

INTERNATIONAL EUROPEAN UNIVERSITY

EDUCATIONAL PROGRAM:

MEDICINE

Second (Master's) level

Specialty: 222 Medicine

Knowledge area: 22 Public health

Educational qualification: Master of Medicine

Approved by the Academic Council of
International European University
September 24, 2020
(protocol No. 9)

Head of the Academic Council of
International European University



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September 24, 2020

No. 48/1 – OD

INTRODUCTION

Medicine educational program is a legal document regulating statutory, competence-based, qualification, organizational, learning and methodical requirements for training students of the second (Master's) level of higher education, knowledge area: 22 Public health, specialty: 222 Medicine.

1. Approved by the decision of the Academic Council of International European University dated September 24, 2020, protocol No. 9.

2. Developed by the working group consisting of:

Head of the working group (guarantor of the educational program):

Serhii Kurilo, Doctor of Medical Sciences, professor at the Department of Internal Medicine and Occupational Diseases;

Members of the working group:

Olena Solyeyko, head of the Department of Internal Medicine and Occupational Diseases, Doctor of Medical Sciences, professor;

Valentyna Makhniuk, head of the Department of Social Medicine, Public Health, Hygiene and Ecology, Doctor of Medical Sciences;

Iryna Mohilevkina, Doctor of Medical Sciences, professor at the Department of Obstetrics and Gynecology.

Olena Diadyk, Doctor of Medical Sciences, professor, head of the Department of Physiology, Pathophysiology, Pathomorphology with a Course of Forensics.

Reviews and comments of external stakeholders:

1. Tetiana Znamenska, Doctor of Medical Sciences, professor, deputy director of perinatal medicine at the State Institution "Institute of Pediatrics, Obstetrics and Gynecology of NAMS of Ukraine".
2. Vasyl Lazoryshynets, corresponding member of the National Academy of Medical Sciences of Ukraine, Doctor of Medical Sciences, professor, honored doctor of Ukraine, director of Amosov National Institute of Cardiovascular Surgery.
3. Anatolii Hozhenko, Doctor of Medical Sciences, professor, Honored Scientist and Engineer of Ukraine, director of the Ukrainian Research Institute of Transport Medicine of the Ministry of Health of Ukraine.

The educational and professional program is developed according to the Law of Ukraine "On Higher Education" dd. July 1, 2014, No. 1556-VII, the Law of Ukraine "On Education" dd. September 5, 2017, No. 2145-VIII, the Resolution of the Cabinet of Ministers of Ukraine dd. December 30, 2015, No. 1187 "About approval of Licensed conditions of implementation of educational activities" (as amended by the Resolution of the Cabinet of Ministers of Ukraine dd. May 6, 2020, No. 347), the Resolution of the Cabinet of Ministers of Ukraine dd. November 23, 2011, No. 1341 "About approval of the National qualifications frameworks" (as amended by the Resolution of the Cabinet of Ministers of Ukraine dd. June 25, 2020, No. 519), the Order of the Ministry of Education and Science of Ukraine dd.

November 6, 2015, No. 1151 “On particularities of adopting the list of knowledge areas and specialties for training students approved by the Resolution of the Cabinet of Ministers of Ukraine dd. April 29, 2015, No. 266” (as amended), the Letter of the Ministry of Education and Science of Ukraine dd. April 28, 2017, No. 1/9-239 (an approximate pattern of the educational and professional program for the first (Bachelor’s) and second (Master’s) levels) and other statutory documents.

1. Profile of Medicine educational program in 222 Medicine specialty

1.1. General information	
Full name of the higher education institution and structural unit	Private Higher Education Institution “International European University”, Education and Research Institute “European Medical School”
Level of higher education	Second (Master’s)
Degree of higher education	Master
Educational qualification	Master of Medicine
Diploma qualification	Master’s Degree Diploma, single 360 ECTS credits, period of study: 5 years and 10 months
Knowledge area	22 Public health
Specialty	222 Medicine
Official name of the educational program	Medicine
Type of diploma and capacity of the educational program	Master’s Degree Diploma, single 360 ECTS credits
Mode of study	Full-time
Accreditation	Non-accredited
Cycle/level	National qualifications framework of Ukraine – 7 level, FQ-EHEA – second level, EQF-LLL – 7 level
Background	Complete general secondary education or educational qualification level / degree of junior specialist, junior

	Bachelor, Bachelor, specialist, Master
Language(s) of instruction	Ukrainian, English
Validity of the educational program	Until June 30, 2026 (with a possibility of annual update if necessary)
Internet address of constant placement of educational program description	Official website of International European University: https://ieu.edu.ua/navchannia/osvitni-prohramy/osvitni-prohramy-222-medytsyna-mahistr
1.2. Goal of the educational program	
To ensure training of skilled medical specialists able to organize and conduct professional activities at the high level, critically analyze healthcare issues and solve complicated tasks on their own throughout life in the public health sector in a corresponding position, to apply specialized conceptual knowledge and skills, which scope of application is stipulated by defined lists of syndromes and symptoms of diseases, physiological states and physical illnesses requiring a special technique of patient management, medical manipulations by adopting innovations and integrating to the European community.	
1.3. Characteristics of the educational program	
Subject area (knowledge area, specialty, specialization (if any))	Knowledge area: 22 Public health Specialty: 222 Medicine. It contains general, scientific (24.58%) and professional (50.42%) disciplines. Elective disciplines account for 25.0%.
Focus of the educational program	According to the Development Strategy for Medical Education in Ukraine approved by the Resolution of the Cabinet of Ministers of Ukraine No. 95-r, the educational program (EP) has an applied professional focus on modern development trends in the theory and practice of medicine.
Key focus of the educational program and specialization	Training of specialists for professional, organizational, management and scientific activities in the public health sector. Higher education of knowledge area: 22 Public health, specialty: 222 Medicine. <i>Key words:</i> doctor, medicine, public health.
Program features	Instruction in English and Ukrainian, in small groups, combining practical and theoretical training, aimed at contemporary knowledge and technologies in healthcare, focused on education continuity.
1.4. Graduates' ability to employment and further study	
Employability	A specialist trained for work according to the Ukrainian Industry Classification System (KVED DK 009-2010):

