoses; technologies for diagnosis, treatment, and prevention; management and organization of work in the healthcare sector.</p> <p>Tools and Equipment: modern diagnostic, therapeutic, and other devices, items, and instruments used in professional medical practice.</p>
Programme features	<p>Widespread implementation of simulation-based training and innovative technologies within the educational process; option for English-medium instruction throughout the program; early clinical exposure, including practical training starting from the first year of study; practical training at multidisciplinary healthcare facilities, specifically at the university’s own ‘University Hospital’ branch; opportunities for national and international mobility, including specialized clinical placements; integration of education and research within laboratories, research centers, and clinics, with the possibility to present and publish scientific findings.</p>
4 – Employability and further education of graduates	
Employability of graduates	<p>Upon completion of the Professional Study Master’s Programme ‘Medicine’, the specialist is qualified to perform the following professional roles:</p> <ul style="list-style-type: none"> Medical Intern (Occupational Code – 3229); Trainee Physician (Occupational Code – 3221); Medical Resident (Occupational Code – XXX). <p>Professional titles that a graduate in specialty ‘Medicine’ may hold after completing their internship, according to the National Classifier of Ukraine: Classifier of Occupations (SC 003:2010): Section 2: Professionals</p> <ul style="list-style-type: none"> Sub-section 22: Professionals in Life Sciences and Medical Sciences <ul style="list-style-type: none"> Class 221: Professionals in Life Sciences and Medical Sciences Class 222: Health Professionals (except Nursing) <ul style="list-style-type: none"> Sub-class 2221: Medical Doctors (except Dentistry) <ul style="list-style-type: none"> Group 2221.2: Physicians / Medical Doctors Sub-class 2225: Professionals in Medical and Preventive Medicine

	<p>Group 2225.2: Physicians, Specialists in Medical and Preventive Medicine Group 2229.2: Professionals in Medicine (except Nursing and Midwifery)</p> <p>The specialist is prepared to work within the following sectors of the National Classification of Economic Activities: Section Q: Health and Social Work Activities Division 86.1: Hospital activities Group 86.10: Hospital activities Class 86.21: General medical practice activities Class 86.90: Other health activities</p>
Academic rights of graduates	<p>Obtaining of additional qualifications and medical specializations within the adult education system, including internship training (postgraduate medical residency). Obtaining education at the third (educational-scientific) level of higher education (PhD programs).</p>
5 – Teaching and assessment	
Teaching and learning	<p>Approaches: student-centered, learner-centered (person-centered), competency-based, practice-oriented, e-learning, simulation-based learning, self-directed learning, and research-based learning. Forms: <i>educational sessions</i> (lectures, practical classes, seminars, tutorials/consultations), <i>independent study</i>, <i>clinical (practical) training</i>, and <i>assessment measures</i>. Methods: lectures, narrative/presentation, briefing, dialogue-based teaching, discussions, practical exercises, business and role-playing games; standardized, simulated, and hybrid patient methods; situational problem-solving, case-based learning (case studies), training workshops, problem-based learning (PBL), creative inquiry, virtual reality (VR), etc.</p>
Assessment	<p>Forms of control measures: oral examination (questioning), testing, demonstration of practical skills, practical training reports, oral/written credit tests, differentiated credit tests and examinations, certification, etc. Assessment: 4-point ('excellent', 'good', 'satisfactory', 'unsatisfactory'), 200-point rating and 2-point ('passed', 'failed') scales are used.</p>
6 – Programme competencies	
Integral competency	<p>The ability to solve complex tasks and problems in the field of healthcare during professional activity or the learning process, which involves research and/or innovation and is characterized by the uncertainty of conditions and requirements.</p>
General competencies (GC)	<p>GC1. Ability to think abstractly, analyze, and synthesize. GC2. Ability to learn and master modern knowledge. GC3. Ability to apply knowledge in practical situations. GC4. Knowledge and understanding of the subject area and understanding of professional activity. GC5. Ability to adapt and act in new situations. GC6. Ability to make reasoned (informed) decisions. GC7. Ability to work in a team. GC8. Capacity for interpersonal interaction.</p>

	<p>GC9. Ability to communicate in a foreign language.</p> <p>GC10. Ability to use information and communication technologies.</p> <p>GC11. Ability to search for, process, and analyze information from various sources.</p> <p>GC12. Determination and persistence regarding tasks and responsibilities.</p> <p>GC13. Awareness of equal opportunities and gender issues.</p> <p>GC14. Ability to exercise rights and duties as a member of society; awareness of the values of a civil (free democratic) society and the necessity of its sustainable development, the rule of law, and human and civil rights and freedoms in Ukraine.</p> <p>GC15. Ability to preserve and enhance moral, cultural, and scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society, and in the development of society, techniques, and technologies; ability to use various types and forms of physical activity for active recreation and leading a healthy lifestyle.</p> <p>GC16. Ability to make decisions and act in compliance with the principle of zero tolerance for corruption and any other manifestations of misconduct (academic/professional dishonesty).</p>
<p>Special (professional, subject-specific) competencies (PC)</p>	<p>PC1. Ability to collect medical information about the patient and analyze clinical data.</p> <p>PC2. Ability to determine the required list of laboratory and instrumental examinations and evaluate their results.</p> <p>PC3. Ability to establish preliminary and clinical diagnoses of diseases.</p> <p>PC4. Ability to determine the necessary work and rest regimen for the treatment and prevention of diseases.</p> <p>PC5. Ability to determine dietary patterns (nutritional requirements) for the treatment and prevention of diseases.</p> <p>PC6. Ability to determine the principles and nature of treatment and prevention of diseases.</p> <p>PC7. Ability to diagnose emergency conditions.</p> <p>PC8. Ability to determine tactics and provide emergency medical care.</p> <p>PC9. Ability to carry out medical evacuation measures.</p> <p>PC10. Ability to perform medical procedures and manipulations.</p> <p>PC11. Ability to solve medical problems in new or unfamiliar environments with incomplete or limited information, considering aspects of social and ethical responsibility, including the early intervention system.</p> <p>PC12. Ability to determine management tactics for physiological pregnancy, physiological labor, and the postpartum period. Counseling skills in family planning and contraceptive selection.</p> <p>PC13. Ability to conduct sanitary-hygienic and preventive measures.</p> <p>PC14. Ability to plan and conduct preventive and anti-epidemic measures regarding infectious diseases.</p> <p>PC15. Ability to conduct work capacity assessment (medical examination of disability).</p> <p>PC16. Ability to maintain medical documentation, including electronic health records (EHR).</p>

	<p>PC17. Ability to assess the impact of environmental, socio-economic, and biological determinants on the health status of an individual, family, and population.</p> <p>PC18. Ability to analyze the activities of a physician, department, or healthcare facility; to ensure the quality of medical care and increase the efficiency of medical resource utilization.</p> <p>PC19. Ability to organize and integrate healthcare delivery to the population and conduct marketing of medical services.</p> <p>PC20. Ability to conduct epidemiological and medico-statistical studies of population health; processing of social, economic, and medical information.</p> <p>PC21. Ability to communicate one's knowledge, conclusions, and reasoning regarding healthcare issues and related topics clearly and unambiguously to both specialists and non-specialists, including learners (trainees).</p> <p>PC22. Ability to manage complex and unpredictable work processes in the healthcare sector that require new strategic approaches.</p> <p>PC23. Ability to develop and implement scientific and applied projects in the field of healthcare.</p> <p>PC24. Adherence to ethical principles when working with patients and laboratory animals.</p> <p>PC25. Adherence to professional and academic integrity; taking responsibility for the reliability of obtained scientific results.</p>
7 – Programme learning outcomes	
	<p>PLO 1. Possess foundational knowledge of the structure of professional activity. Ability to carry out professional activities that require the updating and integration of knowledge. Demonstrate responsibility for professional development and the capacity for further professional learning with a high level of autonomy.</p> <p>PLO 2. Understanding and knowledge of fundamental and clinical biomedical sciences at a level sufficient for solving professional tasks in the healthcare sector.</p> <p>PLO 3. Specialized conceptual knowledge, including scientific achievements from the perspective of evidence-based medicine in healthcare, providing a basis for research; critical reflection on problems in medicine and related interdisciplinary issues, including the early intervention system.</p> <p>PLO 4. Identify and recognize leading clinical symptoms and syndromes (according to List 1); using standard methods and based on the patient's medical history, physical examination data, and knowledge of human anatomy and physiology, establish a preliminary clinical diagnosis of the disease (according to List 2).</p> <p>PLO 5. Collect complaints, medical and life history; evaluate the patient's psychomotor and physical development, and the state of body organs and systems; evaluate information regarding the diagnosis based on laboratory and instrumental examination results (according to List 4), considering the patient's age.</p> <p>PLO 6. Establish a final clinical diagnosis through reasoned decision-making and analysis of subjective and objective data from clinical and additional examinations, performing differential diagnosis while adhering to relevant ethical and legal norms, under the supervision of</p>

