

**EDUCATIONAL AND PROFESSIONAL PROGRAM
"MEDICINE"**

Second level of higher education
Specialty 222 Medicine
Branch of knowledge 22 Health Care
Qualification: Physician



APPROVED BY ACADEMIC COUNCIL

Head of Academic Council

_____/Prof.M. Korda

(Minutes No18 on May 31, 2016)

Implementation date of Educational Program

from September 1, 2016

Rector _____/Prof. M. Korda

(Order No _____ on " " _____ 20__.)

AGREEMENT LETTER
of educational and professional program

“MEDICINE”

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Rector



M. M. Korda

Vice-rector for
Scientific and Pedagogical Work



A. H. Shulhai

Dean of Medical Faculty



H. A. Krytska

PREFACE

Work group:

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3. Bedeniuk Anatolii Dmytrovych – M.D., Prof., Head of Surgery, Urology, Minor-invasive Surgery and Neurosurgery Department No1, named after Professor L.Ya.Kovalchuk SHEI « I.Ya.Horbachevsky Ternopil State Medical University Ministry of Health Care of Ukraine ».
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5. Zahrychuk Hryhorii Yaroslavovych – PhD in Chemical Sciences, Associate Professor, Head of General Chemistry Department SHEI « I.Ya.Horbachevsky Ternopil State Medical University Ministry of Health Care of Ukraine ».
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7. Drach Ihor Dmytrovych –PhD in Philological Sciences, Associate Professor of Ukrainian Language Department SHEI « I.Ya.Horbachevsky Ternopil State Medical University Ministry of Health Care of Ukraine», Vice-dean of Medical Faculty.

Review:

**Program profile on specialty 222 «Medicine»
(specialization «Medicine», Master's degree)**

1 – General Information	
Full name of higher educational institution and department	State Higher Educational Institution “I.Ya.Horbachevsky Ternopil State Medical University Ministry of Health Care of Ukraine” Faculty of Medicine
Level of higher education and name of qualification on source language	Second (Master's) degree Master's degree in Medicine
Official name of educational program	Medicine
Diploma type and scope of educational program	Master's Diploma, unitary, 360 credits ECTS, study duration - 6 years. Scope of Master's educational program: • General Certificate of Secondary Education – 360 credits ECTS Junior Specialist Diploma and Junior Bachelor's Diploma– 300 credits ECTS • 75% (minimum) of educational program must be focused on developing general and professional competences on specialty, approved by Higher Education Standard
Certificate of Accreditation	- Ministry of Education and Science - National Agency on quality assurance of higher education - Ukraine - Non-accredited
Cycle/ Level	FQ – EHEA –second cycle, QF-LLL – 7level, HPK Ukraine– 7 level
Precondition	General Certificate of Secondary Education (on basis of Independent Testing Certificates/ or entrance examinations), Certificate of Junior Specialist, Certificate of Junior Bachelor Degree or an applicant of the first year at magistracy of medical specialization. Admission requirements are determined by Rules of admission to SHEI « I.Ya.Horbachevsky Ternopil State Medical University Ministry of Health Care of Ukraine ».
Language(s) of teaching	Ukrainian, English
Duration of educational program	September 1, 2016 – June 30, 2022
Internet-address of	http://www.tdmu.edu.ua/wp-

educational program entry	<u>content/uploads/2016/10</u>
2 – Aim of educational program	
<p>Developing abilities of applying gained knowledge, habits, skills, competences in general and professional training, for solution typical tasks of physician's practical activity in the field of health care, according to appointed position; the scope of applying these competences is determined be the list of diseases syndromes and symptoms, urgent conditions, physiological states and diseases that require special patients' management; questions of forensic medicine, military and occupational medicine.</p>	
3 –Description of educational program	
<p>Subject area (branch of knowledge, specialty)</p>	<p>Specialty 22Medicine, branch of knowledge 22 Health Care, multidisciplinary.General subjects – 19%, professional training subjects – 53%, elective subjects – 25%, practical training – 3%.</p> <p>Functioning object – health care of the population; prevention, diagnostic and patients' treatment.</p> <p>Training goals – the ability of applying gained knowledge, habits, skills, competences in general and professional training for solution typical tasks of physician's practical activity in the field of health care, according to appointed position;the scope of applying these competences is determined be the list of diseases syndromes and symptoms, urgent conditions, physiological states and diseases that require special patients' management; laboratory and instrumental studies, medical manipulations; questions of forensic, military and occupational medicine.</p> <p>Theoretical content of subject area: Comprises training normative and elective subjects of general and professional training cycles.</p> <p>Methods, methodology and technologies: Professional knowledge and skills concerning diagnosis, determination of key symptoms and syndromes, provisional diagnosis, performing differential diagnosis; learning main principles of treatment and prevention, using and learning administration technologies, organization health care management.</p> <p>Instruments and Equipment (facilities / items, apparatus and devices, learned by applicants of higher education to use): widely used up-to-date diagnostic, medical and other devices, items, apparatus for professional experience.</p>
<p>Guidance of</p>	<p>Program is professional and applied, directed toward</p>

educational program	research activities including enormous communicative and interpersonal skills.
Principal focus of educational program	General program in the field of medicine is directed toward establishing individual educational progress “Life- long education” and specialization ability in the 6-year of study. Complete higher medical education.
Program characteristics	Program provides for theoretical, practical and research training, full-time students; internship is obligatory , after studies completion. Mobility is possible according to international exchange programs. Program is taught in Ukrainian, English and Russian.
4 – Graduates’ employment capability and further training	
Employment capability	<p>Qualification “Physician of a certain field” is given after training at internship, residency and clinical studies. He(she) is capable of performing professional skills on ДК 003-95 and hold a primary position according to current list of medical specialties.</p> <p>Unit 2 Professionals Subunit 22 Professionals in life and medical sciences. Class 222 Professionals in the field of medicine (except registered nurse) Subclass 2221 Professionals in the field of medical care (except dentists) Group 2221.2 Physicians Subclass 2225 Professionals in medical prophylaxis. 2225.2 Physicians, specialists in medical prophylaxis 2229.2 Professionals in the field of medicine(except nursing and obstetrics)</p> <p style="text-align: center;">Name of the occupation</p> <p>2221.2 Physician 2229.2 Physician on physical therapy and sports medicine 2221.2 Radiotherapist 2221.2 Physician on radionuclide diagnostic 2221.2 General Practitioner- Family Doctor 2221.2 Physician on emergency medicine 2221.2 Obstetrician-gynecologist 2221.2 Anesthesiologist 2225.2 Virologist 2221.2 Geneticist 2221.2 Dermatovenerologist 2221.2 Infectiologist 2229.2 Laboratory doctor 2229.2 Laboratory doctor on genetics 2221.2 Neuropathologist 2221.2 Neurosurgeon 2221.2 Oncologist 2221.2 Orthopedist-traumatologist</p>