	Section Q. Public health and provision of social aid Chapter 86.1. Health facility operations. Group 86.10. Health facility operations. Class 86.21. General medical practice. Class 86.90. Other public health activities. Graduating from the Master's Medicine program, specialists are able to perform professional work: • internship doctor (OC code (occupational classification) – 3229); • junior doctor (OC code – 3221); • resident doctor (OC code – XXX).
Further study	Program graduates have the right to enter the postgraduate education program (internship, residency) aimed at training doctors of certain specialty due to educational programs. Continuation of study at the third (educational and scientific) level of higher education. Acquisition of additional qualifications in the postgraduate education system and self-education.
1.5. Teaching and assessment	
Teaching and learning	Lectures, consultations, classes (practical (seminars), laboratory work, individual work), practical training (on-the-job practice), control measures. Acquisition of skills in treatment, preventive measures, diagnostics of diseases and patient rehabilitation (clinical examination, analyses, laboratory, X-ray and functional methods) according to healthcare delivery protocols; management and organization of healthcare operations. Research activities. Competent, student-centered study, initiative self-study, problem-based learning.
Assessment	Assessment of student program learning outcomes is based on the ECTS system, 200-score and national assessment scale. One provides student assessment in all types of classes and extracurricular educational activities. Excellent, good, satisfactory and failure grades are put: according to the results of exams and grading tests, internship results. The pass grade is given according to test results. The pass result is put according to the outcome of the Unified State Qualification Exam (USQE): integrated test exam "Krok 1. General medicine", professional English exam, "Krok 2. General medicine", objective structured practical (clinical) exam, international exam in basic medicine. Detailed assessment methods are described in Provisions for educational process organization at International European University and published on the official website

	of the university.
1.6. Program competencies	
Integral competence (IC)	Ability to integrate knowledge and solve complicated specialized tasks in wide and multidisciplinary contexts of professional medical activities, practical problems in new or unconventional environments with incomplete or limited information, taking into account aspects of social and ethical responsibility in the healthcare sector.
General competencies (GC)	GC1. Ability to abstract thinking, analysis and synthesis. GC2. Ability to learn and acquire contemporary knowledge. GC3. Ability to apply knowledge in practical situations. GC4. Ability to know and understand the subject area and professional activities. GC5. Ability to adapt and act in a new situation. GC6. Ability to make reasonable decisions. GC7. Ability to work in a team. GC8. Interpersonal interaction skills. GC9. Ability to talk in a state language both orally and in written form. GC10. Ability to communicate in a foreign language both orally and in written form. GC11. Skills in applying information and communication technologies. GC12. Distinctness and insistence regarding set objectives and taken responsibilities. GC13. Ability to act in a socially conscious manner. GC14. Desire to protect the environment. GC15. Ability to act based on ethical considerations (motives).
Specialized (professional) competencies (PC)	PC1. Skills of questioning and clinical examination of patients. PC2. Ability to define the required list of laboratory and instrumental research and assessment of their results. PC3. Ability to determine a provisional and clinical diagnosis. PC4. Ability to define necessary terms of employment and leisure while treating diseases. PC5. Ability to determine the character of nutrition while treating diseases. PC6. Ability to define the principles and character of disease treatment. PC7. Ability to diagnose emergencies. PC8. Ability to determine techniques of providing emergency medical aid. PC9. Skills in providing emergency medical aid.

	PC10. Ability to take treatment and evacuation measures. PC11. Skills in conducting medical manipulations. PC12. Ability to define techniques of keeping physiological pregnancy, physiological birth and a postnatal period. Skills in consulting about family planning issues and choosing contraceptive methods. PC13. Ability to take sanitary and hygienic and preventive measures. PC14. Ability to plan and take preventive and anti-epidemic measures against infectious diseases. PC15. Ability to define the technique of following individuals subject to regular medical checkup. PC16. Ability to conduct the working capacity examination. PC17. Ability to keep medical documents. PC18. Ability to carry out anti-epidemic and medical statistical research of public health; processing of state, social, economic and medical information; PC19. Ability to assess the impact of the environment, social and economic and biological determinants on the state of health of individuals, family and population. PC20. Ability to analyze activities of doctors, department, healthcare facility, take measures for ensuring the quality of medical aid and improving the efficiency of medical resources application. PC21. Ability to carry out measures for organizing and integrating medical aid delivery to people and promote medical services. PC22. Ability to interpret biochemical, laboratory and functional examination results, understanding the interrelation between them as an integral part for defining a final clinical diagnosis. PC22. Ability to draw up a plan of medical and preventive measures against pathogenesis of noninfectious diseases, acute exacerbation of chronic diseases in remission.
1.7. Program learning outcomes	
Program learning outcomes (PLO)	PLO1. To collect data on patients' complaints, medical history, life history. PLO2. To assess information about a diagnosis, applying the standard procedure based on the results of laboratory and instrumental research (according to list 4). PLO3. To distinguish a principal clinical symptom or syndrome (according to list 1). Define the most probable or syndromic diagnosis (according to list 2). Prescribe the laboratory and/or instrumental examination of patients (according to list 4). To carry out the differential

diagnostics of diseases (according to list 2). To define a provisional clinical diagnosis (according to list 2).

