

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE INTERNATIONAL HUMANITARIAN UNIVERSITY

«ACCEPTED»

Scientific Council of International humanitarian university

Protocol No 7

from 06, 07, 20 23

«APPROVED»

Rector of

International humanitarian

university

Professor K. HROMOVENKO

from «

20 23

The program is put into effect from $\mathcal{O} \neq \mathcal{O} \neq \mathcal{O}$

2023 p.

EDUCATIONAL PROFESSIONAL PROGRAM MEDICINE

Field of knowledge – 22 Health care Specialty – 222 Medicine Educational degree – Master's degree

Educational and professional program (EPP) "Medicine"

specialty 222 "Medicine" the second (Master's) level of higher education

Pro-rector of scientific and medical work

L.KOVALEVSKA

Acting vice-rector for scientific and pedagogical work

L. RAICHEVA

Head of the Department of Internal Medicine

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Dean of the Faculty of Medicine and public health

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Guarantor of EPP "Medicine"

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L.YEFREMENKOVA

PREFACE

The educational and professional program "Medicine" of the second (master's) level of higher education in specialty 222 "Medicine", field of knowledge 22 Health care was developed in accordance with the Law of Ukraine "On Higher Education", the Standard of Higher Education of the second (master's) level of higher education of the field of knowledge 22 "Health care" from the specialty "Medicine" (approved by the Order of the Ministry of Education and Science of Ukraine No. 1197 of 08.11.2021), discussed at the general labor meeting of the scientific and pedagogical staff of the Faculty of Medicine and Public Health of the International Humanitarian University, Resolution of the Cabinet of Ministers of Ukraine dated 29.04.2015 No. 266 "On approval of the list of fields of knowledge and specialties for which higher education applicants are trained", Resolution of the Cabinet of Ministers of Ukraine dated 23.11.2011 No. 1341 "On approval of the National Framework of Qualifications", as amended in accordance with Resolutions of the Cabinet of Ministers of Ukraine dated 12.06.2019 No. 509, dated 25.06.2020 No. 519, Resolutions of the Cabinet of Ministers of Ukraine dated 28.03.2018 No. 334 "On approval of the Procedure for the implementation of a unified state qualification exam for holders of a master's degree in the field of knowledge"22 Health care "I", Resolution of the Cabinet of Ministers of Ukraine dated 30.12.2015 No. 1187 "On the approval of the Licensing conditions for the implementation of educational activities of educational institutions" and other current regulatory documents, Regulations on the organization of the educational process at the International Humanitarian University. The educational and professional program is a normative document, which defines the profile of the educational and professional program in the specialty 222 "Medicine", the list of program components and their logical sequence, the number of ECTS credits required for the implementation of this program, the form of attestation of higher education applicants.

The educational and professional program was developed by the working group of the Faculty of Medicine and Public Health of the International Humanitarian University, consisting of:

- 1. Lyudmila Nazarivna Yefremenkova— Doctor of medical sciences, Professor, Head of the department of internal diseases guarantor of the OPP.
- 2. Lyudmila Andriivna Kovalevska doctor of medical sciences, professor, professor of the department of internal diseases, vice-rector for scientific and medical work.
- 3. Vitaly Naumovich Kukushkin Candidate of Medical Sciences, Associate Professor of the Department of Obstetrics, Gynecology and Pediatrics, Dean of the Faculty of Medicine and Public Health.
- 4. Polyasny Vyacheslav Oleksiyovych Doctor of Medical Sciences, Professor, General Director of the "Odesa Regional Clinical Antitumor Center".
- 5. Sofiya Pavlivna Oshanina 5th-year graduate of the International Humanitarian University majoring in "Medicine"

Reviews - feedback from external stakeholders:

1. General Director of the State University "Heart Institute of the Ministry of Health of Ukraine", corresponding member of the National Academy of Medical Sciences of Ukraine B.M. Todurov.

2. Medical Director of "House of Medicine" LLC, Candidate of Medical Sciences D.G. Havrychenko.

1. Profile of the educational and professional program in specialty 222 "Medicine"

1. I Tollie of the educ	1. General Information
Full name of the higher educational institution and structural division	International Humanitarian University, Faculty of Medicine and Public Health
The degree of higher education and the title of the qualification in the original language	Master of Medicine (MMed), Master of Medicine, specialty "Medicine"
The official name of the educational program	Educational and professional training program for the Master of Medicine in specialty 222 "Medicine" branch of knowledge 22 Health care
Type of diploma and scope of the educational program	Master's degree, single, Study period: 5 years and 10 months
Cycle/level	NRK of Ukraine – 7th level, FQ-EHEA – second cycle, EQF-LLL – Level 7
Prerequisites	Admission conditions are determined by the "Rules of admission to the International Humanitarian University". A person has the right to obtain a master's degree on the basis of a complete general secondary education, subject to the successful completion of an external independent assessment of the quality of education or a national multi-subject test (NMT). The International Humanitarian University also admits 222 persons who have obtained the educational and qualification level of a junior specialist or a professional junior bachelor in related specialties to the second year for obtaining a master's degree in the specialty "Medicine", provided they successfully pass the professional entrance exams.
Language(s) of instruction	English
The term of validity of the educational program	6 years
Internet address of the permanent placement of the description of the educational program	http://www.mgu.edu.ua

2. The purpose of the educational and professional program

Training of specialists who are able to carry out diagnosis, differential diagnosis and treatment of patients at a high level in departments of various profiles, in particular in private medical institutions, in accordance with modern examination methods and the latest medical equipment; who will constantly improve their professional level and will be able to carry out scientific and pedagogical activities both in institutions of higher education and in structures belonging to the practical branch of medicine.

Subject area (field of knowledge, specialty, specialization) Orientation of the educational program	Field of knowledge: 22 - "Health care" Specialty: 222 - "Medicine" The educational and professional program has an applied orientation in the field of health care, diagnostics, treatment and prevention of human diseases
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The main focus ducational and scientific program	Higher education in the field of knowledge 22 "Health care", specialties 222 "Medicine". The program is focused on training in the conditions of a corporate higher education institution, with the possibility of further employment in state and private medical and preventive institutions. Keywords: health care, medicine, higher education, master's degree, doctor
Features of the program	The uniqueness of OPP is determined by the combination of classical university education, which allows for the formation of clinical thinking in future doctors, which in the future will contribute to timely diagnosis, the development of preventive measures and complex treatment of diseases in accordance with social, household and epidemiological factors; with practice in educational and scientific treatment bases of the university (House of Medicine LLC, Odesa Regional Clinical Anticancer Center, Odesa Clinical Doctor on Railway Transport), with the possibility of combining the educational process with clinical practice; with an overwhelming focus of meeting the requirements and needs of patients of private clinics. An important element of training at the OPP is the completion of 4-6 weeks of practice in the intersemester period on clinical bases, which distinguishest training at the International Humanitarian University from training at other universities of the medical profile of the southern region.