	<p>2221.2 Otolaryngologist 2221.2 Ophthalmologist 2212.2 Pathologist 2225.2 Profpathologist 2221.2 Psychiatrist 2221.2 Narcologist 2221.2 Psychotherapist 2221.2 Radiologist 2229.2 Medical assessor 2221.2 General practitioner 2221.2 Local GP 2221.2 General Practitioner on adolescents 2221.2 General Practitioner of sectorial health care area 2221.2 Urologist 2229.2 Physiotherapist 2221.2 Phthisiatrician (TB doctor) 2221.2 Surgeon 2221.2 Pediatrician 2221.2 Local pediatrician 2221.2 Pediatrician- neurologist 2221.2 Neonatologist 2221.2 Physician on hygiene of children and adolescents 2221.2 Physician on occupation hygiene 2221.2 Physician on nutrition hygiene 2221.2 Physician on general hygiene 2221.2 Physician on communal hygiene 2221.2 Physician on radiation hygiene 2221.2 Physician on disinfection 2221.2 Epidemiologist 2221.2 Laboratory doctor and hygienist on exploration of environmental chemical agents 2221.2 Physician-methodologist 2229.2 Physician-statistician</p>
<p>Further education</p>	<p>The specialist is trained to work according to ДК 009-2010: Section Q. Health care and social assistance Chapter 86.1. Hospitals functioning Group 86.10 Hospitals functioning Class 86.21 General medical practice Class 86.90 Other health care facilities functioning After completing Master's degree program in speciality "Medicine", a specialist is able to perform the duties of: Intern-doctor (code КПІ – 3229); trainee-doctor (code КПІ – 3221); resident doctor (code КПІ – XXX).</p> <p>A specialist must apply for postgraduate programs (internship, residency) where training is provided in different fields of medicine (the list is approved by the Order of the Ministry of Health of Ukraine on February 23, 2005, No. 81), and may also apply for a Ph.D. program.</p> <p>Subsequently, specialists can undergo retraining and obtain qualification in another medical specialty and perform appropriate professional work.</p>

5 – Teaching and assessment	
Teaching and learning	Competent, student-centred, problem-oriented approaches and initiative self-study. Teaching process is carried out in the following forms: interactive scientific and instructive lectures, practical classes in small groups, independent work, consultations with teachers, writing of case reports, educational and medical practical trainings.
Assessment	<p>Assessment of student's academic achievements is carried out on the basis of mutually agreed 12-point scale (10-12 – “excellent”, 7-9 – “good”, 4-6 – “satisfactory”, 1-3 – “unsatisfactory”) and verbal (“pass”, “not passed”) systems, scale of an educational institution (from 0 to 200 points), national scale ECTS (A, B, C, D, E, FX, F).</p> <p>Current survey, knowledge testing, reports on practical work, practical skills, presentations, reports on practice, control works, writing of medical records, writing scientific articles based on research results.</p> <p>Final control – credits, differentiated credits, oral and written examinations, licensed examination KPOK 1; Final certification – licensed examination KPOK 2 Medicine, practical-oriented state examination.</p>
6 – Program competences	
Integral competence	Ability to solve typical and complex specialized 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.
General competences (GC)	<p>GC 1. Ability of abstract thinking, analysis and synthesis, the ability to learn and master modern knowledge.</p> <p>GC 2. Ability to apply knowledge in practical situations.</p> <p>GC 3. Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>GC 4. Ability to adapt and act in a new situation.</p> <p>GC 5. Ability to make informed decisions; work in a team; interpersonal skills.</p> <p>GC 6. Ability to communicate in the official language both orally and in writing. Ability to communicate in a foreign language.</p> <p>GC 7. Skills of using the information and communication technologies.</p> <p>GC 8. Determination and persistence concerning the</p>

	<p>tasks and responsibilities assumed.</p> <p>GC 9. Ability to act socially and consciously.</p> <p>GC 10. Desire to save the environment.</p>
<p>Professional competences (PC)</p>	<p>PC 1. Patient's interviewing skills.</p> <p>PC 2. Ability to determine the required list of laboratory and instrumental studies and evaluate their results.</p> <p>PC 3. Ability to establish a preliminary and clinical diagnosis of the disease.</p> <p>PC 4. Ability to determine the necessary mode of work and rest in the treatment of diseases.</p> <p>PC 5. Ability to determine the mode of nutrition in the treatment of diseases.</p> <p>PC 6. Ability to determine the principles and nature of the treatment of diseases.</p> <p>PC 7. Ability to diagnose emergency conditions.</p> <p>PC 9. Ability to determine tactics of providing emergency medical care.</p> <p>PC 10. Skills of providing emergency medical care.</p> <p>PC 11. Ability to conduct medical and evacuation measures.</p> <p>PC 12. Skills of performing medical manipulations.</p> <p>PC 13. Ability to determine the tactics of physiological pregnancy, physiological birth and postpartum period. Consultancy on family planning and contraception method selection.</p> <p>PC 14. Ability to conduct sanitary, hygienic and preventive measures.</p> <p>PC 15. Ability to plan and conduct preventive and anti-epidemic measures on infectious diseases.</p> <p>PC 15. Ability to determine the tactics of conducting persons subject to dispensary supervision.</p> <p>PC 16. Ability to conduct examination of disability.</p> <p>PC 17. Ability to conduct medical documentation.</p> <p>PC 18. Ability to carry out epidemiological and medical-statistical research of public health; processing of state, social, economic and medical information.</p> <p>PC 19. Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population.</p> <p>PC 20. The ability to conduct the analysis of the activities of a doctor, hospital department, health care institution, taking measures to ensure the quality of medical care and increase the efficiency of the use of medical resources.</p> <p>PC 21. Ability to carry out measures on organization and</p>

integration of providing medical care to the population and marketing of medical services.