	<p>a supervising physician in a healthcare facility (according to List 2).</p> <p>PLO 7. Prescribe and analyze additional (mandatory and elective) examination methods (laboratory, functional, and/or instrumental) (according to List 4) for patients with diseases of body organs and systems for differential diagnosis (according to List 2).</p> <p>PLO 8. Determine the primary clinical syndrome or the cause of the severity of the victim's/patient's condition (according to List 3) through reasoned decision-making and assessment of the individual's state under any circumstances (within or outside a healthcare facility), including emergencies, combat conditions, field conditions, and situations with incomplete information and time constraints.</p> <p>PLO 9. Determine the nature and principles of treatment (conservative or surgical) for patients with diseases (according to List 2), considering the patient's age, within or outside a healthcare facility and at stages of medical evacuation, including field conditions; based on the preliminary clinical diagnosis and adhering to ethical and legal norms, make reasoned decisions according to existing algorithms and standard protocols (including international ones) based on the principles of evidence-based medicine; justify personalized recommendations if the standard protocol needs expansion, under the supervision of a supervising physician.</p> <p>PLO 10. Determine the necessary work, rest, and nutritional regimen based on the final clinical diagnosis, adhering to ethical and legal norms, through reasoned decision-making according to existing algorithms and standard protocols.</p> <p>PLO 11. Determine the approach, plan, and tactics for managing physiological pregnancy, physiological labor, and the postpartum period through reasoned decision-making according to existing algorithms and standard protocols.</p> <p>PLO 12. Assess the general condition of a newborn child through reasoned decision-making according to existing algorithms and standard protocols, adhering to relevant ethical and legal norms.</p> <p>PLO 13. Assess and monitor child development, provide recommendations on breastfeeding and age-specific nutrition, and organize preventive vaccinations according to the immunization schedule.</p> <p>PLO 14. Determine tactics and provide emergency medical care in urgent conditions (according to List 3) under time constraints, in accordance with existing clinical protocols and treatment standards.</p> <p>PLO 15. Organize medical care delivery and medical evacuation measures for the population and military personnel during emergencies and combat actions, including field conditions.</p> <p>PLO 16. Formulate rational medical routes for patients; organize interaction with colleagues within and outside their own facility/organization; apply medical service promotion tools based on population needs analysis within the functioning of a healthcare facility or department in a competitive environment.</p> <p>PLO 17. Perform medical manipulations (according to List 5) in a clinical setting, at home, or at a workplace based on a preliminary clinical diagnosis and/or the patient's status through reasoned decision-making, adhering to ethical and legal norms.</p> <p>PLO 18. Determine the functional state, activity limitations, and</p>
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	<p>duration of incapacity for work, completing relevant documentation in a healthcare facility based on disease data, its progression, and the individual's professional activity specifics. Maintain medical records for patients and populations based on regulatory documents.</p> <p>PLO 19. Plan and implement a system of anti-epidemic and preventive measures regarding the onset and spread of diseases among the population.</p> <p>PLO 20. Analyze the epidemiological situation and carry out measures for mass, individual, general, and local prevention of infectious diseases.</p> <p>PLO 21. Search for necessary information in professional literature, databases, and other sources; analyze, evaluate, and apply this information.</p> <p>PLO 22. Apply statistical data analysis methods to solve complex healthcare problems.</p> <p>PLO 23. Apply modern digital, information, and communication technologies, as well as specialized software, in professional activity and professional self-development.</p> <p>PLO 24. Evaluate the impact of the environment on human health to assess the morbidity rates of the population.</p> <p>PLO 25. Organize the necessary level of individual safety (for oneself and those under care) in case of typical dangerous situations within the individual field of activity.</p> <p>PLO 26. Communicate one's knowledge, conclusions, and arguments regarding healthcare issues and related topics clearly and unambiguously to specialists and non-specialists; manage conflicts at interpersonal and organizational (professional) levels; establish effective communication in professional and non-professional environments.</p> <p>PLO 27. Manage complex and unpredictable work processes in the healthcare sector that require new strategic approaches; organize work and professional development of personnel considering acquired teamwork skills, leadership, quality, accessibility, equity, and the provision of integrated medical care.</p> <p>PLO 28. Communicate fluently in the state language and English, both orally and in writing, to discuss professional activities, research, and projects.</p> <p>PLO 29. Make effective decisions on healthcare issues, assess required resources, and consider social, economic, and ethical consequences while understanding the economic principles of healthcare functioning and medical marketing specifics.</p> <p>PLO 30. Plan, organize, and conduct specific prevention measures for infectious diseases, including mandatory and recommended ones according to the National Immunization Schedule. Manage vaccine stocks, organize additional vaccination campaigns, and carry out immunoprophylaxis measures.</p> <p>PLO 31. Act in the professional sphere considering one's own freedom and safety in cooperation and understanding with members of society (both specialists and non-specialists); ability to make decisions independently and take responsibility for one's actions; work effectively in a team guided by the principles of leadership and mutual respect.</p>
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8 – Resource provision for the implementation of the programme	
Staffing	<p>Meets the staff requirements for conducting educational activities at the second (Master) level of higher education and the study programme, that provides for the qualification in professions for which additional regulation has been introduced, established by the Resolution of the Cabinet of Ministers of Ukraine No. 1187 dated December 30, 2015 ‘On Approval of Licensing Conditions for Educational Activities of Educational Institutions’ (as amended). Head of Programme: Doctor of Medical Science, Professor.</p>
Material and technical support	<p>The provision of educational premises for the respective departments, computer workstations, and multimedia equipment complies with the Licensing Conditions for Educational Activities, approved by Resolution of the Cabinet of Ministers of Ukraine No. 1187, dated December 30, 2015 (as amended). The university maintains 7 civil defence shelters certified by the State Emergency Service of Ukraine (SESU). Clinical training facilities are fully available for practical education. The university operates a comprehensive network of specialized facilities, including: ‘University Hospital’ branch; Research Institute of Experimental and Clinical Medicine of KhNMU; Ukrainian Institute of Mitochondrial and Epigenomic Medicine; Scientific and Practical Center for Preclinical and Clinical Research; Palliative Medicine Center; Central Research Laboratory and the Experimental Biological Clinic; 10 Problem-Based Research Laboratories; Tactical Medicine Training Center; Simulation Center, 3D Technology Center and Distance Learning Center of the Educational and Scientific Institute of Education Quality; Gender Education Center; Professor V.D. Otamanovskiy Center for Medical History; ‘Museum of Medicine’ complex; 4 Educational, Scientific, and Production Associations.</p> <p>KhNMU maintains 32 local area networks (LANs) and 55 wireless access points (Wi-Fi). The network and communication infrastructure are entirely based on fiber-optic technologies with data transfer speeds of up to 1 Gbps. There are 22 computer labs available for student use. Internet access is free of charge and unlimited for all students.</p> <p>All necessary social and living infrastructure is provided, including guaranteed students’ accommodation in university dormitories. University buildings and educational premises are fully equipped to ensure barrier-free access for persons with disabilities and other mobile-impaired groups.</p>
Informational and methodological support	<p>Educational and methodological support is provided via the university’s official website (knmu.edu.ua), the Scientific Library, as well as distance and blended learning platforms and the Automated Management System (AMS).</p> <p>The KhNMU Scientific Library maintains a dedicated web portal (libr.knmu.edu.ua), which serves as a streamlined access point to diverse educational and scientific resources, categorized as follows:</p> <p>Internal Resources (In-house Generation):</p> <ul style="list-style-type: none"> - KhNMU Institutional Repository: The university's primary electronic archive and the first among Ukrainian medical universities to provide open access to educational and scientific materials. It

	<p>contains 32,500 full-text documents, including over 3,000 educational manuals and lecture materials, facilitating 24/7 student self-study.</p> <ul style="list-style-type: none"> - Professionally Oriented E-Content (POEC): A web index featuring links to full-text educational and scientific book editions from the repositories of various Ukrainian universities and research institutions (3,256 titles). - Electronic Catalogue comprises over 330,000 bibliographic records, including more than 11,000 links to full-text materials (textbooks, manuals, conference proceedings, periodicals, etc.). The library constantly updates problem-oriented databases focused on the university's key research areas: 'Health of the Healthy', 'Minimally Invasive Interventions', 'Cardiovascular Diseases', 'Viral and Bacterial Infections', as well as topical fields like 'Evidence-Based Medicine' and 'Military Medicine'. <p>External Resources:</p> <ul style="list-style-type: none"> - Biomedical Databases: Access to specialized databases including PubMed, Medline, Cochrane Library, DOAJ, Open J-Gate, BioOne, and others. - Scientometric Databases: Full access to Scopus and Web of Science. - International Collections: Access to resources from 30 international companies via the collection 'Relevant Resources Supporting Ukrainian Educators and Scientists in Wartime', including AMBOSS, ScienceDirect, Springer, BMJ Best Practice, BMJ Learning, CAPSULE, EBSCO Health, Coursera, CASUS, and more. - Curated Thematic Collections: Ongoing development of collections such as 'Academic Integrity', 'Soft Skills Development', 'Open Educational Resources', 'Open Journals', and 'Resources on the History of Ukraine and Ukrainian Language'. <p>To support learning and board exam preparation, the university provides free access to 'Bricks' (fundamental medicine cases) on the USMLE-Rx online platform by MediQ Learning (USA). The library is equipped with automated workstations specifically designated for this software.</p> <p>During martial law in Ukraine, the KHNMU Scientific Library operates in a hybrid format, providing both on-site and remote services.</p> <p>The infrastructure for the educational process includes Moodle, Google Workspace for Education, MS Teams, and the AMS. Distance Learning Center coordinates and supports the educational process, particularly synchronous learning, distance education technologies, and hybrid-format classes.</p>
9 – Academic mobility	
National credit mobility	National credit mobility is carried out in accordance with the Law of Ukraine 'On higher education' and agreements between educational institutions with the possibility of credit transfer.
International credit mobility	International credit mobility is carried out in accordance with the Law of Ukraine "On higher education" and agreements between educational institutions with the possibility of credit transfer. The University's partner institutions include: Çukurova University

	(Turkey); School of Clinical Medicine, University of Cambridge (United Kingdom); Vilnius University (Lithuania); University of Warsaw (Poland), among others.
International student admission	Within the licensed scope of the subject area.