Suitability for employment

The specialist is prepared to work according to DK 009-2010:

Section Q. Health care and social assistance

Chapter 86. Health care

Group 86.1 Activities of hospital institutions

Class 86.10 Activities of hospital institutions

Group 86.2 Medical and dental practice

Class 86.21 General medical practice

Class 86.22 Specialized medical practice

Group 86.9 Other health care activities

Class 86.90 Other health care activities

After graduating from the educational program of the master's degree in the specialty "Medicine", the specialist is able to perform professional work: an intern doctor (KP code - 3229).

Further education

For further professional training in the specialty "Medicine", a specialist must enroll in postgraduate education programs - internships (primary specialization), where training is carried out under educational programs in a certain specialty according to the list approved by the order of the Ministry of Health of Ukraine dated 23.02.2005 No. 81, and can also enroll in educational - scientific program for obtaining the degree of doctor of medicine.

After training in an internship, the specialist is assigned the qualification of a specialist doctor who is able to perform the professional work specified in DK 003:2010 and can hold the corresponding medical position:

Class 222 Professionals in the field of medicine (except nurses).

Subclass 2221 Professionals in the medical field (except stomatology). Group 2221.2 Doctors.

Subclass 2225 Professionals in the field of medical and preventive care. Group 2225.2 Doctors, specialists in the field of medical and preventive medicine.

Group 2229.2 Medical professionals (except nursing and midwifery). In the future, specialists can undergo retraining and training in cycles of secondary specialization, and acquire another medical specialty and perform relevant types of professional activity. The growth of professional skills will ensure the continuous professional development of doctors in cycles of thematic improvement, information and internship, and other issues of post-graduate education.

5. Teaching and assessment

Teaching and learning

The main types of educational classes under the OPP: lectures, practical classes, seminar classes, individual classes, consultations, defense of medical history, independent work under the guidance of a teacher, independent extracurricular work, industrial practice. Student-centered learning, problem-oriented learning, self-learning, learning through practice, combining educational activities of students with research, simulation learning, mixed, which makes it possible to meet the individual educational needs of students of higher education.

Assessment

Control measures for the evaluation of educational activities include current, intermediate and final control of knowledge, abilities and skills of students of higher education. Final control includes semester control and state certification of the applicants. The grades "Excellent", "Satisfactory" are issued: according to the results of the examination of production practices. The grade "Passed" is assigned based on the results of the assessments. The following types of control are provided by level at the university: self-control, departmental and ministerial (USQE). Selfmonitoring is designed for independent assessment by students of the quality of assimilation of educational material from a certain discipline. Departmental control is carried out in order to assess the level of training of higher education applicants within the discipline at various stages of its study and is carried out in the form of entrance, current, borderline and final controls. Ministerial control is designed to diagnose the quality of the educational process, determine the strength of knowledge acquisition, and compare actual learning results with expected ones in accordance with the requirements set forth in regulatory documents.

The scope and means of determining the level of assimilation of knowledge and formed abilities and skills, which are subject to control, are determined by the departments in the work program and syllabus of the academic discipline and are brought to the attention of students at the first classroom session. The unified state qualifying exam is conducted in accordance with the Procedure for conducting the unified state qualifying exam for master's degree holders in the field of knowledge "Health Care" and consists of the following components:

- integrated test exams "KROK-1" and "KROK-2", which evaluate the compliance of the quality of training of specialists with the standards of higher education and are conducted by the State organization "Center for testing the professional competence of specialists with higher education in the fields of training "Medicine" and "Pharmacy" under the Ministry of Defense health of Ukraine"; the professional English language exam (ELPT), which assesses the professionally oriented English language competence of higher education applicants and is conducted by the State organization "Center for Testing the Professional Competence of Specialists with Higher Education in the Fields of Training "Medicine" and "Pharmacy" at the Ministry of Education of Ukraine;
- an objective structured practical (clinical) exam that assesses the readiness of a graduate to carry out professional activities in accordance with the requirements of the higher education standard by demonstrating the practical (clinical) components of professional competence on a real object or on a model and is conducted by the examination board of a higher education institution.

Integral competence

The ability to solve complex specialized tasks and practical problems in professional activities in the field of health care in the specialty "Medicine", or in the learning process, which involves the implementation of a diagnostic search and is characterized by the complexity and complexity of conditions and requirements.

General competences (GC)

- 1. Ability to abstract thinking, analysis and synthesis.
- 2. The ability to learn and master modern knowledge.
- 3. Ability to apply knowledge in practical situations.
- 4. Knowledge and understanding of the subject field and understanding of professional activity.
- 5. Ability to adapt and act in a new situation.
- 6. Ability to make informed decisions.
- 7. Ability for interpersonal interaction and teamwork.
- 8. Ability to communicate in a foreign language.
- 9. Ability to search, process and analyze information from various sources, including the use of modern information technologies.
- 10. Determination and persistence in relation to assigned tasks and assumed responsibilities.
- 11. Awareness of equal opportunities and gender issues.
- 12. The ability to realize one's rights and responsibilities as a member of society, to realize the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.
- 13. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding 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, technology and technology.

Professional competences of the specialty (PC)

- 1. Ability to collect medical information about the patient and analyze clinical data.
- 2. Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results.
- 3. The ability to establish a preliminary and clinical diagnosis of the disease.
- 4. The ability to determine the necessary regime of work, rest and nutrition in the treatment and prevention of diseases.
- 5. Ability to determine the principles and nature of treatment, rehabilitation and prevention of diseases.
- 6. Ability to diagnose emergency conditions.
- 7. Ability to determine tactics and provide emergency medical care.
- 8. Ability to carry out medical evacuation measures.
- 9. Ability to perform medical manipulations.
- 10. Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.
- 11. The ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning counseling skills and contraceptive method selection.
- 12. Ability to carry out sanitary and hygienic, preventive, in particular antiepidemic, measures.
- 13. Ability to carry out a work capacity examination.
- 14. Ability to maintain medical documentation, including electronic forms.
- 15. The ability to assess the impact of the environment, socio-economic and biological determinants on the state of health of an individual, family, population.
- 16. The ability to analyze the activity of a doctor, unit, health care institution, ensure the quality of medical care and increase the efficiency of the use of medical resources.
- 17. Ability to organize and integrate the provision of medical care to the

population and marketing of medical services.

- 18. Ability to conduct epidemiological and medical-statistical research on the health of the population; processing of social, economic and medical information.
- 19. The ability to clearly and unambiguously convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to people who are studying.
- 20. Ability to manage work processes in the field of health care, which are complex, unpredictable and require new strategic approaches. Ability to develop and implement scientific and applied projects in the field of health care.
- 21. Compliance with ethical principles when working with patients and laboratory animals.
- 22. Observance of professional and academic integrity, bear responsibility for the reliability of the obtained scientific results.