7 – Program learning outcomes

PLO 1. To collect data on patient complaints, medical history, life anamnesis.

PLO 2. To estimate information on the diagnosis using a standard procedure based on the results of laboratory and instrumental studies (according to list 4).

PLO 3. To single out a leading clinical symptom or syndrome (according to list 1). To establish the most probable or syndromic diagnosis of the disease (according to list 2). To assign a laboratory and / or instrumental examination of the patient (according to list 4). To carry out differential diagnostics of diseases (according to list 2). To establish a preliminary clinical diagnosis (according to list 2).

PLO 4. To determine the necessary mode of work and rest in the treatment of the disease (according to list 2).

PLO 5. To determine the necessary medical nutrition in the treatment of the disease (according to list 2).

PLO 6. To determine the principles and nature of treatment (conservative, operative) of the disease (according to list 2).

PLO 7. To establish a diagnosis (according to the list 3).

PLO 8. To determine the tactics of emergency medical care on the basis of a diagnosis of emergency condition (according to list 3).

PLO 9. To provide emergency medical care on the basis of emergency diagnosis (according to list 3).

PLO 10. To organize medical and evacuation measures among the population and military personnel taking into account the existing system of treatment and evacuation support.

PLO 11. To determine the tactics of conducting physiological births and maintaining the postpartum period.

PLO 12. To form dispensary groups of patients and groups of healthy people subject to dispensary supervision among the fixed contingent of population. 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. To organize conduction of the secondary and tertiary

prevention measures among the population of the assigned contingent.

PLO 13. To plan activities in order to prevent the spread of infectious diseases (according to list 2). To conduct detection and early diagnosis of infectious diseases (according to list 2); primary antiepidemic measures in the cell of infectious disease. To identify risk groups, risk areas, time of risk, risk factors and carry out an epidemiological analysis of the infectious disease of the population.

PLO 14. To define the tactics of examination and secondary prevention of patients subject to dispensary supervision; the tactics of examination and primary prevention of healthy persons subject to dispensary supervision; to calculate and prescribe the necessary diet for children of the first year of life.

PLO 15. To determine the presence and degree of limitation of vital activity, type, degree and duration of disability with the registration of relevant documents.

PLO 16. To prepare an annual report on personal production activities; maintain medical records regarding the patient and the contingent of the population.

PLO 17. To conduct screening for the most important non-infectious diseases; to evaluate the indicators of morbidity, integral indicators of health; to identify risk factors for the occurrence and course of diseases; to form groups of risk patient population. To determine the source and / or location of the required information depending on its type; receive the necessary information from a specific source; process and analyse the information received.

PLO 18. To identify negative environmental factors; to analyse the health of a certain patient groups; determine the connection between the state of the environment and the health status of patient groups; to develop preventive measures based on data on the relationship between the state of the environment and the health status of patient groups. To analyse population morbidity by identifying risk groups, risk areas, time of risk, risk factors. To conduct an assessment of the impact of socio-economic and biological determinants on the health of the individual, family, and population.

PLO 19. To identify negative environmental factors; to analyse the health of a certain patient group; determine

the connection between the state of the environment and the health status of a patient group; to develop preventive measures based on data on the relationship between the state of the environment and the health status of a patient group. To analyse population morbidity by identifying risk groups, risk areas, time of risk, risk factors. To conduct an assessment of the impact of socio-economic and biological determinants on the health of the individual, family, and population.

PLO 20. To study the volume and effectiveness of the activity of a doctor, a unit, a health care institution; to identify the defects of activity and the reasons for their formation. To conduct selection and use of unified clinical protocols for the provision of medical care based on evidence-based medicine; to develop and use local protocols for providing medical care. To carry out quality control of medical services; to identify factors that impede the improvement of the quality and safety of health care. To assess the cost of health services; to substantiate the choice of the adequate method of financing (payment) and the choice of rational forms of organization of providing medical services. To apply methods of economic analysis when choosing methods for diagnosis, prevention, treatment, rehabilitation.

PLO 21. To organize the work of medical personnel; to form rational medical routes for patients; to organize interaction with colleagues, organizations and institutions; to apply health promotion methods.

PLO 22. To set goals and define the structure of personal activity.

PLO 23. To follow a healthy lifestyle, use self-regulation and self-control techniques.

PLO 24. To be aware of one's civil rights, freedoms and responsibilities and follow them, to raise the general educational cultural level.

PLO 25. To adhere to the requirements of ethics, bioethics and deontology in their professional activities.

PLO 26. To organize the necessary level of individual safety (one's own and persons cared for) in case of the occurrence of typical hazardous situations in the individual field of activity.

PLO 27. To perform medical manipulations (according to list 5).

8 – Resourcing the implementation of programs

Staffing	<p>All science-pedagogical staff involved in the implementation of the educational component of educational program must have a proven level of scientific and professional activity, they must be full-time staff members of I. Horbachevsky Ternopil State Medical University of the Public Health of Ukraine, the staff of the clinical departments must be practitioners.</p> <p>The teaching of subjects for the educational program Medical Care is provided by 410 scientific-pedagogical staff members of the medical faculty and includes 1 academican of NAMS of Ukraine; 1 Honorary Inventor of Ukraine; 8 Honorary Workers of Science and Technology of Ukraine; 2 Laureates of the State Prize of Ukraine; 1 Honorary Worker of Education of Ukraine; 1 Honorary Worker of Health of Ukraine; 3 Honorary Workers of Higher School; 1 Honorary Doctor of Ukraine; 63 Doctors of Sciences, professors; 13 Doctors of Sciences, associate professors; 176 Candidates of Sciences, senior lecturers, assistants; 24 assistants without scientific degree and scientific-pedagogical staff of other faculties of I. Horbachevsky Ternopil State Medical University Of the Public Health of Ukraine.</p>
Logistics	<p>At student disposal, there are educational rooms and lecture halls with computer workstations and multimedia equipment and other technical means for education; clinical base for practice for the higher education students along with existing agreements for practice in hospitals; patient base, specific mannequins and dummies.</p> <p>Training facilities of structural subdivisions of the Medical Faculty allow to organize and conduct classes in all academic disciplines at the proper scientific and methodological level. Different multimedia devices and computer equipment are used for lectures and practical sessions. Auditories are equipped with the necessary instruments and equipment along with computer classes.</p> <p>The university established and equipped an Interdepartmental training center for the implementation of all practical skills and work with fake patients.</p>
Information and	There is a proper educational and methodological support

