

«APPROVED»

Head of the Academic Board
Higher State Educational Establishment of Ukraine
“Ukrainian Medical Stomatological Academy”

_____ V. M. Zhdan

Minutes № 9 as of 26.05.2016



EDUCATIONAL PROGRAM
(EDUCATION AND TRAINING PROGRAM)

HIGHER EDUCATION LEVEL - SECOND (MASTER’S)

QUALIFICATION DEGREE - MASTER

FIELD OF STUDY - 22 PUBLIC HEALTH

SPECIALITY - 222 MEDICINE

MAJOR – GENERAL MEDICINE

POLTAVA 2016

PREAMBLE

1.INTRODUCED

Central Methodological Commission at Higher State Educational Establishment of Ukraine “Ukrainian Medical Stomatological Academy”

2. Implemented from 01.09.2016 by the Rector’s Order No.150-a as of 27.05.2016

3. INTRODUCED FOR THE FIRST TIME

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1. INTRODUCTION

1.1. General Information

According to the Order of the Ministry of Education and Science of Ukraine as of November 6, 2015, No. 1151 "On the peculiarities of the introduction of the list of fields of studies and specialties for which higher education students are trained", higher education institutions are invited to develop and introduce educational programs and curricula in accordance with requirements of the Law of Ukraine "On Higher Education" from September 1, 2016.

In order to create a temporary educational program in the absence of methodology and methodological recommendations, the following provisions of the Law of Ukraine "On Higher Education" have been used:

- 1) art. 1, par. 1. 17 – educational program (educational and training, educational and scientific) – a system of educational components at the appropriate level of higher education within the specialty, which defines:
 - requirements for the level of education of individuals who can start training under this program;
 - a list of academic disciplines and the logical sequence of their study;
 - the number of ECTS credits required for this program;
 - expected outcomes of study, which should be acquired by the applicant of the corresponding qualification degree;
- 2) Art. 10, par. 3 – the higher education standard defines the following requirements for an educational program:
 - the number of ECTS credits required for this program;
 - a list of graduate competencies;
 - normative content of the training of higher education students, formulated in terms of learning outcomes (a set of knowledge, skills, abilities, other competencies);
 - forms of attestation of higher education students;
 - requirements for the existence of an internal quality assurance system for higher education;
- 3) Art. 5, par.1 – the second (master's) level should presuppose the acquisition by an individual of in-depth theoretical and / or practical knowledge, skills, abilities in the chosen specialty (or major), general principles of the methodology of scientific and / or professional activity, other competences sufficient for the effective performance of tasks of an innovative nature of the corresponding level of professional activity;
- 4) Art. 1 par. 1.13 – competence determines the ability of a person to successfully carry out professional and further training activities and is the result of training at a certain level of higher education;
- 5) Art. 1 par. 1.19 – learning outcomes - a set of knowledge, skills, abilities, and other competences acquired by a person in the process of training in a certain educational, professional, educational program that can be identified, quantified and measured.

Based on these provisions, the following structure of the educational program is adopted (according to the terminology of the Law of Ukraine "On Higher Education"):

- identification of the types, content and system of the corresponding tasks of the innovative activity of the Master (the content of higher education) taking into account

the requirements of professional standards or an equivalent normative basis;

- regulation of the Master's competency system as an ability to effectively perform tasks of an innovative nature at the appropriate level of professional activity, taking into account the requirements for professional standards or an equivalent normative base and the requirements of the National Qualifications Framework;

- definition of program learning outcomes and their degree of complexity by decomposition of competences;

- justification of the nomenclature of types of educational activities due to the adequate distribution of program learning outcomes in the disciplines, practices, and individual tasks;

- identification of credits for the acquisition of all types of educational activities.

The implementation of a competent approach to the design of higher education through the creation of an unequivocal link of external goals of higher education and disciplines, practices and individual tasks is a decisive factor in the quality of higher education at the Academy and the creation of a real system of its assurance.

Transparent and understandable structure and scope of the educational program are relevant for entrants, students, lecturers, employers.

The educational program is used during:

- accreditation of educational program, inspection of educational activity by specialty and major;

- development of the curriculum, syllabi and practical training programs;

- development of means of diagnostics of quality assurance in higher education;

- determining the scope of training in the system of retraining and advanced training;

- professional-oriented training of students in their major.

The educational and training program takes into account the requirements of the Law of Ukraine "On Higher Education", the National Framework of Qualifications and establishes:

- scope and term of master's training;

- general competences;

- specific (professional) competence;

- the list and scope of educational disciplines for the acquisition of the competences of the educational program;

- requirements to the structure of educational disciplines.

Educational and training program is used for:

- drawing up curricula and syllabi;

- formation of the syllabi, practical training programs, scope of individual tasks;

- identification of the information base for the development of diagnostic tools;

- accreditation of the educational program;

- external quality control of specialists training;

- certification of Masters on the specialty 222 Medicine.

Users of the educational and training program:

- students who study at the Higher State Educational Institution of Ukraine "Ukrainian Medical Stomatological Academy";
- faculty members at the Higher State Educational Institution of Ukraine "Ukrainian Medical Stomatological Academy", who are engaged in the training of Masters on the specialty 222 Medicine;
- Examination commission on the specialty 222 Medicine;
- Admission Board of the Higher State Educational Institution of Ukraine "Ukrainian Medical Stomatological Academy".

The educational and training program is also intended for the Department of the Higher State Educational Institution of Ukraine "Ukrainian Medical Stomatological Academy", which trains Masters on the specialty 222 Medicine.

1.2. References to the regulatory documents

Educational and training program is developed on the basis of the following normative documents:

1. The Law of Ukraine "On Higher Education" as of 01.07.2014 // Vedomosti Verkhovnoy Rady. - 2014 - No. 37, 38.

2. National Qualifications Framework. Annex to the Resolution of the Cabinet of Ministers of Ukraine dated November 23, 2011 No. 1341.

3. Resolution of the Cabinet of Ministers of Ukraine dated 29.04.2015 № 266 "On approval of the list of fields of studies and specialties under which the training of higher education students is carried out.

4. Order of the Ministry of Education and Science of Ukraine dated November 6, 2015, No. 1151 "On the peculiarities of the introduction of the list of fields of studies and specialties, which are training the applicants of higher education, approved by the decision of the Cabinet of Ministers of Ukraine dated April 29, 2015, No. 266.

5. Order of the Ministry of Education and Science of Ukraine dated October 15, 2015 №1085 About the Conditions for admission to study at higher educational institutions of Ukraine in 2016.

6. Methodological recommendations for the development of higher education standards: project [Electronic resource] / Ministry of Education and Science of Ukraine. - K. - Mode of access: (<http://mon.gov.ua/citizens/zv'yazki-z-gromadskistyu/gromadske-obgovorennya-2016.html>).

7. Resolution of the Cabinet of Ministers of Ukraine dated December 30, 2015, No. 1187 Licensing conditions for the educational activities of educational institutions (Decree of the Cabinet of Ministers of Ukraine dated December 30, 2015, No. 1187 "Licensing conditions for educational activities of educational institutions".

1.3. Terms and their definitions

The program contains the terms to define the following :

1) *autonomy and responsibility* - the ability to perform tasks independently, solve tasks and problems and be responsible for the results of their activities;

2) *accreditation of an educational program* - assessment of an educational program and / or educational activity of a higher educational institution under this program for the purpose of compliance with the standard of higher education; the ability to meet the requirements of the standard and achieve the results of the program declared in the program; achievement of the results of the program declared in the program;

3) *attestation* - is the establishment of the correspondence of the level and extent of knowledge, skills and other competences acquired by higher education students to the requirements of higher education standards;

4) *types of educational activities of a student* - educational disciplines, practices, individual tasks;

5) *higher education* - a set of systematized knowledge, skills and practical skills, ways of thinking, professional, ideological and civic qualities, moral and ethical values, other competences acquired in a higher education institution in the corresponding field of knowledge at a certain level of higher education, which the complexity is higher than

the level of complete secondary education;

6) *higher educational institution* - a separate type of institution that is a legal entity of private or public law, acts in accordance with the license issued for conducting educational activities at certain levels of higher education, conducts scientific, scientific and technical, innovative and / or methodical activities, provides an organization the educational process and the acquisition of higher education, postgraduate education, taking into account their vocations, interests and abilities;

7) *field of study* - the main subject area of education and science, which includes a group of related specialties, for professional training;

8) *discipline competences* - the detailed competencies of the educational program and as a result of the decomposition of the specialist's specialty (major) competence of a certain level of higher education;

9) *The European Credit Transfer and Accumulation System (ECTS)* is a transfer and accumulation system used in the European Higher Education Area to provide, recognize, confirm qualifications and educational components, and promotes academic mobility for higher education graduates. The system is based on determining the academic load of the higher education student required to achieve the defined learning outcomes and is scored in ECTS credits;

10) *diagnostic tools* - documents that are approved in the established order, and are intended to establish the degree of achievement of the planned level of formation of competencies of the student during the control activities;

11) *higher education students* – individuals studying at a higher educational institution at a certain level of higher education in order to obtain the appropriate degree and qualification;

12) *content module* - a set of skills, knowledge, values that ensure the implementation of a certain competence;

13) *knowledge* - comprehended and assimilated by the subject of scientific information, which is the basis of his/her conscious, purposeful activity. Knowledge is divided into empirical (factual) and theoretical (conceptual, methodological);

14) *integral competence* - a generalized description of the qualification level, which expresses the basic competency characteristics of the level of education and / or professional activity;

15) *integrated assessment* - the result of evaluating specific tasks of different levels, taking into account the priority factor (planned level of competence generation);

16) *information provision of a discipline* - means of training, which systematically sets out the basics of knowledge on a certain discipline at the level of contemporary achievements of science and culture, a support for self-education and self-study (textbooks, study guides, teaching aids, teaching aids, dictionaries, encyclopedias, directories, etc.);

17) *qualification level* - a structural unit of the National Qualifications Framework, determined by a certain set of competencies that are typical for qualifications of this level;

18) *qualification* - the official result of evaluation and recognition obtained when the authorized competent authority has established that the person has attained the competencies (learning outcomes) according to the standards;

19) *competence / competences (according to NFC)* - the ability of a person to perform a certain type of activity, expressed through knowledge, understanding, skills, values, other personal qualities;

20) *communication* - the interconnection of subjects for the purpose of information transfer, coordination of actions, joint activities;

21) *credit of the European Credit Transfer and Accumulation System (hereinafter - ECTS credit)* is the unit of measurement of the amount of study load of the of higher education student necessary to achieve the defined (expected) learning outcomes. The amount of one ECTS credit is 30 hours. The load of one academic year per full-time education is, commonly, 60 ECTS credits;

22) *Master's degree* is the qualification degree obtained at the second level of higher education and awarded by a higher education institution as a result of successful completion of a relevant education program by a higher education student. Master's degree is obtained through an educational-professional or an educational-scientific program. Master's degree in medical, pharmaceutical or veterinary medicine is obtained on the basis of full secondary education and is awarded by a higher education institution (research institution) as a result of successful completion of a relevant educational program by a higher education student, which amounts to 300-360 ECTS credits.