1. Program learning outcomes (PLO)

- 1. Have thorough knowledge of the structure of professional activity. Possess information on fundamental and clinical biomedical sciences, sufficient for effective professional activity in conditions of constant updating of fundamental and applied medical information. Critically consider existing problems and research results in the field of one's specialty. To be responsible for professional development, the ability for further professional training with a high level of autonomy.
- 2. To highlight and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).
- 3. Collect complaints, anamnesis of life and diseases, evaluate the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 4), taking into account the age of the patient.
- 4. To establish a final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis, observing the relevant ethical and legal norms, under the control of the managing physician in the conditions of a health care institution (according to list 2).
- 5. Assign and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4), patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
- 6. Determine the main clinical syndrome or what causes the severity of the victim/victim's condition (according to list 3) by making a reasoned decision and assessing the person's condition under any circumstances (in the conditions of a health care facility, outside its borders), including in conditions of emergency and hostilities, in field conditions, in conditions of lack of information and limited time.
- 7. Determine the nature and principles of treatment (conservative, operative) of patients with diseases (according to list 2), taking into

- account the age of the patient, in the conditions of a health care institution, outside its borders and at the stages of medical evacuation, including in field conditions, on the basis of a preliminary clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes, in case of the need to expand the standard scheme, be able to justify personalized recommendations under the control of the head physician in the conditions of a medical institution.
- 8. Determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.
- 9.Determine the approach, plan and tactics of managing physiological pregnancy, physiological childbirth and the postpartum period by making a reasoned decision according to existing algorithms and standard schemes.
- 10. To assess the general condition of a newborn child by making a reasoned decision according to existing algorithms and standard schemes, observing the relevant ethical and legal norms.
- 11. Assess and monitor the child's development, provide recommendations on feeding and nutritional features depending on age, organize preventive vaccinations according to the calendar.
- 12. Determine tactics and provide emergency medical care in emergency situations (according to list 3) in limited time in accordance with existing clinical protocols and standards of treatment.
- 13. To organize the provision of medical aid and medical evacuation measures to the population and military personnel in emergency situations and hostilities, including in field conditions.
- 14. Form rational medical routes for patients; organize interaction with colleagues in their own and other institutions, organizations and institutions; to apply tools for the promotion of medical services in the market, based on the analysis of the needs of the population, in the conditions of the functioning of the health care institution, its division, in a competitive environment.
- 15. Perform medical manipulations (according to list 5) in the conditions of a medical institution, at home or at work on the basis of a previous clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, observing the relevant ethical and legal.
- 16. To determine the state of functioning and limitations of a person's life activity and the duration of incapacity for work with the preparation of relevant documents, in the conditions of a health care institution, based on data about the disease and its course, peculiarities of the person's professional activity, etc. Maintain medical documentation regarding the patient and the contingent of the population on the basis of regulatory documents.
- 17. To plan and implement a system of anti-epidemic and preventive measures regarding the occurrence and spread of diseases among the population. Analyze the epidemiological situation and carry out measures for mass and individual, general and local prevention of infectious diseases. Plan, organize and carry out measures for the specific prevention of infectious diseases, including in accordance with the National calendar of preventive vaccinations, both mandatory

and recommended. Manage vaccine residues, organize additional vaccination campaigns, including immunoprophylaxis measures.

- 18. Search for necessary information in professional literature and databases of other sources, analyze, evaluate and apply this information. Apply modern digital technologies, specialized software, and statistical data analysis methods to solve complex healthcare problems.
- 19. Assess the impact of the environment on human health to assess the morbidity of the population.
- 20. To organize the necessary level of individual safety (own and the persons one cares about) in case of occurrence of typical dangerous situations in the individual field of activity.
- 21. Clearly and unambiguously convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists.
- 22. Make effective decisions in the field of health care, taking into account the available resources, social, economic and ethical consequences. Manage work processes in the field of health care, which are complex, unpredictable and require new strategic approaches, organize the work and professional development of personnel taking into account the acquired skills of effective teamwork, leadership positions, appropriate quality, accessibility and justice, ensuring the provision of integrated medical help.
- 23. Communicate freely in the state language and in English, both orally and in writing to discuss professional activities, research and projects.
- 24. To act in the professional sphere taking into account one's own freedom and safety in cooperation and understanding with members of society; to be able to make decisions and bear responsibility for them, to work effectively in a team.

7. Resource support for program implementation

Staff

The scientific and pedagogical staff of the university departments fully ensure the training of those seeking higher education in the specialty 222 "Medicine" in accordance with the Licensing Conditions (Resolution of the Cabinet of Ministers of Ukraine "On Approval of Licensing Conditions for Conducting Educational Activities of Educational Institutions" dated 12.30.2015 No. 1187 as amended from 10.05. No. 347 of 2018). Replenishment of the high-quality staff of scientific and pedagogical workers will take place at the expense of scientific training at the graduate school of university graduates, which will be opened after the accreditation of this OPP, as well as at the expense of involving teachers with scientific degrees and academic titles in the pedagogical activity on a competitive basis by concluding contracts. Members of the support group, who implement the educational component of the educational and professional program, have qualifications corresponding to the specialty: higher education in a specialty, a scientific degree or academic title, a confirmed level of scientific and professional activity. Most of the scientific and pedagogical staff of the support group are full-time employees of the university. The teaching of lecture material for students of higher education is 100% provided by scientific and pedagogical workers who have a scientific degree and an academic title.

Material and technical supply

The material and technical base of the Faculty of Medicine and Public Health allows to carry out the educational process, scientific and medical work at the modern level in accordance with the requirements of the state education standards regarding the training of specialists, the curriculum and programs of the components of the educational and professional program. The conditions of study of students of higher education at the university fully meet sanitary and hygienic requirements. The university has a total area of premises m2. The balance includes buildings, including: educational buildings (total area - m2), a sports and recreation complex, economic buildings, a recreation and sports camp. All buildings have technical passports. The area of educational premises, which are directly used in the educational process, is: educational premises, which are located in university buildings - m2, educational premises of departments, which are located in health care institutions, is - m2. Higher education students are trained at clinical facilities that have adequate material and technical support that meets the requirements for health care institutions. Diagnostic equipment is used at practical classes in clinics: ultrasound diagnostic equipment, computer tomography, X-ray diagnostic equipment, etc. Lecture halls are 100% equipped with multimedia equipment.

The book supply of most components of the educational program meets the licensing requirements. There is a virtual reference service, interlibrary subscription. All library resources and services are presented online through the blog. The provision of students with computers during training fully meets the standards. The local network of the university is connected to the Internet using a fiber optic cable with a bandwidth of 1 Gb/s guaranteed flow. The material and technical base of the university for conducting practical classes in physical education and the work of sports sections is represented by sports halls and sports grounds.

Informational and educational and methodological support

Informational and educational and methodological support correspond to the licensing conditions for the implementation of educational activities for the training of specialists at the second (master's) level of higher education and are represented by: a schedule of the educational process, a curriculum, work programs of educational disciplines, thematic plans of lectures, practical and seminar classes, syllabi, criteria knowledge assessment, lists of questions for current and final tests, lists of questions for state exams, lists of situational and test tasks, lists of recommended educational and methodological literature, etc. The educational and methodical documentation was prepared by the scientific and pedagogical staff of the departments. Provision of students with educational materials from each component of the educational and professional program of the curriculum is 100%.