methodological support	<p>(facilities) for academic subjects. It contains resource materials for seminars, practical classes, laboratory practical work; resource materials for student's independent studies; individual tasks with the focus on practice; methodological materials for thesis writing and student practices; tasks for assessment (examination papers, test tasks, modular tasks, complex exams, and tests); modern information sources and computer equipment; library with contemporary educational literature, academic, scientific, reference and professional periodicals.</p> <p>The official university's website http://www.tdmu.edu.ua contains information about educational programs; educational, scientific and disciplinary activities; structural subdivision; rules of admission; contacts.</p> <p>TSMU library collection contains more than 389669 items. All library resources can be found on the university's website.</p>
9 – Academic mobility	
National credit mobility	Recognition of learning results in other educational institutions in the framework of academic mobility in accordance with TSMU agreements
International credit mobility	The conduct of international mobility within the programme Erasmus ⁺ and Erasmus Mundus Medea
Training of foreign applicants for higher education	Training of foreign students is conducted in accordance with the requirements of the legislation

2. The list of the components of the educational-professional programme and their logical sequence

1.1 The list of EP components

Code n/a	Components of educational programs (subjects, course projects (works), practice, qualifying work)	Number of credits	Type of final assessment
1	2	3	4
Mandatory components of EP			
The cycle of general training subjects			
MC 1.	Business Ukrainian Language	3,00	Graded

			credit
MC 2.	Philosophy	3,00	Graded credit
MC 3.	Business Ukrainian Language	6,00	Graded credit
MC 4.	Latin Language with medical terminology	3,00	Graded credit
MC 5.	Biological and Bioorganic Chemistry	9,50	Exam
MC 6.	Human Anatomy	14,50	Exam
MC 7.	Histology with Cytology and Embryology	11,50	Exam
MC 8.	Physiology	10,00	Exam
MC 9.	Microbiology, Virology and Immunology	8,50	Exam
The cycle of professional training subjects			
MC 10.	Pathomorphology	7,00	Exam
MC 11.	Pathophysiology	7,00	Exam
MC 12.	Pharmacology	7,00	Exam
MC 13.	Hygiene and Ecology	9,00	Graded credit
MC 14.	Internal Medicine Propaedeutics	6,00	Graded credit
MC 15.	Paediatrics Propaedeutics	5,00	Graded credit
MC 16.	Clinical Anatomy and Operative Surgery	3,00	Graded credit
MC 17.	General Surgery	6,00	Graded credit
MC 18.	Internal Medicine including Clinical Pharmacology, Clinical Immunology and Allergology, Occupational Diseases	10,00	Exam
MC 19.	Internal Medicine including Endocrinology, Medical Genetics	8,00	Exam
MC 20.	Internal Medicine	14,50	Graded credit
MC 21.	Paediatrics with Children's Infectious Diseases	20,00	Exam
MC 22.	Surgery including Paediatric Surgery, Neurosurgery	22,00	Exam
MC 23.	Obstetrics and Gynaecology	11,50	Exam
MC 24.	Social Medicine, Public Health	9,00	Graded credit
MC 25.	Neurology	4,00	Exam
MC 26.	Medical psychology	3,00	Credit
MC 27.	Psychiatry, Narcology	3,00	Graded credit
MC 28.	Dermatology, Venereology	3,00	Credit
MC 29.	Physical Rehabilitation, Sports Medicine	3,00	Credit

MC 30.	Forensic Medicine. Medical Law of Ukraine	3,00	Graded credit
MC 31.	Infectious Diseases	6,50	Graded credit
MC 32.	Epidemiology and Principles of Evidence-Based Medicine	3,00	Credit
MC 33.	Oncology and Radiation Medicine	4,00	Graded credit
MC 34.	Traumatology and Orthopaedics	3,00	Graded credit
MC 35.	Anaesthesiology and Intensive therapy	3,00	Graded credit
MC 36.	Urgent and Emergency Medical Care	3,00	Credit
MC 37.	General Practice (Family Medicine)	4,50	Graded credit
The total volume of mandatory components:		260,00	
Optional components of EP			
The cycle of general training subjects			
OC 1.	History of Ukraine and Ukrainian Culture	3,00	Credit
OC 2.	Foreign Language	3,00	Credit
OC 3.	Medical Physics of Diagnostic and Therapeutic equipment	4,00	Graded credit
OC 4.	Medical Informatics	3,50	Credit
OC 5.	Medical Biology	5,50	Exam
OC 6.	Medical Chemistry	4,00	Exam
OC 7.	Life Safety; Basics of Bioethics and Biosafety	3,00	Credit
OC 8.	History of Medicine	3,00	Credit
OC 9.	Physical Education		Credit
OC 10.	Ethical Problems in Medicine	4,00	Credit
OC 11.	Fundamentals of Economic Theories		Credit
OC 12.	Fundamentals of Christian Ethics and Morality		Credit
OC 13.	Fundamentals of Psychology. Fundamentals of Pedagogy		Credit
The cycle of professional training subjects			
OC 14.	Clinical biochemistry	3,00	Credit
OC 15.	Job Safety	3,00	Credit
OC 16.	Patient Care (practice)	5,00	Graded credit
OC 17.	Nursing practice	3,00	Graded credit
OC 18.	Phthysiology	3,00	Credit
OC 19.	Urology	3,00	Graded credit
OC 20.	Otorhinolaryngology	3,00	Graded

			credit
OC 21.	Ophthalmology	3,00	Graded credit
OC 22.	Radiology	4,00	Credit
OC 23.	Palliative and Hospice Medicine	3,00	Credit
OC 24.	Endoscopy	3,00	Credit
OC 25.	Preparation of officers for the reserve of the field of knowledge "Health Care". Specialty "Medicine"	10,00	Graded credit
OC 26.	Topical issues of rehabilitation and professional orientation of the disabled person	4,00	Credit
OC 27.	Military Field Surgery	3,00	Credit
OC 28.	Children's Traumatology	4,00	Credit
OC 29.	Clinical Laboratory Diagnostics		Credit
OC 30.	Children's Orthopaedics		Credit
OC 31.	Cryopreservation of tissues		Credit
OC 32.	Medical Rehabilitation		Credit
OC 33.	Functional Diagnostics		Credit
The total volume of non-mandatory components:		90,00	
MC 38.	Medical internship	10,00	Graded credit
THE TOTAL VOLUME OF THE EDUCATIONAL PROGRAMME		360,00	