PLO4. To define necessary terms of employment and leisure while treating diseases (according to list 2).

PLO5. To determine the character of nutrition while treating diseases (according to list 2).

PLO6. To define the principles and character of disease treatment (conservative, operative) (according to list 2).

PLO7. To define a diagnosis (according to list 3).

PLO8. To determine the technique of providing emergency medical aid based on the emergency diagnosis (according to list 3).

PLO9. To provide emergency medical aid based on the emergency diagnosis (according to list 3).

PLO10. To organize the holding of treatment and evacuation measures among inhabitants and military personnel, taking into account the current treatment and evacuation system.

PLO11. To define the technique of maintaining physiological birth and a postnatal period.

PLO12. To form clinic groups of patients among the established population segment; groups of healthy people subject to regular medical checkup. To implement the system of anti-epidemic and preventive measures as part of primary medical and sanitary aid for the population. To organize the holding of secondary and tertiary preventive measures among the established population segment.

PLO13. To plan measures against the spread of infectious diseases (according to list 2). To conduct detection and early diagnostics of infectious diseases (according to list 2); primary anti-epidemic measures within the focus of an infectious disease.

PLO14. To define a source and/or a place of necessary information depending on its type; to obtain required information from a defined source; to process and analyze obtained information.

PLO15. To determine the availability and level of life activity limitations, the type and duration of inability to work with preparation of corresponding documents.

PLO16. To prepare an annual report on your own production activities; to keep medical documents on patients and the population segment in a state language.

PLO17. To carry out screening in order to detect crucial noninfectious diseases; to assess the incidence rate; to detect risk factors of disease emergence and progression; to form population risk groups.

PLO18. To define negative environmental factors; to analyze health of a particular segment; to define the relation between the environmental state and health of a certain segment; to develop preventive measures based on data about the relation between the environmental state and health of a certain segment. To assess the impact of social and economic and biological determinants on health of individuals, family, population.

PLO19. To investigate the capacity and performance of activities of doctors, department, healthcare facility; to detect activity defects and their reasons. To select and use unified clinical protocols of providing medical aid, which are developed based on evidence-based medicine; to develop and use local protocols of providing medical aid. To control the quality of medical service; to define factors preventing the improvement of medical aid quality and safety. To assess the net cost of medical services; to explain the choice of an adequate financial method (payment) and the choice of rational forms of medical aid delivery organization. To apply economic analysis methods when choosing methods of diagnostics, prevention, treatment and rehabilitation.

PLO20. To organize medical staff operations; to develop rational medical routes of patients; to organize the interaction among colleagues, organizations and institutions; to apply tools for promoting medical services.

PLO21. To set goals and define the structure of personal activities. To be able to make reasonable decisions, choose ways and strategies of communication to ensure efficient team work. To bear responsibility for the choice and technique of communication.

PLO22. To assess a newborn child according to existing algorithms and standard schemes, complying with the corresponding ethical and legal norms.

PLO23. To realize and rely on civil rights, freedoms and obligations in your professional activities; to enhance the general educational and cultural level.

PLO24. To comply with ethics, bioethics and deontology requirements in your professional activities.

PLO25. To organize the required level of individual safety (your own and persons you care for) in case of common dangerous situations occurring in the individual activity area.

PLO26. To carry out medical manipulations (according to list 5).

PLO27. To assess the efficiency of treatment of patients

	with infectious and noninfectious diseases using laboratory and diagnostic and functional studies. PLO28. To draw up an algorithm of biochemical, labor and diagnostic and functional states of organs and systems, depending on the state and stage of disorder.
1.8. Resource support of program implementation	
Staff assistance	Academic staff members engaged in the implementation of the training component of the educational program have a corresponding qualification, an academic degree or academic title, as well as a verified level of scientific and professional activity.
Material and technical support	International European University has premises for classes and control measures. All classrooms are fitted with multimedia equipment. Academic disciplines required to fulfil educational programs are provided with corresponding clinical bases, computer workplaces, laboratories, equipment: anatomic tables, interactive dashboards, medical equipment, breadboard models. Simulation training medical equipment is used to exercise practical skills. Training facilities of the Education and Research Institute “European Medical School” allow organizing and holding classes in all disciplines at the appropriate level using cutting-edge diagnostic, treatment devices and tools for professional activities. The university has a well-developed social infrastructure: - library; - reading rooms; - canteen; - assembly halls; - stadium, gym and playgrounds, tennis court; Students are comprehensively provided with the dormitory.
Teaching and learning materials	Teaching and learning materials of the educational program of 222 Medicine specialty correspond to licensing requirements, have relevant and informative content. The university has funds of necessary specialized publications and educational literature in Ukrainian and English, the list of which is annually expanded and updated, as well as access to electronic periodicals in the context of university’s e-library functioning. The list of the above-mentioned can be found in the e-catalog of the library. All reading rooms provide free access to the Internet and are equipped with computers, printers, scanners, xeroxes, blogging kits, web cameras, projectors, TVs, W-Fi access points. The university’s library has access to online specialized periodicals via the State Scientific and Technical Library of Ukraine (Kyiv) – https://dntb.gov.ua/.

	Students are provided with training materials in all disciplines. The official website of International European University (https://ieu.edu.ua/) contains primary information about its activities (structure, licenses and accreditation certificates, educational/research and academic/ publishing activities, samples of educational documents, training and scientific structural units and their members, list of academic disciplines, admission rules, contacts, etc.).
1.9. Academic mobility	
National credit mobility	National mobility is based on the Law of Ukraine “On higher education”.
International credit mobility	International mobility and crediting of international mobility results are based on the Law of Ukraine “On higher education” and agreements between the university and higher education institutions, as well as medical facilities of other countries.
Training of foreign students	Training of foreign students is conducted according to legislative requirements within the licensed volume.