2. List of educational components of the study programme and their logical sequence

2.1. List of educational components of the study programme

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
Compulsory components (CC)			
CC 1	Ukrainian Language (for Professional Purposes)	3	Credit
CC 2	Latin Language and Medical Terminology	3	Graded Credit
CC 3	Medical Biology	4.5	Exam
CC 4	Medical and Biological Physics; Medical Information Technologies	4	Graded Credit
CC 5	Medical Chemistry	3	Graded Credit
CC 6	Bioorganic Chemistry	3	Graded Credit
CC 7	Human Anatomy	12.5	Exam
CC 8	Histology, Cytology, and Embryology	10.5	Exam
CC 9	Philosophy	3	Credit
CC 10	History and Culture of Ukraine	3	Credit
CC 11	Life Safety; Fundamentals of Bioethics and Biosafety; Occupational Safety and Health in the Field	4	Credit
CC 12	Physical Education	—	Credit
CC 13	First Emergency Aid (Practice)	3	Graded Credit
CC 14	Foreign Language (for Professional Purposes)	5.5	Graded Credit
CC 15	Physiology	8.5	Exam
CC 16	Biological Chemistry	6	Exam
CC 17	Microbiology, Virology, and Immunology	7.5	Exam
CC 18	Hygiene and Ecology	8	Graded Credit
CC 19	Patient Care (Practice)	3	Graded Credit
CC 20	Clinical Anatomy and Operative Surgery	3.5	Graded Credit
CC 21	Military Medical Training	10	Graded Credit
CC 22	Medical Simulations (Practice)	4	Graded Credit
CC 23	Pathomorphology	7	Exam
CC 24	Pathophysiology	7	Exam
CC 25	Pharmacology	7	Exam
CC 26	Social Medicine, Public Health with Fundamentals of Evidence-Based Medicine and Scientific Research Methods in Medicine	8.5	Exam, Graded Credit
CC 27	Propaedeutics of Medicine	13.5	Graded Credit
CC 28	Nursing Practice	3	Graded Credit
CC 29	Radiology	3.5	Graded Credit
CC 30	Medical Psychology	3	Credit
CC 31	Internal Medicine	17	Graded Credit, Exam

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
CC 32	Pediatrics	8.5	Graded Credit, Exam
CC 33	Surgery	11	Graded Credit, Exam
CC 34	Obstetrics and Gynecology	7	Graded Credit, Exam
CC 35	Urology	3	Graded Credit
CC 36	Neurology	4	Exam
CC 37	Psychiatry and Narcology	3	Exam
CC 38	Dermatology and Venereology	3	Graded Credit
CC 39	Forensic Medicine; Medical Law	3	Graded Credit
CC 40	Clinical Medical Practice	10	Graded Credit
CC 41	Otorhinolaryngology	3	Graded Credit
CC 42	Ophthalmology	3	Graded Credit
CC 43	Physical Rehabilitation and Sports Medicine	3	Graded Credit
CC 44	Phthisiology	3	Graded Credit
CC 45	Infectious Diseases	3.5	Graded Credit
CC 46	Epidemiology and Principles of Evidence-Based Medicine	3	Graded Credit
CC 47	Oncology and Radiation Medicine	4	Graded Credit
CC 48	Traumatology and Orthopedics	3	Graded Credit
CC 49	Emergency and Urgent Medical Care	3	Graded Credit
CC 50	General Practice (Family Medicine)	3	Graded Credit
CC 51	Anesthesiology and Intensive Care	3	Graded Credit
Total study load for compulsory components:		269	
Elective components (OC)			
EC 1	Fundamentals of Psychology and Pedagogy	4	Credit
EC 2	History of Medicine	4	Credit
EC 3	Professional Speech for Healthcare Workers	4	Credit
EC 4	Regional Medical History (Medical Kraieznavstvo)	4	Credit
EC 5	European Computer Driving Licence (ECDL) Standards	4	Credit
EC 6	Ethics	4	Credit
EC 7	Sociology and Medical Sociology	4	Credit
EC 8	Religious Studies	4	Credit
EC 9	Fundamentals of Economic Theories	4	Credit
EC 10	Foreign Language	4/3	Credit
EC 11	Culturology	4	Credit
EC 12	Ukrainian as a Foreign Language	4	Credit
EC 13	Political Science	4	Credit
EC 14	Healthcare System Informatization	4	Credit
EC 15	Anti-corruption and Integrity	4	Credit
EC 16	Foreign Language (for Professional Purposes)	3	Credit
EC 17	Logic and Formal Logic	4	Credit
EC 18	Deontology in Medicine	3	Credit
EC 19	Modern Problems of Biophysics	4	Credit
EC 20	Second Foreign Language	3	Credit
EC 21	Etiquette in Society and Medicine	4	Credit
EC 22	Academic Integrity	3	Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 23	Fundamentals of Patenting	4	Credit
EC 24	Physical Education and Health	3	Credit
EC 25	History of Healthcare in Kharkiv	4	Credit
EC 26	Prescriptions: History, Grammar, and Features of Drug Form Prescribing	3	Credit
EC 27	Emotional Intelligence	3	Credit
EC 28	Development of Doctor's Soft Skills	3	Credit
EC 29	Ethnography	3	Credit
EC 30	Advertising and Information Technologies	3	Credit
EC 31	Advanced Anatomy, Medical Biology, and Histology (USQE/EDKI Prep)	3	Credit
EC 32	Advanced Physiology, Biochemistry, and Microbiology (USQE/EDKI Prep)	3	Credit
EC 33	Modern Methods of Genetic Diagnostics	3	Credit
EC 34	Ethical Issues in Medicine	3	Credit
EC 35	Fundamentals of Social Psychology	3	Credit
EC 36	Nutrition Science	3	Credit
EC 37	Adverse Drug Reactions	3	Credit
EC 38	Medicine and Arts	3	Credit
EC 39	Fundamentals of Christian Ethics and Morality	3	Credit
EC 40	Clinical Environmental Medicine	3	Credit
EC 41	History of the Modern World	3	Credit
EC 42	Molecular Biology in Medicine	3	Credit
EC 43	Humanity and Empathy in Clinical Practice	3	Credit
EC 44	Modern Clinical-Anatomical Approaches in Abdominal Surgery	3	Credit
EC 45	Fundamentals of Optometry	3	Credit
EC 46	Emergency Clinical and Instrumental Diagnostics of Urgent States in Internal Medicine (Wartime)	3	Credit
EC 47	Basic Principles of Electrocardiographic Diagnostics	3	Credit
EC 48	Fundamentals of Clinical-Laboratory Diagnostics of Broncho-pulmonary Pathology	3	Credit
EC 49	Interpretation of Laboratory Methods in Internal Disease Diagnostics	3	Credit
EC 50	Clinical Pathophysiology	3	Credit
EC 51	Clinical Biochemistry	3	Credit
EC 52	Phytotherapy	3	Credit
EC 53	Prevention of Tobacco, Alcohol, and Substance Abuse	3	Credit
EC 54	Fundamentals of Psychoanalysis	3	Credit
EC 55	Medical Subculture	3	Credit
EC 56	Modern Algorithms in Physiotherapy, Balneology, and Rehabilitation	3	Credit
EC 57	Methodology of Evidence-Based Medicine	3	Credit
EC 58	Medical Cosmetology	3	Credit
EC 59	Inequality and Discrimination in Society	3	Credit
EC 60	Fundamentals of Cardiology	3	Credit
EC 61	Fundamentals of Electrocardiography	3	Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 62	Advanced Clinical Medicine Skills (USQE/EDKI Prep)	3	Credit
EC 63	Clinical Case Analysis via Problem-Based Learning (PBL) (USQE/EDKI Prep)	3	Credit
EC 64	Bioethics	3	Credit
EC 65	Clinical Laboratory Diagnostics	3	Credit
EC 66	Instrumental Research Methods in Pulmonology. Pulmonary Function Assessment	3	Credit
EC 67	Global Trends in Vaccination	3	Credit
EC 68	Fundamentals of Pulmonology	3	Credit
EC 69	Fundamentals of Neuro-ophthalmology	3	Credit
EC 70	Fundamentals of Abdominal Ultrasound	3	Credit
EC 71	Fundamentals of Ultrasound Diagnostics	3	Credit
EC 72	The Critical Patient. Evacuation and Triage of Military and Civilian Patients	3	Credit
EC 73	Medical Care in Disasters: Radiation, Biological, Chemical (CBRN) Safety and Decontamination	3	Credit
EC 74	Tactical Medicine	3	Credit
EC 75	International Humanitarian Law	3	Credit
EC 76	Business Planning and Management in Healthcare	3	Credit
EC 77	Healthcare System Development Strategy	3	Credit
EC 78	Simulation in Medical Education	3	Credit
EC 79	Clinical Pharmacology of Combat Trauma	3	Credit
EC 80	Scientific Research Methodology in Healthcare	3	Credit
EC 81	Autopsy and Biopsy Course	3	Credit
EC 82	Fundamentals of Stomatology	3	Credit
EC 83	Medical Genetics	3	Credit
EC 84	Radiation Medicine	3	Credit
EC 85	Vascular Surgery	3	Credit
EC 86	Age-Related Aspects of Pharmacotherapy	3	Credit
EC 87	Fundamentals of Sexology and Sexopathology	3	Credit
EC 88	Fundamentals of Reflexotherapy	3	Credit
EC 89	Fundamentals of Gerontology and Geriatrics	3	Credit
EC 90	Instrumental Methods of Functional Diagnostics	3	Credit
EC 91	Modern Algorithms for Diagnosis and Treatment in Rheumatology	3	Credit
EC 92	Modern Algorithms for Diagnosis and Treatment in Gastroenterology	3	Credit
EC 93	Modern Algorithms for Diagnosis and Treatment in Pulmonology	3	Credit
EC 94	Modern Algorithms for Diagnosis and Treatment in Neurology	3	Credit
EC 95	Modern Diagnostic Algorithms in Clinical Pathomorphology	3	Credit
EC 96	Physiotherapy in Cosmetology	3	Credit