The official website of the university http://www.mgu.edu.ua contains basic information about its activities and an available electronic resource that contains educational and methodological materials from the components of the educational and professional program, including for the implementation of distance education.

8. Academic mobility

National credit mobility

The right to national credit mobility is implemented on the basis of the Law of Ukraine "On Higher Education" and agreements between higher education institutions (scientific institutions) of Ukraine or their main structural subdivisions.

International credit mobility

In 2020, the International Humanities University signed a cooperation agreement with the University of Belgrade (Serbia), according to which students have the possibility of mobility and acquiring the necessary competences in Serbia with the possibility of receiving a scholarship with the corresponding credits. In addition, this agreement provides for teaching mobility, whereby the guarantor and members of the working group are able to teach and participate in doctoral dissertation defense committees at the University of Belgrade, and Serbian professors have the opportunity to teach and participate in doctoral dissertation defense committees of philosophy at Moscow State University.

In 2019, Moscow State University concluded cooperation agreements with Xinyu University (China) and Hannan Medical University (China), which provides for academic cooperation and the exchange of teachers and students.

From February 2021, a cooperation agreement between Moscow State University and the University of Polonia (Poland) is in effect, which, among other things, provides for the implementation of dual educational programs, exchange and internship of applicants and scientific and pedagogical workers, cooperation within the framework of EU programs, as well as joint research and educational initiatives .

2. LIST OF EDUCATIONAL AND PROFESSIONAL PROGRAM COMPONENTS AND THEIR LOGICAL SEQUENCE

2.1 List of components of EPP specialty 222 "Medicine"

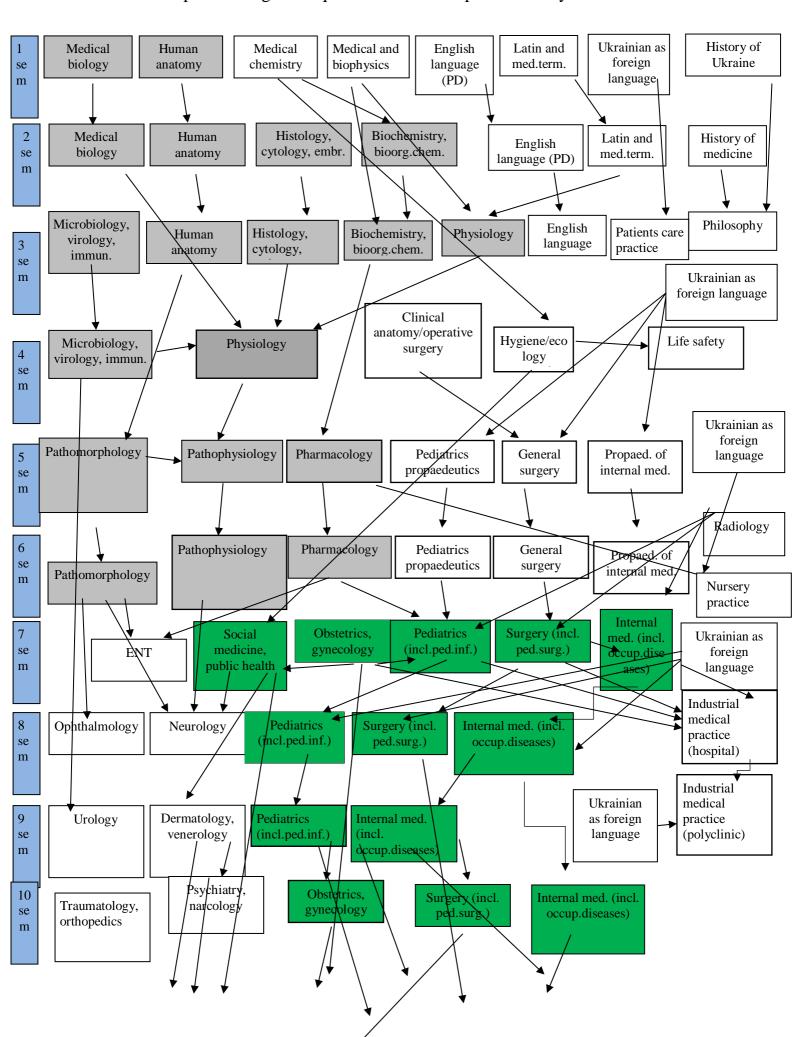
Code	Components of the educational program (study subjects, course projects (works), practices, qualification work)	Number of credits	Final control form												
	EPP Compulsory Components														
	General training														
CC 1	Ukrainian language (as foreign)	13	exam/test												
CC 2	Philosophy	2	exam												
CC 3	English language (by professional direction)	9	exam/test												
CC 4	History of Ukraine	4	exam												
CC 5	History of medicine	4	test												
CC 6	Life safety and labor protection	3	test												

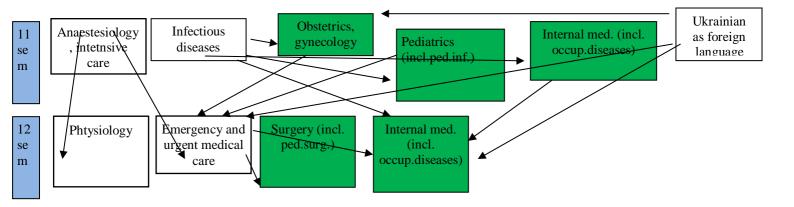
CC 7	Latin language and medical terminology	6	exam/test
CC 8	Medical biology	6	exam
CC 9	Medical and biological physics	5	exam
CC 10	Medicinal chemistry	5	exam
Total		57	
	Cycle of professional and practical trainin	g	
CC 11	Biological and bioorganic chemistry	8	exam/test
CC 12	Human anatomy	10	exam/test
CC 13	Histology, cytology and embryology	8	exam/test
CC 14	Physiology	8	exam/test
CC 15	Microbiology, virology and immunology	5	exam/test
CC 16	Hygiene and ecology	4	exam
CC 17	Pathomorphology	5	exam
CC 18	Pathophysiology	5	exam
CC 19	Pharmacology	6	exam
CC 20	Propaedeutics of internal medicine	5	exam/test
CC 21	Pediatric propaedeutics	5	exam/test
CC 22	General surgery	5	exam/test
CC 23	Radiology	3	test
CC 24	Clinical anatomy and operative surgery	3	exam
CC 25	Urology	3	exam
CC 26	Dermatology, venereology	3	exam
CC 27	Anesthesiology and intensive care	3	test
CC 28	Traumatology and orthopedics	3	exam
CC 29	Internal medicine (including occupational diseases)	20	exam/test
CC 30	Pediatrics (including children's infectious diseases)	16	exam/test
CC 31	Surgery (including pediatric surgery)	16	exam/test
CC 32	Obstetrics and gynecology	12	exam/test
CC 33	Social medicine, public health	3	exam/test
CC 34	Otorhinolaryngology	3	exam
CC 35	Ophthalmology	3	exam
CC 36	Neurology	3	exam