2. List of components of the educational and professional program and their logical sequence

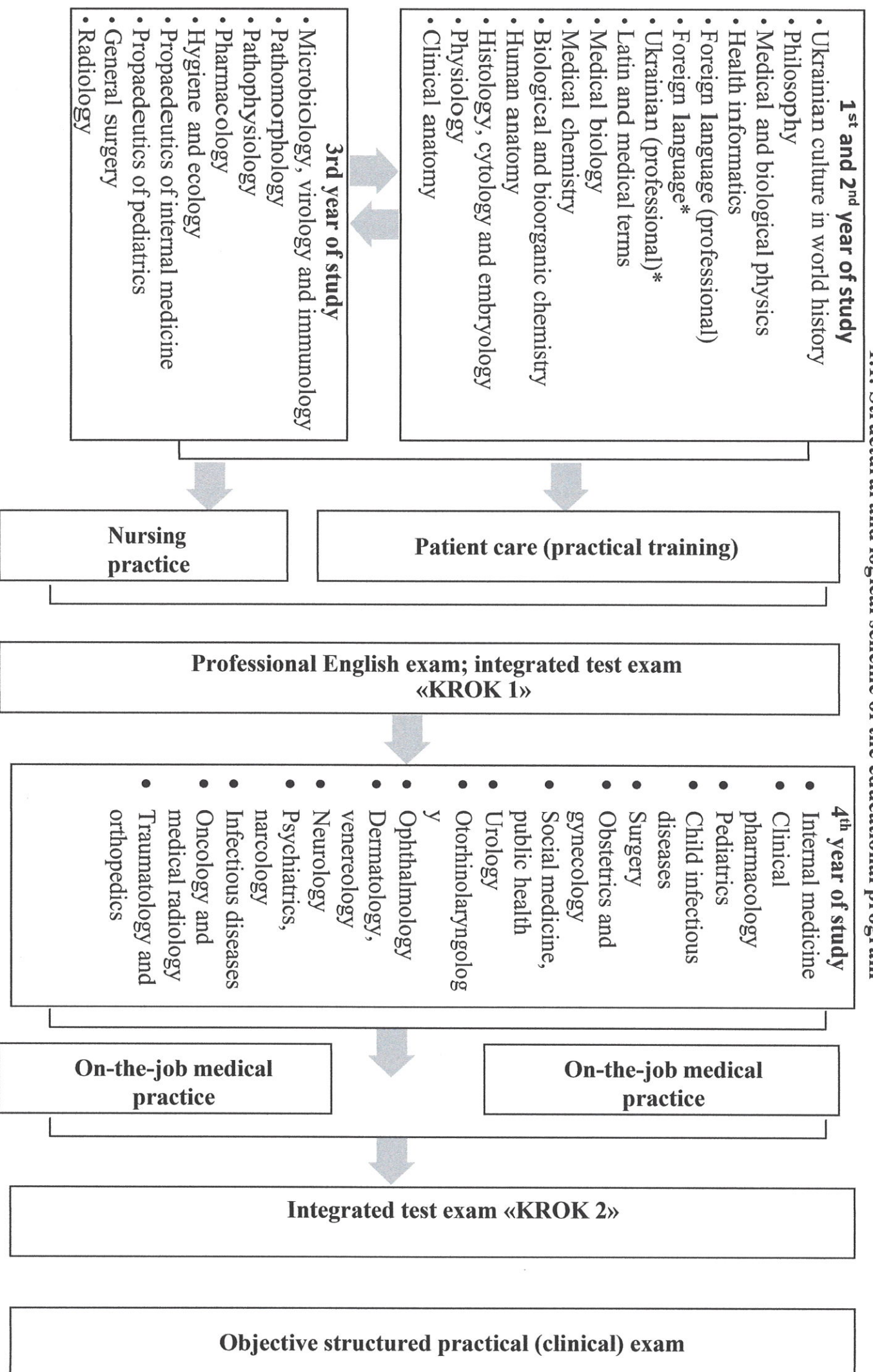
2.1. List of components of the educational program

Discipline code	Components of the educational program (academic discipline, practical training)	Amount of credits	Form of final control
Obligatory components of the educational program			
General training			
OC1	Ukrainian culture in world history	3	Test
OC 2	Philosophy, ethics, deontology	3	Test
OC 3	Medical and biological physics	4	Grading test
OC 4	Medical informatics	3	Test
OC 5	English (professional)	9	Exam
OC6	Ukrainian (professional) *	3	Exam
OC7	Latin and medical terms	3	Grading test
OC8	Medical biology	5	Exam
OC9	Medical chemistry	3	Grading test
OC10	Biological and bioorganic chemistry	8	Exam
OC11	Human anatomy	12	Exam
OC12	Histology, cytology and embryology	9	Exam
OC13	Physiology	10	Exam
OC14	Microbiology, virology and immunology	9	Exam
Total for general training		84 (23,5 %)	
Professional training			
OC15	Pathomorphology	6	Exam
OC16	Pathophysiology	6	Exam
OC17	Pharmacology	6	Exam
OC18	Hygiene and ecology	9	Exam
OC19	Propaedeutics of internal medicine	6	Exam
OC20	Propaedeutics of pediatrics	6	Exam
OC21	General surgery	3	Exam
OC22	Radiology	3	Grading test
OC23	Internal medicine	21	Exam
OC25	Clinical pharmacology	4	Grading test
OC25	Pediatrics	11	Exam
OC26	Child infectious diseases	3	Test
OC27	Surgery	12	Exam
OC28	Obstetrics and gynecology	9	Exam
OC29	Social medicine, public health management and economy	11	Exam