EC 97	Fundamentals of Andrology	3	Credit
EC 98	Philosophy of Family and Career	3	Credit
EC 99	Medicine and Politics	3	Credit
EC 100	Modern Aspects of Forensic Traumatology	3	Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 101	Forensic Medical Aspects of Physician Activity	3	Credit
EC 102	Molecular Allergology	3	Credit
EC 103	ECG Interpretation	3	Credit
EC 104	Tropical Skin and Venereal Diseases	3	Credit
EC 105	Ultrasound in Obstetrics and Gynecology	3	Credit
EC 106	Modern Algorithms for Treatment of Comorbid Conditions	3	Credit
EC 107	Modern Diagnostic Methods in Cardiology	3	Credit
EC 108	Clinical Assessment of Laboratory Studies	3	Credit
EC 109	Fundamentals of Hematology	3	Credit
EC 110	General Epidemiology with Fundamentals of Evidence-Based Medicine	3	Credit
EC 111	First Aid and Emergency Ophthalmic Care in Combat Conditions	3	Credit
EC 112	Pharmacotherapy in Emergencies and Wartime	3	Credit
EC 113	Pharmacotherapy of Major Diseases in Modern Warfare	3	Credit
EC 114	Modern Diagnostic and Treatment Algorithms in Wartime Neurology	3	Credit
EC 115	Abdominal Ultrasound in Internal Medicine	3	Credit
EC 116	Medical Information Systems	3	Credit
EC 117	Pathophysiological Aspects of Somatic Diseases	3	Credit
EC 118	Disaster Medicine	3	Credit
EC 119	Emergency Medical Care	3	Credit
EC 120	Newborn Care in Wartime	3	Credit
EC 121	Occupational Safety in Medicine	3	Credit
EC 122	Ultrasound in Endocrinology	3	Credit
EC 123	Echocardiography in Cardiovascular Diseases	3	Credit
EC 124	Endoscopy in Gynecological Practice	3	Credit
EC 125	Fundamentals of Perinatology	3	Credit
EC 126	Ambulatory and Outpatient Care in Obstetrics and Gynecology	3	Credit
EC 127	Ultrasound in Emergency Cardiology	3	Credit
EC 128	Ultrasound in Urgent States	3	Credit
EC 129	Algorithms for Diagnosis and Treatment of Thermal Trauma	3	Credit
EC 130	Simulation and Case-based Learning (USQE/EDKI Prep)	3	Credit
EC 131	Palliative and Hospice Medicine	3	Credit
EC 132	Clinical Microbiology, Virology, and Immunology	4	Credit
EC 133	Modern Diagnostic and Treatment Algorithms for ENT Pathology	4	Credit
EC 134	Non-Pharmacological Treatment and Rehabilitation	3	Credit
EC 135	Modern Diagnostic and Treatment Algorithms in Endocrinology	4	Credit
EC 136	Organizational Fundamentals of Family Medicine	3	Credit
EC 137	Fundamentals of Transplantology	4	Credit
EC 138	Clinical Parasitology and Tropical Medicine	4	Credit
EC 139	HIV Management and Prevention	3	Credit
EC 140	Extreme Medicine	4	Credit
EC 141	Plastic and Reconstructive Surgery	4	Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 142	Modern Diagnostic and Treatment Algorithms in Cardiac Surgery	4	Credit
EC 143	Modern Diagnostic and Treatment Algorithms in Neurosurgery	4	Credit
EC 144	Modern Algorithms in Hematology and Transfusiology	4	Credit
EC 145	Modern Diagnostic and Treatment Algorithms in Cardiology	4	Credit
EC 146	Modern Diagnostic and Treatment Algorithms in Nephrology	4	Credit
EC 147	Algorithms in Clinical Immunology and Allergology	4	Credit
EC 148	Modern Algorithms of Immunoprophylaxis	4	Credit
EC 149	Medical Aspects of Bioethics and Biosafety	4	Credit
EC 150	Management and Prevention of Vascular Nervous System Pathology	4	Credit
EC 151	Endoscopic Technologies in Medicine	4	Credit
EC 152	Medical Rehabilitation	3	Credit
EC 153	Clinical Radiology	4	Credit
EC 154	Medical Personalities of Kharkiv	4	Credit
EC 155	Fundamentals of Molecular, Cellular, and Nanomedicine	4	Credit
EC 156	ECG in Clinical Practice	3	Credit
EC 157	Drug Allergy in Clinical Practice	3	Credit
EC 158	Epidemiology and Prevention of Healthcare-Associated Infections	3	Credit
EC 159	Epidemiological Methods in Clinical Medicine and EBM	3	Credit
EC 160	Legal Support of Medical Activity	3	Credit
EC 161	Management of Rheumatic Patients	3	Credit
EC 162	Pediatric Cardiology and Functional Diagnostics	3	Credit
EC 163	Evidence-Based Pulmonology and Vaccination Standards in Pediatrics	3	Credit
EC 164	Functional Diagnostics in Pediatric Practice	3	Credit
EC 165	Pediatric Emergency	3	Credit
EC 166	Critical States in Neonatology	3	Credit
EC 167	Developmental Endocrinology	3	Credit
EC 168	Clinical Nutrition and Pediatric Palliative Care	3	Credit
EC 169	Fundamentals of Cardiac Ultrasound	3	Credit
EC 170	Fundamentals of Holter Monitoring	3	Credit
EC 171	Modern Diagnostic and Treatment Algorithms in Pediatric Allergology	3	Credit
EC 172	Modern Diagnostic and Treatment Algorithms in Phthisiology	3	Credit
EC 173	Ophthalmic Diagnostics in Family Doctor Practice	3	Credit
EC 174	Cardio-oncology	3	Credit
EC 175	Pediatric Infectology in Crises and Wartime	3	Credit
EC 176	History of Ukraine in a Global Dimension	3	Credit
EC 177	Fundamentals of Oncosurgery	3	Credit
EC 178	Headache Management and Prevention	3	Credit
EC 179	mhGAP Mental Health Management in Family Doctor Practice	3	Graded Credit
EC 180	Elective from other educational programs	3/4	Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 181	Theoretical Preparation for Basic General Military Training*	3	Credit
EC 182	First on Scene: Teamwork	3	Credit
Elective Block 1 (EB)			
EB1	Medical Simulations (Practice)	3	
EC1.1	Medical Simulations in Surgery (Practice)	3	Graded Credit
EC1.2	Medical Simulations in Internal Medicine (Practice)	3	Graded Credit
EC1.3	Medical Simulations in Obstetrics and Gynecology (Practice)	3	Graded Credit
EC1.4	Medical Simulations in General Practice – Family Medicine (Practice)	3	Graded Credit
Elective Block 2			
EB 2	Family Medicine Profile	41	Graded Credit
EC 2.1.1	General Practice (Family Medicine)	3	Graded Credit
EC 2.1.2	Comorbid Pathology in General Practice	3	Graded Credit
EC 2.2	Internal Medicine	11	Graded Credit
EC 2.3	Pediatrics with Children's Infectious Diseases in General Practice	6.5	Graded Credit
EC 2.4	Surgery, including Pediatric Surgery in General Practice	7.5	Graded Credit
EC 2.5	Obstetrics and Gynecology in General Practice	3	Graded Credit
EC 2.6	Infectious Diseases	3	Graded Credit
EC 2.7	Medical Simulations and Specialized Medical Practice according to the Profile	4	Graded Credit
Elective Block 3			
EB 3	Internal Medicine Profile	41	Graded Credit
EC3.1	Internal Medicine:		Graded Credit
EC3.1.1	Functional Diagnostics and Urgent States in Internal Medicine	5	Graded Credit
EC3.1.2	Cardiology and Rheumatology	3	Graded Credit
EC3.1.3	Gastroenterology	3	Graded Credit
EC3.1.4	Pulmonology	3	Graded Credit
EC 3.2	Pediatrics and Children's Infectious Diseases	6	Graded Credit
EC 3.3	Surgery, including Pediatric Surgery	8	Graded Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 3.4	Obstetrics and Gynecology	3	Graded Credit
EC 3.5	Infectious Diseases	3	Graded Credit
EC 3.6	General Practice (Family Medicine)	3	Graded Credit
EC 3.7	Medical Simulations and Specialized Medical Practice according to the Profile	4	Graded Credit
Elective Block 4			
EB 4	Surgery Profile	41	Graded Credit
EC4.1	Surgery:		Graded Credit
EC4.1.1	Urgent States in Surgery	3	Graded Credit
EC4.1.2	Elective Surgical Pathology, including Pediatric Surgery	4.5	Graded Credit
EC4.1.3	Cardiovascular Surgery	3	Graded Credit
EC4.1.4	Thoraco-laparoscopic Technologies in Surgery	3	Graded Credit
EC 4.2	Internal Medicine	8.5	Graded Credit
EC 4.3	Pediatrics and Children's Infectious Diseases	5	Graded Credit
EC 4.4	Obstetrics and Gynecology	4	Graded Credit
EC 4.5	General Practice (Family Medicine)	3	Graded Credit
EC 4.6	Infectious Diseases	3	Graded Credit
EC 4.7	Medical Simulations and Specialized Medical Practice according to the Profile	4	Graded Credit
Elective Block 5			
EB 5	Obstetrics and Gynecology Profile	41	Graded Credit
EC5.1.1	Obstetrics and Gynecology:	4	Graded Credit
EC5.1.2	Urgent States in Obstetrics, Gynecology, and Perinatology	3	Graded Credit
EC5.1.3	Endoscopic Methods for the Treatment of Female Reproductive System Disorders	3	Graded Credit
EC 5.2	Internal Medicine	7,5	Graded Credit
EC 5.3	Pediatrics and Children's Infectious Diseases	5,75	Graded Credit
EC 5.4	Surgery, including Pediatric Surgery	7,75	Graded Credit