23) *methodological provision of the discipline* - recommendations for the support of the student's educational activities in all types of training sessions, including information on the means and procedure of control measures, their form and content, methods of solving exercises, sources of information;

24) *modular control* - evaluation of the level of achievement by the student of the planned level of formation of competencies by types of training sessions;

25) *academic discipline* - a set of modules to be subjected to final control;

26) *academic element* - the minimum educational information of an independent semantic value (concept, phenomenon, relation, algorithms);

27) *object of diagnostics* - competence, the mastering of which is provided by a certain type of educational activity of a student;

28) *academic process* - is an intellectual, creative activity in the field of higher education and science, which is carried out in a higher educational institution (scientific institution) through a system of scientific, methodological and pedagogical activities and is aimed at the transfer, mastering, multiplication and use of knowledge, skills and other competences of the learners, as well as the formation of a harmoniously developed personality.

29) *educational (educational and training or educational-scientific) program* - a system of educational components at the appropriate level of higher education within the specialty, which defines the requirements for the level of education of individuals who can begin training under this program, the list of academic disciplines and the logical sequence of their study , the number of ECTS credits required for the implementation of this program, as well as expected learning outcomes (competencies) that the applicant of the relevant higher education level must possess;

30) *educational activity* - activity of higher educational institutions, which is carried out with the purpose of providing higher, postgraduate education and meeting

other educational needs of higher education students and other individuals;

31) *final control* - a comprehensive assessment of the planned level of the formation of disciplinary competencies;

32) *ongoing control* - assessment of the student's learning of the material during the classroom training sessions (interviewing students at lectures, checking and receiving reports on laboratory work, testing, etc.);

33) *syllabus* - a normative document defining the content of the discipline in accordance with the educational program, developed by the department, which is approved by the order of the Rector for teaching discipline;

34) *learning outcomes* (Law of Ukraine "On Higher Education") - a set of knowledge, skills, abilities and other competences acquired by a person in the process of training in a certain educational-professional, educational-scientific program that can be identified, quantified and measured;

35) *learning outcomes* (National Qualifications Framework) - competencies (knowledge, understanding, skills, values, other personal qualities) that acquire and / or are able to demonstrate by a person upon completion of training;

36) *the level of the formation of disciplinary competence* - the proportion of correct answers or performed essential activities from the total number of questions or significant activities of the decision benchmark;

37) *curriculum* - a normative document developed on the basis of the syllabus in accordance with the annual curriculum (contains allocation of the total time for the acquisition of separate educational elements and modules by types of training sessions and forms of training);

38) *self-study* - activity of a student on studying of educational elements and content modules, mastering of planned competencies, performance of individual tasks, preparation for tests;

39) *specialty* - a component of the field of study, which is carried out professional training;

40) *the standard of higher education* is a set of requirements for the content and results of educational activities of higher educational institutions and scientific institutions at each level of higher education within each specialty;

41) *the standard of educational activity* - a set of minimum requirements for personnel, educational, methodological, material and technical and informational support of educational process of higher educational institutions and research institution;

42) *skill* - the ability to apply knowledge to accomplish tasks and solve problems. Skills are divided into cognitive (intellectual-creative) and practical (based on skill using methods, materials, instructions, and tools).

43) *the quality of higher education* is the level of knowledge, skills, abilities and competences acquired by a person that reflects his or her competence in accordance with higher education standards.

1.4. Abbreviations

NQF – National Qualification

Framework ; GC – general

competences;

SC – specific (professional, subject) competences;

GO – general learning outcomes;

SO – specific (professional, subject) learning outcomes;

2. MASTER'S COMPETENCIES

Integral competence is the ability to solve typical and complex specific tasks and practical problems in professional health care activities, or in the process of learning that involves research and / or innovation and is characterized by complexity and uncertainty of the conditions and requirements.

2.1. General competencies according the NQF requirements

GC ₁	The ability to abstract thinking, analysis and synthesis, the ability to learn and to be modern instructed.
GC ₂	Ability to apply knowledge in practical situations
GC ₃	Knowledge and understanding of the subject area and understanding of professional activity
GC ₄	Ability to adapt and act in a new situation
GC ₅	Ability to make a reasonable decision; work in a team; interpersonal skills
GC ₆	Ability to communicate in the state language both verbally and in writing; Ability to communicate in a foreign language
GC ₇	Skills of using information and communication technologies
GC ₈	Determination and persistence on the tasks and duties taken
GC ₉	Ability to act socially and consciously
GC ₁₀	The desire to save the environment.

2.2. Specific (professional, subject) competences

Generalized object of professional activity - public health, in particular health maintenance; understanding, prevention, diagnosis and treatment of human diseases, as well as the impact of health problems on patients, their families and populations.

SC ₁	Surveying skills and clinical examination of the patient
SC ₂	Ability to determine the required list of laboratory and instrumental studies and evaluate their results
SC ₃	Ability to establish a preliminary and clinical diagnosis of the disease
SC ₄	Ability to determine the required mode of work and rest in the treatment of diseases
SC ₅	Ability to determine the nature of nutrition in the treatment of diseases
SC ₆	Ability to determine the principles and nature of the treatment of diseases
SC ₇	Ability to diagnose critical conditions
SC ₈	Ability to determine tactics of emergency medical care
SC ₉	Emergency medical skills

SC ₁₀	Ability to conduct medical evacuation measures
SC ₁₁	Skills for performing medical manipulations
SC ₁₂	Ability to determine the tactics of physiological pregnancy, physiological birth and postpartum period. Advice on family planning and contraception selection
SC ₁₃	Ability to conduct sanitary and hygienic and preventive measures
SC ₁₄	Ability to plan and conduct preventive and anti-epidemic measures on infectious diseases
SC ₁₅	Ability to determine the tactics of conducting persons subject to dispensary supervision
SC ₁₆	Ability to conduct examination of disability
SC ₁₇	Ability to conduct medical records
SC ₁₈	Ability to carry out epidemiological and medical-statistical research of public health; processing of state, social, economic and medical information
SC ₁₉	Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population
SC ₂₀	Ability to carry out an analysis of the activities of a physician, unit, institution of health care, taking measures to ensure the quality of medical care and increase the efficiency of the use of medical resources
SC ₂₁	Ability to carry out activities on the organization and integration of providing medical care to the population and marketing of medical services

3. NORMATIVE SCOPE OF TRAINING, FORMULATED IN TERMS OF LEARNING OUTCOMES

Competency	Learning outcome	General learning outcomes according to the NQF
GC1	GO1	To know methods of analysis, synthesis and further contemporary training. Be able to analyze information, make reasoned decisions, be able to acquire modern knowledge. Establish appropriate relationships to achieve goals. Be responsible for the timely acquisition of modern knowledge.
GC2	GO2	To have specialized conceptual knowledge gained in the learning process. Be able to solve difficult tasks and problems that arise in professional activities. A clear and unambiguous statement of their own conclusions, knowledge and explanations that justify them, to specialists and non-specialists. Responsible for making decisions in difficult conditions.
GC3	GO3	To have a profound knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge. Ability to effectively form a communication strategy in professional activity. To be responsible for professional development, the ability to further professional training with a high degree of autonomy.
GC4	GO4	Know the types and ways of adaptation, the principles of action in a new situation. Be able to apply means of self-regulation, be able to adapt to new situations (circumstances) of life and activity. Establish appropriate links to achieve the result. To be responsible for the timely use of self-regulation methods.
GC5	GO5	To know tactics and communication strategies, laws and ways of communicative behavior. Be able to make reasoned decisions, choose ways and strategies for communication to provide effective teamwork. Be able to make informed decisions, choose ways and strategies for communication to provide effective teamwork. Be responsible for the choice and tactics of communication.
GC6	GO6	To have a thorough knowledge of the state language and basic knowledge of a foreign language. Be able to apply knowledge of the state language, both verbally and in writing, to be able to communicate in a foreign language. Use the state language in professional and business communication and when preparing documents. Use a foreign language in professional activities. Be responsible for fluent knowledge of the state language, for the development of professional knowledge.
GC7	GO7	Have deep knowledge in the field of information and communication technologies used in professional activities. Be able to use information and communication technologies in a professional industry that needs updating and integrating knowledge. Use information and communication technology in professional activities. Be responsible for the development of professional knowledge and skills.
GC8	GO8	To know the duties and ways of fulfilling the tasks. Be able to define the purpose and the task of being persistent and conscientious in the performance of duties. To establish interpersonal relationships for the effective execution of tasks and responsibilities. Be responsible for qualitative performance of tasks.