OC30	Urology	3	Grading test
OC31	Otorhinolaryngology	3	Grading test
OC32	Ophthalmology	3	Grading test
OC33	Dermatology, venereology	3	Grading test
OC34	Neurology	3	Grading test
OC35	Psychiatrics, narcology	3	Grading test
OC36	Infectious diseases	4	Exam
OC37	Oncology and medical radiology	3	Grading test
OC38	Traumatology and orthopedics	3	Grading test
OC39	Phthisis	3	Grading test
OC40	Anaesthesiology and intensive care	3	Grading test
OC41	Urgent and emergency medical care	3	Grading test
OC42	Patient care (practical training)	4	Grading test
OC43	Nursing practice	3	Grading test
OC44	On-the-job medical practice	4	Grading test
OC45	On-the-job medical practice	4	Grading test
OC46	Clinical biochemistry	3	Grading test
OC47	Clinical microbiology	3	Grading test
OC48	Clinical pathophysiology	3	Grading test
OC49	Clinical laboratory diagnostics	3	Grading test
OC50	Medical law	3	Test
OC51	General practice – family medicine	3	Grading test
Total for professional training		186 (51,5 %)	
General amount of obligatory components		270 (75,0 %)	
Elective components of the educational program – 90 credits (25,0 %)			
Total capacity of the educational program		360 (100 %)	

* - for foreign citizens, Ukrainian (professional) and foreign language – Ukrainian as a foreign language

1.1. Structural and logical scheme of the educational program



2. Form of student assessment

Assessment of students in 22 Public health knowledge area, 222 Medicine specialty, is conducted in the form of the Unified State Qualification Exam (USQE) according to the Resolution of the Cabinet of Ministers of Ukraine dated March 28, 2018, No. 334 “On approval of the procedure for the implementation of the unified state qualification exam for graduates of higher education Master’s degree in knowledge area 22 Public health as amended by the Resolution of the Cabinet of Ministers of Ukraine dated April 3, 2019, No. 308, Provisions for the system of licensed integrated exams approved by the order of the Ministry of Healthcare of Ukraine dated August 14, 1998, No. 251. USQE is a complex assessment of specialized knowledge of students in 222 Medicine specialty, consisting of two stages: the first one (in the third year) – an integrated test exam “Krok 1. General medicine” and professional English exam, the second one (in the sixth year) – an integrated test exam “Krok 2. General medicine”, an international exam in basic medicine (clinical disciplines) and objective structured practical (clinical) exam (OSPE).

All exams, except for OSPE, are carried out by the State Organization “Testing Board for Professional Competence Assessment of Higher Education Trainees in Medicine and Pharmacy at the Ministry of Health of Ukraine”. OSPE is carried out at the premises of Private Higher Education Institution “International European University”. “Krok 1. General medicine” and a professional English exam cover the content of fundamental disciplines and are passed after complete accomplishment of the 3rd year’s curriculum. “Krok 2. General medicine” and an international exam in basic medicine cover the content of clinical disciplines and are passed after complete accomplishment of the curriculum in the 222 Medicine EP in the 6th year. OSPE assesses acquisition of general and special competencies in conditions closest to professional activities.

Assessment is conducted transparently and publicly.

3. Requirements for the system of internal higher education quality assurance

International European University has the system of internal higher education quality assurance (Internal quality assurance system) that includes the following procedures and measures:

- definition of principles and procedures of higher education quality assurance;
- monitoring and periodical review of educational programs;

- annual assessment of students, academic and teaching staff of the University and regular announcement of the assessment results on the official website of the University, information stands or in any other way;
- advanced training for teaching, scientific and academic staff;
- availability of resources required to organize the educational process, including individual work of students due to each educational program;
- availability of information systems for efficient management of the educational process;
- publicity of information about educational programs, higher education degrees and qualifications;
- compliance with academic integrity among University personnel and students, including creation and functioning of the efficient system for preventing and detecting academic plagiarism;
- other procedures and measures.

The system of internal higher education quality assurance (Internal quality assurance system) is assessed as requested by the University by the National Agency for Higher Education Quality Assurance (NAQA) or independent institutions of higher education quality assessment and assurance accredited by NAQA for its compliance with the requirements of the higher education quality assurance system approved by NAQA, international standards and recommendations for higher education quality assurance.

[illegible]

5. Matrix of providing program learning outcomes (PLO) with obligatory components of the educational program

[illegible]

[illegible]