CC 37	Psychiatry, narcology	3	test
CC 38	Infectious diseases	3	exam
CC 39	Phtysiology	3	test
CC 40	Emergency and urgent medical care	3	test
Total		180	exam
	Practical training (preparation)		
PP 41	Patient's care practice	6	test
PP 42	Nursing practice	8	test
PP 43	Industrial medical practice (hospital)	8	test
PP 44	Industrial medical practice (polyclinic)	8	test
	Total - 267		
	Certification		
	Independent evaluation exam – stage 1 (KROK-1 and ELPT)	1	
	Independent evaluation exam - stage 2 (KROK-2 and OSCE)	2	
	EPP Optional Subject – 90 credits (according to A	ppendix)	
EPP Totincludin	tal, ag compulsory 75 (%) and optional 25 % subjects	360	

2.2. Structured-logical scheme of EPP

Brief description of logical sequence of EPP components study





EPP components related to *«Krok 1.Medicine»*EPP components related to *«Krok 2.Medicine»*

3. FORM OF CERTIFICATION OF UNDERGRADUATES

Forms of attestation of undergraduates

Attestation of the educational and professional training program in the specialty "Medicine" is carried out in the form of a single state qualification exam.

The unified state qualification exam (USQE) is carried out in accordance with the Procedure for the implementation of the unified state qualification exam for master's degree holders in the field of knowledge "Health care" and consists of the following components:

- USQE-stage 1 (takes place after the 6th semester):
- integrated test exam "KROK-1", which evaluates the compliance of the quality of training of specialists with the standards of higher education and is conducted by the State organization "Center for testing the professional competence of specialists with higher education in the fields of training "Medicine" and "Pharmacy" under the Ministry of Health of Ukraine";
- the professional English language exam, which assesses the professionally oriented English language competence of higher education seekers and is conducted by the State organization "Center for Testing the Professional Competence of Specialists with Higher Education in the Fields of Training "Medicine" and "Pharmacy" under the Ministry of Health of Ukraine";
- USQE-stage 2 (takes place after the 12th semester):
- integrated test exam "KROK-2", which assesses the compliance of the quality of training of specialists with the standards of higher education and is conducted by the State organization "Center for testing the professional competence of specialists with higher education in the fields of training "Medicine" and "Pharmacy" under the Ministry of Health of Ukraine"
- an objective structured practical (clinical) exam (OSCE) that assesses the readiness of a graduate to carry out professional activities in accordance with the requirements of the higher education standard by demonstrating the practical (clinical) components of professional competence on a real object or on a model and is conducted by the examination board of a higher education institution.

The attestation ends with the issuance of a diploma of the established model awarding the graduate with the educational qualification "Master of Medicine" and the professional qualification "Doctor".

Attestation is carried out openly and publicly.

LIST OF OPTIONAL SUBJECTS (SUBJECTS OF CHOICE)

to the curriculum for training students of higher education (Master's degree) in specialty 222 "Medicine"

Ma	In specialty 222 M		Continal C
<u>№</u>	Subject	Credits	Control form
	ar 2ndterm		/ 1
_	clines of the free choice of the student of high	er education	(chosen
1 disci			
SC1	V	4	Test
	History of Ukrainian Culture	4	Test
	Sociology	4	Test
6 11 11	Professional speech of doctors	4	Test
	ar3 rd term		
_	clines of the free choice of the student of high	er education	(chosen
1 disci	1	Т_	
SC2	Deontology in medicine	5	Test
	Labor Law	5	Test
	Foreign language (second) – German	5	Test
	ar 4th term		
_	lines of the free choice of the student of high	er education	(chosen
	plines)		
SC3	Formation of soft skills of the future	5	Test
SC4	doctor		
	Economics in the health care system	5	Test
	Medical informatics	5	Test
	Bioethics and biosafety	5	Test
	ar 5th term		
Discip	lines of the free choice of the student of high	er education	(chosen
	iplines)		
	Improvement of knowledge in anatomy,	5	Test
	biology, histology for preparation for		
	EDKI		
	Basics of modern molecular biology	5	Test
	Valeology	5	Test
	Basics of psychology	5	Test
3rdyea	ar 6thterm		
	lines of the free choice of the student of high	er education	(chosen
1 disci			
SC7	Nutritionology	5	Test
	Clinical biochemistry	5	Test
	Basics of cosmetology	5	Test
	Improvement of knowledge in physiology,	5	Test
	microbiology, immunology for		
	preparation for EDKI		
4thve	ar 7thterm	•	1
-, -,			

Discip	lines of the free choice of the student of high	er education	(chosen
2 disci			(
SC8	Clinical immunology and allergology	4	Test
SC9	Basics of sexology and sexopathology	4	Test
	Side effects of drugs	4	Test
	Actual problems of HIV infection	4	Test
	Clinical laboratory diagnostics	4	Test
4thyea	r 8thterm	1	-1
	lines of the free choice of the student of high	er education	(chosen
2 disci	plines)		
SC10	Actual problems of physiotherapy, resort	5	Test
SC11	medicine and medical rehabilitation		
	Palliative and hospice medicine	5	Test
	Basics of dentistry	5	Test
	Clinical electrocardiography	5	Test
	Clinical pathophysiology	5	Test
	Military field surgery	5	Test
5thyea	r 9th term		
_	lines of the free choice of the student of high	er education	(chosen
2 disci		T	1
	Sectional course	5	Test
SC13	Clinical pharmacology	5	Test
	Neurosurgery	5	Test
	Clinical parasitology and tropical	5	Test
	medicine		
	Oncology and radiation medicine	5	Test
	Physical rehabilitation, sports medicine	5	Test
•	r 10th term		
_	lines of the free choice of the student of high	er education	(chosen
2 disci		Τ.,	T. T.
SC14	Forensic Medicine. Medical law of	4	Test
SC15	Ukraine	4	TD 4
	Medical genetics	4	Test
	Epidemiology	4	Test
	Simulation medicine	4	Test
	Plastic and reconstructive surgery	4	Test
(4h-vo a	Management and marketing in healthcare	4	Test
	r 11th term	an advantion	(ahagan
2 disci	lines of the free choice of the student of high	ci cuucation ((C1108C11
SC16	Family medicine	5	Test
SC10 SC17	Endoscopic techniques in medicine	5	Test
SC1/		5	Test
	Fundamentals of transplantology Invasive vascular surgery	5	Test
	Invasive vascular surgery Improvement of knowledge and practical	5	
	Improvement of knowledge and practical	٦	Test

	skills in clinical disciplines (internal		
	medicine, surgery) for preparation for		
	final exam		
6thyea	r 12thterm		
Discip	lines of the free choice of the student of high	er education (chosen
2 disci	plines)		
SC18	Fundamentals of cardiac surgery	5	Test
SC19	Actual issues of hematology and	5	Test
	transfusion		
	Basics of gerontology and geriatrics	5	Test
	COVID infection: modern ideas	5	Test
	Improvement of knowledge and practical	5	Test
	skills in clinical disciplines (obstetrics,		
	gynecology, pediatrics) for preparation for		
	final exam		