GC9	GO9	To know own social and public rights and responsibilities. Form own civic consciousness, be able to act in accordance with it. Ability to communicate own social and social position. Be responsible for own civic position and activity.
GC10	GO10	To know the problems of preserving the environment and ways to save it. Be able to formulate requirements for themselves and others around environmental protection. Make proposals to the relevant authorities and institutions regarding measures for conservation and protection of the environment. Be responsible for the implementation of measures for the preservation of the environment within own competence.

Competence	Outcome	Specific (professional, subject) learning outcomes
SC1	SO1	<p>To collect data on patient complaints, medical history, history of life (including a professional history), under the conditions of the health care facility, its unit or at patient's home, using the interview results with the patient, according to the standard patient survey scheme.</p> <p>Under any circumstances (in the health care facility, its subdivision, at the patient's home, etc.), using knowledge on human anatomy, according to certain algorithms:</p> <ul style="list-style-type: none"> • collect information about the general condition of the patient (consciousness, constitution) and appearance (skin, subcutaneous fat, palpation of lymph nodes, thyroid and mammary glands); • estimate psychomotor and physical development of the child; • examine the state of the cardiovascular system (examination and palpation of the area of the heart and surface vessels, determination of percussion limits of the heart and vessels, auscultation of the heart and blood vessels); • examine the state of the respiratory organs (examination of the chest and upper respiratory tract, palpation of the chest, percussion and auscultation of the lungs); • examine the state of the abdominal organs (abdominal examination, palpation and percussion of the intestines, stomach, liver, spleen, palpation of the pancreas, kidneys, pelvic organs, finger rectal examination); • examine the condition of the musculoskeletal system (examination and palpation); • examine the state of the nervous system; • examine the state of the genitourinary system; • assess the condition of fetal development according to the calculation of the weight of the fetus and auscultation of his/her heartbeat.
SC2	SO2	Evaluate the information about the diagnosis in a health facility, its unit, using a standard procedure, using knowledge of the person, its organs and systems, based on the results of laboratory and instrumental studies (according to the List 4)
SC3	SO3.1	<p>In the conditions of the health care facility, its subdivision and among the affiliated population:</p> <ul style="list-style-type: none"> • Be able to isolate and fix the leading clinical symptom or syndrome (List 1) by making a reasonable decision using data from the patient's medical history, physical examination data of the patient, knowledge on

		<p>human anatomy, observing the relevant ethical and legal norms.</p> <ul style="list-style-type: none"> • Be able to identify the most probable or syndrome disease (List 2) by making a reasonable decision by comparison with standards using data from the patient's medical history and patient survey data, based on the leading clinical symptom or syndrome, using knowledge on human anatomy, adhering to the relevant ethical and legal standards.
	SO3.2	<p>In the conditions of the health care facility, its unit:</p> <ul style="list-style-type: none"> • Assign a laboratory and / or instrumental examination of the patient (according to the List 4) by making a reasonable decision based on the most probable or syndrome diagnosis, using standardized regimens, using knowledge on human anatomy, observing the relevant ethical and legal standards. • Perform differential diagnosis of diseases (List 2) by making a reasonable decision, using a certain algorithm by the most probable or syndrome diagnosis, data of laboratory and instrumental examination of the patient, knowledge on human anatomy, observing the relevant ethical and legal norms. • Make a preliminary clinical diagnosis (in list 2) by making a reasonable decision and logical analysis, using the most probable or syndrome diagnosis, data of the laboratory and instrumental examination of the patient, conclusions of the differential diagnosis, knowledge on human anatomy, observing the relevant ethical and legal norms.
SC4	SO4	<p>To determine the necessary regimen of work and rest in the treatment of the disease (according to the List 2), in the conditions of the health care facility, at the patient's home and at the stages of medical evacuation, incl. in the field, based on the previous clinical diagnosis, using knowledge on human anatomy, adhering to the relevant ethical and legal norms, by making a well-founded decision based on existing algorithms and standard regimens.</p>
SC5	SO5	<p>To determine the necessary medical nutrition in the treatment of the disease (according to List 2), in the conditions of the health care facility, at the patient's home and at the stages of medical evacuation including at the battlefield, on the basis of the previous clinical diagnosis, using knowledge on human anatomy, adhering to relevant ethical and legal standards, by making a well-founded decision based on existing algorithms and standard regimens.</p>
SC6	SO6	<p>To determine the nature of the treatment (conservative, operational) of the disease (according to List 2), in the conditions of the health care facility, at the patient's home and at the stages of medical evacuation, incl. at the battlefield on the basis of a previous clinical diagnosis, using knowledge on human anatomy, adhering to the relevant ethical and legal standards, by making a well-founded decision on existing algorithms and standard regimens.</p> <p>To determine the principles of treatment of the disease (according to List 2), in the conditions of the health care facility, at the patient's home and at the stages of medical evacuation, incl. at the battlefield, based on the previous clinical diagnosis, using knowledge on human anatomy, adhering to the relevant ethical and legal norms, by making a reasonable decision based on existing algorithms and standard regimens.</p>
SC7	SO7	<p>To make a diagnosis (according to the List 3) by making a reasoned decision and assessing the condition of a person, in all circumstances (at</p>

		home, on the street, at the health facility, in its department) incl. in conditions of emergency, in field conditions, in the absence of information and limited time, using standard methods of physical examination and possible history, human anatomy, observing the corresponding ethical and legal norms.
SC8	SO8	To determine the tactics of providing emergency medical care in all circumstances, using knowledge on human anatomy, observing the relevant ethical and legal norms, by making a reasoned decision, based on the diagnosis of an urgent condition according to the List 3) in a limited time using standard regimens.
SC9	SO9	To provide emergency medical care in all circumstances, using knowledge on human anatomy, following the relevant ethical and legal standards, by making a reasoned decision, based on a diagnosis of urgency (according to the List 3) in a limited time according to the defined tactics, using standard regimens.
SC10	SO10	To organize medical and evacuation measures among the population and servicemen, in the conditions of an emergency, including at the battlefield, during deployed stages of medical evacuation, taking into account the existing system of treatment and evacuation support.
SC11	SO11	To carry out medical manipulations according to the List 5) in conditions of medical facility, at home or at work on the basis of a previous clinical diagnosis and / or patient status, using knowledge on human anatomy, observing the relevant ethical and legal standards, by making a reasoned decision and using standard techniques.
SC12	SO12.1	<p>In the conditions of a health care facility on the basis of anamnestic data, general examination, bimanual, external and internal obstetric examination of a pregnant woman and a maternity using knowledge on human anatomy, observing the relevant ethical and legal norms, by making a reasoned decision using the standard procedure:</p> <ul style="list-style-type: none"> • to assess the general condition of a pregnant woman, parturient and postpartum; • to determine the term of pregnancy; • to determine the expected term of labor and weight of the fetus; • to determine and evaluate the size of the female pelvis; • to determine and evaluate the topography of the fetus in the uterus • to determine the tactics of pregnancy; • to determine and evaluate the condition of the fetus during pregnancy; • to define the tactics of delivery management; • to assess the general condition of the newborn; • to assess the state of the afterbirth; • to determine the state of involution of the uterus; • to appoint a rational feeding to pregnant women, children of the first year of life and development delay, premature newborns; • to assess the condition of postpartum lochia and lactation.
	SO12.2	<p>In the conditions of a medical facility, based on anamnestic data, general examination and gynecological examination of a woman, using knowledge about reproductive organs of a woman, adhering to the relevant ethical and legal norms, by making a reasonable decision using the standard procedure:</p> <ul style="list-style-type: none"> • to evaluate the patient and the medical criteria of acceptability of the contraceptive method; • determine the patient's inspection plan before choosing a

		<p>contraceptive method;</p> <ul style="list-style-type: none"> • to conduct family planning counseling; • to carry out the selection of a modern method of contraception for different categories of the population.
SC13	SO13.1	<p>To form, in the conditions of the health care facility, its unit in the workplace, using a generalized procedure for evaluation the state of human health, knowledge on human anatomy, adhering to the relevant ethical and legal norms, by making a reasoned decision, among the assigned contingent of population:</p> <ul style="list-style-type: none"> • dispensary groups of patients; • groups of healthy people subject to regular medical check-up (newborns, children, adolescents, pregnant women, representatives of professions, who must undergo mandatory regular medical check-up).
	SO13.2	<p>To implement a system of anti-epidemic and prophylaxis measures in the conditions of a health care facility and its subunit on the basis of data on the health status of certain contingents of the population and on the presence of influence on the environment using existing methods within the framework of primary health care for the population, of:</p> <ul style="list-style-type: none"> • organization of rational nutrition, water supply; • activity and rest; • the formation of a favorable production environment; • primary prevention of diseases and injuries; • vaccine prophylaxis; • prevention of harmful habits; • prevention of unwanted pregnancy; • promoting a healthy lifestyle.
	SO13.3	<p>To implement a system of primary prevention measures based on data on the state of health of the attendant population and on the existence of health determinants on it, under the conditions of in-patient and out-patient care, using existing methods, within the framework of primary health care, sanitation to the population:</p> <ul style="list-style-type: none"> • sanitary and educational measures to prevent the occurrence of infectious and non-infectious diseases, injuries and promotion of a healthy lifestyle; • organization of rational nutrition, safe social and living conditions, water supply; • activity and rest mode.
	SO13.4	<p>To organize conduction of secondary and tertiary prevention measures among the population of the assigned contingent using the generalized procedure for assessing the health of a person (screening, preventive medical examination, medical treatment), knowledge o human anatomy, observing the relevant ethical and legal norms, by making a reasoned decision, in the conditions of the health care facility, in particular:</p> <ul style="list-style-type: none"> • to form groups of clinical supervision; • to organize medical and recreational activities differentiated from the dispensary group.
SC14	SO14.1	<p>To plan measures to prevent the spread of infectious diseases (List 2) under the conditions of a health care facility, its unit based on the results of the epidemiological survey of infectious disease foci, epidemiological analysis, using existing preventive and anti-epidemic methods.</p>
	SO14.2	<p>To perform in a health care facility, its unit:</p>

