

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
V.N. KARAZIN KHARKIV NATIONAL UNIVERSITY

Entered into force by order of
"07" June 2021 № 0202-1 / 250



Acting president

Vil BAKIROV

07 June 2021

EDUCATIONAL-PROFESSIONAL PROGRAMME
MEDICINE

Field of Study	22 Healthcare
Programme Subject Area	222 Medicine
Level of Higher Education	Second (Master's) level

Approved by the Academic Council of Kharkiv National University, Protocol № 6 of 31 May 2021.

LETTER OF APPROVAL
educational-professional programme Medicine

1.1. Academic Council of the Faculty: Protocol № 9 of «12» May 2021

Chairman of the Academic Council of the Faculty:

Igor BELOZOROV

1.2. Scientific and methodical commission of the Faculty: Protocol № 8 of «01» April 2021

Chairman of the Scientific and methodical commission of the Faculty:

Olha HOVALENKOVA

1.3. Department of Pediatrics: Protocol № 9 of «01» March 2021

Head of Department Doctor of Medicine, Full Professor Viacheslav CHERNUSKYI

1.4. Department of Internal Medicine: Protocol № 7 of «26» March 2021

Head of Department Doctor of Medicine, Full Professor Tetiana TYKHONOVA

1.5. Department of Hygiene and Social Medicine: Protocol № 8 of «10» March 2021

Head of Department, Candidate of Medicine, Associate Professor
Zhanna SOTNIKOVA-MELESHKINA

1.6. Department of Surgical Diseases: Protocol № 9 of «17» March 2021

Head of the Department, Doctor of Medicine, Full Professor Yevhen KHVOROSTOV

1.7. Department of Pediatrics № 2: Protocol № 8 of «11» March 2021

Head of Department Doctor of Medicine, Full Professor Natalia SHEVCHENKO

1.8. Department of Obstetrics and Gynecology: Protocol № 8 of «21» March 2021

Head of the Department, Doctor of Medicine, Full Professor Mykola HRYSHCHENKO

1.9. Department of General and Clinical Immunology and Allergology: Protocol № 8 of «01» March 2021

Head of Department, Doctors of Medicine, Professor Tetiana Liadova

The Educational Program of specialists' training at the second (master's) degree for 222 "Medicine" Specialty is developed in accordance with the Law of Ukraine "On Higher Education" from 01.07.2014 No. 1556-VII, Resolutions of the Cabinet of Ministers of Ukraine "On approval of the National Qualifications Framework" dated 23.11.2011 No. 1341, "On approval of Licensing Conditions for Educational Activities of Educational Institutions" dated 30.12.2015 No. 1187, draft standard of higher education of Ukraine of the Scientific and Methodological Commission of the Ministry of Education and Science of Ukraine, 2016. Approved for the first time, by the decision of the Academic Council dated October 31, 2016, minutes № 13.

EP was updated and approved in a new edition with the decision of the Academic Council dated 27.04.2020 minutes № 8 (order of the university on the implementation of the decision №0202-1/164 dated 08 May 2020)

EP was updated and approved in a new edition with the decision of the Academic Council of May 31, 2021 minutes № 6 (order of the university on the implementation of the decision №0202-1/250 dated June 7, 2021)

PREAMBLE

EP was developed by a working group consisting of:

Full Name	Job title (for part-time employees - the place of the main work, position)	Scientific degree, academic title for which the department (specialty) it is assigned
Head of the working group, Guarantor of the Educational Program		
Nikolenko Yevhenii Yakovych	Head of the Department of General Practice - Family Medicine	Doctor of Medical Sciences, Professor, Department of General Practice - Family Medicine
Members of the working group		
Chernuskyi Viacheslav Hryhorovych	Head of the Department of Pediatrics	Doctor of Medical Sciences, Professor, Department of Pediatrics
Tykhonova Tetiana Mykhailivna	Head of the Department of Internal Medicine	Doctor of Medical Sciences, Senior Research Fellow in Endocrinology
Sotnikova-Melezhkina Zhanna Vladyslavivna	Head of the Department of Hygiene and Social Medicine	MD, Associate Professor, Department of Hygiene and Social Medicine
Khvorostov Yevhen Dmytrovych	Head of the Department of Surgical Diseases	Doctor of Medical Sciences, Professor, Department of Surgical Diseases
Shevchenko Natalia Stanislavivna	Head of the Department of pediatrics No. 2	Doctor of Medical Sciences, Senior Research Fellow on Pediatrics
Hryshchenko Mykola Hryhorovych	Head of the Department of Obstetrics and Gynecology	Doctor of Medical Sciences, Professor, Department of Obstetrics and Gynecology

Liadova Tetiana Ivanivna	Head of the Department of General and Clinical Immunology and Allergology	Doctor of Medical Sciences, Professor, Department of General and Clinical Immunology and Allergology
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During the development of the Program, the requirements listed in the following documents were taken into account:

- 1) Law of Ukraine "On Higher Education" dated 07/01/2014 No. 1556-VII (amended);
- 2) Resolutions of the Cabinet of Ministers of Ukraine "On approval of the National Qualifications Framework" dated 11/23/2011 No. 1341, dated 12/30/2015 No.1187 (amended);
- 3) Resolution of the Cabinet of Ministers of Ukraine "On approval of the License conditions for educational activities of educational institutions" dated 12/30/2015 No.1187 (amended);
- 4) Methodical recommendations of the Ministry of Education and Science on the development of standards for the higher education, dated 06/01/2017 No.600;
- 5) Resolution of the Cabinet of Ministers of Ukraine "On approval of the Procedure for the Unified State Qualifying Examination for the applicants for higher education master's degree in the field of knowledge "22 Healthcare" " dated 03/28/2018 No.334 (amended);
- 6) Handbook of qualification characteristics of employees' occupations (issue 78 Healthcare), approved by the order of the Ministry of Health of Ukraine dated 03/29/2002 No.117 (amended).

Reviews of external stakeholders (if available):

1. Director of the Government Institution "L.T.Malaya Therapy National Institute of the National Academy of Medical Sciences of Ukraine", Doctor of Medical Sciences, Professor Galina FADEYENKO.
2. Director of the "Institute of Children and Adolescents Health Care of the Academy of Medical Sciences", Doctor of Medical Sciences, Professor Georgiy DANILENKO
3. Director of the Institute of Neurology, Psychiatry and Narcology of the National Academy of Medical Sciences of Ukraine, Doctor of Medical Sciences, Professor Igor LINSKIY.
4. Director of the State Institution "Grigoriev Institute for medical Radiology NAMS of Ukraine", Doctor of Medical Sciences, Professor Mykola KRASNOSELSKIY.
5. Director of the communal non-profit enterprise of Kharkiv regional council "Regional Clinical Infectious Diseases Hospital", Doctor of Medical Sciences, Professor Pavlo NARTOV

1. Profile of the Educational Program "Medicine", 222 "Medicine" Specialty

1 - General information	
Degree of higher education and title of qualification	Second (master's) degree. Master of Medicine. Doctor.
Type of diploma and scope of educational program	Master's degree, single, 360 ECTS credits, 6 years of study . 75 % of the educational program is aimed at the formation of general and special (professional) competencies in the specialty.
The official name of the program	Medicine
Forms of education	Full-time
Accreditation	Not accredited
Cycle / level	FQ - EHEA - second cycle, QF - LLL - level 7 , NQF of Ukraine - level 7 .
Prerequisites	A complete general secondary education.