PART 4. MATRIX OF PROGRAM COMPETENCES RELATION TO COMPONENTS OF EPP 222 "MEDICINE"

-		EPP components code																																									
code																				E	PP co	mp	onent	cod	e																		
Competence	CC.01	CC.02	CC.03	CC.04	CC.05	CC.06	CC.07	CC.08	CC.09	CC.10	CC.11	CC.12	CC.13	CC.14	CC.15	CC.16	CC.17	CC.18				CC.22	CC.23	CC.24	CC.25	CC.26	CC.27	CC.28	CC.29	CC.30	CC.31	CC.32	CC.33	CC.35	CC.36	CC.37	CC.38	CC.39	CC.40	PP.41	PP.42	PP.43	PP44
																			G	enera	l com	pete	ences (GC)																			
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GC 2											+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ +	+	+	+	+	+	+	+	+	+
GC 3	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ +	+	+	+	+	+	+	+	+	+
GC 4														+									+		+	+	+	+	+	+	+	+	+	+ +	+	+	+	+	+	+	+	+	+
GC 5		+													+	+	+						+	+	+	+	+	+	+	+	+	+	+	+ +	+	+	+	+	+	+	+	+	+
GC 6	+		+	+	+		+								+	+	+		+	+		+		+							+	+	+	+ +	-				+				
GC 7	+		+				+		+						+	+	+						+	+	+	+	+	+	+	+	+	+	+	+ +	+	+	+	+	+	+	+	+	+
GC 8		+		+	+	+																								+				+	-			+					
GC 9	+	+		+	+	+	+																							+				+	-			+					
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PC 9									+	+							+							+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+
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PART 5. MATRIX OF PROVIDING PROGRAM LEARNING OUTCOMES WITH RELEVANT COMPONENTS OF EPP 222 "MEDICINE"

<u> </u>																					J	EPP (code																					
PLO code	CC.01	CC.02	CC.03	CC.04	CC.05	CC.06	CC.07	CC.08	CC.09	CC.10	CC.11	CC.12	CC.13	CC.14	CC.15	CC.16	CC.17	CC.18	CC.19	CC.20	CC.21	CC.22	CC:23	CC.24	CC.25	CC.26	CC.27	CC.28	CC.29	0 C :30	CC.31	CC.32	CC.33	CC.34	CC.35	9E'33	CC.37	CC.38	CC.39	CC.40	PP.41	PP.42	PP.43	PP44
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PLO 7																		+				+		+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+			+	+
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6. REFERENCES

- 1. Закон України «Про вищу освіту» 01.07.2014 № 1556-VII (Редакція від 09.08.2019) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/1556-18.
- 2. Закон України «Про освіту» 01.07.2014 № 2145-VIII (Редакція від 09.08.2019) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/2145-19.
- 3. Закон України «Про ліцензування видів господарської діяльності» 02.03.2015 № 222- VIII (Редакція від 21.10.2019) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/222-19.
 - 4. Постанова КМ України від 29.04.2015 № 266 «Про затвердження переліку галузей знань і спеціальностей, за якими здійснюється підготовка здобувачів вищої освіти» (Редакція від 11.10.2017) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/266-2015-% D0% BF.
 - 5. Постанова КМ України від 30.12.2015 № 1187 «Про затвердження Ліцензійних умов провадження освітньої діяльності закладів освіти» (Редакція від 23.05.2018) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/1187-2015-%D0%BF.
 - 6. Постанова КМ України від 23 березня 2016 р. № 261 «Про затвердження порядку підготовки здобувачів вищої освіти ступеня дССтора філософії та дССтора наук у вищих навчальних закладах (наукових установах)» (Редакція від 19.04.2019) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/261-2016-%D0%BF.
 - 7. Стандарт вищоїосвіти другого (магістерського) рівня вищої освіти галузі знань 22 «Охорона здоров'я» зі спеціальності «Медицина» (затверджений Наказом Міністерства освіта і науки України № 1197 від 08.11.20221 р.)
- 8. Постанова КМ України від 23 листопада № 1341 «Про затвердження Національної рамки кваліфікацій» (Із змінами, внесеними згідно з Постановою КМ № 509 від 12.06.2019) [Електронний ресурс] // Режим доступу: http://zakon4.rada.gov.ua/laws/show/1341-2011-п.
- 9. Національний класифікатор України: Класифікатор професій ДК 003:2010 (затверджено та надано чинності наказом Держспоживстандарту України 28.07.2010 № 327, редакція від 15.02.2019) [Електронний ресурс] // Режим доступу : https://zakon.rada.gov.ua/rada/show/va327609-10.
 - 10. Наказ МОН України від 19.02.2015 №166 «Деякі питання оприлюднення інформації про діяльність вищих навчальних закладів» (Із змінами,

внесеними згідно з Наказом МОН № 340 від 23.05.2015) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/rada/show/v0166729-15.

- 11. Наказ МОН України від 06.11.2015 № 1151 «Про особливості запровадження переліку галузей знань, за якими здійснюється підготовка здобувачів вищої освіти, затвердженого постановою Кабінету Міністрів України від 29 квітня 2015 рССу № 266» (Із змінами, внесеними згідно з Наказом МОН № 419 від 12.04.2016) [Електронний ресурс] // Режим доступу: https://zakon.rada.gov.ua/laws/show/z1460-15.
- 12. Наказ МОН України від 01.06.2016 № 600 «Про затвердження та введення в дію Методичних рекомендацій щодо розроблення стандартів вищої освіти» [Електронний ресурс] // Режим доступу: https://mon.gov.ua/ua/npa/provnesennya-zmin-do-nakazu-ministerstva-osviti-i-nauki-vid-01062016-600.
- 13. Наказ МОН України від 21.12.2017 № 1648 «Про внесення змін до наказу

МОН від 01.06.2016 № 600» [Електронний ресурс] // Режим доступу: https://mon.gov.ua/ua/npa/pro-vnesennya-zmin-do-nakazu-ministerstva-osviti-inauki-vid-01062016-600.

14.Best Practices for PhD Training — ORPHEUS/AMSE — 2016[Електроннийресурс]//Режимдоступу:http://orpheusmed.org/images/stories/documents/Best%20practices_ukr.pdf.