		<ul style="list-style-type: none"> • detection and early diagnosis of infectious diseases (List 2); • initial antiepidemic measures in the focus of infectious diseases.
	SO14.3	To detect, in a health care facility, using its statistical and laboratory methods of risk groups, risk areas, time of risk, risk factors and carry out an epidemiological analysis of the infectious morbidity of the population.
SC15	SO15	<p>In a health care facility or at a patient's home based on the patient's health information, using standardized procedures, using knowledge on human anatomy, following the relevant ethical and legal standards, by making a reasoned decision:</p> <ul style="list-style-type: none"> • determine the tactics of examination and secondary prevention of patients subject to regular medical check-up; • to define the tactics of examination and primary prevention of healthy persons subject to regular medical check-up; • to calculate and assign the necessary food to children of the first year of life.
SC16	SO16	To determine the presence and degree of limitation of life, type, degree and duration of disability with the registration of relevant documents, in the conditions of health care facility on the basis of disease data and its course, features of human professional activities.
SC17	SO17	<p>Under the conditions of the health care facility, its unit:</p> <ul style="list-style-type: none"> • to prepare an annual report on personal production activities, using official accounting documents, in a generalized form; • to conduct medical documentation regarding the patient and the contingent of the population (outpatient / in-patient patient record, medical history, individual card for the pregnant woman, exchange card, birth history, spa resort card, disability certificate, documentation for MSEC, etc.) using standard technology on the basis of regulatory documents.
SC18	SO18.1	<p>On the territory of service on the standard methods of descriptive, analytical epidemiological and medical-statistical research:</p> <ul style="list-style-type: none"> • to carry out screening for the most important non-infectious diseases; • to evaluate the incidence, including chronic non-infectious diseases, disability, mortality, and integral indicators of health in the dynamics and in comparison with the average static data; • to identify risk factors for the occurrence and course of diseases; • to form groups of population risk.
	SO18.2	<p>In all circumstances, using standard procedures, including state-of-the-art computer information technologies, to be able to:</p> <ul style="list-style-type: none"> • determine the source and / or location of the required information depending on its type; • receive the necessary information from a specific source; • analyze the received information.
SC19	SO19.1	<p>In the conditions of the health care facility, its unit according to standard methods:</p> <ul style="list-style-type: none"> • to identify negative environmental factors based on the data of the sanitary and phytosanitary facility by comparing them with existing norms and standards; • to analyze the health status of a contingent based on official data by comparison with the average rates; • to determine the relationship between the state of the environment and the health status of a contingent based on data on them;

		<ul style="list-style-type: none"> • to develop preventive measures based on data on the relationship between the state of the environment and the health status of a contingent.
	SO19.2	To analyze population morbidity by identifying risk groups, risk areas, time of risk, risk factors, health facilities, and their subdivisions, using statistical and laboratory methods.
	SO19.3	To evaluate the impact of socio-economic and biological determinants on the health of the individual, family, population, on the territory of service on the basis of standard methods and on the basis of epidemiological and medical-statistical research data.
SC20	SO20.1	<p>In the conditions of health care facility according to standard methods on the basis of official statistics:</p> <ul style="list-style-type: none"> • to investigate the scope and effectiveness of the activity of a physician, a unit, a health care facility in dynamics and comparing them with the average static and the best in the field of activity; • to identify shortcomings in activities and the reasons for their formation.
	SO20.2	<p>In the conditions of a health care facility or its unit according to standard methods:</p> <ul style="list-style-type: none"> • to conduct selection and use of unified clinical protocols for the provision of medical care based on evidence-based medicine; • to take part in the development of local medical assistance protocols; • to carry out the quality control of health care on the basis of statistical data, expert evaluation and data from sociological research using the rates of structure, process and results of activity; • to identify factors that impede improving the quality and safety of health care.
	SO20.3	<p>In conditions of a facility, the health care unit according to standard methods:</p> <ul style="list-style-type: none"> • to estimate the cost of medical services; • to substantiate the choice of the adequate method of financing (payment), the choice of rational forms of organization of provision of medical services; • to apply methods of economic analysis in the choice of methods of diagnosis, prevention, treatment, rehabilitation (minimization of costs, cost effectiveness, cost-benefit).
SC21	SO21.1	<p>In the conditions of the health care facility, observing the relevant ethical and legal norms, by making a reasoned decision to take measures:</p> <ul style="list-style-type: none"> • to organize the work of medical staff in a team, unit, facility; • to formulate rational patient medical paths; • organize interaction with colleagues at their facility and in other health care facility, subordinates and managers; • to organize interaction with organizations and facilities outside the health sector.
	SO21.2	To apply tools for advancing medical services on the market, based on an analysis of the needs of the population, in the conditions of functioning of the health care facility, its unit, in a competitive environment.

Match matrix of learning outcomes and competencies

	Program learning outcomes	Competencies																			
		General competencies										Specific (professional) competencies									
	Integral competency Ability to solve typical and complex specific tasks and practical problems in professional health care activities, or in the process of learning that involves research and / or innovation and is characterized by complexity and uncertainty of the conditions and requirements.																				
1	Ability to abstract thinking, analysis and synthesis, the ability to learn and master modern knowledge.																				
2	Ability to apply knowledge in practical situations.																				
3	Knowledge and understanding of the subject area and understanding of professional activity.																				
4	Ability to adapt and act in a new situation.																				
5	Ability to make reasoned decisions; work in a team; interpersonal skills.																				
6	Ability to communicate in the state language both verbally and in writing; Ability to communicate in a foreign language.																				
7	Skills of using information and communication technologies.																				
8	Determination and persistence on the tasks and duties taken																				
9	Ability to act socially and consciously																				
10	The desire to save the environment.																				
1	Patient interviewing skills.																				
2	Ability to determine the required list of laboratory and instrumental studies and evaluate their results																				
3	Ability to establish a preliminary and clinical diagnosis of the disease.																				
4	Ability to determine the necessary mode of work and rest in the treatment of diseases																				
5	Ability to determine the nature of nutrition in the treatment of diseases																				
6	Ability to determine the principles and nature of the treatment of diseases																				
7	Ability to diagnose urgent conditions																				
8	Ability to determine tactics of emergency medical care.																				
9	Emergency medical skills																				
10	Ability to conduct medical and evacuation measures																				
11	Skills to perform medical manipulations																				
12	Ability to determine the tactics of physiological pregnancy, physiological birth and postpartum period. Skills for counseling on family planning and selection of contraceptive methods																				
13	Ability to carry out sanitary and preventive measures																				
14	Ability to plan and conduct preventive and anti-epidemic measures on infectious diseases.																				
15	Ability to determine the tactics of conducting persons subject to regular medical check-up																				
16	Ability to conduct examination of disability.																				
17	Ability to conduct medical records.																				
18	Ability to carry out epidemiological and medical-statistical research of public health; processing of state, social, economic and medical information;																				
19	Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population																				
20	Ability to conduct an analysis of the activities of a doctor, subunit, health care institution, taking measures to ensure the quality of medical care and increase the efficiency of the use of medical resources																				
21	Ability to conduct activities on the organization and integration of providing medical care to the population, and marketing of medical services																				

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Cognitive (perceptive) aspect																																
To collect data on patient complaints, medical history, history of life.	Knowle dge	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
To assess information on the diagnosis using a standard procedure based on the results of laboratory and instrumental studies (list 4).	Compre hension	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
To highlight a leading clinical symptom or syndrome (list 1). To make the most probable or syndromic diagnosis of the disease (list 2). To appoint a laboratory and / or instrumental examination of the patient (list 4). To make differential diagnosis of	Synthes is	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
diseases (list 2). To make a preliminary clinical diagnosis (list 2).																																	
To determine the necessary mode of work and rest in the treatment of the disease (list 2).	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	
		+	+	+	+	+		+	+	+		+	+	+	+	+	+						+	+	+	+	+	+	+	+	+	+	
To determine the necessary medical nutrition in the treatment of the disease (list 2).	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	
		+	+	+	+	+		+	+	+		+	+	+	+	+	+						+	+	+	+	+	+	+	+	+	+	
To determine the principles and nature of treatment (conservative, operative) disease (list 2).	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		+	+	+	+	+		+	+	+		+	+	+	+	+	+						+	+	+	+	+	+	+	+	+	+	
To make a diagnosis (list 3).	Synthes is	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
		+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
To determine the tactics of providing emergency	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+
		+	+	+	+	+		+	+	+		+	+	+			+	+	+	+	+	+	+	+	+			+	+	+	+	+	

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
medical care on the basis of a diagnosis of urgency (list 3).																																	
To provide emergency medical care on the basis of a diagnosis of critical state (list 3).	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	-	-	-	-	+	-	+	+	+
		+	+	+	+	+		+	+	+		+	+	+			+	+	+	+	+	+	+	+				+			+	+	+
		+	+	+	+	+		+	+	+		+	+	+			+	+	+	+	+	+	+	+				+			+	+	+
To organize medical and evacuation measures among the population and military personnel taking into account the existing system of medical and evacuation support.	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+
		+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
To define the tactics of conducting physiological births and the postpartum period.	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
To form among	Implem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+	