	Terms of admission are determined by the Rules of admission of V.N. Karazin Kharkiv National University
Language of teaching	Ukrainian, English
Term of educational program	06/30/2027
Internet address of the permanent placement of the description to educational program	http://medicine.karazin.ua/student-life/normativni-dokumenty-scho-reglamentuyut-navchalniy-protses
2 - The purpose of the Educational Program	
The purpose of the program	To train a specialist who is able to solve complex problems and issues in the field of health care or in the learning process, which involves research and/or innovation and is characterized by uncertainty of conditions and requirements. Formation of the ability to apply the acquired knowledge, skills, abilities and understanding of the humanities, fundamental and professionally-oriented disciplines to solve typical problems of a doctor in the field of health care in the relevant position, the scope of which is provided by certain lists of syndromes and symptoms, physiological conditions and somatic diseases that require special tactics of patient management, emergencies, laboratory and instrumental studies, medical manipulations..
3 - Characteristics of the Educational Program	
Subject area (field of knowledge, specialty, specialization (if available))	Area of knowledge: 22 "Healthcare". Specialty: 222 "Medicine". The educational program is multidisciplinary. Disciplines that are mandatory components of EP are 75%, elective disciplines are 25%. <u>The objects of study are:</u> prevention, diagnosis and treatment of human diseases, public health. <u>Learning objectives:</u> formation of the ability to apply the acquired knowledge, skills, abilities and understanding of the humanitarian, fundamental and professionally-oriented disciplines to solve typical problems of a doctor in the field of healthcare in the relevant position, the scope of which is defined by certain lists of syndromes and symptoms (list 1), physiological conditions and diseases (list 2) that require special tactics of patient management, emergencies (list 3), laboratory and instrumental studies (list 4), medical manipulations (list 5). <u>Methods, techniques, technologies and tools:</u> professional knowledge and skills in the implementation of the diagnostic process, identification of leading symptoms and syndromes, preliminary diagnosis, differential diagnosis, knowledge of treatment and prevention, application of management technologies and organization of healthcare work. <u>Tools and equipment</u> (objects, materials, instruments and devices that the applicant learns to apply and use): the applicant for the degree of Master of Medicine must be able to use modern diagnostic, medical and other devices, objects and instruments for professional activities.
Orientation of the educational program	The educational and professional program has an academic and applied orientation in the field of health care,

	prevention, diagnosis and treatment of human diseases.
The main focus of the educational program and specialization	The educational program is aimed at training doctors who would have relevant knowledge and practical skills, would be able to carry out the diagnostic process, determine the leading symptoms and syndromes, determine the preliminary diagnosis, make a differential diagnosis, under the supervision of a doctor - to formulate a final clinical diagnosis, know the principles of treatment and prevention of diseases, to treat major diseases by making a reasonable decision according to existing algorithms..
Features of the program	The program provides theoretical, practical and research training with a choice of specialization; only full-time education; it is obligatory to pass an internship after completing the program to obtain the qualification of "doctor" of a certain specialty. The program is taught in Ukrainian and English. Multidisciplinary teaching of fundamental and humanities disciplines is provided by biological, chemical, physical, radiophysical, philosophical, historical faculties of the university. The clinical bases of the medical faculty are the clinics of the National Academy of Medical Sciences of Ukraine and regional clinical hospitals.
4 - Suitability of Graduates for Employment and Further Training	
Suitability for employment	After graduating a university according to the educational program "Medicine", the specialist would be able to perform a professional work as: - an intern (Classifier of Professions Code - 3229); - a trainee doctor (Classifier of Professions Code - 3221) - a resident doctor (Classifier of Professions Code - XXX). The specialist will be prepared to work according to "КВЕД ДК 009-2010": Section Q. Health and social care Section 86.1. Activities of hospitals Group 86.10 Activities of hospitals Class 86.21 General medical practice Class 86.90 Other health care activities.
Further training	The Master of Medicine must enroll in postgraduate education programs (internship, residency), where training is carried out according to the educational training programs of a doctor of a certain specialty (the list was approved by the order of the Ministry of Health of Ukraine dated 23.02.2005 №81). With further retraining to acquire another medical specialty to perform relevant professional work. After training in an internship, clinical residency (for foreign citizens) the specialist is assigned the qualification "doctor" of a certain specialty, a specialist would be able to perform the professional work specified in "ДК 003-2010" and can hold a primary position corresponding to the current List of medical specialties: - Class 222 Medical professionals (excluding nurses) - Subclass 2221 Medical professionals (except dentistry) - Group 2221.2 Doctors

	<p>- 2229.2 Professionals in the field of medicine (except nursing and obstetrics)</p> <p>After obtaining a specialization, the graduate has the right:</p> <ul style="list-style-type: none"> - To continue training according to the program of the third (educational-scientific) level of higher education; - To acquire additional qualifications in the adult education system.
5 - Teaching and Assessment	
Teaching and educating	Competence, student-centered, problem-oriented approaches and initiative self-study. The educational process is carried out in the following forms: interactive scientific and cognitive lectures, practical classes in small groups, independent work, consultations with teachers, writing case histories, study and practice in medical institutions.
Evaluation	<p>Assessment covers all types of student educational work: classroom, independent, preparation for the Unified State Qualifying Examination (USQE), practice in medical institutions.</p> <p>The final mark in a particular discipline is a sum of points earned by the student during the semester in assessed activities provided by the work program of the discipline (practice) and points gained in the semester exam (final test). The maximum number of points that a student can score as a result of studying a particular discipline is 200, including points for academic activities during the semester - 120 points, according to the results of the semester exam or the final test - 80 points.</p> <p>Current control - testing of knowledge during practical and seminar classes, in the form of testing, presentation of reports, projects, demonstration of practical skills. Final control of knowledge is carried out in the form of tests, final controls, exams.</p> <p>The Unified State Qualifying Examination (USQE) consists of test components and the Objective Structured Practical (Clinical) Examination (hereinafter - OSP(C)E).</p>
6 - Program Competencies	
Integral competence	IC. Ability to solve typical and complex specialized problems and practical problems in professional activities in the field of healthcare, or in the learning process, which involves conduction of a research and/or implementation of innovations, and is characterized by complexity and uncertainty of conditions and requirements.
General competencies	<p>GC 01. Ability to think abstractly, to analyze and synthesize; ability to learn and master modern knowledge.</p> <p>GC 02. Ability to apply knowledge in practical situations.</p> <p>GC 03. Knowing and understanding the subject area and understanding the professional activities.</p> <p>GC 04. Ability to adapt and to act properly in new situations.</p> <p>GC 05. Ability to make an informed decision; work in a team; interpersonal skills.</p> <p>GC 06. Ability to communicate in the state language both orally and in writing; ability to communicate in a second language.</p>