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Form of final control
EC 5.5	General Practice (Family Medicine)	3	Graded Credit
EC 5.6	Infectious Diseases	3	Graded Credit
EC 5.7	Medical Simulations and Specialized Medical Practice according to the Profile	4	Graded Credit
Total study load for compulsory components:		91	
TOTAL STUDY LOAD FOR THE STUDY PROGRAMME:		360	

*The elective component 'Theoretical Preparation for Basic General Military Training' is mandatory for selection by male citizens of Ukraine in accordance with the Resolution of the Cabinet of Ministers of Ukraine No. 734, dated June 21, 2024, 'On Approval of the Procedure for Conducting Basic General Military Training for Citizens of Ukraine Obtaining Higher Education and for Police Officers', and Article 10-1 of the Law of Ukraine 'On Military Duty and Military Service', except for those exempted from this educational component.

2.2. Structural and logical scheme of the study programme

Component code	Educational components (subjects, courseworks, practical trainings, degree project)	Number of ECTS credits	Years of study					
			1 st	2	3	4	5	6
1	2	3	4	5	6	7	8	9
Compulsory components (CC)								
CC 1	Ukrainian Language (for Professional Purposes)	3	*					
CC 2	Latin Language and Medical Terminology	3	*					
CC 3	Medical Biology	4.5	*					
CC 4	Medical and Biological Physics; Medical Information Technologies	4	*					
CC 5	Medical Chemistry	3	*					
CC 6	Bioorganic Chemistry	3	*					
CC 7	Human Anatomy	12.5	*	*				
CC 8	Histology, Cytology, and Embryology	10.5	*	*				
CC 9	Philosophy	3	*					
CC 10	History and Culture of Ukraine	3	*					
CC 11	Life Safety; Fundamentals of Bioethics and Biosafety; Occupational Safety and Health in the Field	4	*					
CC 12	Physical Education	—	*	*				
CC 13	First Emergency Aid (Practice)	3	*					
CC 14	Foreign Language (for Professional Purposes)	5.5	*	*				
CC 15	Physiology	8.5		*				
CC 16	Biological Chemistry	6		*				
CC 17	Microbiology, Virology, and Immunology	7.5		*	*			
CC 18	Hygiene and Ecology	8		*	*			*
CC 19	Patient Care (Practice)	3		*				
CC 20	Clinical Anatomy and Operative Surgery	3.5		*				
CC 21	Military Medical Training	10		*		*	*	
CC 22	Medical Simulations (Practice)	4		*	*			
CC 23	Pathomorphology	7			*			
CC 24	Pathophysiology	7			*			
CC 25	Pharmacology	7			*			

CC 26	Social Medicine, Public Health with Fundamentals of Evidence-Based Medicine and Scientific Research Methods in Medicine	8.5			*	*		*
CC 27	Propaedeutics of Medicine	13.5			*			
CC 28	Nursing Practice	3			*			
CC 29	Radiology	3.5			*			
CC 30	Medical Psychology	3			*			
CC 31	Internal Medicine	17				*	*	
CC 32	Paediatrics	8.5				*	*	
CC 33	Surgery	11				*	*	
CC 34	Obstetrics and Gynaecology	7				*	*	
CC 35	Urology	3				*		
CC 36	Neurology	4				*		
CC 37	Psychiatry and Narcology	3				*		
CC 38	Dermatology and Venereology	3				*		
CC 39	Forensic Medicine; Medical Law	3				*		
CC 40	Clinical Medical Practice	10				*	*	
CC 41	Otorhinolaryngology	3				*		
CC 42	Ophthalmology	3				*		
CC 43	Physical Rehabilitation and Sports Medicine	3				*		
CC 44	Phthisiology	3				*		
CC 45	Infectious Diseases	3.5					*	
CC 46	Epidemiology and Principles of Evidence-Based Medicine	3					*	
CC 47	Oncology and Radiation Medicine	4					*	
CC 48	Traumatology and Orthopaedics	3					*	
CC 49	Emergency and Urgent Medical Care	3					*	
CC 50	General Practice (Family Medicine)	3					*	
CC 51	Anaesthesiology and Intensive Care	3						*
Elective components (EC)								
EC 1	Fundamentals of Psychology and Pedagogy	4	*					
EC 2	History of Medicine	4	*					
EC 3	Professional Speech for Healthcare Workers	4	*					
EC 4	Regional Medical History (Medical Kraieznavstvo)	4	*					
EC 5	European Computer Driving Licence (ECDL) Standards	4	*	*				
EC 6	Ethics	4	*					
EC 7	Sociology and Medical Sociology	4	*					
EC 8	Religious Studies	4	*					
EC 9	Fundamentals of Economic Theories	4	*					
EC 10	Foreign Language	4/3	*	*	*			
EC 11	Culturology	4	*					
EC 12	Ukrainian as a Foreign Language	4	*					
EC 13	Political Science	4	*					
EC 14	Healthcare System Informatization	4	*					
EC 15	Anti-corruption and Integrity	4	*					
EC 16	Foreign Language (for Professional Purposes)	3		*	*	*	*	*
EC 17	Logic and Formal Logic	4		*				
EC 18	Deontology in Medicine	3		*				

EC 19	Modern Problems of Biophysics	4		*				
EC 20	Second Foreign Language	3		*	*			
EC 21	Etiquette in Society and Medicine	4		*				
EC 22	Academic Integrity	3		*				
EC 23	Fundamentals of Patenting	4		*				
EC 24	Physical Education and Health	3		*	*	*	*	*
EC 25	History of Healthcare in Kharkiv	4		*				
EC 26	Prescriptions: History, Grammar, and Features of Drug Form Prescribing	3		*				
EC 27	Emotional Intelligence	3		*				
EC 28	Development of Doctor's Soft Skills	3		*				
EC 29	Ethnography	3		*	*			
EC 30	Advertising and Information Technologies	3		*	*			
EC 31	Advanced Anatomy, Medical Biology, and Histology (USQE/EDKI Prep)	3			*			
EC 32	Advanced Physiology, Biochemistry, and Microbiology (USQE/EDKI Prep)	3			*			
EC 33	Modern Methods of Genetic Diagnostics	3			*			
EC 34	Ethical Issues in Medicine	3			*			
EC 35	Fundamentals of Social Psychology	3			*			
EC 36	Nutrition Science	3			*			
EC 37	Adverse Drug Reactions	3			*			
EC 38	Medicine and Arts	3			*			
EC 39	Fundamentals of Christian Ethics and Morality	3			*	*	*	*
EC 40	Clinical Environmental Medicine	3			*	*		
EC 41	History of the Modern World	3			*			
EC 42	Molecular Biology in Medicine	3			*			
EC 43	Humanity and Empathy in Clinical Practice	3			*	*	*	*
EC 44	Modern Clinical-Anatomical Approaches in Abdominal Surgery	3			*			
EC 45	Fundamentals of Optometry	3			*			
EC 46	Emergency Clinical and Instrumental Diagnostics of Urgent States in Internal Medicine (Wartime)	3			*			
EC 47	Basic Principles of Electrocardiographic Diagnostics	3			*			
EC 48	Fundamentals of Clinical-Laboratory Diagnostics of Broncho-pulmonary Pathology	3			*			
EC 49	Interpretation of Laboratory Methods in Internal Disease Diagnostics	3			*			
EC 50	Clinical Pathophysiology	3				*		
EC 51	Clinical Biochemistry	3				*		
EC 52	Phytotherapy	3				*		
EC 53	Prevention of Tobacco, Alcohol, and Substance Abuse	3				*		
EC 54	Fundamentals of Psychoanalysis	3				*		
EC 55	Medical Subculture	3				*		
EC 56	Modern Algorithms in Physiotherapy, Balneology, and Rehabilitation	3				*		
EC 57	Methodology of Evidence-Based Medicine	3				*		

EC 58	Medical Cosmetology	3				*		
EC 59	Inequality and Discrimination in Society	3				*		
EC 60	Fundamentals of Cardiology	3				*		
EC 61	Fundamentals of Electrocardiography	3				*		
EC 62	Advanced Clinical Medicine Skills (USQE/EDKI Prep)	3				*		
EC 63	Clinical Case Analysis via Problem-Based Learning (PBL) (USQE/EDKI Prep)	3				*		
EC 64	Bioethics	3				*		
EC 65	Clinical Laboratory Diagnostics	3				*		
EC 66	Instrumental Research Methods in Pulmonology. Pulmonary Function Assessment	3				*		
EC 67	Global Trends in Vaccination	3				*		
EC 68	Fundamentals of Pulmonology	3				*		
EC 69	Fundamentals of Neuro-ophthalmology	3				*		
EC 70	Fundamentals of Abdominal Ultrasound	3				*		
EC 71	Fundamentals of Ultrasound Diagnostics	3				*		
EC 72	The Critical Patient. Evacuation and Triage of Military and Civilian Patients	3				*	*	*
EC 73	Medical Care in Disasters: Radiation, Biological, Chemical (CBRN) Safety and Decontamination	3				*	*	*
EC 74	Tactical Medicine	3				*	*	*
EC 75	International Humanitarian Law	3				*	*	*
EC 76	Business Planning and Management in Healthcare	3				*	*	*
EC 77	Healthcare System Development Strategy	3				*	*	*
EC 78	Simulation in Medical Education	3				*	*	
EC 79	Clinical Pharmacology of Combat Trauma	3				*	*	
EC 80	Scientific Research Methodology in Healthcare	3					*	
EC 81	Autopsy and Biopsy Course	3					*	
EC 82	Fundamentals of Stomatology	3					*	
EC 83	Medical Genetics	3					*	
EC 84	Radiation Medicine	3					*	
EC 85	Vascular Surgery	3					*	
EC 86	Age-Related Aspects of Pharmacotherapy	3					*	
EC 87	Fundamentals of Sexology and Sexopathology	3					*	
EC 88	Fundamentals of Reflexotherapy	3					*	
EC 89	Fundamentals of Gerontology and Geriatrics	3					*	
EC 90	Instrumental Methods of Functional Diagnostics	3					*	
EC 91	Modern Algorithms for Diagnosis and Treatment in Rheumatology	3					*	
EC 92	Modern Algorithms for Diagnosis and Treatment in Gastroenterology	3					*	
EC 93	Modern Algorithms for Diagnosis and Treatment in Pulmonology	3					*	

EC 94	Modern Algorithms for Diagnosis and Treatment in Neurology	3					*	
EC 95	Modern Diagnostic Algorithms in Clinical Pathomorphology	3					*	
EC 96	Physiotherapy in Cosmetology	3					*	
EC 97	Fundamentals of Andrology	3					*	
EC 98	Philosophy of Family and Career	3					*	
EC 99	Medicine and Politics	3					*	
EC 100	Modern Aspects of Forensic Traumatology	3					*	
EC 101	Forensic Medical Aspects of Physician Activity	3					*	
EC 102	Molecular Allergology	3					*	
EC 103	ECG Interpretation	3					*	
EC 104	Tropical Skin and Venereal Diseases	3					*	
EC 105	Ultrasound in Obstetrics and Gynecology	3					*	
EC 106	Modern Algorithms for Treatment of Comorbid Conditions	3					*	
EC 107	Modern Diagnostic Methods in Cardiology	3					*	
EC 108	Clinical Assessment of Laboratory Studies	3					*	
EC 109	Fundamentals of Hematology	3					*	
EC 110	General Epidemiology with Fundamentals of Evidence-Based Medicine	3					*	
EC 111	First Aid and Emergency Ophthalmic Care in Combat Conditions	3					*	
EC 112	Pharmacotherapy in Emergencies and Wartime	3					*	
EC 113	Pharmacotherapy of Major Diseases in Modern Warfare	3					*	
EC 114	Modern Diagnostic and Treatment Algorithms in Wartime Neurology	3					*	
EC 115	Abdominal Ultrasound in Internal Medicine	3					*	
EC 116	Medical Information Systems	3					*	*
EC 117	Pathophysiological Aspects of Somatic Diseases	3					*	*
EC 118	Disaster Medicine	3					*	*
EC 119	Emergency Medical Care	3					*	*
EC 120	Newborn Care in Wartime	3					*	*
EC 121	Occupational Safety in Medicine	3					*	*
EC 122	Ultrasound in Endocrinology	3					*	*
EC 123	Echocardiography in Cardiovascular Diseases	3					*	*
EC 124	Endoscopy in Gynecological Practice	3					*	*
EC 125	Fundamentals of Perinatology	3					*	*
EC 126	Ambulatory and Outpatient Care in Obstetrics and Gynecology	3					*	*
EC 127	Ultrasound in Emergency Cardiology	3					*	*
EC 128	Ultrasound in Urgent States	3					*	*
EC 129	Algorithms for Diagnosis and Treatment of Thermal Trauma	3					*	
EC 130	Simulation and Case-based Learning (USQE/EDKI Prep)	3						*
EC 131	Palliative and Hospice Medicine	3						*