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
the assigned contingent of population dispensary groups of patients; groups of healthy people subject to regular medical check-up.To implement a system of anti-epidemic and preventive measures within the framework of primary medical and sanitary assistance to the population. To implement a system of primary prevention measures within the framework of primary health care for the population. Organize the secondary and	entation	+	+	+	+	+		+	+	+	+	+	+		+	+	+				+		+	+	+	+	+	+	+	+	+	+
			+	+	+			+		+	+	+	+		+	+	+						+	+	+	+	+	+	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
tertiary prevention measures among the population of the assigned contingent.																																
To plan measures to prevent the spread of infectious diseases (List 2). Conduct detection and early diagnosis of infectious diseases (List 2); primary antiepidemic measures in the focus of an infectious disease. Identify risk groups, risk areas, time of risk, risk factors and carry out an epidemiological analysis of infectious diseases.	Analysiss	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+
		+	+	+	+	+		+	+	+	+	+	+	+	+	+					+		+	+	+	+	+	+	+	+	+	+
		+	+	+	+			+	+	+	+	+	+	+								+		+	+	+	+	+	+	+	+	+
To define the	Analysi	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
tactics of examination and secondary prevention of patients subject to regular medical check-up; the tactics of examination and primary prevention of healthy persons subject to regular medical check-up; to calculate and prescribe the necessary food for children of the first year of life.	s	+	+	+	+	+		+	+	+	+	+	+	+	+	+							+	+		+	+	+	+	+	+	+
		+	+	+				+	+	+	+	+	+		+	+	+						+	+		+	+	+	+	+	+	+
Determine the presence and degree of limitation of vital activity, type, degree and duration of disability with the registration of relevant documents.	Analysiss	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+
		+	+	+	+	+		+	+	+		+	+	+	+	+	+						+	+	+	+	+	+	+	+	+	+
		+	+						+			+	+		+	+	+	+					+	+	+	+	+	+	+	+	+	+
To prepare an	Synthes	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
annual report on personal production activities; keep medical records about the patient and the contingent of the population.	is	+			+	+	+	+	+			+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+
To conduct screening for the most important non-infectious diseases; estimate incidence, integral health indicators; to identify risk factors for the occurrence and course of diseases; to form groups of population risk. Determine the source and / or location of the required information, depending on its type; receive the	Assessme nt	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+
		+	+	+	+	+		+	+	+	+	+	+				+	+	+		+		+	+	+	+	+	+	+	+	+	+
		+	+	+	+			+		+	+	+	+											+	+	+	+		+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
necessary information from a certain source; process and analyze the information received.																																
Identify negative environmental factors; to analyze the health of a contingent; determine the relationship between the state of the environment and the health of a contingent; to develop preventive measures on the basis of data on the relationship between the state of the environment and the health status of a contingent. Analyze	Analys is	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	-	+	+	+	+	+	+	+	+	+	+
		+	+	+	+	+		+	+	+	+	+	+	+	+	+					+		+	+	+	+	+	+	+	+	+	+
		+	+	+	+			+		+	+	+	+	+									+	+	+	+		+	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
population morbidity by identifying risk groups, risk areas, time of risk, risk factors. To assess the impact of socio-economic and biological determinants on the health of the individual, family, and population.																																
To study the scope and effectiveness of the activity of a physician, a unit, a health care facility; to identify shortcomings in activities and the reasons for their formation. Conduct selection and use of unified clinical protocols for the	Assessment	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+
		+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+
						+		+	+						+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
provision of medical care based on evidence-based medicine; to develop and use local medical assistance protocols. Carry out quality control of medical services; to identify factors that impede the improvement of the quality and safety of health care. Assess the cost of medical services; to substantiate the choice of the adequate method of financing (payment) and the choice of rational forms of organization of provision of medical services. Apply																																

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
methods of economic analysis when choosing methods for diagnosis, prevention, treatment, rehabilitation.																																
Organize the work of medical staff; to form rational medical paths of patients; to organize interaction with colleagues, organizations and institutions; apply health promotion tools.	Implem entation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Emotional (affective) aspect																																
To formulate goals and define the structure of personal activity.	Value orientati on	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
To maintain a healthy lifestyle, use self-regulation	Organiz ation and concept	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	-	-	+	+	+	+

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
and self-control techniques	ualizati on																																
To realize and guide in the activity of civil rights, freedoms and responsibilities, to raise the general educational level of culture.	Value orientati on	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	
		+	+	+			+	+	+	+	+								+	+	+		+	+	+	+	+	+					
Adhere to ethical, bioethical and deontological requirements in the professional activities.	Organiz ation and concept ualizati on	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		+	+	+		+	+		+	+		+					+					+	+	+	+	+	+					+	
To organize the necessary level of individual safety (own and persons cared for) in case of the occurrence of typical hazardous situations in the individual field of activity.	Organiz ation and concept ualizati on	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	+	+	+
		+	+	+	+	+			+	+	+	+	+	+				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Psychomotor aspect																																	

		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
To perform medical manipulations (List 5).	Manipulation	+	+	+	+	+	+	+	+	+	-	+	+	+	-	-	+	+	+	+	+	+	+	+	-	+	-	+	+	-	+	+
		+	+	+	+	+		+	+	+		+	+	+			+	+	+	+		+	+			+		+			+	+
			+	+	+	+	+			+			+	+	+			+	+	+	+		+	+					+			

Note: number of «+» reflects the influence of the component on the formation of the program learning outcome.

«+++» - the present component dominates in the program.

«++» - the present component is sufficient in the program.

«+» - the present component is not significant in the program.

«-»- the present component is not acquired during the learning process.

4. REQUIREMENTS TO THE STUDENTS' PREVIOUS LEVEL OF EDUCATION

An individual has the right to obtain Master's degree on the basis of full secondary education, provided that the external independent assessment of the quality of education is successfully completed. An individual has the right to obtain Master's degree on the basis of the educational qualification level of a junior specialist, acquired on the specialty 5.12010101 General Medicine or 5.12010102 Nursing, in case of successful completion of admission tests.

5. THE SCOPE OF THE PROGRAM ACCORDING TO THE NORMATIVE AND SELECTIVE PARTS

The scope of the educational and training program is 360 ECTS credits. The normative part of the program is 339 ECTS credits (94.2%). The scope of the selective part is 21 ECTS credits (5.8%). Taking into account the specifics of the industry and the specifics of the professional activity of the specialists of the professional qualification "Physician", the implementation of Article 62, paragraph 15, of the Law of Ukraine "On Higher Education" is not possible in full.

A minimum of 75% of the scope of the educational program should be directed to the formation of general and specific (professional) competencies in the specialty defined by the standard of higher education.

6. DISTRIBUTION OF LEARNING OUTCOMES BY TYPES OF EDUCATIONAL ACTIVITIES

Mandatory competencies to be acquired by a student	Program learning outcomes	Name of academic disciplines , practical trainings
I. The cycle of general (humanitarian and social-economic, natural science) training		
GC ₆	GO ₆	Foreign Language
GC ₉	GO ₉	History of Ukraine and Ukrainian Culture
GC ₁	GO ₁	Philosophy
GC ₆	GO ₆	Ukrainian Language for Professional Use
SC17	SO17	Latin language and Medical Terminology
GC ₃	GO ₃	History of Medicine
SC ₁₉	SO ₁₉	Medical Biology
SC2	SO2	Medical and Biological Physics
GC ₇ , SC ₁₈	GO ₇ , SO _{18.2}	Medical Informatics
SC2	SO2	Medical Chemistry
SC2, SC3	SO2, SO3.1, SO3.2	Bioorganic and Biological Chemistry
SC1, SC3	SO1, SO3.1, SO3.2	Human Anatomy
SC2, SC3	SO2, SO3.1, SO3.2	Histology, Cytology and Embryology
SC1, SC2, SC3	SO1, SO2, SO3.1, SO3.2	Physiology
SC ₁₃ , SC14, SC ₁₉	SO _{13.2} , SO14, SO _{19.3}	Microbiology, Virology and Immunology
II. The cycle of professional training		
SC ₁₉	SO _{19.1}	Health Security; Principles of Bioethics and Biosafety
SC2, SC3 ,SC ₁₉	SO2, SO3.1, SO3.2,	Pathomorphology

	SO _{19.3}	
SC2, SC3 ,SC ₁₉	SO2, SO3.1, SO3.2, SO _{19.3}	Pathophysiology
SC ₆	SO ₆	Pharmacology
GC ₁₀ , SC ₁₃	GO ₁₀ , SO _{13.2} , SO _{13.3}	Hygiene and Ecology
SC ₁ , SC3	SO ₁ , SO3.1, SO3.2	Propaedeutics of Internal Medicine
SC ₁ , SC3	SO ₁ , SO3.1, SO3.2	Propaedeutics of Pediatrics
SC ₁ , SC3	SO ₁ , SO3.1, SO3.2	General Surgery
SC1, SC5, SC ₁₁	SO ₁ , SO5, SO ₁₁	Patient Care (clinical practice)
SC3, SC5, SC ₁₁	SO3, SO5, SO ₁₁	Nursing practice
SC3	SO3.1, SO3.2	Radiology
SC2, SC3 SC4, SC11, SC15, SC20	SO2, SO3.1, SO3.2, SO4, SO11, SO15, SC20.2	Internal Medicine
SC2, SC3, SC4, SC11, SC15, SC20	SO2, SO3.1, SO3.2, SO4, SO11, SO15, SC20.2	Pediatrics
SC2, SC3, SO4, SC11, SC15, SC20	SO2, SO3.1, SO3.2, SO4, SO11, SO15, SC20.2	Surgery
SC2, SC3, SC11, SC12, SC15, SC20	SO2, SO3.1, SO3.2, SO11, SO12.1, SO12.2, SO15, SC20.2	Obstetrics and Gynecology
SC13, SC15, SC16, SC17, SC18, SC19, SC20, SC21	SO 13.4, SO15, SO16, SO17, SO18.1, SC19.1, SC19.2, SO20.1, SO20.3, SO21.1, SO21.2	Social Medicine, Public Health
SC2, SC3, SC11	SO2, SO3.1, SO3.2, SO11	Urology
SC2, SC3, SC11	SO2, SO3.1, SO3.2, SO11	Otorhinolaryngology
SC2, SC3, SC11	SO2, SO3.1, SO3.2, SO11	Ophthalmology
SC2, SC3, SC11	SO2, SO3.1, SO3.2, SO11	Neurology
SC2, SC3, SC15	SO2, SO3.1, SO3.2, SO15	Medical Psychology
SC2, SC3, SC15	SO2, SO3.1, SO3.2, SO15	Psychiatry, Narcology
SC2, SC3, SC11	SO2, SO3.1, SO3.2, SO11	Dermatology, Venereology
SC4, SC13	SO4, SC13.4	Physical Rehabilitation, Sports Medicine
SC16, SC21, GC ₈	SO16, GO ₈ , SC21.1	Forensic Medicine. Medical Law of Ukraine
SC1, SC2, SC3, SC11, GC2	SO1, SO2, SO3.1, SO3.2, SO11, GO2	Clinical medical practice
SC2, SC3, SC14, SC20	SO2, SO3, SO _{14.1} , SO _{14.2} , SC20.2	Infectious Diseases