	<p>GC 07. Skills in the use of information and communication technologies; ability to search, process and analyze information from various sources.</p> <p>GC 08. Definiteness and persistence in relation to the tasks that were set and the responsibilities that were taken.</p> <p>GC 09. Ability to act socially responsibly and consciously.</p> <p>GC 10. The desire to preserve the environment .</p>
Professional competencies	<p>PC1 - Survey skills.</p> <p>PC2 - Ability to determine the required list of laboratory tests and instrumental examinations and evaluate their results.</p> <p>PC3 - Ability to establish a preliminary and clinical diagnosis.</p> <p>PC4 - Ability to determine the required mode of work and rest, the nature of nutrition in the treatment of diseases .</p> <p>PC5 - Ability to determine the principles and nature of treatment of diseases .</p> <p>PC6 - Ability to diagnose emergency conditions of the patient.</p> <p>PC7 - Ability to determine tactics and skills of emergency medical care.</p> <p>PC8 - Ability to carry out medical evacuation measures.</p> <p>PC9 - Skills to perform medical manipulations .</p> <p>PC10 - Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Counseling skills on family planning and contraception .</p> <p>PC11 - Ability to plan and conduct sanitary and hygienic, preventive and anti-epidemic measures, including infectious diseases .</p> <p>PC12 - Ability to determine the tactics of management of persons to be dispensary supervised.</p> <p>PC13 - Ability to conduct a work capacity evaluation.</p> <p>PC14 - Ability to keep medical records .</p> <p>PC15 - Ability to conduct epidemiological and medical statistical studies of public health; processing of governmental, social, economic and medical information .</p> <p>PC16 - Ability to assess the impact of the environment, social and economic, biological determinants on the health of the individual, family, population .</p> <p>PC17 - Ability to analyze the activities of a doctor, department, health care institution , to take measures to ensure the quality and safety of medical care and improve the efficiency of medical resources .</p> <p>PC18 - Ability to conduct activities for the organization and integration of medical care to the population, and conduct a marketing of medical services .</p>
7 - Program Learning Outcomes	
Program learning outcomes	<p>PLO 1 - to have general and special fundamental and professionally oriented knowledge, skills, abilities, competencies necessary to perform typical professional tasks related to activities in the medical field in the relevant position.</p> <p>PLO 2 - to have knowledge about psychophysiological</p>

	<p>features of the person, human health, health support, disease prevention, human treatment, health of the population.</p> <p>Application of knowledge and understanding:</p> <p>PLO 3 - to apply the acquired knowledge, skills and understanding to solve typical problems of the doctor, the scope of which is provided by lists of syndromes and symptoms, diseases, emergencies, laboratory tests and instrumental examination, medical manipulations.</p> <p>PLO 4 - to collect information about the patient .</p> <p>PLO 5 - to evaluate the results of surveys, physical examinations, laboratory tests and instrumental examination.</p> <p>PLO 6 - to establish a preliminary clinical diagnosis of the disease.</p> <p>PLO 7 - to determine the features and principles of treatment of the disease.</p> <p>PLO 8 - to prescribe the necessary diet, work and rest in the treatment of diseases .</p> <p>PLO 9 - to determine the tactics of management of persons to be dispensary supervised.</p> <p>PLO 10 - to diagnose emergency conditions of the patient, to determine the tactics of emergency medical care .</p> <p>PLO 11 - to carry out sanitary and hygienic, preventive measures .</p> <p>PLO 12 - to plan preventive and anti-epidemic measures for infectious diseases .</p> <p>PLO 13 - to carry out medical and evacuation measures .</p> <p>PLO 14 - to determine the tactics of physiological childbirth and the postpartum period . Provide advice on family planning and contraception.</p> <p>PLO 15 - to perform medical manipulations.</p> <p>PLO 16 - to assess the impact of the environment on the health of the population.</p> <p>PLO 17 - to be able to keep medical records, process governmental, social and medical information.</p> <p>Formation of judgments:</p> <p>PLO 18 - to assess the state of human health and provide its support taking into account the impact of the environment and other health factors .</p> <p>PLO 19 - to assess the sanitary and hygienic condition of the environment in order to determine the sanitary and hygienic, preventive measures .</p> <p>PLO 20 - to apply the acquired knowledge about the existing health care system to optimize their own professional activities and participate in solving practical problems of the industry .</p> <p>PLO 21 - to adhere to the doctor's ethics code, which ensures the formation of a specialist with appropriate personal qualities.</p>
8 - Resource Support for Program Implementation	
Specific characteristics of human resources	All scientific and pedagogical professional involved in the implementation of the educational program have a qualification in accordance with the specialty, a confirmed level of scientific and professional activity, and/or are practicing specialists.

<p>Specific characteristics of logistics</p>	<p>Educational and lecture halls, equipped with computer workstations, multimedia equipment, technical means of education; clinical facilities for the higher education applicants' practicing or current agreements for practicing in medical institutions; availability of standardized patients, specific mannequins and models.</p> <p>The educational facilities of structural subdivisions of the medical faculty allows teachers to organize and conduct classes in all academic disciplines at the appropriate scientific and methodological level.</p> <p>To develop all practical skills, there is a "Simulation Center" (work with simulated patients) at the faculty.</p>
<p>Specific characteristics of informational, educational and methodical support</p>	<p>Appropriate educational and methodical support: working programs of academic disciplines, methodical developments for seminars, practical classes, laboratory workshops, methodical instructions for students' independent work, individual practical orientation tasks; methodical materials for writing case histories, practice in medical institutions, tasks for knowledge assessment (exam tickets, test tasks, modular, complex tests); modern information sources and computer equipment; own web page; internet connection; library with modern educational literature, scientific, reference and professional periodicals.</p> <p>The official websites of the university https://www.univer.kharkov.ua/ and the medical faculty http://medicine.karazin.ua/ contain information about educational programs, learning and scientific activities, structural subdivisions, admission rules, contacts.</p> <p>There are 5 passes and 15 specialized halls for readers (803 seats, area - 1,890.5 sq. meters). All reading rooms and passes work in the open access mode, which allows to involve readers in independent work with the fund.</p> <p>The Central Scientific Library provides access to many well-known electronic databases: EBSCO Publishing, Royal Society of Chemistry. The Electronic Library of Ukrainian Central Scientific Library provides access to the most famous publishers of electronic journals, such as IOP science Journals, Oxford Journals, Passport GMID by Euromonitor, HINARI (Health Inter Network Access to Research Initiative) and others, test access is provided monthly.</p>
<p>9 - Academic Mobility</p>	
<p>National credit mobility</p>	<p>Recognition of learning outcomes in other educational institutions in the framework of academic mobility in accordance with the agreements of V.N. Karazin Kharkiv National University.</p>
<p>International credit mobility</p>	<p>Carrying out international academic mobility within the Erasmus+ and Erasmus Mundus Medea programs</p>
<p>Training of foreign applicants for higher education</p>	<p>Conditions of study of foreign students is performed in accordance with the requirements of legislation.</p>

2. List of Components of the Educational Program and their logical sequence

2.1 List of EP components

Code of academic discipline	Components of the educational program (academic disciplines, course projects (works), practices, qualification work)	Number of credits	Type of final examination
1	2	3	4
EP Mandatory Components			
MC 1	Ukrainian language (for professional purposes)	3	Pass/Fail
MC 2	History of Ukraine and Ukrainian culture	3	Pass/Fail
MC 3	Foreign language	3	Pass/Fail
MC 4	Philosophy	3	Pass/Fail
MC 5	Foreign language (for professional purposes)	6	Test (Grade)
MC 6	Latin language and medical terminology	3	Test (Grade)
MC 7	Medical biology	4	Exam
MC 8	Medical informatics	3	Pass/Fail
MC 9	Medical chemistry	3	Test (Grade)
MC 10	Medical and biological physics	3	Test (Grade)
MC 11	Biological and bioorganic chemistry	8	Exam
MC 12	Human anatomy	14	Exam
MC 13	Histology, cytology and embryology	9	Exam
MC 14	Physiology	9	Exam
MC 15	Microbiology, virology and immunology	8	Exam
MC 16	Life safety, fundamentals of bioethics and biosafety; occupational safety	3	Pass/Fail
MC 17	Pathomorphology	6	Exam
MC 18	Pathophysiology	6	Exam
MC 19	Pharmacology	6	Exam
MC 20	Hygiene and ecology	8	Test (Grade)
MC 21	Propaedeutics of internal medicine	5	Test (Grade)
MC 22	Propaedeutics of pediatrics	5	Test (Grade)
MC 23	General surgery	5	Test (Grade)
MC 24	Radiology	3	Test (Grade)
MC 25	Internal medicine including endocrinology	8	Test (Grade)
MC 26	Internal medicine including clinical pharmacology, clinical immunology and allergology, occupational diseases	24	Exam
MC 27	Pediatrics and children's infectious diseases	17	Exam
MC 28	Surgery including pediatric surgery, neurosurgery	19	Exam
MC 29	Obstetrics and gynecology, including medical genetics	10	Exam
MC 30	Social medicine, public health	7	Exam