List of EP sources

1. Law of Ukraine “On Higher Education”.
2. Law of Ukraine “On Education”.
3. Resolution of the Cabinet of Ministers of Ukraine dd. April 29, 2015, No.266 “On approval of the list of branches of knowledge and specialties on which the training of applicants for higher education is carried out”.
4. Resolution of the Cabinet of Ministers of Ukraine dd. March 28, 2018, No. 334 “On approval of the Procedure for the implementation of the unified state qualification exam for graduates of higher education Master’s degree in knowledge area 22 Public health as amended by the Resolution of the Cabinet of Ministers of Ukraine dd. April 3, 2019, No. 308 “On introduction of amendments to the Procedure for the implementation of the unified state qualification exam for graduates of higher education Master’s degree in knowledge area 22 Public health”.
5. Resolution of the Cabinet of Ministers of Ukraine dd. November 23, 2011, No. 1341 “About approval of the National qualifications frameworks”.
6. Resolution of the Cabinet of Ministers of Ukraine dd. March 28, 2018, No. 302 “On approval of Provisions for the system of continuous professional development of healthcare specialists”.
7. National Classifier of Ukraine: Classifier of professions DK 003:2010 approved by the Order of the State Committee of Ukraine for Technical Regulation and Consumer Policy dd. July 28, 2010, No. 327.
8. Resolution of the Cabinet of Ministers of Ukraine “About approval of the National qualifications frameworks” (as amended by Resolutions of the Cabinet of Ministers of Ukraine No. 509 dd. June 12, 2019, and No. 519 dd. June 25, 2020).
9. Methodical recommendations for developing higher education standards approved by the Order of the Ministry of Education and Science of Ukraine dd. June 1, 2016, No. 600 (as amended).
10. Decree of the President of Ukraine “Issues of European and Euro-Atlantic integration” dd. April 20, 2019, No. 155/2019.
11. Order of the Ministry of Education and Science of Ukraine dd. April 30, 2020, No. 584 “On introduction of amendments to methodical recommendations for developing higher education standards”.
12. Decree of the Cabinet of Ministers of Ukraine dd. February 27, 2019, No. 95 r “On approval of the Development strategy of medical education in Ukraine”.
<https://zakon.rada.gov.ua/go/95-2019-%D1%80>.
13. Order of the Ministry of Healthcare of Ukraine dd. October 28, 2012, No. 385 “List of medical positions at healthcare facilities”.
<https://zakon.rada.gov.ua/laws/show/z0892-02#Text>.

Annexes

List 1 (syndromes and symptoms)

1. Amenorrhea;
2. Anemia syndrome;
3. Anuria and oliguria;
4. Arterial hypertension;
5. Arterial hypotension;
6. Chest pain;
7. Stomach pain;
8. Extremities and back pain;
9. Perineum pain;
10. Sore throat;
11. Vomiting;
12. Broncho-obstructive syndrome;
13. Bulbar syndrome;
14. Exudate in pleural cavity;
15. Paranoid hallucinatory syndrome;
16. Fever;
17. Hemorrhagic syndrome;
18. Rash, enanthem;
19. Hepatomegaly and Banti's syndrome;
20. Headache;
21. Dysuria;
22. Dysmenorrhea;
23. Dyspepsia;
24. Dysphagia;
25. Diarrhea;
26. Yellow sickness;
27. Breathlessness;
28. Asphyxia;
29. Opstipation;
30. Faintness;
31. Cardiomegaly;
32. Cough;
33. Intestinal blockage;
34. Blood expectoration;
35. Lymphadenopathy;
36. Meningeal syndrome;
37. Uterine hemorrhage;
38. Edema syndrome;
39. Paresis, paralyses;
40. Polyuria;
41. Portal hypertension;

42. Speech disorder (aphasia);
43. Heart rhythm disorder and cardiac conduction disease;
44. Disorders of consciousness;
45. Skin itch;
46. Urinary syndrome;
47. Dementia syndrome;
48. Hypohydration syndrome;
49. Maldigestion syndrome;
50. Stridor;
51. Articular syndrome;
52. Convulsions;
53. Weight loss
54. Cyanosis;
55. Partial or complete loss of vision;
56. Partial or complete hearing loss;
57. Gastrointestinal hemorrhage.

List 2 (diseases)

I) Blood and hemopoietic organ disorders involving the immune mechanism.

1. Anemia
2. Hemolytic disease of newborns
3. Hemophilia
4. Leukemia
5. Lymphoma
6. Congenital (Bruton Disease, Wiskott-Aldrich syndrome) and acquired immunodeficiency disorders
7. Neonatal sepsis
8. Surgical sepsis
9. Idiopathic thrombocytopenic purpura
10. Chronic radiation injuries

II) Mental and behavior disorders:

11. Bipolar disorder
12. Acute psychosis, including delirium tremens
13. Sacred disease
14. Neurotic disorders
15. Personality disorders
16. Schizophrenia

III) Nervous system diseases

17. Intracranial injury
18. Meningitis, encephalitis
19. Bilious headache and other types of headache
20. Perinatal encephalopathy
21. Vegetative nervous system disorders

22. Cerebrovascular diseases

23. Vertebrogenic nervous disorders, neuropathy and polyneuropathy

24. Disseminated sclerosis

25. Chronic occupational illnesses (vibration disease, professional dyskinesia)

Eye diseases

26. Blepharitis

27. Acute attack of glaucoma

28. Conjunctivitis

29. Intraocular foreign body

30. Eye traumas

31. Retinopathies

Ear, nose, throat diseases

32. Laryngitis

33. Otitis

34. Peritonsillar abscess

35. Sinusitis

36. Tonsillitis

IV) Heart diseases:

37. Aortic aneurysms

38. Atherosclerosis

39. Varicosity of lower extremities

40. Congenital heart diseases

41. Secondary arterial hypertension

42. Acute occlusion of magistral and peripheral arteries

43. Endocarditis

44. Essential and secondary arterial hypertension

45. Coronary heart disease

46. Carditis

47. Cardiomyopathy

48. Pulmonary heart

49. Acquired valvular disease

50. Obliterating endarteritis

51. Pericarditis

52. Heart rhythm and conduction disorders

53. Cardiac decompensation

54. Heart and blood vessel injuries

55. Pulmonary artery thromboembolia

56. Phlebitis, thrombophlebitis

V) Respiratory and mediastinal organs diseases:

57. Asphyxia

58. Bronchial asthma

59. Bronchitis

60. Bronchiectatic disease
61. Bronchopulmonary dysplasia
62. Congenital malformation of respiratory organs
63. Breathlessness
64. Infectious and destructive pulmonary diseases
65. Pulmonary insufficiency
66. Mediastinitis
67. Mucoviscidosis
68. Lung and mediastinal neoplasms
69. Pleuritis
70. Pneumonoconiosis
71. Pneumonitis
72. Pneumothorax
73. Respiratory distress syndrome and pneumonia of newborns
74. Foreign body in respiratory passages
75. Chest injury (superficial, open)
76. Chronic obstructive pulmonary disease

VI) Diseases of the digestive system:

77. Proctoptosis
78. Ulcer disease
79. Congenital malformation 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 esophagus diseases
87. Enteritis, colitis
88. Inflammatory disorders of straight intestine and periproctic area
89. Constricted and nonincarcerated abdominal hernias.
90. Neoplasms of esophagus, stomach, large intestine, liver and pancreata
91. Peptic ulcers
92. Peritonitis
93. Hollow viscus perforation
94. Liver decompensation
95. Malabsorption syndrome
96. Pyloric stenosis
97. Intraabdominal injuries (superficial, open)
98. Functional gastrointestinal disorders
99. Postgastrectomy dumping syndromes
100. Cholecystitis, cholangitis, cholelithiasis, choledocholithiasis
101. Hepatic cirrhosis

102. Gastrointestinal hemorrhage

VII) Diseases of the genitourinary system:

103. Lardaceous kidney

104. Balanitis, balanoposthitis

105. Congenital malformation of urinary organs

106. Glomerulonephritis

107. Dysmetabolic nephropathy

108. Nephrotic syndrome

109. Neoplasms of kidneys, urinary tract and prostatic gland

110. Pyelonephritis

111. Prostatitis

112. Urinary stone disease

113. Tubulo-interstitial nephritis

114. Urethritis

115. Chronic kidney disease

116. Cystitis

VIII) Diseases of the skin and subcutaneous tissue:

117. Allergodermatosis (dermatitis, toxidermia, eczema)

118. Bacterial skin and hypoderm diseases, pyodermas

119. Pyoinflammatory finger and hand diseases

120. Pyoinflammatory diseases of children and newborns

121. Mycoses

122. Burns and cold injuries

123. Parasitic skin diseases (crust, pediculosis)

124. Psoriasis

125. Cystic dermatoses

126. Specific surgical infection (anaerobic clostridial and non-clostridial)

IX) Diseases of the musculoskeletal system and connective tissue:

127. Rhizomelic spondylitis

128. Congenital and acquired malformation of the musculoskeletal system

129. Acute rheumatic fever

130. Dermatomyositis and polymyositis

131. Neoplasms of the musculoskeletal system

132. Osteoarthritis

133. Osteomyelitis

134. Uratic arthritis

135. Polytrauma

136. Reactive arthritis

137. Rheumatoid arthritis

138. Diffuse scleroderma

139. Systemic lupus erythematosus

140. Widespread vasculitis (periarteritis nodosa, hemorrhagic vasculitis, necrotising leucocytic vasculitis)

141. Selected fractures of shoulder bones, forearms, hands, hips, lower legs, feet
142. Hip bone injury
143. Spine injury
144. Major joint injuries (coxal, knee, ankle, elbow)
145. Chronic rheumatic disease
146. Juvenile rheumatoid arthritis

X) Diseases of the endocrine system, nutrition and endocrine disorders:

147. Acromegalia
148. T-cell hyperplasia
149. Hypothyreosis
150. Hypotrophy, protein-calorie deficiency
151. Pituitary dwarfism
152. Diffuse toxic goiter
153. Iodine deficiency disorder of the thyroid gland
154. Diabetes insipidus
155. Thyroid neoplasms
156. Obesity
157. Congenital adrenal hyperplasia
158. Rachitis, spasmophilia
159. Hereditary metabolism diseases (phenylketonuria)
160. Genetic chromosome breakages (Down's syndrome, Turner syndrome)
161. Thyroadenitis
162. Thyrotoxicosis
163. Itsenko-Cushing disease and syndrome
164. Chronic adrenal insufficiency
165. Diabetes mellitus

XI) Infectious and parasitic diseases:

166. Bacterial food poisoning
167. Erysipelas
168. Botulism
169. Viral hepatitis
170. Chickenpox
171. Congenital infections of newborns
172. Helminthoses
173. Herpes virus diseases
174. Influenza and other acute respiratory viral infections
175. Diphtheria
176. Infectious mononucleosis
177. Candidosis
178. Pertussis
179. Intestinal bacterial infections

180. Intestinal viral infections
181. Morbilli
182. Tick-borne encephalitis
183. Roetheln
184. Leptospirosis
185. Malaria
186. Meningococcal disease
187. Especially dangerous viral infections
188. Parotitic infection
189. Poliomyelitis
190. Tetanus
191. Protozoan infections
192. Rickettsiosis
193. Siberian plague
194. Rabies
195. Scarlatina
196. Tuberculosis of different location
197. Lyme disease
198. Disease affected by human immunodeficiency virus (HIV)
199. Chlamydial infections
200. Cholera
201. Plague – sexually transmittable infectious diseases:
202. Gonococcal infection
203. Syphilis

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

204. Multiple pregnancy
205. Vomiting of pregnancy
206. Pregnancy during extragenital pathology
207. Fetal stress during pregnancy
208. Intrauterine growth restriction
209. Immune conflict during pregnancy
210. Molar pregnancy
211. Low insertion of placenta
212. Premature separation of placenta
213. Premature birth and prolonged pregnancy
214. Ectopic pregnancy
215. Preeclampsia and eclampsia
216. Natural abortion, birth and postnatal period defects:
217. Birth activity abnormalities
218. Hip bone abnormalities, including cephalopelvic disproportion
219. Fetal stress in childbirth
220. Birth and postnatal bleeding
221. Malposition and disproportion presentation