2.2. Structural-logical scheme

Schedule for studying the components of EPP «Medicine»

Code n/a	Components of educational programs (subjects, course projects (works), practice, qualifying work)
I semester	
MC 1.	Business Ukrainian Language
MC 6.	Human Anatomy
OC 1.	History of Ukraine and Ukrainian Culture
OC 2.	Foreign language
OC 5.	Medical Biology
OC 6.	Medical Chemistry
OC 10.	Ethical Problems in Medicine
OC 11.	Fundamentals of Economic Theories
OC 12.	Fundamentals of Christian Ethics and Morality
OC 13.	Fundamentals of Psychology. Fundamentals of Pedagogy
II semester	
MC 2.	Philosophy
MC 4.	Latin Language with medical terminology
MC 5.	Biological and Bioorganic Chemistry
MC 6.	Human Anatomy
MC 7.	Histology with Cytology and Embryology
OC 1.	History of Ukraine and Ukrainian Culture
OC 2.	Foreign Language
OC 3.	Medical Physics of Diagnostic and Therapeutic equipment
OC 5.	Medical Biology
OC 7.	Life Safety, Basics of Bioethics and Biosafety
OC 8.	History of Medicine
OC 9.	Physical Education
III semester	
MC 5.	Biological and Bioorganic Chemistry
MC 6.	Human Anatomy
MC 7.	Histology with Cytology and Embryology
MC 8.	Physiology
OC 4.	Medical Informatics
OC 15.	Job Safety
IV semester	
MC 3.	Professional Foreign Language
MC 5.	Biological and Bioorganic Chemistry
MC 8.	Physiology
MC. 9.	Microbiology, Virology and Immunology

MC 13.	Hygiene and Ecology
MC 16.	Clinical Anatomy and Operative Surgery
OC 4.	Medical Informatics
OC 9.	Physical Education
OC 16.	Patient Care (practice)
OC 25.	Preparation of officers for the reserve of the field of knowledge "Health Care". Specialty "Medicine"
V semester	
MC. 9.	Microbiology, Virology and Immunology
MC 10.	Pathomorphology
MC 11.	Pathophysiology
MC 12.	Pharmacology
MC 13.	Hygiene and Ecology
MC 14.	Internal Medicine Propedeutics
MC 15.	Pediatrics Propedeutics
MC 17.	General Surgery
OC 22.	Radiology
VI semester	
MC 10.	Pathomorphology
MC 11.	Pathophysiology
MC 12.	Pharmacology
MC 14.	Internal Medicine Propedeutics
MC 15.	Pediatrics Propedeutics
MC 17.	General Surgery
MC 24.	Social Medicine, Public Health
OC 14.	Clinical biochemistry
OC 17.	Nursing practice
OC 22.	Radiology
OC 26.	Topical issues of rehabilitation and professional orientation of the disabled person
OC 29.	Clinical Laboratory Diagnostics
OC 33.	Functional Diagnostics
VII semester	
MC 19.	Internal Medicine including Endocrinology, Medical Genetics
MC 24.	Social Medicine, Public Health
MC 25.	Neurology
MC 26.	Medical Psychology
MC 27.	Psychiatry, Narcology
MC 28.	Dermatology, Venereology
MC 30.	Forensic Medicine. Medical Law of Ukraine
OC 20.	Otorhinolaryngology
VIII semester	
MC 19.	Internal Medicine including Endocrinology, Medical Genetics

MC 21.	Pediatrics with Children's Infectious Diseases
MC 22.	Surgery including Pediatric Surgery, Neurosurgery
MC 23.	Obstetrics and Gynecology
MC 25.	Neurology
MC 27.	Psychiatry, Narcology
MC 29.	Physical Rehabilitation, Sports Medicine
MC 30.	Forensic Medicine. Medical Law of Ukraine
OC 19.	Urology
OC 21.	Ophthalmology
OC 24.	Endoscopy
OC 25.	Preparation of officers for the reserve of the field of knowledge "Health Care". Specialty "Medicine"
IX semester	
MC 18.	Internal Medicine including Clinical Pharmacology, Clinical Immunology and Allergology, Occupational Diseases
MC 33.	Oncology and Radiation Medicine
MC 34.	Traumatology and Orthopedics
MC 35.	Anesthesiology and Intensive therapy
MC 36.	Urgent and Emergency Medical Care
OC 18.	Phthysiology
OC 27.	Military Field Surgery
X semester	
MC 18.	Internal Medicine including Clinical Pharmacology, Clinical Immunology and Allergology, Occupational Diseases
MC 21.	Pediatrics with Children's Infectious Diseases
MC 22.	Surgery including Pediatric Surgery, Neurosurgery
MC 23.	Obstetrics and Gynecology
MC 31.	Infectious Diseases
MC 32.	Epidemiology and Principles of Evidence-Based Medicine
MC 34.	Traumatology and Orthopedics
MC 35.	Anesthesiology and Intensive therapy
OC 25.	Training of officers for the reserve of the field of knowledge "Health Care". Specialty "Medicine"
XI semester	
MC 13.	Hygiene and Ecology
MC 20.	Internal Medicine
MC 21.	Pediatrics with Children's Infectious Diseases
MC 31.	Infectious Diseases
OC 14.	Clinical biochemistry
OC 23.	Palliative and Hospice Medicine
XII semester	
MC 20.	Internal Medicine
MC 22.	Surgery including Pediatric Surgery, Neurosurgery

MC 23.	Obstetrics and Gynecology
MC 24.	Social Medicine, Public Health
MC 37.	General Practice (Family Medicine)
OC 28.	Children's Traumatology
OC 30.	Children's Orthopedics
OC 31.	Cryopreservation of tissues
OC 32.	Medical Rehabilitation

2. Form of student assessment

The assessment of graduates of the educational program "General Medicine", specialty 222 "Medicine" is carried out in the form of a single state standardized test – a licensed integrated exam and a practical test (exam).