MC 31	Neurology	4	Exam
MC 32	Infectious diseases including epidemiology and principles of evidence-based medicine, phthisiology	12	Exam
MC 33	Clinical anatomy and operative surgery	3	Test (Grade)
MC 34	Otorhinolaryngology	3	Test (Grade)
MC 35	Ophthalmology	3	Test (Grade)
MC 36	Physical rehabilitation, sports medicine	3	Test (Grade)
MC 37	Dermatology, venereology	3	Test (Grade)
MC 38	Psychiatry, narcology	3	Test (Grade)
MC 39	Forensic medicine. Medical law of Ukraine.	3	Test (Grade)
MC 40	Oncology and radiation medicine	4	Test (Grade)
MC 41	Traumatology and orthopedics	3	Test (Grade)
MC 42	Anesthesiology and intensive care	3	Test (Grade)
MC 43	Emergency and urgent medical care	3	Test (Grade)
MC 44	Urology	3	Test (Grade)
MC 45	General practice (family medicine)	3	Test (Grade)
Required Disciplines Total		270	
EP Elective Blocks (Components)			
EB 1	Psychology of communication	3	Pass/Fail
EB 2	Conflict in a medical profession	3	Pass/Fail
EB 3	Molecular biology of the cell	3	Pass/Fail
EB 4	Fundamentals of molecular genetics	3	Pass/Fail
EB 5	History of medicine	3	Pass/Fail
EB 6	History of religion	3	Pass/Fail
EB 7	Fundamentals of embryology	4	Pass/Fail
EB 8	Fundamentals of cytology	4	Pass/Fail
EB 9	Fundamentals of a professional career formation in medicine	3	Pass/Fail
EB 10	Fundamentals of education in medicine	3	Pass/Fail
EB 11	Deontology in medicine	4	Pass/Fail
EB 12	Etiquette in society and medicine	4	Pass/Fail
EB 13	Basis of management in Health care system	3	Pass/Fail
EB 14	International systems of Health care organization	3	Pass/Fail
EB 15	Anatomical and physiological aspects of the central and peripheral nervous system	4	Pass/Fail
EB 16	Anatomical and physiological aspects of the cardiovascular system	4	Pass/Fail
EB 17	Foreign language for professional purposes	3	Pass/Fail
EB 18	Basis of planning of preventive programm	3	Pass/Fail
EB 19	Product examination	3	Pass/Fail
EB 20	Preventive nutrition	3	Pass/Fail
EB 21	Psychology of addictive (dependent)	3	Pass/Fail

	behavior		
EB 22	Medical psychology	3	Pass/Fail
EB 23	Fundamentals of personified therapy	3	Pass/Fail
EB 24	Pharmacogenetics	3	Pass/Fail
EB 25	Phytotherapy	3	Pass/Fail
EB 26	Modern aspects of the using of alternative methods of treatment in medical practice	3	Pass/Fail
EB 27	Fundamentals of sexology and sexopathology	3	Pass/Fail
EB 28	Foreign language (second language)	4	Pass/Fail
EB 29	Cardiovascular surgery	3	Pass/Fail
EB 30	Plastic and reconstructive surgery	3	Pass/Fail
EB 31	Topical issues of disinfection and sterilization	3	Pass/Fail
EB 32	Topical issues of cerebrovascular diseases	3	Pass/Fail
EB 33	Medical officers legal status in health care	3	Pass/Fail
EB 34	Methods of visualization in instrumental investigation of internal organ diseases	4	Pass/Fail
EB 35	Clinical electrocardiography and functional diagnosis of internal organ diseases	4	Pass/Fail
EB 36	Topical issues of child rheumatology	4	Pass/Fail
EB 37	Modern functional and laboratory diagnosis in pediatrics	4	Pass/Fail
EB 38	Modern physico-chemical technologies in oncology. Reconstructive-recoverable oncosurgery	4	Pass/Fail
EB 39	Intratissue radiotherapy for cancer of prostate, pancreas gland and brain tumor. Radiosurgical technology in oncology	4	Pass/Fail
EB 40	Clinical pathology	3	Pass/Fail
EB 41	Substance use disorder	4	Pass/Fail
EB 42	Emergency neurology	4	Pass/Fail
EB 43	Fundamentals of dentistry	4	Pass/Fail
EB 44	Fundamentals of vertebrology	4	Pass/Fail
EB 45	Topical Issues in Cardiology	4	Pass/Fail
EB 46	Main ultrasonic diagnosis in clinical medicine	3	Pass/Fail
EB 47	Endoscopic technologies in medicine	3	Pass/Fail
EB 48	Clinical parasitology and tropical medicine	3	Pass/Fail
EB 49	HIV infection topical issues	3	Pass/Fail
EB 50	Childish infectious diseases. Emergency conditions	3	Pass/Fail

EB 51	Modern view on childish treatable infections	3	Pass/Fail
EB 52	Topical issues of childish endocrinology	3	Pass/Fail
EB 53	Vaccination standarts in peditrics	3	Pass/Fail
EB 54	Immunization and immunotherapy	3	Pass/Fail
EB 55	Innovations in allergiology	3	Pass/Fail
EB 56	Geriatrics and hospice medicine	3	Pass/Fail
EB 57	Palliative care	3	Pass/Fail
EB 58	Adult basic and advanced life support	3	Pass/Fail
EB 59	Paediatric basic and advanced life support	3	Pass/Fail
EB 60	Modern extremely dangerous infections	3	Pass/Fail
EB 61	Modern aspects of comorbid pathology in the clinic of internal medicine	3	Pass/Fail
EB 62	Modern diagnostic approaches in the clinic of internal medicine	3	Pass/Fail
EB 63	Elective Block Military medical training		
EB 63.1	Training of health care reserve officers. Specialty "Medicine"	10	Test (Grade)
EB 63.2	Military medical training, including Medicine of emergency situations, Battlefield medicine, Military hygiene and epidemiology	10	Test (Grade)
	Practical training		
EB 64	Elective Block Patient care (practice)		
EB 64.1	Patient care in internal medicine	5	Test (Grade)
EB 64.2	Care for patients in peditrics	5	Test (Grade)
EB 64.3	Patient care in surgery	5	Test (Grade)
EB 65	Elective Block Nursing practice		
EB 65.1	Nursing practice in internal medicine	3	Test (Grade)
EB 65.2	Nürsing practice in peditrics	3	Test (Grade)
EB 65.3	Nursing practice in surgery	3	Test (Grade)
EB 66	Elective Block Medical practice by speciality		
EB 66.1	Medical practice by speciality internal medicine	10	Test (Grade)
EB 66.2	Medical practice by speciality Surgery	10	Test (Grade)
EB 66.3	Medical practice by speciality Peditrics	10	Test (Grade)
EB 66.4	Medical practice by speciality Obstetrics and Gynecology	10	Test (Grade)
Elective Blocks Total		90	
Physical Education		320 hours	
Certification		30 hours	
EDUCATIONAL PROGRAM TOTAL		360	