222. Postnatal septic diseases
223. Uterus and birth canal injuries, gynecological disorders:
224. Abnormal uterine bleeding
225. Ovarian apoplexy
226. Infertility
227. Congenital malformation of female genital organs
228. Benign mammary dysplasia
229. Benign and precancerous neoplasms of female genital organs
230. Endometriosis
231. Inflammatory diseases of female genital organs
232. Malignant neoplasms of female genital organs
233. Mastitis
234. Neuroendocrinal syndromes
235. Mammary neoplasms

List 3 (emergencies):

1. Asphyxia (including neonatal)
2. Hypertensive crisis
3. Acute respiratory failure
4. Acute urinary retention
5. Adrenal crisis
6. Acute kidney injury
7. Acute hepatic failure
8. Acute cardiac failure
9. Acute intoxication, including by chemical warfare agents
10. Acute psychosis
11. Acute coronary syndrome
12. Acute radiation and chemical injuries, including in the field and in case of emergencies
13. Acute cerebral deficiency
14. Electric injury
15. Epileptic status
16. Acute bleeding
17. Acute blood loss syndrome, including in the field and in case of emergencies
18. Cardiac arrest
19. Collapse
20. Impairment of consciousness and comatose states
21. Renal colic
22. Gallstone colic
23. Acute anaphylaxis
24. Acute cardiac events
25. Cold injury, including in the field

26. Heat trauma, including in the field
27. Convulsive disorder
28. Drowning
29. Strangled asphyxia
30. Normal birth
31. Shocks
32. Snake, insect and animal bites
33. Penetrating wounds, including during combat operations
34. Burns, including in the field
35. Foreign objects of respiratory passages, digestive tract, ENT-organs and eye.

List 4 (laboratory and instrumental research)

1. Pleural fluid analysis
2. Ascitic fluid analysis
3. Synovial fluid analysis
4. Zymnitsky's urine test
5. Nechiporenko's urine test
6. Alpha amylase activity in blood and urine, fecal elastase 1
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. Ferritin, ferrum and copper of blood serum
13. Creatinine, blood and urine urea, glomerular filtrate rate
14. Blood electrolytes
15. Blood aminotransferase
16. General blood bilirubin and its fractions
17. Coagulogram
18. Blood uric acid
19. Blood alkaline phosphatase
20. Histomorphologic research of lymphatic gland biopsy specimen
21. Histomorphologic research of parenchymatous organ biopsy specimen
22. Histomorphologic research of mucous coat biopsy specimen
23. Histomorphologic research of muscle and skin biopsy specimen
24. Research of the internal environment in premises (indicators of microclimate, natural and artificial lighting, bacteriological and chemical air pollution).
25. Research of the respiratory function
26. Standard ECG (in 12 derivations)
27. Endoscopic examination of bronchi
28. Endoscopic examination of digestive tract

29. Echocardiography and Doppler sonography
30. General fecal matter analysis
31. General blood analysis
32. General urine analysis
33. General cerebral spinal fluid analysis
34. General sternal punctate analysis
35. General expectoration analysis
36. General blood immunological profile
37. Serological responses during infectious diseases
38. Express tests on viral diseases
39. Amplification methods during infectious diseases (PCR)
40. Serological response during autoimmune diseases
41. Chemical and bacteriological research of external human environment (atmospheric air, waterbodies, soil).
42. Microbiological research of biological fluids and secretions
43. Radiation measurement (sound, vibration, ionizing), individual radiometry.
44. Methods for instrumental thyroid imaging
45. X-ray contrast angiography
46. Methods for instrumental abdominal imaging
47. Methods for instrumental intrathoracic organ imaging
48. Methods for instrumental urogenital system imaging
49. Methods for instrumental imaging of skull, spine, spinal cord, bones and joints
50. Methods for instrumental mammary gland imaging
51. Tuberculinodiagnosis
52. Multiple-point fractional examination of bilis and PH measurement of stomach and esophagus
53. Chemical organoleptic, bacteriological examination of food products and drinking water
54. Cytological examination of uterine cervix
55. Measurement of ergonomic indicators of heaviness and intensity of work.

List 5 (medical manipulations):

1. To carry out a closed-chest cardiac massage
2. To carry out artificial breathing
3. To conduct defibrillation using an automatic cardioverter
4. To register standard ECG in 12 derivations
5. To conduct a temporary stop of external hemorrhage
6. To conduct initial surgical debridement, bandage, removal of cutaneous sutures, including in the field
7. Apply bandages, including in the field
8. To set a nasal gastric and orogastric tube

9. To conduct transport immobilization
10. To administer drugs (endovenous, stream, drop-by-drop, intraosseous), including in the field
11. To provide peripheral venous access
12. To measure arterial blood pressure
13. To restore the airway patency
14. To conduct the urinary catheterization with a soft probe
15. To conduct nasal tamponade
16. To perform the technique of newborn's skin-to-skin contact and early breastfeeding attachment
17. To carry out digital rectal examination and examination using a rectal speculum
18. To carry out digital investigation of prostatic gland
19. To conduct the clinical breast examination
20. To carry out the pleural puncture
21. To define blood groups and Rh status
22. To transfuse blood components and blood substitutes
23. To conduct bimanual examination and female speculum examination
24. To carry out pelvimetry;
25. To conduct external (Leopold's maneuvers) and internal obstetrical examination;
26. To conduct unborn child auscultation – taking of smears for bacterioscopic, bacteriologic and cytological examination.