EC 132	Clinical Microbiology, Virology, and Immunology	4						*
EC 133	Modern Diagnostic and Treatment Algorithms for ENT Pathology	4						*
EC 134	Non-Pharmacological Treatment and Rehabilitation	3						*
EC 135	Modern Diagnostic and Treatment Algorithms in Endocrinology	4						*
EC 136	Organizational Fundamentals of Family Medicine	3						*
EC 137	Fundamentals of Transplantology	4						*
EC 138	Clinical Parasitology and Tropical Medicine	4						*
EC 139	HIV Management and Prevention	3						*
EC 140	Extreme Medicine	4						*
EC 141	Plastic and Reconstructive Surgery	4						*
EC 142	Modern Diagnostic and Treatment Algorithms in Cardiac Surgery	4						*
EC 143	Modern Diagnostic and Treatment Algorithms in Neurosurgery	4						*
EC 144	Modern Algorithms in Hematology and Transfusiology	4						*
EC 145	Modern Diagnostic and Treatment Algorithms in Cardiology	4						*
EC 146	Modern Diagnostic and Treatment Algorithms in Nephrology	4						*
EC 147	Algorithms in Clinical Immunology and Allergology	4						*
EC 148	Modern Algorithms of Immunoprophylaxis	4						*
EC 149	Medical Aspects of Bioethics and Biosafety	4						*
EC 150	Management and Prevention of Vascular Nervous System Pathology	4						*
EC 151	Endoscopic Technologies in Medicine	4						*
EC 152	Medical Rehabilitation	3						*
EC 153	Clinical Radiology	4						*
EC 154	Medical Personalities of Kharkiv	4						*
EC 155	Fundamentals of Molecular, Cellular, and Nanomedicine	4						*
EC 156	ECG in Clinical Practice	3						*
EC 157	Drug Allergy in Clinical Practice	3						*
EC 158	Epidemiology and Prevention of Healthcare-Associated Infections	3						*
EC 159	Epidemiological Methods in Clinical Medicine and EBM	3						*
EC 160	Legal Support of Medical Activity	3						*
EC 161	Management of Rheumatic Patients	3						*
EC 162	Pediatric Cardiology and Functional Diagnostics	3						*
EC 163	Evidence-Based Pulmonology and Vaccination Standards in Pediatrics	3						*
EC 164	Functional Diagnostics in Pediatric Practice	3						*
EC 165	Pediatric Emergency	3						*

EC 166	Critical States in Neonatology	3						*
EC 167	Developmental Endocrinology	3						*
EC 168	Clinical Nutrition and Pediatric Palliative Care	3						*
EC 169	Fundamentals of Cardiac Ultrasound	3						*
EC 170	Fundamentals of Holter Monitoring	3						*
EC 171	Modern Diagnostic and Treatment Algorithms in Pediatric Allergology	3						*
EC 172	Modern Diagnostic and Treatment Algorithms in Phthisiology	3						*
EC 173	Ophthalmic Diagnostics in Family Doctor Practice	3						*
EC 174	Cardio-oncology	3						*
EC 175	Pediatric Infectology in Crises and Wartime	3						*
EC 176	History of Ukraine in a Global Dimension	3						*
EC 177	Fundamentals of Oncosurgery	3						*
EC 178	Headache Management and Prevention	3						*
EC 179	mhGAP Mental Health Management in Family Doctor Practice	3						*
EC 180	Elective from other educational programs	3/4	*	*	*	*	*	*
EC 181	Theoretical Preparation for Basic General Military Training*	3		*				
EC 182	First on Scene: Teamwork	3			*			
Elective Block 1								
EB1	Medical Simulations (Practice)	3				*		
EC1.1	Medical Simulations in Surgery (Practice)	3				*		
EC1.2	Medical Simulations in Internal Medicine (Practice)	3				*		
EC1.3	Medical Simulations in Obstetrics and Gynecology (Practice)	3				*		
EC1.4	Medical Simulations in General Practice – Family Medicine (Practice)	3				*		
Elective Block 2								
EB2	Family Medicine Profile	41						*
EC 2.1.1	General Practice (Family Medicine)	3						*
EC 2.1.2	Comorbid Pathology in General Practice	3						*
EC 2.2	Internal Medicine	11						*
EC 2.3	Pediatrics with Children's Infectious Diseases in General Practice	6,5						*
EC 2.4	Surgery, including Pediatric Surgery in General Practice	7,5						*
EC 2.5	Obstetrics and Gynecology in General Practice	3						*
EC 2.6	Infectious Diseases	3						*
EC 2.7	Medical Simulations and Specialized Medical Practice according to the Profile	4						*
Elective Block 3								
EB3	Internal Medicine Profile	41						*
EC3.1	Internal Medicine:							*

EC3.1.1	Functional Diagnostics and Urgent States in Internal Medicine	5						*
EC3.1.2	Cardiology and Rheumatology	3						*
EC3.1.3	Gastroenterology	3						*
EC3.1.4	Pulmonology	3						*
EC 3.2	Pediatrics and Children's Infectious Diseases	6						*
EC 3.3	Surgery, including Pediatric Surgery	8						*
EC 3.4	Obstetrics and Gynecology	3						*
EC 3.5	Infectious Diseases	3						*
EC 3.6	General Practice (Family Medicine)	3						*
EC 3.7	Medical Simulations and Specialized Medical Practice according to the Profile	4						*
Elective Block 4								
EB4	Surgery Profile	41						*
EC4.1	Surgery:							*
EC4.1.1	Urgent States in Surgery	3						*
EC4.1.2	Elective Surgical Pathology, including Pediatric Surgery	4,5						*
EC4.1.3	Cardiovascular Surgery	3						*
EC4.1.4	Thoraco-laparoscopic Technologies in Surgery	3						*
EC 4.2	Internal Medicine	8,5						*
EC 4.3	Pediatrics and Children's Infectious Diseases	5						*
EC 4.4	Obstetrics and Gynecology	4						*
EC 4.5	General Practice (Family Medicine)	3						*
EC 4.6	Infectious Diseases	3						*
EC 4.7	Medical Simulations and Specialized Medical Practice according to the Profile	4						*
Elective Block 5								
EB5	Obstetrics and Gynecology Profile	41						*
EC5.1.1	Obstetrics and Gynecology:	4						*
EC5.1.2	Urgent States in Obstetrics, Gynecology, and Perinatology	3						*
EC5.1.3	Endoscopic Methods for the Treatment of Female Reproductive System Disorders	3						*
EC 5.2	Internal Medicine	7,5						*
EC 5.3	Pediatrics and Children's Infectious Diseases	5,75						*
EC 5.4	Surgery, including Pediatric Surgery	7,75						*
EC 5.5	General Practice (Family Medicine)	3						*
EC 5.6	Infectious Diseases	3						*
EC 5.7	Medical Simulations and Specialized Medical Practice according to the Profile	4						*
Certification					*			*

3. Form of certification of higher education students

Certification of students under the professional study programme 'Medicine' is conducted in the form of the Unified State Qualification Exam (USQE).

The Unified State Qualification Exam is carried out in accordance with the Procedure for the Unified State Qualification Exam for students of professional pre-higher and higher education at the first (Bachelor's) and second (Master's) levels in the field of study 22 'Health'.

Certification is conducted openly and publicly. By the decision of the Examination Commission, an individual who has successfully completed the educational-professional program is awarded a Master's degree and granted the educational qualification 'Master of Medicine' and the professional qualification 'Doctor of Medicine'. Based on this decision, a Master's diploma of the standard form and its diploma supplement are issued.