2.2 Structural and logical scheme of EP "Medicine"

Code n / a	Components of the educational program (academic disciplines, course projects (works), practices, qualification work)	Number of credits	Ro with division by courses					
			1	2	3	4	5	6
1	2	3	4					
Mandatory Components			1	2	3	4	5	6
1	Ukrainian language (for professional purposes)	3	*					
2	History of Ukraine and Ukrainian culture	3	*					
3	Foreign language	3	*					
4	Philosophy	3	*					
5	Foreign language (for professional purposes)	6		*				
6	Latin language and medical terminology	3	*					
7	Medical biology	4	*					
8	Medical informatics	3		*				
9	Medical chemistry	3	*					
10	Medical and biological physics	3	*					
11	Biological and bioorganic chemistry	8	*	*				
12	Human anatomy	14	*	*				
13	Histology, cytology and embryology	9	*	*				
14	Physiology	9		*				
15	Microbiology, virology and immunology	8		*	*			
16	Life safety, fundamentals of bioethics and biosafety; occupational safety	3		*				
17	Pathomorphology	6			*			
18	Pathophysiology	6			*			
19	Pharmacology	6			*			
20	Hygiene and ecology	8			*			*
21	Propaedeutics of internal medicine	5			*			
22	Propaedeutics of pediatrics	5			*			
23	General surgery	5			*			
24	Radiology	3			*			
25	Internal medicine including endocrinology	8				*		
26	Internal medicine including clinical pharmacology, clinical immunology and allergology, occupational diseases	24					*	*
27	Pediatrics and children's infectious diseases	17				*	*	*
28	Surgery including pediatric surgery, neurosurgery	19				*	*	*
29	Obstetrics and gynecology, including medical genetics	10				*	*	*
30	Social medicine, public health	7				*		*
31	Neurology	4				*		
32	Infectious diseases including epidemiology and principles of evidence-based medicine, phthiology	12					*	*
33	Clinical anatomy and operative surgery	3		*				
34	Otorhinolaryngology	3				*		
35	Ophthalmology	3				*		
36	Physical rehabilitation, sports medicine	3				*		

37	Dermatology, venereology	3				*		
38	Psychiatry, narcology	3				*		
39	Forensic medicine. Medical law of Ukraine.	3				*		
40	Oncology and radiation medicine	4					*	
41	Traumatology and orthopedics	3					*	
42	Anesthesiology and intensive care	3					*	
43	Emergency and urgent medical care	3					*	
44	Urology	3				*		
45	General practice (family medicine)	3						*
	Elective Blocks (Components)							
1	Psychology of communication	3	*					
2	Conflict in a medical profession	3	*					
3	Molecular biology of the cell	3	*					
4	Fundamentals of molecular genetics	3	*					
5	History of medicine	3	*					
6	History of religion	3	*					
7	Fundamentals of embryology	4	*					
8	Fundamentals of cytology	4	*					
9	Fundamentals of a professional career formation in medicine	3	*					
10	Fundamentals of education in medicine	3	*					
11	Deontology in medicine	4		*				
12	Etiquette in society and medicine	4		*				
13	Basis of management in Health care system	3		*				
14	International systems of Health care organization	3		*				
15	Anatomical and physiological aspects of the central and peripheral nervous system	4		*				
16	Anatomical and physiological aspects of the cardiovascular system	4		*				
17	Foreign language for professional purposes	3		*	*			
18	Basis of planning of preventive programm	3			*			
19	Product examination	3			*			
20	Preventive nutrition	3			*			
21	Psychology of addictive (dependent) behavior	3			*			
22	Medical psychology	3			*			
23	Fundamentals of personified therapy	3			*			
24	Pharmacogenetics	3			*			
25	Phytotherapy	3			*			
26	Modern aspects of the using of alternative methods of treatment in medical practice	3			*			
27	Fundamentals of sexology and sexopathology	3			*			
28	Foreign language (second language)	4			*			
29	Cardiovascular surgery	3				*		
30	Plastic and reconstructive surgery	3				*		
31	Topical issues of disinfection and sterilization	3				*		
32	Topical issues of cerebrovascular diseases	3				*		
33	Medical officers legal status in health care	3				*		

34	Methods of visualization in instrumental investigation of internal organ diseases	4				*		
35	Clinical electrocardiography and functional diagnosis of internal organ diseases	4				*		
36	Topical issues of child rheumatology	4					*	
37	Modern functional and laboratory diagnosis in pediatrics	4					*	
38	Modern physical and chemical technology in oncology. Reconstructive and restore cancer surgery	4					*	
39	Intratissue radiotherapy for cancer of prostate, pancreas gland and brain tumor. Radiosurgical technology in oncology	4					*	
40	Clinical pathology	3					*	
41	Substance use disorder	4					*	
42	Emergency neurology	4					*	
43	Fundamentals of dentistry	4					*	
44	Fundamentals of vertebrology	4					*	
45	Topical Issues in Cardiology	4					*	
46	Main ultrasonic diagnosis in clinical medicine	3						
47	Endoscopic technologies in medicine	3						*
48	Clinical parasitology and tropical medicine	3						*
49	HIV infection topical issues	3						*
50	Childish infectious diseases. Emergency conditions	3						*
51	Modern view on childish treatable infections	3						*
52	Topical issues of childish endocrinology	3						*
53	Vaccination standarts in pediatrics	3						*
54	Immunization and immunotherapy	3						*
55	Innovations in allergiology	3						*
56	Geriatrics and hospice medicine	3						*
57	Palliative care	3						*
58	Adult basic and advanced life support	3						*
59	Paediatric basic and advanced life support	3						*
60	Modern extremely dangerous infections	3						*
61	Modern aspects of comorbid pathology in the clinic of internal medicine	3						*
62	Modern diagnostic approaches in the clinic of internal medicine	3						*
EB 63	Elective Block Військово-медична підготовка							
EB 63.1	Training of health care reserve officers. Specialty "Medicine"	10		*		*	*	
EB 63.2	Medicine of emergency situations, Battlefield medicine, Military hygiene and epidemiology	10		*		*	*	

	Практична підготовка							
EB 64	Elective Block Patient care (practice)							
EB 64.1	Patient care in internal medicine	5		*				
EB 64.2	Care for patients in pediatrics	5		*				
EB 64.3	Patient care in surgery	5		*				
EB 65	Elective Block Nursing practice							
EB 65.1	Nursing practice in internal medicine	3			*			
EB 65.2	Nursing practice in pediatrics	3			*			
EB 65.3	Nursing practice in surgery	3			*			
EB 66	Elective Block Medical practice by speciality							
EB 66.1	Medical practice by speciality internal medicine	10				*	*	
EB 66.2	Medical practice by speciality Surgery	10				*	*	
EB 66.3	Medical practice by speciality Pediatrics	10				*	*	
EB 66.4	Medical practice by speciality Obstetrics and Gynecology	10				*	*	
	Psychology of communication		*	*				
	Conflict in a medical profession				*			*
Total of the Educational Program for 6 years, including: Mandatory Components		360						
Elective Blocks (Components)		270						
		90						