List 1 (syndromes and symptoms)

1. amenorrhea

- 2. anemic syndrome
- 3. anuria and oliguria
- 4. arterial hypertension
- 5. arterial hypotension
- 6. chest pain
- 7. abdominal pain
- 8. pain in the limbs and back
- 9. pain in the perineum
- 10. sore throat
- 11. vomiting
- 12. broncho-obstructive syndrome
- 13. bulbar syndrome
- 14. effusion in the pleural cavity
- 15. hallucinatory-paranoid syndrome
- 16. fever
- 17. hemorrhagic syndrome
- 18. hepatomegaly and hepatolienal syndrome
- 19. hyperemia
- 20. headache
- 21. dysuria
- 22. dysmenorrhea
- 23. dyspepsia
- 24. dysphagia
- 25. diarrhea
- 26. exanthema, enanthema
- 27. jaundice
- 28. shortness of breath
- 29. asphyxia
- 30. fasten
- 31. dizziness
- 32. cardiomegaly
- 33. cough
- 34. intestinal obstruction
- 35. hemoptysis
- 36. lymphadenopathy
- 37. meningeal syndrome
- 38. uterine bleeding
- 39. ground
- 40. edematous syndrome
- 41. paresis, paralysis
- 42. polyuria
- 43. portal hypertension
- 44. speech disorder (aphasia)
- 45. heart rhythm and conduction disturbances
- 46. disorders of consciousness
- 47. skin itching
- 48. urinary syndrome
- 49. dementia syndrome
- 50. dehydration syndrome
- 51. indigestion syndrome
- 52. stridor

- 53. joint syndrome
- 54. convulsions
- 55. weight loss
- 56. cyanosis
- 57. partial or complete loss of vision
- 58. partial or complete hearing loss
- 59. gastrointestinal bleeding
- 60. fluctuation

List 2 (diseases)

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

- 1. anemia
- 2. hemolytic disease of newborns
- 3. hemophilia
- 4. leukemia
- 5. lymphomas
- 6. Congenital (Bruton's disease, Wiskott-Aldridge syndrome) and acquired immunodeficiency states
- 7. sepsis of newborns
- 8. surgical sepsis
- 9. idiopathic thrombocytopenic purpura
- 10. chronic radiation damageСписСС 2 (захворювання)

II) Mental and behavioral disorders:

- 11. bipolar affective disorder
- 12. acute psychosis, etc. 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. Violation of the autonomic nervous system
- 22. violation of cerebral circulation
- 23. Vertebrogenic diseases of the nervous system, neuropathy and polyneuropathy
- 24. multiple sclerosis
- 25. chronic occupational injuries (vibration disease, occupational dyskinesias)

Eye diseases

- 26. blepharitis
- 27. acute attack of glaucoma
- 28. conjunctivitis
- 29. foreign body of the eye
- 30. eye injuries
- 31. retinopathy

Diseases of the throat, ears, nose

- 32. laryngitis
- 33. swell up
- 34. paratonsillar abscess
- 35. sinusitis
- 36. tonsillitis

IV) Diseases of the cardiovascular system:

- 37. aortic aneurysms
- 38. atherosclerosis
- 39. varicose veins of the lower extremities
- 40. congenital heart defects
- 41. secondary arterial hypertension
- 42. acute occlusion of main and peripheral arteries;
- 43. endocarditis
- 44. essential and secondary arterial hypertension
- 45. ischemic heart disease
- 46. Cardites
- 47. cardiomyopathy
- 48. pulmonary heart
- 49. acquired heart defects
- 50. obliterating endarteritis
- 51. pericarditis
- 52. heart rhythm and conduction disturbances
- 53. heart failure
- 54. injuries of the heart and blood vessels
- 55. pulmonary embolism
- 56. phlebitis, thrombophlebitis

V) Diseases of respiratory organs and mediastinum:

- 57. asphyxia
- 58. bronchial asthma
- 59. bronchitis
- 60. bronchiectatic disease
- 61. bronchopulmonary dysplasia
- 62. congenital malformations of respiratory organs
- 63. respiratory failure
- 64. infectious and destructive lung diseases
- 65. pulmonary insufficiency
- 66. mediastinitis
- 67. cystic fibrosis
- 68. neoplasms of the lungs and mediastinum
- 69. pleurisy
- 70. pneumoconiosis
- 71. pneumonia
- 72. pneumothorax
- 73. respiratory distress syndrome and pneumonia of newborns
- 74. foreign body in the respiratory tract
- 75. chest injuries (superficial, open)
- 76. chronic obstructive pulmonary disease

VI) Diseases of digestive organs:

- 77. prolapse of the rectum
- 78. ulcer disease
- 79. congenital malformations of digestive organs
- 80. gastroesophageal reflux disease, esophagitis
- 81. gastritis, duodenitis
- 82. acute and chronic hepatitis
- 83. acute intestinal obstruction

- 84. acute and chronic appendicitis
- 85. acute and chronic pancreatitis
- 86. benign diseases of the esophagus
- 87. enteritis, colitis
- 88. inflammatory diseases of the rectum and perianal region
- 89. pinched and unpinched abdominal hernias
- 90. neoplasms of the esophagus, stomach, colon, liver and pancreas
- 91. peptic ulcers of the stomach and duodenum
- 92. peritonitis
- 93. perforation of a hollow organ
- 94. liver failure
- 95. malabsorption syndrome
- 96. stenosis of the pylorus hole
- 97. abdominal injuries (superficial, open)
- 98. functional gastrointestinal disorders
- 99. diseases of the operated stomach
- 100. cholecystitis, cholangitis, gallstone disease, choledocholithiasis
- 101. liver cirrhosis
- 102. gastric-intestinal bleeding

VII) Diseases of the genitourinary system:

- 103. amyloidosis of the kidneys
- 104. balanitis, balanoposthitis
- 105. congenital malformations of the urinary system
- 106. glomerulonephritis
- 107. dysmetabolic nephropathy
- 108. nephrotic syndrome
- 109. neoplasms of the kidney, urinary tract and prostate gland
- 110. pyelonephritis
- 111. prostatitis
- 112. urolithiasis
- 113. tubulointerstitial nephritis
- 114. urethritis
- 115. chronic kidney disease
- 116. cystitis

VIII) Diseases of the skin and subcutaneous tissue:

- 117. allergic dermatoses (dermatitis, toxidermia, eczema)
- 118. abscess, phlegmon
- 119. bacterial diseases of the skin and subcutaneous tissue, pyoderma
- 120. purulent-inflammatory diseases of fingers and hands
- 121. purulent-inflammatory diseases in children and newborns
- 122. acute lymphangitis
- 123. carbuncle, furuncle
- 124. mycoses
- 125. burns and frostbite
- 126. parasitic skin diseases (scabies, lice)
- 127. psoriasis
- 128. bullous dermatoses
- 129. specific surgical infection (anaerobic clostridial and non-clostridial)

IX) Diseases of the musculoskeletal system and connective tissue:

130. ankylosing spondyloarthritis

- 131. congenital and acquired malformations of the musculoskeletal system
- 132. acute rheumatic fever
- 133. dermatomyositis tapolymyositis
- 134. Neoplasm of the musculoskeletal system
- 135. osteoarthritis
- 136. osteomyelitis
- 137. gout
- 138. polytrauma
- 139. reactive arthritis
- 140. rheumatoid arthritis
- 141. systemic scleroderma
- 142. systemic lupus erythematosus
- 143. systemic vasculitis (polyarteritis nodosa, hemorrhagic vasculitis, hypersensitivity vasculitis)
- 144. typical fractures of the bones of the shoulder, forearm, hand, hip, leg, foot
- 145. pelvis injury
- 146. spine injury
- 147. damage to large joints (hip, knee, shin foot, elbow)
- 148. chronic rheumatic disease
- 149. juvenile rheumatoid arthritis