5. Matrix of correspondence of programme learning outcomes (PLO) to the components of the study programme

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14	PLO15	PLO16	PLO17	PLO18	PLO19	PLO20	PLO21	PLO22	PLO23	PLO24	PLO25	PLO26	PLO27	PLO28	PLO29	PLO30	PLO31	
CC1	+				+																					+		+				
CC2	+																										+					
CC3	+	+	+	+																		+										
CC4	+	+																				+	+	+								
CC5	+	+																				+										
CC6	+	+																				+										
CC7	+	+																				+		+				+				
CC8	+	+																				+		+				+				
CC9	+		+																									+				
CC10	+																															
CC11	+	+	+																+	+	+					+		+				+
CC12	+																		+													
CC13	+	+	+	+	+			+						+			+					+			+	+						+
CC14	+																					+							+			
CC15	+	+	+	+																		+										
CC16	+	+	+	+			+															+										
CC17	+	+	+	+	+		+												+	+	+					+				+		
CC18	+	+	+							+									+	+	+				+	+	+					+
CC19	+				+												+					+				+	+					+
CC20		+				+	+											+														+
CC21	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+				+	+	+	+				+
CC22				+			+	+									+									+						
CC23	+	+	+			+	+															+										+
CC24	+	+	+	+																		+					+					+
CC25	+	+	+																			+										+
CC26			+													+						+	+		+				+			+
CC27	+	+		+	+																	+				+	+					+
CC28	+	+			+									+	+		+		+	+	+					+	+					+

List 1 (Syndromes and Symptoms)

1. Amenorrhea	38. Coma
2. Acromegaly	39. External bleeding (Hemorrhage)
3. Anemic syndrome	40. Internal bleeding (Hemorrhage)
4. Anuria and oliguria	41. Hemoptysis
5. Arterial hypertension	42. Galactorrhea (Lactorrhea)
6. Arterial hypotension	43. Lymphadenopathy
7. Chest pain	44. Meningeal syndrome
8. Abdominal pain	45. Uterine bleeding
9. Pain in extremities and back	46. Edematous syndrome (Edema)
10. Perineal pain	47. Obesity (+Body weight)
11. Sore throat (Pharyngalgia)	48. Paresis, paralysis
12. Vomiting	49. Precocious puberty (Premature sexual development)
13. Broncho-obstructive syndrome	50. Fractures of long (tubular) bones
14. Bulbar syndrome	51. Tension pneumothorax (closed)
15. Pleural effusion	52. Non-tension pneumothorax (open)
16. Hallucinatory-paranoid syndrome	53. Valvular pneumothorax
17. Fever (Pyrexia)	54. Polyuria
18. Hemorrhagic syndrome	55. Portal hypertension
19. Hypoglycemia	56. Speech disorders (Aphasia)
20. Hyperglycemia	57. Heart rhythm and conduction disorders
21. Exanthema, enanthema	58. Sudden cardiac arrest
22. Hepatomegaly and hepatolienal (hepatosplenic) syndrome	59. Disorders of consciousness
23. Headache	60. Pruritus (Skin itching)
24. Dysuria	61. Urinary syndrome
25. Dysmenorrhea	62. Dementia syndrome
26. Dyspepsia	63. Dehydration syndrome
27. Dysphagia	64. Digestion insufficiency syndrome (Malabsorption/Malnutrition)
28. Diarrhea	65. Thirst (Polydipsia)
29. Jaundice (Icterus)	66. Stridor
30. Dyspnea (Shortness of breath)	67. Articular (joint) syndrome
31. Asphyxia	68. Convulsions (Seizures)
32. Constipation	69. Weight loss (Emaciation)
33. Dizziness (Vertigo)	70. Cyanosis
34. Child growth retardation (Stunted growth)	71. Partial or complete loss of vision
35. Cardiomegaly	72. Partial or complete loss of hearing
36. Cough	73. Gastrointestinal bleeding
37. Intestinal obstruction	

List 2 (Diseases)**I) Diseases of the blood and blood-forming organs, and disorders involving the immune mechanism**

1. Anemias
2. Hemolytic disease of the newborn
3. Hemophilia
4. Leukemias
5. Lymphomas
6. Congenital (Bruton's disease, Wiskott-Aldrich syndrome) and acquired immunodeficiency states
7. Neonatal sepsis
8. Surgical sepsis
9. Idiopathic thrombocytopenic purpura (ITP)
10. Chronic radiation injuries

II) Mental and behavioral disorders

11. Bipolar affective disorder
12. Acute psychosis, including delirium tremens (alcoholic delirium)
13. Epilepsy
14. Neurotic disorders
15. Personality disorders
16. Schizophrenia

III) Diseases of the nervous system

17. Intracranial injury
18. Meningitis, encephalitis
19. Migraine and other types of headache
20. Perinatal encephalopathy
21. Autonomic nervous system disorders
22. Cerebrovascular disorders (Disturbances of cerebral circulation)
23. Vertebrogenic diseases of the nervous system, neuropathies, and polyneuropathies
24. Multiple sclerosis
25. Chronic occupational injuries (vibration disease, occupational dyskinesias)
26. Strokes (ischemic, hemorrhagic)

Diseases of the Eye:

27. Blepharitis
28. Glaucoma
29. Conjunctivitis
30. Foreign body in the visual organ (eye)
31. Eye injuries
32. Retinopathies
33. Exophthalmos

Diseases of the Throat, Ear, and Nose (ENT):

34. Laryngitis
35. Otitis
36. Peritonsillar abscess
37. Sinusitis
38. Tonsillitis
39. ENT injuries (Injuries to the throat, ear, and nose)

IV) Diseases of the cardiovascular system

40. Aortic aneurysms
41. Atherosclerosis
42. Varicose veins of the lower extremities
43. Congenital heart defects
44. Secondary arterial hypertension
45. Acute occlusion of major and peripheral arteries
46. Endocarditis
47. Essential and secondary arterial hypertension
48. Ischemic heart disease (Coronary artery disease)
49. Carditis
50. Cardiomyopathies
51. Cor pulmonale (Pulmonary heart)
52. Acquired heart defects (Valvular heart disease)
53. Thromboangiitis obliterans (Buerger's disease / Endarteritis obliterans)
54. Pericarditis
55. Heart rhythm and conduction disorders
56. Heart failure
57. Injuries to the heart and blood vessels
58. Pulmonary embolism (PE)
59. Phlebitis, thrombophlebitis

V) Diseases of the respiratory system and mediastinum

60. Asphyxia
61. Bronchial asthma
62. Bronchitis
63. Bronchiectasis
64. Bronchopulmonary dysplasia
65. Congenital malformations of the respiratory system
66. Acute respiratory distress syndrome (ARDS)
67. Respiratory failure
68. Infectious-destructive lung diseases

69. Pulmonary insufficiency
70. Mediastinitis
71. Cystic fibrosis
72. Neoplasms of the lungs and mediastinum
73. Pleurisy
74. Pneumoconioses
75. Pneumonias
76. Pneumothorax
77. Respiratory distress syndrome and pneumonia of the newborn
78. Foreign body in the airways
79. Chest injuries (superficial, open)
80. Chronic obstructive pulmonary disease (COPD)

VI) Diseases of the digestive system

81. Rectal prolapse
82. Peptic ulcer disease
83. Congenital malformations of the digestive system
84. Gastroesophageal reflux disease (GERD), esophagitis
85. Gastritis, duodenitis
86. Acute and chronic hepatitis
87. Acute intestinal obstruction
88. Acute and chronic appendicitis
89. Acute and chronic pancreatitis
90. Benign diseases of the esophagus
91. Enteritis, colitis
92. Inflammatory diseases of the rectum and perianal region
93. Incarcerated and non-incarcerated abdominal hernias
94. Neoplasms of the esophagus, stomach, colon, liver, and pancreas
95. Peptic ulcers of the stomach and duodenum
96. Peritonitis
97. Perforation of a hollow organ
98. Liver failure
99. Malabsorption syndrome
100. Pyloric stenosis
101. Abdominal injuries (superficial, open)
102. Functional gastrointestinal disorders
103. Post-gastrectomy syndromes (Diseases of the operated stomach)
104. Cholecystitis, cholangitis, cholelithiasis (gallstones), choledocholithiasis
105. Liver cirrhosis
106. Gastrointestinal bleeding

VII) Diseases of the genitourinary system

107. Renal amyloidosis
108. Balanitis, balanoposthitis
109. Congenital malformations of the urinary system
110. Glomerulonephritis
111. Dysmetabolic nephropathies
112. Nephrotic syndrome
113. Neoplasms of the kidney, urinary tract, and prostate
114. Pyelonephritis
115. Prostatitis
116. Urolithiasis (Kidney stones)
117. Tubulointerstitial nephritis
118. Urethritis
119. Chronic kidney disease (CKD)
120. Cystitis

VIII) Diseases of the skin and subcutaneous tissue

121. Allergic dermatoses (dermatitis, toxicoderma, eczema)
122. Bacterial diseases of the skin and subcutaneous tissue, pyodermas
123. Purulent-inflammatory diseases of the fingers and hand (Paronychia, Felon)
124. Purulent-inflammatory diseases in children and newborns
125. Mycoses (Fungal infections)
126. Burns and frostbite
127. Parasitic skin diseases (scabies, pediculosis/lice)
128. Psoriasis
129. Bullous dermatoses
130. Specific surgical infection (anaerobic clostridial and non-clostridial)

IX) Diseases of the musculoskeletal system and connective tissue

131. Ankylosing spondylitis
132. Congenital and acquired malformations of the musculoskeletal system
133. Acute rheumatic fever
134. Dermatomyositis and polymyositis
135. Neoplasms of the musculoskeletal system
136. Osteoarthritis (Osteoarthrosis)
137. Osteomyelitis
138. Gout
139. Polytrauma
140. Reactive arthritis
141. Rheumatoid arthritis

- 142. Systemic scleroderma
- 143. Systemic lupus erythematosus (SLE)
- 144. Systemic vasculitis (Polyarteritis nodosa, Henoch-Schönlein purpura/hemorrhagic vasculitis, hypersensitivity vasculitis)
- 145. Typical fractures of the humerus, forearm, hand, femur, lower leg, and foot
- 146. Pelvic injury
- 147. Spinal injury
- 148. Injuries of large joints (hip, knee, ankle, elbow)
- 149. Chronic rheumatic heart disease (Chronic rheumatic disease)
- 150. Juvenile rheumatoid arthritis

X) Diseases of the endocrine system, nutritional disorders, and metabolic disorders

- 151. Acromegaly and pituitary gigantism
- 152. Hypothyroidism
- 153. Hypotrophy, protein-energy malnutrition
- 154. Hypopituitarism
- 155. Thyrotoxicosis (Hyperthyroidism)
- 156. Endemic goiter
- 157. Diabetes insipidus
- 158. Nodular goiter, thyroid tumors
- 159. Obesity
- 160. Congenital adrenal hyperplasia (CAH)
- 161. Disorders of calcium-phosphorus metabolism and Vitamin D metabolism
- 162. Genetic syndromes with endocrine complications (Turner syndrome, Russell-Silver, Prader-Willi, Laron, etc.)
- 163. Thyroiditis
- 164. Cushing's disease and syndrome
- 165. Chronic adrenal insufficiency (Addison's disease)
- 166. Diabetes mellitus
- 167. Hypoparathyroidism
- 168. Hyperparathyroidism
- 169. Adrenal tumors
- 170. Organic (including congenital) hyperinsulinism
- 171. Neuroendocrine tumors
- 172. Pituitary tumors
- 173. Precocious puberty
- 174. Hypogonadism
- 175. Cryptorchidism
- 176. Disorders of sexual differentiation
- 177. Klinefelter syndrome