The sequence of educational activities of applicants for higher education

Year of study	Types of educational activities
1st year of study (60 ECTS credits)	Mandatory Components (44 ECTS credits) Elective Blocks (16 ECTS credits)
2nd year of study (60 ECTS credits)	Mandatory Components (41 ECTS credits) Elective Blocks (19 ECTS credits)
3rd year of study (60 ECTS credits)	Obligatory Components (44 ECTS credits) Elective Blocks (16 ECTS credits)
4th year of study (60 ECTS credits)	Obligatory Components (45 ECTS credits) Elective Blocks (15 ECTS credits)
5th year of study (60 ECTS credits)	Mandatory Components (48 ECTS credits) Elective Blocks (12 ECTS credits)
6th year of study (60 ECTS credits)	Mandatory Components (45 ECTS credits) Elective Blocks (15 ECTS credits)

3. Certification of applicants for higher education

Certification of graduates of the educational program in the Field of knowledge "Healthcare" 222 "Medicine" Specialty is carried out in the form of the Unified State Qualifying Examination (USQE). The Unified State Qualifying Exam is conducted in accordance with the Procedure for Conducting the Unified State Qualifying Exam for Applicants for the Master's Degree in Health Care Knowledge and includes:

- integrated test exam "KROK" (conducted in two test stages - "KROK 1" (the level of professional competence in general scientific (fundamental) disciplines is assessed) and "KROK 2" (the level of professional competence in professionally oriented (clinical) disciplines is assessed), which evaluates the compliance of the quality of training with higher education

standards and is conducted by the State Organization "Testing Board for Professional Competence Assessment of Higher Education Trainees in Medicine and Pharmacy" of the Ministry of Health of Ukraine:

- a professional English exam, which assesses the student's competence in professional English and is conducted by the Testing Board of the Ministry of Health of Ukraine;

- objective structured practical (clinical) exam, which assesses the readiness of the graduate to pursue professional activities in accordance with the requirements of the standard of higher education by demonstrating practical (clinical) components of professional competence on a real object or model and conducted by the examination commission of higher education and ends with the issuance of a document of higher education of the established pattern to the graduate, on awarding him a master's degree with the qualification: "Doctor".

Certification is carried out openly and publicly.

4. Matrix of correspondence of Program Competences to components of the Educational Program

	GC 1	GC 2	GC 3	GC 4	GC 5	GC 6	GC 7	GC 8	GC 9	GC 10	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13	PC 14	PC 15	PC 16	PC 17	PC 18		
	Mandatory Components																													
MC 1	+	+	+		+	+					+																		+	
MC 2	+	+		+	+	+	+	+	+		+																			
MC 3	+	+		+	+	+	+	+	+		+																			
MC 4	+	+		+	+	+	+		+		+																			
MC 5	+	+	+	+	+	+	+	+	+		+	+														+				
MC 6	+	+		+	+	+	+		+		+	+													+					
MC 7	+	+	+	+	+	+	+	+		+		+															+			
MC 8	+	+	+		+		+	+																	+	+				
MC 9	+	+	+	+	+	+	+	+		+		+																		
MC 10	+	+	+		+			+				+																		
MC 11	+	+	+		+		+	+	+	+		+															+			
MC 12	+	+	+	+	+	+	+	+	+	+		+															+			
MC 13	+	+	+	+	+		+	+	+			+													+					
MC 14	+	+	+	+	+		+	+	+	+		+								+							+			
MC 15	+	+	+	+	+				+			+																		
MC 16	+	+	+	+	+			+	+	+			+									+	+					+	+	
MC 17	+	+	+	+	+		+	+	+			+							+						+		+			
MC 18	+	+	+	+	+		+	+	+			+			+				+						+		+			
MC 19	+	+	+	+	+	+	+	+	+			+						+		+					+					
MC 20	+	+	+	+	+		+	+	+	+	+	+		+						+		+		+	+	+	+	+	+	
MC 21	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 22	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 23	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 24	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 25	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 26	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 27	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 28	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 29	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+
MC 30	+	+	+	+	+	+	+	+	+		+	+													+	+	+	+	+	+

5. Matrix of providing Program Learning Outcomes (PLO) with relevant components of the Educational Program

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21	
Mandatory Components																						
MC 1				+													+				+	
MC 2				+																	+	+
MC 3				+																	+	+
MC 4	+																				+	+
MC 5			+		+																+	+
MC 6	+		+	+														+			+	
MC 7	+	+	+														+	+	+	+	+	
MC 8	+	+	+														+				+	
MC 9	+		+		+																+	
MC 10	+		+														+				+	
MC 11	+		+		+		+										+		+		+	
MC 12	+	+															+		+		+	+
MC 13	+	+	+			+											+		+		+	+
MC 14	+	+	+		+											+	+	+			+	+
MC 15	+		+		+												+				+	
MC 16	+	+		+			+	+	+								+		+		+	+
MC 17	+	+	+													+					+	+
MC 18	+	+	+													+					+	+
MC 19	+	+	+				+										+					+
MC 20	+	+									+	+								+	+	
MC 21	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	+	+
MC 22	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	+	+
MC 23	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	+	+
MC 24	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 25	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 26	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 27	+	+	+	+	+	+	+	+	+	+		+		+		+	+	+	+	+	+	+
MC 28	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 29	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 30	+	+	+	+			+		+		+	+	+			+	+	+	+	+	+	+
MC 31	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 32	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+
MC 33	+	+	+													+	+				+	+
MC 34	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 35	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 36	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	+	+
MC 37	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 38	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 39	+	+	+																+		+	+
MC 40	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 41	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 42	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 43	+	+	+	+	+	+	+	+	+	+			+			+	+	+	+	+	+	+
MC 44	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+
MC 45	+	+	+	+	+	+	+	+	+	+	+			+		+	+	+	+	+	+	+
Elective Blocks (Components)																						
EB 1	+	+																			+	
EB 2	+	+																			+	
EB 3	+	+	+													+	+	+	+	+	+	
EB 4	+	+	+													+	+	+	+	+	+	

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21	
EB 5	+			+	+																+	+
EB 6				+																	+	+
EB 7	+	+	+			+											+				+	+
EB 8	+	+	+			+											+				+	+
EB 9	+	+																+			+	+
EB 10	+	+																			+	
EB 11	+	+																			+	
EB 12	+	+																			+	
EB 13	+	+	+	+			+		+		+	+	+			+	+	+	+		+	+
EB 14	+	+	+	+			+		+		+	+	+			+	+	+	+		+	+
EB 15	+	+													+		+				+	+
EB 16	+	+													+		+				+	+
EB 17	+		+		+																+	
EB 18	+	+	+	+			+		+		+	+				+	+	+	+		+	+
EB 19	+	+									+	+				+	+	+	+		+	
EB 20	+	+	+		+			+	+		+	+				+		+	+	+	+	+
EB 21	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+		+	+
EB 22	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+		+	+
EB 23	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+		+	+
EB 24	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+		+	+
EB 25	+	+	+				+										+					+
EB 26	+	+	+				+										+					+
EB 27	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 28	+			+																	+	
EB 29	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 30	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 31	+	+									+	+				+	+	+	+		+	
EB 32	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+		+	+
EB 33	+	+	+																		+	+
EB 34	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 35	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 36	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 37	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 38	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 39	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 40	+	+	+												+						+	+
EB 41	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 42	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 43	+	+	+	+	+		+			+					+		+				+	+
EB 44	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 45	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 46	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 47	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 48	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 49	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 50	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 51	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 52	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21	
EB 53	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+		+	+	
EB 54	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 55	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 56	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 57	+	+	+	+	+	+	+	+	+	+					+	+	+	+			+	+
EB 58	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 59	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 60	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 61	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 62	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 63.1	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 63.2	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		+	+
EB 64.1	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 64.2	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 64.3	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 65.1	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 65.2	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 65.3	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 66.1	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 66.2	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 66.3	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+			+	+
EB 66.4	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+			+	+