The assessment is carried out publicly.

The licensed integrated exam consists of 2 test exams "Step 1" and "Step 2". "Step 1" covers fundamental disciplines and is taken after the full implementation of the curriculum of the 3rd year of study. "Step 2" covers clinical disciplines and is taken after the full implementation of the curriculum in the specialty "Medicine".

Practical exam is conducted in the form of qualifying examinations or a complex qualifying examination.

<p align="center">Requirements for availability of the system of internal quality assurance in higher education</p> <p align="center">(Determined in accordance with European Standards and Recommendations for Quality Assurance in Higher Education (ESG) and the Article 16 of the Law of Ukraine "On Higher Education")</p>		
1	<p><i>Principles and procedures for ensuring the quality of education</i></p>	<p>Defined and legitimized in the documents: the Law of Ukraine "On Higher Education" dated 01.07.2014 № 1556-VII, "Standards and Recommendations for Quality Assurance in European Higher Education Area" of the European Association for the Quality Assurance of Higher Education, the National Standard of Ukraine "Systems of quality management" DSTU ISO 9001:2015.</p> <p>Principles of education quality assurance:</p> <ul style="list-style-type: none"> - compliance with European and national standards of higher education; - autonomy of a higher educational institution, which is responsible for ensuring the quality of educational activities and the quality of higher education; - monitoring of quality; - a systematic approach that involves quality management at all stages of the educational process; - continuous improvement of the quality of educational process; - publicity of information at all stages of quality assurance. <p>Education quality assurance procedures:</p> <ul style="list-style-type: none"> - providing of research and educational environment; - improvement of planning of educational activities: monitoring and periodic updating of the educational program; - qualitative screening of students of master's degree level; - qualitative screening of teaching staff; - improvement of the facilities and resources, scientific and methodological bases for the implementation of the educational program; - provision of necessary resources for financing of training of students of master's degree level; - development of information systems in order to improve the management of the educational process; - ensuring the publicity of information about the activities of universities; - establishing an effective system of prevention and detection of academic plagiarism in scientific and methodological works of university staff and students of master's degree level; - creation of an effective system of corruption and bribery prevention in the educational process of universities.
2	<p><i>Monitoring and review of educational programs</i></p>	<p>The educational process at bachelor's degree level is carried out in accordance with the standard of higher education and the educational-professional program developed on its basis.</p> <p>The monitoring and review of the educational program is conducted in accordance with the provisions developed by the university.</p>

		<p>The criteria for revision of the educational program are formulated as a result of feedback from scientific and pedagogical workers, students, employers, and as a result of forecasting the development of the domain, the needs of society and the labor market.</p> <p>The indicators of modernity of the educational program are:</p> <ul style="list-style-type: none"> - updating according to the current state of a health care system; - participation of employers in the development and implementation of changes in the educational program; - positive opinions of reviewers about the educational program; - the level of satisfaction of students with the content of the educational program; - positive feedback from employers on the level of graduates' training.
3	<p><i>Prevention and Detection of Academic Plagiarism</i></p>	<ul style="list-style-type: none"> - team building at higher educational institutions that does not accept and does not allow academic dishonesty; - creating conditions for intolerance to cases of academic plagiarism; - creation of expert commissions for the discovery of academic plagiarism in scientific articles, monographs, textbooks, educational and methodical publications, dissertations, etc.; - identifying and prosecuting those responsible for academic plagiarism.

List 1 (syndromes and symptoms)

1. amenorrhea
2. anaemic syndrome
3. anuria and oligohydruria
4. arterial hypertension
5. arterial hypotension
6. chest pain
7. abdominal pain
8. pain in extremities and back pain
9. perineum pain
10. sore throat
11. vomiting
12. broncho-obstructive syndrome
13. bulbar syndrome
14. pleural effusion
15. paranoid hallucinatory syndrome
16. fever
17. hemorrhagic syndrome
18. exanthema, enanthema
19. hepatomegaly and Banti syndrome
20. headache
21. dysuria
22. dysmenorrhoea
23. dyspepsia
24. dysphagia
25. diarrhoea
26. icterus
27. breathlessness
28. asphyxia
29. constipation
30. dizziness
31. cardiomegaly
32. cough
33. intestinal obstruction
34. hemoptysis
35. lymphadenopathy
36. meningeal syndrome
37. uterine hemorrhage
38. edema syndrome
39. paresis, paralyses
40. polyuria
41. portal hypertension
42. speech disturbance (aphasia)
43. heart rhythm and cardiac conduction disorder
44. disorder of consciousness
45. skin itch
46. urinary syndrome
47. dementia syndrome
48. anhydration syndrome
49. maldigestion syndrome
50. stridor
51. articular syndrome
52. convulsions
53. weight loss
54. cyanosis
55. partial or total vision loss
56. partial or total hearing loss
57. gastrointestinal hemorrhage

List 2 (diseases)

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

1. anaemia
2. hemolytic disease of newborn
3. haemophilia
4. leukaemia
5. lymphoma
6. congenital (Bruton's disease, Wiskott-Aldrich syndrome) and acquired immunodeficiency states
7. neonatal sepsis
8. surgical sepsis
9. idiopathic thrombocytopenic purpura
10. chronic radiation damages

II) Mental and behavioural disorders:

11. bipolar affective disorder
12. acute psychosis, including delirium tremens
13. epilepsy
14. neurotic disorders
15. personality disorders
16. schizophrenia

III) Diseases of the nervous system

17. intracranial injury
18. meningitides, encephalitides
19. migraine and other types of headache
20. perinatal encephalopathy
21. disorders of the autonomic nervous system
22. disorder of cerebral circulation
23. vertebrogenic diseases of the nervous system, neuropathy and polyneuropathy
24. multiple sclerosis
25. chronic occupational injuries (hand-arm vibration syndrome, professional dyskinesia)

Eye diseases

26. blepharitis
27. acute angle closure glaucoma
28. conjunctivitis
29. intraocular foreign body
30. eye injuries
31. retinopathy

Ear, nose and throat diseases

32. laryngitis
33. otitis
34. peritonsillar abscess

35. sinusitis
36. tonsillitis

IV) Cardio-vascular diseases:

37. aortic aneurism
38. atherosclerosis
39. varicose veins of the lower extremities
40. congenital heart diseases
41. secondary arterial hypertension
42. acute magistral and peripheral arterial obstruction
43. endocarditis
44. essential and secondary arterial hypertension
45. ischemic heart disease
46. carditis
47. cardiomyopathy
48. pulmonary heart
49. acquired heart valvular disease
50. obliterating endarteritis
51. pericarditis
52. heart rhythm and cardiac conduction disorder
53. heart failure
54. cardiac and vascular injuries
55. thromboembolism of pulmonary artery
56. phlebitis, thrombophlebitis

V) Respiratory and mediastinum diseases:

57. asphyxia
58. bronchial asthma
59. bronchitis
60. bronchiectatic disease
61. bronchopulmonary dysplasia
62. congenital anomalies of respiratory system
63. respiratory failure
64. infectious-destructive pulmonary diseases
65. pulmonary insufficiency
66. mediastinitis
67. mucoviscidosis
68. pulmonary and mediastinal neoplasms
69. pleuritis
70. pneumoconiosis
71. pneumonia
72. pneumothorax
73. respiratory distress syndrome and pneumonia of newborn
74. foreign body in the respiratory tract
75. chest injuries (superficial and open)
76. chronic obstructive pulmonary disease

VI) Diseases of the digestive system:

77. rectal prolapse
78. peptic ulcer disease
79. congenital disorders of the digestive system
80. gastroesophageal reflux disease, esophagitis
81. gastritis, duodenitis
82. acute and chronic hepatitis
83. acute intestinal obstruction
84. acute and chronic appendicitis
85. acute and chronic pancreatitis
86. benign diseases of the esophagus
87. enteritis, colitis
88. inflammatory diseases of the rectum and perianal area
89. incarcerated and nonincarcerated hernia
90. neoplasms of the esophagus, stomach, colon, liver and pancreas
91. gastric and duodenal ulcers
92. peritonitis
93. hollow viscus perforation
94. hepatic insufficiency
95. malabsorption syndrome
96. pyloric stenosis
97. intraabdominal injuries (superficial and open)
98. functional gastrointestinal disorders
99. dumping syndrome
100. cholecystitis, cholangitis, gallstone disease, choledocholithiasis
101. hepatic cirrhosis
102. gastrointestinal hemorrhage

VII) Diseases of genitourinary system:

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

VIII) Diseases of skin and subcutaneous tissue:

117. allergodermatosis (dermatitis, toxidermia, eczema)
118. bacterial diseases of skin and subcutaneous tissue, pyoderma
119. pyoinflammatory diseases of fingers and hand
120. pyoinflammatory diseases in children and newborns
121. mycosis
122. burns and cold injuries
123. parasitic diseases of skin
124. psoriasis
125. blistering dermatosis
126. specific surgical infection (anaerobic clostridial and nonclostridial)

IX) Diseases of the musculoskeletal system and connective tissue:

127. ankylosing spondylitis
128. congenital and acquired disorders of the musculoskeletal system
129. acute rheumatic fever
130. dermatomyositis and polymyositis
131. neoplasms of the musculoskeletal system
132. osteoarthritis
133. osteomyelitis
134. gout
135. polytrauma
136. reactive arthritis
137. rheumatoid arthritis
138. systemic scleroderma
139. systemic lupus erythematosus
140. systemic vasculitis (periarteritis nodosa, acute vascular purpura, necrotising leucocytic vasculitis)
141. typical fractures of the bones of shoulder, forearm, hand, thigh, leg, foot
142. pelvic trauma
143. spinal injury
144. damages to large joints (hip, knee, ankle, elbow)
145. chronic rheumatic disease
146. juvenile rheumatoid arthritis

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

147. acromegaly
148. pan T-cell hyperplasia
149. hypothyroidism
150. hypotrophy, protein-calorie deficiency
151. pituitary dwarfism

- 152. diffuse toxic goiter
 - 153. iodine deficiency disorders of the thyroid gland
 - 154. diabetes insipidus
 - 155. thyroid gland neoplasms
 - 156. obesity
 - 157. adrenogenital syndrome
 - 158. rickets, spasmophilia
 - 159. hereditary metabolic diseases (phenylketonuria)
 - 160. hereditary chromosome disorders (Down's syndrome, Turner syndrome)
 - 161. thyroiditis
 - 162. thyrotoxicosis
 - 163. Cushing's syndrome
 - 164. chronic adrenal insufficiency
 - 165. diabetes mellitus
- XI) Infectious and parasitic diseases:**
- 166. bacterial food poisoning
 - 167. erysipelas
 - 168. botulism
 - 169. viral hepatitis
 - 170. chicken pox
 - 171. Congenital infections of newborns
 - 172. helminthic infection
 - 173. herpes virus diseases
 - 174. influenza and other viral respiratory infections
 - 175. diphtheria
 - 176. infectious mononucleosis
 - 177. candidiasis
 - 178. pertussis
 - 179. bacterial intestinal infections
 - 180. viral intestinal infections
 - 181. kip measles
 - 182. tick-borne viral encephalitis
 - 183. rubella
 - 184. leptospirosis
 - 185. малярія malaria
 - 186. meningococcal disease
 - 187. particularly dangerous viral infections
 - 188. parotitis
 - 189. poliomyelitis
 - 190. tetanus
 - 191. protozoiasis
 - 192. rickettsial disease
 - 193. splenic fever
 - 194. hydrophobia
 - 195. scarlet fever
 - 196. tuberculosis of different localization
 - 197. Lyme disease

- 198. HIV
 - 199. Chlamydial infections
 - 200. cholera
 - 201. plague
 - **infectious diseases transmitted mainly by sexual contact:**
 - 202. gonococcal infection
 - 203. syphilis
- XII) Diseases of the female reproductive system**
- complications of pregnancy:*
- 204. multiple fetation
 - 205. vomiting of pregnant
 - 206. pregnancy with extragenital pathology
 - 207. fetal stress during pregnancy
 - 208. intrauterine growth restriction
 - 209. immunologic havoc
 - 210. molar pregnancy
 - 211. placental presentation
 - 212. premature separation of placenta
 - 213. premature birth and prolonged pregnancy
 - 214. extrauterine pregnancy
 - 215. preeclampsia and eclampsia
 - 216. spontaneous miscarriage
- birth and postpartum period defects:*
- 217. anomalies of labor
 - 218. pelvic anomalies, including cephalopelvic disproportion
 - 219. fetal stress during labor
 - 220. postpartum haemorrhage
 - 221. malposition and fetal presentation
 - 222. postpartum fever
 - 223. uterine and birth canal trauma
- gynecological diseases:*
- 224. abnormal uterine bleeding
 - 225. ovarian apoplexy
 - 226. infertility
 - 227. congenital disorders of female genital organs
 - 228. benign mammary displasia
 - 229. benign and pre-malignant neoplasms of female genital organs
 - 230. endometriosis
 - 231. inflammatory diseases of female genital organs
 - 232. malignant neoplasms of female reproductive organs
 - 233. mastitis
 - 234. neuroendocrine syndromes
 - 235. mammary neoplasms