SC13, SC14, SC18, SC19	SO13.1, SO13.2, SO13.3, SO14.2, SO14.3, SO18.1, SC19.3	Epidemiology and Principles of Evidence- Based Medicine
SC4, GC ₉	SO4, GO ₉	Palliative and Hospice Medicine
SC2, SC3, SC11, SC15	SO2, SO3.1, SO3.2, SO11, SO15	Oncology and Radiation Medicine
SC2, SC3, SC11	SO2, SO3.1, SO3.2, SO11	Traumatology and Orthopedics
SC2, SC3, SC4, SC11, SC20	SO2, SO3.1, SO3.2, SC4, SO11, SC20.2	Phthysiology
SC2, SC3, SC7, SC8, SC9, SC11, SC20	SO2, SO3.1, SO3.2, SO7, SO8, SO9, SO11, SC20.2	Anesthesiology and Intensive Care
SC7, SC8, SC9, SC20, GC ₄	SO7, SO8, SO9 SC20.2, GO ₄	Urgent and Emergency Medical Care
SC3, SC4, SC11, SC15, SC21	SO3.1, SO3.2, SO4, SO11, SO15, SO21	General Practice (Family Medicine)
SC1, SC11	SC1, SO11	Clinical Anatomy and Operative Surgery
SC4, SC10, SC14, GC ₄	SO4, SO10, SO14.1, SO14.2, GO ₄	Reserve Officers Training in the field of Public Health; Major: Medicine
SC14, SC19, SC21, GC ₅	SO14.3, SC19.1, SC19.2, SC21.1, GO ₅	Professional Occupational Safety

7. DISTRIBUTION OF THE SCOPE OF THE PROGRAM BY TYPES OF EDUCATIONAL ACTIVITIES

№	Вид навчальної діяльності	Scope, ECTS credits	Scope, hours
I. NORMATIVE PART		339	10170
	Humanitarian and social-economic training		
1	Foreign Language	3	90
2	Ukrainian Language for Professional Use	3	90
3	History of Ukraine and Ukrainian Culture	3	90
4	Philosophy	3	90
	Total	12	360
	Natural science training		
5	Foreign Language for Professional Use	6	180
6	Latin language and Medical Terminology	3	90
7	History of Medicine	3	90
8	Medical Biology	5,5	165
9	Medical and Biological Physics	4	120
10	Medical Informatics	3,5	105
11	Medical Chemistry	4	120
12	Bioorganic and Biological Chemistry	9,5	285
13	Human Anatomy	14,5	435
14	Histology, Cytology and Embryology	11,5	345
15	Physiology	10	300
16	Microbiology, Virology and Immunology	8,5	255

	Total	83	2490
	Professional training		
17	Health Security; Principles of Bioethics and Biosafety	3	90
18	Pathomorphology	7	210
19	Pathophysiology	7	210
20	Pharmacology	7	210
21	Hygiene and Ecology	9	270
22	Propaedeutics of Internal Medicine	6	180
23	Propaedeutics of Pediatrics	5	150
24	General Surgery	6	180
25	Patient Care (clinical practice)	5	150
26	Nursing practice	3	90
27	Radiology	4	120
28	Internal Medicine	32,5	975
29	Pediatrics	20	600
30	Surgery	22	660
31	Obstetrics and Gynecology	11,5	345
32	Social Medicine, Public Health	9	270
33	Urology	3	90
34	Otorhinolaryngology	3	90
35	Ophthalmology	3	90
36	Neurology	4	120
37	Medical Psychology	3	90
38	Psychiatry, Narcology	3	90
39	Dermatology, Venereology	3	90
40	Physical Rehabilitation, Sports Medicine	3	90
41	Forensic Medicine. Medical Law of Ukraine	3	90
42	Clinical medical practice	10	300
43	Infectious Diseases	6,5	195
44	Epidemiology and Principles of Evidence-Based Medicine	3	90
45	Palliative and Hospice Medicine	3	90
46	Oncology and Radiation Medicine	4	120
47	Traumatology and Orthopedics	3	90
48	Phthisiology	3	90
49	Anesthesiology and Intensive Care	3	90
50	Urgent and Emergency Medical Care	3	90
51	General Practice (Family Medicine)	4,5	135
52	Clinical Anatomy and Operative Surgery	3	90
53	Reserve Officers Training in the field of Public Health; Major: Medicine	10	300
54	Professional Occupational Safety	3	90
	Total	244	7320
II	SELECTIVE PART	21	630
	Elective courses (Appendix)	21	630
III	Physical Training		320
IV	Attestation		60
Total for the Program		360	10800

8. REQUIREMENTS FOR THE STRUCTURE OF PROGRAMS OF DISCIPLINES, PRACTICES, INDIVIDUAL TASKS

The learning outcomes of the Master's studies are determined by the types of educational activities, as the specification of program (integrative) learning outcomes in the curriculum and practical training programs and are used as criteria for selecting the necessary content modules and related academic elements.

The synergy of the educational program with training programs by types of academic activities ensures the quality of higher education at the stage of the design.

The syllabus should also determine the total time for acquisition, the form of final control, the list of basic disciplines, the requirements for information and methodological support, requirements for diagnostic tools and evaluation criteria, requirements for the structure of the syllabus.

9. GENERAL REQUIREMENTS FOR DIAGNOSTIC TOOLS

The information base for generating diagnostic tools for the final control should be the expected results of learning by type of educational activity.

Graduation attestation is carried out by assessing the degree of acquired competence. Form of Attestation is the Standardized Test Exam and Practical-oriented Graduation Exam.

10. TERMS OF STUDY

The only form for training is full-time study.

Term of study – 6 years.

11. STRUCTURAL-LOGICAL SCHEME

The sequence of educational activity of a student:

№ з/п	Name of the academic discipline	Year of study					
		1	2	3	4	5	6
1	Foreign Language	*					
2	Ukrainian Language for Professional Use	*					
3	History of Ukraine and Ukrainian Culture	*					
4	Philosophy	*					
5	Foreign Language for Professional Use		*				
6	Latin language and Medical Terminology	*					
7	History of Medicine	*					
8	Medical Biology	*					
9	Medical and Biological Physics	*					
10	Medical Informatics		*				
11	Medical Chemistry	*					
12	Bioorganic and Biological Chemistry	*	*				
13	Human Anatomy	*	*				
14	Histology, Cytology and Embryology	*	*				
15	Physiology		*				
16	Microbiology, Virology and Immunology		*	*			
17	Health Security; Principles of Bioethics and Biosafety	*					

18	Pathomorphology			*			
19	Pathophysiology			*			
20	Pharmacology			*			
21	Hygiene and Ecology		*	*			*
22	Propaedeutics of Internal Medicine			*			
23	Propaedeutics of Pediatrics			*			
24	General Surgery			*			
25	Patient Care (clinical practice)		*				
26	Nursing practice			*			
27	Radiology			*			
28	Internal Medicine				*	*	*
29	Pediatrics				*	*	*
30	Surgery				*	*	*
31	Obstetrics and Gynecology				*	*	*
32	Social Medicine, Public Health			*	*		*
33	Urology				*		
34	Otorhinolaryngology				*		
35	Ophthalmology				*		
36	Neurology				*		
37	Medical Psychology			*			
38	Psychiatry, Narcology				*		
39	Dermatology, Venereology				*		
40	Physical Rehabilitation, Sports Medicine				*		
41	Forensic Medicine. Medical Law of Ukraine				*		
42	Clinical medical practice				*	*	
43	Infectious Diseases					*	*
44	Epidemiology and Principles of Evidence-Based Medicine					*	
45	Palliative and Hospice Medicine						*
46	Oncology and Radiation Medicine					*	
47	Traumatology and Orthopedics					*	
48	Phthisiology					*	
49	Anesthesiology and Intensive Care					*	
50	Urgent and Emergency Medical Care					*	
51	General Practice (Family Medicine)						*
52	Clinical Anatomy and Operative Surgery		*	*			
53	Reserve Officers Training in the field of Public Health; Major: Medicine		*		*	*	
54	Professional Occupational Safety		*				
	Elective courses	*	*	*	*	*	*
	Physical Training	*	*				
	<i>Attestation</i>			*			*

12. REQUIREMENTS FOR THE SYSTEM OF THE INTERNAL QUALITY ASSURANCE IN HIGHER EDUCATION

The system of quality assurance of educational activity and quality of higher education (internal quality assurance system), functioning in the academy, is certified by the Ukrainian certification body of quality management systems "ROUKSERT" No.80059-0373-14 dated October 21, 2014 and meets the requirements of the state standard DSTU ISO 9001 : 2009 (ISO 9001: 2008, IDT) "Quality Management

System. Requirements " and performs the following procedures and measures:

- 1) defines the principles and procedures for ensuring the quality of higher education;
- 2) performs monitoring and regular review of educational programs;
- 3) makes annual assessment of higher education students, scientific and pedagogical and pedagogical staff of the higher education institution, and regular publication of the results of such assessments on the official website of the higher educational institution, on information desks and in any other way;
- 4) ensures the professional development of pedagogical, scientific and scientific and pedagogical staff;
- 5) ensures the availability of the necessary resources for the organization of the educational process, including students' self-study, for each educational program;
- 6) ensures the availability of information systems for the effective management of the academic process;
- 7) ensures publicity of information about educational programs, degrees of higher education and qualifications;
- 8) ensures an effective system of preventing and detecting academic plagiarism in scientific publications of faculty members and students at higher education institution;
- 9) other procedures and measures.