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

- 150. acromegaly
- 151. hyperplasia of the thymus
- 152. hypothyroidism
- 153. hypotrophy, protein-energy deficiency
- 154. pituitary dwarfism
- 155. diffuse toxic goiter
- 156. iodine deficiency diseases of the thyroid gland
- 157. diabetes insipidus
- 158. neoplasm of the thyroid gland
- 159. obesity
- 160. congenital dysfunction of the adrenal cortex
- 161. rickets, spasmophilia,
- 162. hereditary metabolic diseases (phenylketonuria)
- 163. hereditary chromosomal disorders (Down's disease, Shereshevsky-Turner syndrome)
- 164. thyroiditis
- 165. thyrotoxicosis
- 166. Itsenko-Cushing's disease and syndrome
- 167. chronic adrenal insufficiency
- 168. diabetes mellitus

XI) Infectious and parasitic diseases:

- 169. bacterial food poisoning
- 170. rabies
- 171. botulism
- 172. viral hepatitis
- 173. chicken pox
- 174. congenital infections of the newborn
- 175. helminth infections
- 176. herpesvirus diseases
- 177. influenza and other acute respiratory viral infections
- 178. diphtheria
- 179. infectious mononucleosis

- 180. candidiasis
- 181. whooping cough
- 182. intestinal bacterial infections
- 183. intestinal viral infections
- 184. measles
- 185. tick-borne viral encephalitis
- 186. rubella
- 187. leptospirosis
- 188. malaria
- 189. meningococcal infection
- 190. especially dangerous viral infections
- 191. mumps infection
- 192. poliomyelitis
- 193. tetanus
- 194. protozoan infections
- 195. rickettsiosis
- 196. anthrax
- 197, rabies
- 198. scarlet fever
- 199. tuberculosis of various localization
- 200. Lyme disease
- 201. disease caused by the human immunodeficiency virus (HIV)
- 202. chlamydial infections
- 203. cholera
- 204. Plague infectious diseases transmitted mainly sexually:
- 205. gonococcal infection
- 206. syphilis

XII) Diseases of the female reproductive system, pathology of pregnancy:

- 207. multiple pregnancy
- 208. vomiting of pregnant women
- 209. pregnancy with extragenital pathology
- 210. fetal distress during pregnancy
- 211. fetal growth retardation
- 212. immune conflict during pregnancy
- 213. cyst drift
- 214. placenta previa
- 215. premature detachment of the placenta
- 216. premature birth and delayed pregnancy
- 217. ectopic pregnancy
- 218. preeclampsia and eclampsia
- 219. spontaneous abortion pathology of childbirth and the postpartum period:
- 220. anomalies of labor activity
- 221. abnormalities of the pelvis, including clinically narrow pelvis
- 222. fetal distress during childbirth
- 223. childbirth and postpartum bleeding
- 224. incorrect positions and presentation of the fetus
- 225. postpartum septic diseases
- 226. injuries of the uterus and birth canal, gynecological diseases:
- 227. abnormal uterine bleeding
- 228. ovarian apoplexy
- 229. infertility (fertility)
- 230. congenital malformations of female genital organs

- 231. benign dysplasia of the mammary glands
- 232. benign and precancerous neoplasms of female genital organs
- 233. endometriosis
- 234. inflammatory diseases of female genital organs
- 235. malignant neoplasms of female genital organs
- 236. mastitis
- 237. neuroendocrine syndromes
- 238. neoplasm of the mammary gland

List 3 (emergency conditions)

- 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 poisonous substances
- 10. acute psychosis
- 11. acute coronary syndrome
- 12. acute radiation and chemical damage, including in field conditions and emergency situations
- 13. acute cerebral insufficiency
- 14. electric injury
- 15. status epilepticus
- 16. acute bleeding
- 17. syndrome of acute blood loss, including in field conditions and emergency situations
- 18. cardiac arrest
- 19. collapse
- 20. impaired consciousness and comatose states
- 21. renal colic
- 22. biliary colic
- 23. acute anaphylactic reactions
- 24. acute heart rhythm disturbances,
- 25. cold injury, including in field conditions
- 26. thermal injury, including in field conditions
- 27. convulsive syndrome
- 28. drowning
- 29. strangulation asphyxia
- 30. normal childbirth
- 31. shocks
- 32. bites of snakes, insects, animals
- 33. penetrating wounds, including during hostilities
- 34. burns, including in field conditions
- 35. foreign bodies of the respiratory tract, gastrointestinal tract, ENT organs and the eye

List 4 (laboratory and instrumental studies)

- 1. pleural fluid analysis
- 2. analysis of ascitic fluid
- 3. analysis of synovial fluid
- 4. urine analysis according to Zimnytskyi
- 5. urine analysis according to Nechiporenko
- 6. alpha-amylase activity in blood and urine, fecal elastase1
- 7. blood proteins and their fractions, C reactive protein

- 8.blood glucose, glycosylated hemoglobin,
- 9. oral glucose tolerance test
- 10. blood lipids and lipoproteins and their fractions
- 11. blood hormones
- 12. serum ferritin, iron and copper
- 13. creatinine, blood and urine urea, glomerular filtration rate
- 14. blood electrolytes
- 15. blood aminotransferases
- 16. total blood bilirubin and its fractions
- 17. coagulogram
- 18. blood uric acid
- 19. blood alkaline phosphatase
- 20. histomorphological study of lymph node biopsy
- 21. histomorphological study of a biopsy of parenchymal organs
- 22. histomorphological study of biopsy of mucous membranes
- 23. histomorphological study of muscle and skin biopsy
- 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 breathing
- 26. standard ECG (in 12 leads)
- 27. endoscopic examination of bronchi
- 28. endoscopic examination of the digestive tract
- 29. echocardiography and dopplerography
- 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 puncture
- 35. general analysis of sputum
- 36. general immunological blood profile
- 37. serological reactions in infectious diseases
- 38. express tests for viral diseases
- 39. amplification methods for infectious diseases (PCR, LLR)
- 40. serological reactions in autoimmune diseases
- 41.chemical and bacteriological studies of the human environment (atmospheric air, water bodies, soil).
- 42. microbiological research of biological fluids and secretions
- 43. measurement of radiation (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 organs of the abdominal cavity
- 47. methods of instrumental visualization of chest cavity organs
- 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 visualization of the breast
- 51. tuberculin diagnostics
- 52. multi-moment fractional study of bile and pH-metry of the stomach and esophagus
- 53. chemical, organoleptic, bacteriological research of food products and drinking water
- 54. cytological examination of the cervix
- 55. measurement of ergonomic indicators of difficulty and intensity of work

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