List 1 (Syndromes And Symptoms)

1. amenorrhea
2. anemic syndrome
3. anuria and oliguria
4. hypertension
5. arterial hypotension
6. chest pain
7. abdominal pain
8. pain in the extremities and back
9. pain in the perineum
10. sore throat
11. vomiting
12. bronchoobstructive syndrome
13. bulbar syndrome
14. effusion into the pleural cavity
15. hallucinatory-paranoid syndrome
16. fever
17. hemorrhagic syndrome
18. exanthema, enanthema
19. hepatomegaly and hepatolienal syndrome
20. headache
21. dysuria
22. dysmenorrhea
23. dyspepsia
24. dysphagia
25. diarrhea
26. jaundice
27. shortness of breath
28. asphyxia
29. constipation
30. dizziness,
31. cardiomegaly
32. cough
33. intestinal obstruction
34. hemoptysis
35. lymphadenopathy
36. meningeal syndrome
37. (uterine bleeding)
38. edematous syndrome
39. paresis, paralysis
40. polyuria
41. portal hypertension
42. speech disorders (aphasia)
43. heart rhythm and conductivity disorders
44. disorders of consciousness

45. pruritus
46. urinary syndrome
47. dementia syndrome
48. dehydration syndrome
49. indigestion syndrome
50. stridor
51. joint syndrome

52. convulsions
53. weight loss
54. cyanosis
55. partial or complete loss of vision
56. partial or complete loss of hearing
57. gastrointestinal bleeding

List 2 (Diseases)

I) Diseases of the blood and blood-forming organs, disorders involving the immune mechanism

1. anemia
2. hemolytic disease of newborns
3. hemophilia
4. leukemia
5. lymphogranulomatosis
6. lymphoma
7. myeloma
8. congenital (Bruton 's disease, Viscot-Aldridge syndrome) and acquired immunodeficiency states
9. sepsis of newborns
10. surgical sepsis
11. thrombocytopenic purpura
12. chronic radiation injuries

II) Mental and behavioral disorders:

13. bipolar affective disorder
14. acute psychosis including alcoholic delirium
15. epilepsy
16. neurotic disorders
17. personality disorders
18. schizophrenia

III) Diseases of the nervous system

19. intracranial trauma
20. meningitis, encephalitis
21. migraine and other types of headaches pain
22. perinatal encephalopathy
23. disorders of the autonomic nervous system
24. cerebral circulatory disorders
25. radiculopathy and polyneuropathy
26. multiple sclerosis
27. chronic occupational injuries (vibration disease, occupational dyskinesias)

IV) Diseases of the eye

28. blepharitis
29. acute attack of glaucoma
30. conjunctivitis
31. foreign body of the eye

32. eye injuries

V) Diseases of the throat, ears, nose

33. laryngitis
34. otitis
35. peritonsillar abscess
36. sinusitis
37. tonsillitis

VI) Diseases of the circulatory system:

38. aortic aneurysms
39. atherosclerosis
40. atherosclerosis of the arteries of the extremities
41. varicose veins of the lower extremities
42. congenital heart diseases
43. secondary hypertension
44. acute occlusion of the main and peripheral arteries;
45. endocarditis
46. essential and secondary arterial hypertension
47. coronary heart disease
48. carditis including endocardial fibroelastosis
49. cardiomyopathy
50. pulmonary heart
51. acquired heart defects

52. obliterating endarteritis
53. pericarditis
54. heart rhythm and conductivity disorders
55. heart failure
56. injuries of the heart and blood vessels
57. thromboembolism of pulmonary artery
58. phlebitis, thrombophlebitis

VII) Diseases of the respiratory system and mediastinum:

59. lung abscess
60. asphyxia
61. bronchial asthma
62. bronchitis
63. bronchiectasis
64. bronchopulmonary dysplasia
65. congenital malformations of the respiratory system

66. respiratory failure
 67. pleural empyema
 68. infectious and destructive lung diseases
 69. pulmonary insufficiency
 70. mediastinitis
 71. cystic fibrosis
 72. tumors of the lungs and mediastinum
 73. pleurisy
 74. pneumoconiosis
 75. pneumonia
 76. pneumothorax
 77. respiratory distress syndrome and neonatal pneumonia
 78. foreign body in the respiratory tract ways
 79. chest injuries (superficial, open)
 80. chronic obstructive pulmonary disease
- VIII) Diseases of the digestive system:
81. rectal prolapse
 82. peptic ulcer disease
 83. congenital malformations of the digestive system
 84. gastroesophageal reflux disease, 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 area
 93. pinched and uncompressed abdominal hernias
 94. nonspecific ulcerative colitis
 95. tumors of the -esophagus, stomach, colon, liver and pancreas
 96. peptic ulcers of the stomach and duodenum
 97. peritonitis
 98. perforation of the hollow organ
 99. liver failure
 100. malabsorption syndrome
 101. stenosis of the pylorus of the stomach
 102. abdominal injuries (superficial, open)
 103. functional gastrointestinal disorders
 104. Crohn's disease
 105. diseases of operated stomach
 106. cholecystitis, cholangitis, gallstone disease, choledocholithiasis
 107. chronic colitis
 108. cirrhosis of the liver
 109. gastrointestinal bleeding

- IX) Diseases of the genitourinary system:
110. renal amyloidosis
 111. balanitis, balanoposthitis
 112. congenital malformations of the urinary system
 113. glomerulonephritis
 114. dysmetabolic nephropathy
 115. nephrotic syndrome
 116. tumors of kidneys, urinary tract and prostate
 117. pyelonephritis
 118. prostatitis
 119. urolithiasis
 120. tubulointerstitial nephritis
 121. urethritis
 122. chronic kidney disease
 123. cystitis
- X) Diseases of the skin and subcutaneous tissues:
124. allergodermatosis (dermatitis, toxidermia, eczema)
 125. bacterial diseases of the skin and subcutaneous tissue, pyoderma
 126. purulent-inflammatory diseases of the fingers and hands
 127. purulent-inflammatory diseases in children and newborns
 128. mycoses
 129. burns and frostbite
 130. parasitic skin diseases (scabies, lice)
 131. psoriasis
 132. vesicular dermatoses
 133. specific surgical infection (anaerobic clostridial and non-clostridial)
- XI) Diseases of the musculoskeletal system and connective tissue:
134. ankylosing spondylitis
 135. congenital and acquired malformations of the musculoskeletal system
 136. acute rheumatic fever
 137. dermatomyositis and polymyositis
 138. tumors of the musculoskeletal system
 139. osteoarthritis
 140. osteomyelitis
 141. gout
 142. polytrauma
 143. reactive arthritis
 144. rheumatoid arthritis
 145. systemic scleroderma
 146. systemic lupus erythematosus
 147. systemic vasculitis (nodular polyarteritis, hemorrhagic vasculitis, hypersensitive vasculitis)