- 178. Dwarfism in a child born Small for Gestational Age (SGA)

XI) Infectious and parasitic diseases

- 179. Bacterial food poisoning
- 180. Erysipelas
- 181. Botulism
- 182. Viral hepatitis
- 183. Chickenpox (Varicella)
- 184. Congenital infections of the newborn
- 185. Helminthiases
- 186. Herpesvirus diseases
- 187. Influenza and other acute respiratory viral infections (ARVI)
- 188. Diphtheria
- 189. Infectious mononucleosis
- 190. Candidiasis
- 191. Pertussis (Whooping cough)
- 192. Bacterial intestinal infections
- 193. Viral intestinal infections
- 194. Measles
- 195. Tick-borne viral encephalitis
- 196. Rubella
- 197. Leptospirosis
- 198. Malaria
- 199. Meningococcal infection
- 200. Particularly dangerous viral infections (High-consequence viral infections)
- 201. Mumps infection (Parotitis)
- 202. Poliomyelitis
- 203. Tetanus
- 204. Protozoal infections
- 205. Rickettsioses
- 206. Anthrax
- 207. Rabies
- 208. Scarlet fever
- 209. Tuberculosis of various locations
- 210. Lyme disease
- 211. Human Immunodeficiency Virus (HIV) disease
- 212. Chlamydial infections
- 213. Cholera
- 214. Plague
- **Infectious diseases transmitted predominantly sexually:**
- 215. Gonococcal infection
- 216. Syphilis

XII) Diseases of the female reproductive system

Pathologies of Pregnancy:

- 217. Multiple pregnancy
- 218. Vomiting in pregnancy (Hyperemesis gravidarum)
- 219. Pregnancy with extragenital pathology
- 220. Fetal distress during pregnancy
- 221. Fetal growth restriction (FGR / IUGR)
- 222. Immune conflict during pregnancy (Rh isoimmunization)
- 223. Hydatidiform mole (Molar pregnancy)
- 224. Placenta previa
- 225. Placental abruption
- 226. Preterm labor and post-term pregnancy
- 227. Ectopic pregnancy
- 228. Preeclampsia and eclampsia
- 229. Spontaneous abortion (Miscarriage)

Pathology of Labor and the Postpartum Period:

- 230. Anomalies of labor activity (Dystocia)
- 231. Pelvic anomalies, including clinically narrow pelvis

- 232. Fetal distress during labor
- 233. Intrapartum and postpartum hemorrhage
- 234. Malpresentation and malposition of the fetus
- 235. Postpartum septic diseases
- 236. Injuries of the uterus and birth canal

Gynecological Diseases:

- 237. Abnormal uterine bleeding
- 238. Ovarian apoplexy
- 239. Infertility
- 240. Congenital malformations of female genital organs
- 241. Benign breast dysplasia (Fibrocystic breast changes)
- 242. Benign and precancerous neoplasms of female genital organs
- 243. Endometriosis
- 244. Inflammatory diseases of female genital organs (PID)
- 245. Malignant neoplasms of female genital organs
- 246. Mastitis
- 247. Breast neoplasms

List 3 (Emergency States / Urgent Conditions)

1. Asphyxia (including neonatal asphyxia)
2. Hypertensive crisis
3. Hypoglycemia (including hypoglycemic coma)
4. Acute respiratory failure
5. Acute urinary retention
6. Acute adrenal insufficiency
7. Acute kidney injury (AKI)
8. Acute liver failure
9. Acute heart failure
10. Acute poisoning, including poisoning by chemical warfare agents
11. Acute psychosis
12. Acute coronary syndrome (ACS)
13. Acute radiation and chemical injuries, including those in field conditions and during emergencies
14. Acute cerebral insufficiency
15. Diabetic coma, including ketoacidotic, hyperosmolar, and lactic acidotic types
16. Electrical injury
17. Status epilepticus
18. Acute bleeding (Hemorrhage)
19. Acute blood loss syndrome, including in field conditions and during emergencies
20. Cardiac arrest
21. Collapse
22. Disorders of consciousness and comatose states
23. Renal colic
24. Biliary colic
25. Acute anaphylactic reactions (Anaphylaxis)
26. Acute heart rhythm disorders (Arrhythmias)
27. Cold injury (Frostbite/Hypothermia), including in field conditions
28. Heat injury (Heatstroke), including in field conditions
29. Venous and arterial thromboembolism
30. Convulsive syndrome (Seizures)
31. Drowning
32. Strangulation asphyxia
33. Normal labor (Childbirth)
34. Shocks (including cardiogenic, hypovolemic, septic, and anaphylactic)
35. Snake, insect, and animal bites
36. Penetrating wounds, including those sustained during combat actions
37. Burns, including in field conditions
38. Foreign bodies in the respiratory tract, gastrointestinal tract, ENT organs, and eye

List 4 (Laboratory and Instrumental Examinations)

1. Pleural fluid analysis
2. Ascitic fluid analysis (Peritoneal fluid analysis)
3. Synovial fluid analysis
4. Zimnitsky test (Urinary concentration test)
5. Nechiporenko test
6. Serum and urinary alpha-amylase activity; fecal elastase-1
7. Serum proteins and their fractions; C-reactive protein (CRP)
8. Blood glucose; glycated hemoglobin (HbA1c)
9. Oral glucose tolerance test (OGTT)
10. Blood lipids, lipoproteins, and their fractions
11. Blood hormone levels
12. Serum ferritin, iron, and copper
13. Serum and urinary creatinine and urea; glomerular filtration rate (GFR)
14. Blood electrolytes
15. Blood aminotransferases (ALT, AST)
16. Total serum bilirubin and its fractions
17. Coagulogram (Coagulation profile/panel)
18. Serum uric acid
19. Serum alkaline phosphatase (ALP)
20. Histomorphological examination of lymph node biopsy
21. Histomorphological examination of parenchymal organ biopsy
22. Histomorphological examination of mucosal biopsy
23. Histomorphological examination of muscle and skin biopsy
24. Histomorphological examination of the placenta
25. Indoor environment assessment (microclimate indicators, natural and artificial lighting, bacteriological and chemical air pollution).
26. Pulmonary function tests (PFT) / Evaluation of external respiration function
27. Standard 12-lead electrocardiography (ECG)
28. Bronchoscopy (Endoscopic examination of the bronchi)
29. Gastrointestinal endoscopy (Upper and lower GI endoscopy)
30. Echocardiography and Doppler ultrasonography
31. Complete stool analysis (Fecalysis)
32. Complete blood count (CBC)
33. Urinalysis (General urine analysis)
34. Urinary glucose and ketones (acetone)
35. Cerebrospinal fluid (CSF) analysis
36. Sternal (bone marrow) aspirate analysis
37. Sputum analysis
38. General blood immunological profile
39. Serological tests for infectious diseases
40. Rapid diagnostic tests (RDTs) for viral diseases
41. Amplification methods for infectious diseases (PCR, LCR)
42. Serological tests for autoimmune diseases
43. Chemical and bacteriological environmental assessment (ambient air, water bodies, soil).
44. Microbiological examination of biological fluids and excretions
45. Measurement of radiation (acoustic/sound, vibration, ionizing); individual radiometry.
46. Instrumental imaging of the thyroid gland
47. Contrast-enhanced angiography
48. Instrumental imaging of the abdominal organs
49. Instrumental imaging of the thoracic organs
50. Instrumental imaging of the genitourinary system
51. Instrumental imaging of the fetus (Fetal ultrasonography)
52. Instrumental imaging of the skull, spine, spinal cord, bones, and joints
53. Instrumental imaging of the mammary gland (Mammography/Ultrasound)
54. Tuberculin skin testing (Mantoux test)
55. Multi-stage fractional bile analysis; gastric and esophageal pH-metry
56. Chemical, organoleptic, and bacteriological examination of food and drinking water
57. Cervical cytology (Pap smear)
58. Measurement of ergonomic indicators of work severity and intensity.

List 5 (Medical Manipulations)

1. Perform chest compressions (External cardiac massage).
2. Perform artificial respiration (Rescue breathing).
3. Perform defibrillation using a manual or automated external defibrillator (AED)/cardioverter.
4. Perform standard 12-lead ECG recording.
5. Perform temporary control of external bleeding.
6. Perform primary surgical debridement of a wound, dressing, and removal of skin sutures, including in field conditions.
7. Apply hemostatic tourniquets and use hemostatic agents, including in field conditions.
8. Insert nasogastric and orogastric tubes.
9. Perform transport immobilization (Splinting).
10. Administer medications via intravenous (bolus and infusion) and intraosseous routes, including in field conditions.
11. Establish peripheral venous access.
12. Restore airway patency.
13. Determine blood groups and Rh factor.
14. Transfuse blood components and blood substitutes.
15. Measure blood pressure.
16. Perform urinary bladder catheterization using a soft catheter.
17. Perform anterior nasal packing; conduct clinical examination of the visual organ and ENT organs.
18. Perform the "skin-to-skin" contact technique and early breastfeeding initiation for newborns.
19. Perform digital rectal examination (DRE) and examination using a rectal speculum (Proctoscopy).
20. Perform digital examination of the prostate.
21. Conduct clinical breast examination.
22. Perform pleural puncture (Thoracentesis).
23. Perform sampling of smears for bacterioscopic, bacteriological, and cytological examination.
24. Perform palpation of the thyroid gland.
25. Perform puncture of the abdominal cavity through the posterior vaginal fornix (Culdocentesis).
26. Perform bimanual pelvic examination and vaginal speculum examination.
27. Perform pelvimetry.
28. Perform external (Leopold's maneuvers) and internal obstetric examinations.
29. Perform fetal auscultation.
30. Examine and evaluate the external genitalia of boys.
31. Assess the state of sexual development in children.

Head of Programme,
MD, DMSc, Professor,
Department of Internal Medicine,
Clinical Immunology and Allergology
named after Academician L.T. Mala No. 2

Nataliia RYNDINA