The system of quality of educational activity and the quality of higher education (internal quality assurance system), provided by the higher education institutions, upon submission is assessed by the National Agency for the Quality Assurance of Higher Education or the independent institutions accredited by it for the assessment and quality assurance of higher education as for its compliance with the requirements of the higher education quality system, approved by the National Agency for the Quality Assurance of Higher Education, and international standards and recommendations on quality assurance of higher education.

13. FINAL PROVISIONS

The educational and training program is put into effect from **01.09.2016** in compliance with the decision of the Academic Board of the Academy (Minutes No. 9 dated May 26, 2016) by the order of the Rector № 150-a dated May 27, 2016, promulgated on the Academy's website prior to admission to study at the HSEE of Ukraine "UMSA" in compliance with the Rules for Admission.

Amendments to the educational and training program are introduced by the Heads of departments to the Central Methodical Commission of the Academy for consideration and presents it to the Academic Board of the Academy. After approval of this proposal by the Academic Board of the Academy and the order of the Rector the amendments are introduced into the educational professional and training program.

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. perineal pain
10. sore throat
11. vomiting
12. broncho-obstructive syndrome
13. bulbar puls
14. exudate into the pleural cavity
15. paranoid hallucinatory syndrome
16. fever
17. hemorrhagic syndrome
18. exanthema, enanthema
19. hepatomegaly and hepatolien syndrome
20. headache
21. dysuria
22. dysmenorrhea
23. dyspepsia
24. dysphagia
25. diarrhea
26. jaundice
27. shortness of breath
28. asphyxia
29. constipation
30. dizziness
31. cardiomegaly
32. cough
33. intestinal obstruction
34. hemoptysis
35. lymphadenopathy
36. meningeal syndrome
37. uterine bleeding
38. edema syndrome
39. paresis, paralysis
40. polyuria
41. portal hypertension
42. abnormal speech (aphasia)
43. disturbance of heart rate and conduction
44. disorders of consciousness
45. itchy skin
46. urinary syndrome
47. dementia syndrome
48. dehydration syndrome
49. digestive failure syndrome
50. stridor
51. articular syndrome
52. seizures
53. weight loss
54. cyanosis
55. partial or complete loss of vision
56. partial or complete loss of hearing
57. gastrointestinal bleeding

List 2 (diseases)

I) Blood and blood-making organs diseases, disorders involving host defense

1. anemia
2. hemolytic neonatal disease
3. hemophilia
4. leukemia
5. lymphomas
6. congenital (Brutton's disease, Viscott-Aldridge syndrome) and acquired immunodeficiency states
7. sepsis of newborns
8. surgical Sepsis
9. idiopathic thrombocytopenic purpura
10. chronic radiation damage

II) Mental and behavioral disorders:

1. bipolar affective disorder
2. acute psychosis including alcohol delirium
3. epilepsy
4. neurotic disorders
5. personality disorders
6. schizophrenia

III) Neurological diseases

7. intracranial injury
8. meningitis, encephalitis
9. migraine and other types of headaches
10. perinatal encephalopathy
11. autonomic nervous system disorder
12. stroke
13. vertebrogenic diseases of the nervous system, neuropathy and polyneuropathy
14. multiple sclerosis
15. chronic occupational diseases (vibration disease, occupational dyskinesia)

Eye diseases

16. blepharitis
17. acute glaucoma
18. conjunctivitis
19. foreign body of the eye
20. eye injury
21. retinopathy

ENT-diseases

22. laryngitis
23. otitis
24. peritonsillar abscess
25. sinusitis

26. tonsillitis

IV) Cardio-vascular diseases:

27. aortic aneurysms
28. atherosclerosis
29. lower extremities varix dilatation
30. congenital heart diseases
31. secondary arterial hypertension
32. acute occlusion of the main and peripheral arteries;
33. endocarditis
34. essential and secondary arterial hypertension
35. ischemic heart disease
36. carditis
37. cardiomyopathy
38. pulmonary heart
39. acquired heart diseases
40. obliterating endarteritis
41. pericardium
42. disturbances of cardiac rhythm and conduction
43. heart failure
44. injuries of the heart and blood vessels
45. thromboembolism of the pulmonary artery
46. phlebitis, thrombophlebitis

V) Respiratory and mediastinal diseases:

47. asphyxia
48. bronchial asthma
49. bronchitis
50. bronchiectasis
51. broncho-pulmonary dysplasia
52. congenital malformations of the respiratory organs
53. respiratory failure
54. infectious-destructive lung diseases
55. pulmonary insufficiency
56. mediastinitis
57. mucoviscidosis
58. pulmonary and mediastinal tumors
59. pleuritis
60. pneumoconiosis
61. pneumonia
62. pneumothorax
63. respiratory distress syndrome and pneumonia of newborns
64. foreign body in the respiratory tract
65. trauma of the chest (superficial, open)
66. chronic obstructive pulmonary disease

VI) Digestive diseases:

67. rectal prolapse
68. peptic ulcer
69. congenital malformations of the digestive system
70. reflux esophagitis
71. gastritis, duodenitis
72. acute and chronic hepatitis
73. acute intestinal obstruction
74. acute and chronic appendicitis
75. acute and chronic pancreatitis
76. benign tumors of the esophagus
77. enteritis, colitis
78. inflammatory diseases of the rectum and perianal area
79. strangulated and non-strangulated hernia
80. tumors of the esophagus, stomach, colon, liver and pancreas
81. peptic ulcers of the stomach and duodenum
82. peritonitis
83. perforation of the hollow organ
84. hepatic insufficiency
85. malabsorption syndrome
86. stenosis of the stomach pylorus
87. abdominal trauma (superficial, open)
88. functional gastrointestinal disorders
89. diseases of the operated stomach
90. cholecystitis, cholangitis, cholelithiasis, choledocholithiasis
91. liver cirrhosis
92. gastrointestinal bleeding

VII) Urogenital diseases:

93. amyloidosis of the kidneys
94. balanitis, balanoposthitis
95. congenital malformations of the urinary system
96. glomerulonephritis
97. dysmetabolic nephropathy
98. nephrotic syndrome
99. neoplasms of the kidney, urinary tract and prostate gland
100. pyelonephritis
101. prostatitis
102. urolithiasis
103. tubulointerstitial nephritis
104. urethritis
105. chronic kidney disease
106. cystitis

VIII) Diseases of the skin and subcutaneous tissue:

107. allergic dermatitis (dermatitis, toxicoderma, eczema)
108. bacterial diseases of the skin and subcutaneous tissue, pyoderma
109. pyoinflammatory diseases of fingers and hand
110. pyoinflammatory diseases in children and newborns
111. mycosis
112. burns and frostbite
113. parasitic diseases of the skin (scabies, bruising)
114. psoriasis
115. blistering dermatosis
116. specific surgical infection (anaerobic clostridial and nonclostridia)

IX) Diseases of the musculoskeletal system and connective tissue:

117. ankylosing spondylitis
118. congenital and acquired defects of the musculoskeletal system
119. acute rheumatic fever
120. dermatomyositis and polymyositis
121. neoplasms of the bone and muscular system
122. osteoarthritis
123. osteomyelitis
124. gout
125. polytrauma
126. reactive arthritis
127. rheumatoid arthritis
128. systemic scleroderma
129. systemic lupus erythematosus
130. systemic vasculitis (nodular polyarthritis, hemorrhagic vasculitis, hypersensitivity vasculitis)
131. typical fractures of the shoulders, forearms, hands, hips, legs, feet
132. pelvic trauma
133. spinal injury
134. damage to large joints (hip, knee, tibia, elbow)
135. chronic rheumatic illness
136. juvenile rheumatoid arthritis

X) Endocrine disorders, nutritional disorders and metabolic disorders:

137. acromegaly
138. thymus hyperplasia
139. hypothyroidism

140. hypotrophy, protein-energy insufficiency
141. pituitary nanism
142. diffuse toxic goiter
143. iodine deficiency diseases of the thyroid gland
144. non-diabetes mellitus
145. thyroid gland tumor
146. obesity
147. congenital adrenal cortex dysfunction
148. rickets, spasmophilia,
149. hereditary diseases of the metabolism (phenylchutonuria)
150. hereditary chromosomal disorders (Down's disease, Shereshevsky's Turner syndrome)
151. thyroiditis
152. thyrotoxicosis
153. disease and syndrome of Itsenko-Cushing
154. chronic insufficiency of the adrenal glands
155. diabetes mellitus

XI) Infectious and parasitic diseases:

156. bacterial food poisoning
157. erysipelas
158. botulism
159. viral hepatitis
160. chicken pox
161. congenital infections of the newborn
162. helminthiasis
163. herpesvirus diseases
164. flu and other acute respiratory viral infections
165. diphtheria
166. infectious mononucleosis
167. candidiasis
168. whooping cough
169. ntestinal bacterial infections
170. intestinal viral infections
171. measles
172. tick-borne viral encephalitis
173. rubella
174. eptospirosis
175. malaria
176. meningococcal infection
177. extremely dangerous viral infections
178. mutagenic infection
179. poliomyelitis
180. tetanus
181. protozoal infections
182. rickettsiosis