List 3 (medical emergencies):

1. asphyxia (including neonatal)
2. hypertensive crisis
3. acute respiratory failure
4. acute urinary retention
5. adrenal crisis
6. acute kidney injury
7. acute liver failure
8. acute heart failure
9. acute poisoning, including poisoning
10. with chemical warfare agent
11. acute psychosis
12. acute coronary syndrome
13. acute radiation and chemical damages,
14. including damages in the field and in emergencies
15. acute cerebral insufficiency
16. electric injury
17. epileptic status
18. acute bleeding
19. acute blood loss syndrome,
20. including in field conditions and in emergencies
21. cardiac arrest
22. collapse
23. impairment of consciousness and coma
24. renal colic
25. bilious colic
26. acute anaphylactic reactions
27. acute heart rhythm disorders
28. heat trauma, including in field conditions
29. cold injury, including in field conditions
30. convulsive syndrome
31. drowning
32. strangulated asphyxia
33. easy delivery
34. shocks
35. snake and animal bites, insect stings
36. penetrating injuries,
37. including during military operations
38. burns, including in field conditions
39. foreign bodies of the respiratory tract, gastrointestinal tract, ENT-organs and eyes

List 4 (laboratory and instrumental studies)

1. analysis of the pleural fluid
2. ascitic fluid analysis
3. analysis of synovial fluid
4. Zimnitsky test
5. Nechyporenko test
6. activity of alpha-amylase in blood and urine, fecal elastase 1
7. blood proteins and their fractions, C-reactive protein
8. blood glucose, glycosylated hemoglobin,
9. oral glucose tolerance test
10. lipids and lipoproteins of blood and their fractions
11. hormones of blood
12. ferritin, iron and copper of blood serum
13. creatinine, blood and urine urea, glomerular filtrate rate
14. electrolytes of blood
15. aminotransferase of blood
16. total bilirubin of blood and its fractions
17. coagulogram
18. uric acid in blood
19. лужна фосфатаза крові
20. alkaline phosphatase of blood
21. histomorphological study of the biopsy material of lymph nodes
22. histomorphological study of the biopsy material of parenchymal organs
23. histomorphological study of the biopsy material of mucous membranes
24. histomorphological study of the biopsy material of muscles and skin
25. study of the internal environment of rooms (indicators of microclimate, natural and artificial lighting, bacteriological and chemical pollution of air).
26. study of the function of external respiration
27. standard ECG (in 12 leads)
28. endoscopic examination of the bronchi
29. endoscopic examination of the digestive tract
30. echocardiography and dopplerography
31. загальний аналіз калу
32. common feces analysis
33. complete blood count
34. common urine analysis
35. common cerebrospinal fluid study
36. general analysis of the sternal punctate
37. general sputum analysis
38. general immunological profile of blood
39. serological reactions in infectious diseases
40. express tests for diagnosis of viral diseases
41. amplification methods in infectious diseases
42. serological reactions in autoimmune diseases
43. chemical and bacteriological studies of the external environment (atmospheric air, water reservoirs, soil).
44. microbiological study of biological fluids
45. radiation measurement (sound, vibration, ionizing), individual radiometry.
46. methods of instrumental visualization of thyroid gland
47. X-ray contrast angiography
48. methods of instrumental visualization of abdominal cavity organs
49. methods of instrumental visualization of the chest cavity organs
50. methods of instrumental visualization of the genitourinary system
51. methods of instrumental visualization of the skull, spine, spinal cord, bones and joints
52. methods of instrumental visualization of the mammary gland
53. tuberculinodiagnosis
54. multi-stage fractional study of bile and pH measurement of stomach and esophagus
55. chemical, organoleptic, bacteriological examination of food and drinking water
56. cervical cytology
57. measuring ergonomic indicators of work intensity

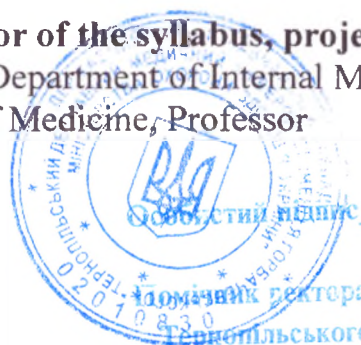
List 5 (medical procedures):

1. to give closed-chest cardiac massage
2. to do artificial lung ventilation
3. to perform defibrillation with a manual automatic cardioverter defibrillator
4. to conduct registration of standard ECG in 12 leads
5. to stop external bleeding temporarily
6. to carry out initial surgical debridement, dressing, removing the seams, including in field conditions
7. to apply bandages, including in field conditions
8. to insert nasogastric and orogastric tube
9. to carry out transport immobilization
10. to deliver medicinal substances (intravenous, intraosseous), including in field conditions
11. to provide peripheral venous access
12. to measure blood pressure
13. to restore airway patency
14. to conduct catheterization of the bladder with a soft tube
15. to carry out nasal tamponade
16. to perform the technique of contact of a newborn "skin to skin" and early breastfeeding
17. to perform a digital rectal examination and using a rectal speculum
18. to perform digital examination of the prostate
19. to carry out clinical examination of the mammary glands
20. to perform pleural puncture
21. to determine the blood group, Rh-affinity
22. to transfuse blood components and blood substitutes
23. to conduct bimanual examination
24. to conduct pelvimetry
25. to perform Leopold's maneuver
26. to perform external (Leopold's maneuver) and internal obstetric examination
27. to carry out auscultation of the fetus
28. to take swabs for bacterioscopy, bacteriological and cytological examination

Guarantor of the syllabus, project team manager:

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завіряю

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