148. common fractures of bones of the shoulder, forearm, hand, thigh, shin, foot
149. pelvic trauma
150. spinal cord injury
151. damage to large joints (hip, knee, ankle, elbow)
152. chronic rheumatic disease
153. juvenile rheumatoid arthritis
XII) Diseases of the endocrine system, eating disorders and metabolic disorders:
154. acromegaly
155. thymic hyperplasia
156. hypothyroidism
157. malnutrition, protein-energy deficiency
158. pituitary dwarfism
159. diffuse toxic goiter
160. iodine deficiency diseases
161 thyroid disease
162 diabetes mellitus
163 thyroid tumors
163. obesity
164. congenital dysfunction of the adrenal cortex
165. rickets, spasmophilia
166. hereditary metabolic diseases (phenylketonuria)
167. hereditary chromosomal disorders (Down's disease, Shereshevsky-Turner syndrome)
168. thyroiditis
169. thyrotoxia
170. Itsenko-Cushing's syndrome
171. chronic adrenal insufficiency
172. diabetes mellitus
XIII) Infectious and parasitic diseases:
173. bacterial food poisoning
174. erysipelas
175. botulism
176. viral hepatitis
177. chickenpox
178. congenital infections of the newborn
179. helminthiasis
180. herpesvirus diseases
181. influenza and other acute respiratory viral infections
182. diphtheria
183. infectious mononucleosis
184. pertussis
185. intestinal bacterial infections
186. intestinal viral infections
187. measles
188. tick-borne viral encephalitis
189. rubella
190. leptospirosis

191. malaria
192. meningococcal infection
193. extremely dangerous viral infections
194. mumps infection
195. poliomyelitis
196. tetanus
197. protozoal infections
198. rickettsiosis
199. anthrax
200. rabies
201. scarlatina
202. tuberculosis of different localization
203. Lyme disease
204. disease caused by a human immunodeficiency virus (HIV)
205. chlamydial infections
206. cholera
207. plague
- infectious diseases transmitted mainly sexually:
208. gonococcal infection
209. syphilis
XIV) Diseases of the female reproductive system pathology of pregnancy:
210. multiple pregnancy
211. vomiting of the pregnant women
212. pregnancy with extragenital pathology
213. fetal distress during pregnancy
214. fetal growth retardation
215. immune conflict during pregnancy
216. molar pregnancy
217. placenta previa
218. premature detachment of the placenta
219. premature birth and delayed pregnancy
220. ectopic pregnancy
221. preeclampsia and eclampsia
222. spontaneous abortion, pathology of childbirth and the postpartum period:
223. anomalies of labor
224. pelvic anomalies, including clinically narrow pelvis
225. fetal distress during childbirth
226. hemorrhage during and after a birth giving
227. incorrect position and presentation of the fetus
228. postpartum septic diseases
229. injuries of the uterus and birth canal
XV) Gynecological diseases:
230. abnormal uterine bleeding
231. ovarian apoplexy
232. infertility
233. congenital malformations of female genitalia

- 234. benign dysplasia of mammary glands
- 235. benign and precancerous tumors of the female genitalia bodies
- 236. endometriosis
- 237. inflammatory diseases of the female genital organs

- 238. malignant tumors of the female genitalia
- 239. mastitis
- 240. neuroendocrine syndromes
- 241. tumors of the breast

List 3 (Emergency conditions of the patient):

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| <ul style="list-style-type: none"> 1. asphyxia (including neonatal) 2. hypertensive crisis 3. acute respiratory failure 4. acute urinary retention 5. acute adrenal insufficiency 6. acute kidney damage 7. acute liver failure 8. acute heart failure 9. acute poisoning, including combat poisons 10. acute psychosis 11. acute radiation and chemical damage, including in the field and in emergencies 12. acute cerebral insufficiency 13. electric shock 14. status epilepticus 15. acute bleeding 16. acute blood loss syndrome, including in the field and in emergencies 17. cardiac arrest 18. collapse | <ul style="list-style-type: none"> 19. disturbance of consciousness and comatose states 20. renal colic 21. biliary colic 22. acute anaphylactic reactions 23. acute cardiac arrhythmias 24. cold injury, including in the field 25. thermal injury, including in the field 26. convulsive syndrome 27. drowning 28. strangulation asphyxia 29. normal childbirth 30. shocks 31. bites of snakes, insects, animals 32. penetrating injuries, including in the field 33. burns, including in the field 34. foreign bodies of airways, gastrointestinal tract, ear, nose, throat and eyes |
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List 4 (Laboratory And Instrumental Research)

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|---|---|
| <ul style="list-style-type: none"> 1. analysis of pleural fluid 2. analysis of ascitic fluid 3. analysis of synovial fluid 4. Zymnitsky analysis of urine 5. Nechiporenko urine analysis 6. urine analysis for diastase and blood test for α-amylase 7. blood proteins and their fractions, C-reactive protein 8. blood glucose, glycated hemoglobin 9. oral glucose tolerance test 10. lipid profile of blood 11. blood hormones 12. iron and copper blood 13. creatinine, blood urea 14. blood electrolytes 15. blood transaminases 16. total blood bilirubin and its fractions | <ul style="list-style-type: none"> 17. coagulogram 18. uric acid in the blood 19. alkaline blood phosphatase 20. histomorphological examination of biopsy from lymph node 21. histomorphological study of biopsy from parenchymal organs 22. histomorphological study of biopsy from mucosae 23. histomorphological study of biopsy from muscle and skin 24. study of the indoor environment (indicators of microclimate, natural and artificial lighting, bacteriological and chemical air pollution). 25. study of the function of external respiration 26. standard ECG (12 leads) |
|---|---|

27. endoscopic examination of the bronchi
28. endoscopic examination of digestive tract
29. echocardiography and Doppler ultrasonography
30. general analysis of feces
31. general blood test
32. general analysis of urine
33. general analysis of cerebrospinal fluid
34. general analysis of sternal punctate
35. general analysis of sputum
36. general immunological profile of blood
37. serological reactions in infectious diseases
38. rapid tests for viral diseases
39. usage of amplified methods in cases of infectious diseases
40. usage of serological reactions in cases of autoimmune diseases
41. chemical and bacteriological studies of the human environment (air, water, soil)
42. microbiological study of biological fluids and secretions
43. radiation measurement (sound, vibration, ionizing), individual radiometry.
44. methods of instrumental visualization of the thyroid gland
45. X-ray contrast angiography
46. methods of instrumental visualization of abdominal organs
47. methods of instrumental visualization of the thoracic cavity
48. methods of instrumental visualization of the genitourinary system
49. methods of instrumental visualization of the skull, spine, spinal cord, bones and joints
50. methods of instrumental imaging of the mammary gland
51. tuberculin diagnosis
52. fractional study of gastric juice, bile and gastric pH
53. chemical, organoleptic, bacteriological examination of food and drinking water
54. cytological examination of the cervix
55. measurement of ergonomic indicators of severity and intensity of work.

List 5 (Medical Manipulations):

1. perform indirect cardiac massage
2. perform artificial respiration
3. perform defibrillation using a manual automatic defibrillator-cardioverter
4. record a standard ECG in 12 leads
5. to temporarily stop external bleeding
6. to perform primary surgical treatment of the wound, bandage, removal of skin sutures, including in the field
7. to apply bandages, including in the field
8. to insert nasogastric and orogastric tubes
9. to carry out transport immobilization
10. to administer drugs (intravenous bolus and drip, intraosseous), including in the field
11. provide peripheral venous access
12. measure blood pressure
13. restore airway ventilation
14. perform catheterization of the bladder with a soft tube
15. perform nasal tamponade
16. perform primary care of the newborn
17. perform finger examination of the rectum and examination using a rectal mirror
18. to perform a finger examination of the prostate
19. to perform a clinical examination of the mammary glands
20. to perform a pleural puncture
21. to determine blood groups, rhesus
22. to transfuse blood components and blood substitutes
23. to conduct bimanual gynecologic examination and gynecologic examination in mirrors

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