183. anthrax
184. hydrophobia
185. scarlet fever
186. tuberculosis of different localization
187. lyme disease
188. illness caused by human immunodeficiency virus (HIV)
189. chlamydia infections
190. cholera
191. plague

- infectious diseases transmitted mainly by sexual contact:

192. gonococcal infection
193. syphilis

XII) Diseases of the female reproductive system

pregnancy pathology:

194. multiple pregnancy
195. vomit (vomiting) of pregnant women
196. pregnancy with extragenital pathology
197. fetal distress during pregnancy
198. fetal growth retardation
199. immune conflict during pregnancy

pathology of labor and postpartum period:

200. abnormalities of labor activity
201. pelvic anomalies, including clinically narrow pelvis
202. distress of the fetus during labor
203. labor and postpartum bleeding
204. malpresentations
205. postpartum septicemia
206. injuries of the uterus and labor paths

gynecological diseases:

207. abnormal uterine bleeding
208. applexia of the ovary
209. nfertility
210. congenital malformation of female genital organs
211. benign dysplasia of the mammary glands
212. benign and precancerous tumors of female reproductive organs
213. endometriosis
214. inflammatory diseases of the female genital organs
215. malignant neoplasms of female reproductive organs
216. mastitis
217. neuroendocrine syndromes
218. breast tumors

List 3 (emergency states):

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 chemical warfare agents
10. acute psychosis
11. acute coronary syndrome
12. acute radiation and chemical lesions, including at the battlefield and emergency states
13. acute cerebral insufficiency
14. electric trauma
15. epileptic status
16. acute bleeding
17. syndrome of acute blood loss, including at the battlefield and in emergency states
18. heart stop
19. collapse
20. violation of consciousness and coma
21. renal colic
22. bilious colic
23. acute anaphylactic reactions
24. acute heart rhythm disturbances
25. cold trauma, including at the battlefield
26. thermal injury, including at the battlefield
27. convulsive syndrome
28. drowning
29. strangulation asphyxia
30. normal childbirth
31. shocks
32. snakes, insects, animals' bites
33. penetrating wounds, incl. during combat operations
34. burns, including at the battlefield
35. foreign bodies of the respiratory tract, gastrointestinal tract, ENT organs and eyes

List 4 (laboratory and instrumental studies)

1. pleural fluid test
2. ascitic fluid test
3. synovial fluid test
4. urinalysis according to Zimnitsky
5. urinalysis according to Nechyporenko
6. activity of alpha-amylase in blood and urine, fecal elastase 1
7. Proteins of blood and their fractions, C-reactive protein
8. blood glucose, glycosylated hemoglobin
9. oral glucose tolerance test
10. lipids and lipoproteins of blood and their fractions
11. hormones of blood
12. ferritin, iron and copper of blood serum
13. creatinine, urea blood and urine, rate of glomerular filtration
14. electrolytes of blood
15. aminotransferase of blood
16. total bilirubin of blood and its fractions
17. coagulogram
18. uric acid in blood
19. alkaline phosphatase of blood
20. histomorphological study of the biopsy of the lymph nodes
21. histomorphological study of the biopsy of parenchymal organs
22. histomorphological study of biopsy of mucous membranes
23. histomorphological study of muscle and skin biopsy
24. study of the internal environment of premises (indicators of microclimate, natural and artificial lighting, bacteriological and chemical pollution of air).
25. study of the function of external respiration
26. standard ECG (12 leads)
27. endoscopic examination of bronchi
28. endoscopic examination of the digestive tract
29. echocardiography and dopplerography
30. stool analysis
31. complete blood count
32. urinalysis
33. cerebrospinal fluid test
34. sternal biopsy
35. sputum analysis
36. general immunological profile of the blood
37. serological reactions in infectious diseases
38. viral diseases express-tests
39. amplification methods in infectious diseases (PCR, LMR)
40. serological reactions in autoimmune diseases
41. chemical and bacteriological studies of the human environment (atmospheric air, reservoirs, soil).
42. microbiological study of biological fluids and excretions
43. radiation measurements (sound, vibration, ionizing), individual radiometry..
44. methods of instrumental imaging of the thyroid gland
45. X-ray contrast angiography
46. methods of instrumental visualization of the abdominal cavity organs
47. methods of instrumental visualization of the chest cavity
48. methods of instrumental visualization of the genitourinary system
49. methods of instrumental visualization of the skull, spine, spinal cord, bones and joints

50. methods of instrumental visualization of the thoracic gland
51. tuberculin diagnostics
52. multi-stage fractional study of bile and pH-meter of the stomach and esophagus
53. chemical, organoleptic, bacteriological examination of food and drinking water
54. cytological examination of the cervix
55. measuring ergonomic indicators of severity and intensity of labor.

List 5 (medical manipulations):

1. to carry out an indirect heart massage
2. to perform artificial respiration
3. to conduct defibrillation by means of manual automatic defibrillator-cardioverter
4. to register the standard ECG in 12 leads
5. to temporarily stop external bleeding
6. to carry out primary surgical treatment of the wound, dressing, removing the seams, including at the battlefield
7. to put bandages, including at the battlefield
8. to introduce a nasogastric and orogastric probe
9. to carry out transport immobilization
10. to conduct the administration of medicinal substances (intravenous jet and drip, intra-bone), including at the battlefield
11. to provide peripheral venous access
12. to measure arterial pressure
13. to restore airway patency
14. to conduct catheterization of the bladder with a soft probe
15. to carry nasal tamponade
16. conduct the technique of "skin-to-skin" newborn's contact and early latching to the breast
17. to conduct a digital study of the rectum and using a rectal mirror
18. to carry out a digital study of the prostate
19. to carry out a clinical examination of the mammary glands
20. to perform pleural puncture
21. to determine the blood group, Rh-affiliation
22. to transfuse blood components and blood substitutes
23. to conduct bimanual research and examination of a woman in mirrors
24. to conduct a pelviometry;
25. to perform the external (Leopold manipulations) and internal obstetric examination
26. to carry out auscultation of the fetus
27. to take smears for bacterioscopy, bacteriological and cytological study.

Appendix

Elective courses

Year of study (course)	Назва курсів за вибором
I	1. Introduction to Psychology. 2. Introduction to Pedagogics. 3. Theory and Practice of Professional Verbal Communication. 4. Speech Culture. 5. World Civilization. 6. Local History, Geography and Culture. 7. European Standard of Computeracy. 8. Psychology of Communication. 9. Esthetics. 10. Ethics. 11. Current Problems of Molecular Biology. 12. Sociology and Medical Sociology. 13. Law. 14. Religious Studies. 15. Cultural Studies. 16. Introduction to Economic Theories.
II	1. European Standard of Computeracy. 2. Logic, Formal Logic. 3. Deontology in Medicine. 4. Physical Training and Health. 5. Current Problems of Biophysics. 6 Foreign Language (second). 7. Introduction to Patent Science.

III	1. Modern Methods of Genetic Diagnosis. 2. Theory of Cognition and Medicine. 3. Ethical Problems in Medicine. 4. Introduction to Social Psychology. 5. Nutritiology. 6. Side Effects of Drugs. 7. Physical Training and Health. 8. Foreign Language (the second). 9. Foreign language for Professional Use).10. Medicine and Art. 11. Introduction to Christian Ethics.
IV	1. Clinical Physiology. 2. Clinical Biochemistry. 3. Introduction to Homeopathy. 4. Phytotherapy. 5. Essentials of Prevention of Smoking, Alcoholism, Substance Abuse and Addiction. 6. Introduction to Psychoanalysis. 7. Physical Training and Health. 8. Medical Subculture. 9. Current Problems of Physiotherapy, Balneology and Rehabilitation. 10. Foreign Language for Professional Use). 11. The Methodology of Evidence-Based Medicine. 12. Introduction to Christian Ethics.
V	1. Vascular Surgery. 2. Physical Training and Health. 3. Foreign Language for Professional Use. 4. Age Aspects of Pharmacotherapy. 5. Introduction to Sexology and Sexual Pathology. 6. Introduction to Reflexology. 7. Introduction to Gerontology and Geriatrics. 8. Instrumental Methods of Functional Diagnostics. 9. Current Issues of Rheumatology. 10. Current Issues of Gastroenterology. 11. Current Issues of Pulmonology. 12. Current Problems of Neurology. 13. Current Problems of Clinical Pathology. 14. Endoscopic Technology in Obstetrics and Gynecology. 15. Introduction to Christian Ethics.
VI	1. Organizational Foundations of Family Medicine. 2. Introduction to Transplantology. 3. Clinical Parasitology and Tropical Medicine. 4. Current Issues of HIV Infection. 5. Management and Marketing in Public Health. 6. Emergency Medicine. 7. Plastic and Reconstructive Surgery. 8. Current Issues of Cardiac Surgery. 9. Organizational Principles of Palliative and Hospice Medicine. 10. Current Issues of Neurosurgery. 11. Current Issues of Hematology and Transfusion. 12. Current Issues of Cardiology. 13. Current Issues of Nephrology. 14. Current Issues of Clinical Immunology and Allergology. 15. Clinical Aspects of Immunization. 16. Medical Aspects of Bioethics and Biosafety. 17. Physical Training and Health. 18. Current Issues of Cerebrovascular Pathology. 19. Evidence-Based Medicine. 20. Foreign Language for Professional Use. 21. Endoscopic Technology in Medicine. 22. Introduction to Christian Ethics. 23. Medical Rehabilitation.

Guarantor of the program

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