

Description of the educational and professional program «Medicine»

Components	Description of the educational and professional program
1. General information	
Full name of higher education institution and structural unit	Poltava State Medical University Medical Faculty No 1 Medical Faculty No 2 International Faculty
Higher education degree and title of qualification in the original language	Ступінь освіти – Магістр Спеціальність – 222 Медицина Освітня кваліфікація – Магістр медицини Професійна кваліфікація – Лікар
Official name of the educational and professional program	Medicine, ID 51154
Type of diploma and scope of educational and professional program	Master's degree, single issue, 360 ECTS credits, duration of study 5 years and 10 months.
Availability of accreditation	Accredited by the the National Agency for Higher Education Quality Assurance. Certificate No2243 as of 04.10.2021. Certificate validity period until 01.07.2027
Cycle/Level	National Qualifications Framework of Ukraine – level 7; FQ – EHEA – the second cycle, QF-LLL – level 7
Prerequisites	Terms of admission are determined by the “Rules of admission to Poltava State Medical University”. A person has the right to obtain a Master's degree on the basis of complete general secondary education, subject to the successful completion of an external independent evaluation of the quality of education. Poltava State Medical University admits to the study in second year for obtaining a Master's degree in the specialty (educational program) 222 "Medicine" of persons, who have obtained the educational qualification level of a Junior Specialist, an educational and professional degree of a Professional Junior Bachelor, an educational degree of a Junior Bachelor in the specialties "General Medicine" (5.12010101), "Nursing Care" (5.12010102), "Obstetrics" (5.12010105), 223 "Nursing", competitive selection is carried out based on the results of entrance examinations. Admission / enrollment of foreigners and stateless persons is based on the results of entrance exams and on the basis of academic rights to continue studying provided with a document on the level of education obtained in the country of origin, and taking into account the eligibility scores to continue their studies at the next level of higher education in accordance with the laws of the country that issued the document on obtained level of education..
Language(s) of teaching	Ukrainian, English
Validity of the educational and professional program	6 years
Internet address of permanent placement of the description of the educational and professional program	https://en.pdmu.edu.ua/storage/basic_pages/docs/kUIDRuZxUBnAL1VAnTW0sEXWH5SLJG149DvNgENW.pdf
2. The purpose of the educational and professional program	
The educational and professional program Medicine corresponds to the mission, vision and key	

<p>values of the University and is aimed at the formation of specialized conceptual knowledge based on modern scientific achievements in the field of public health, which will provide academic training for highly professional specialists with the formation and acquisition of general and special competences of a physician for further professional activities; capable of solving complex problems in atypical situations or new environments, to research and innovation activities; conducting training with a high degree of autonomy at the next level of higher education; forms the ability to effectively operate in a globalized information society, based on their ideological and social position.</p>	
<p>3. Characteristics of the educational and professional program</p>	
<p>Subject area (field of knowledge, specialty, specialization)</p>	<p>Field of knowledge 22 "Health" Specialty 222 "Medicine"</p>
<p>Orientation of the educational and professional program</p>	<p>The educational and professional program has an applied orientation in the field of public health, prevention, diagnostics and treatment of human diseases.</p>
<p>The main focus of the educational and professional program</p>	<p>Higher education in the field of knowledge 22 "Health", specialty 222 "Medicine" Keywords: public health, medicine, higher education, Master, physician.</p>
<p>Features of the program</p>	<p>The uniqueness of the EP is determined by the combination of classical university education, which ensures the formation of a worldview, the development of thinking, unique abilities of the individual with the acquisition of full-fledged professional competencies; with practice in educational and scientific medical centers of the University; experience of surgical, cardiological and gastroenterological schools of Poltava State Medical University; with ensuring a close connection between the training of medical specialists with science, the latest technologies, clinical practice.</p> <p>Progress in the field of fundamental and applied medical research and the introduction of their results into practice necessitates to train medical specialists at the university with the use of innovative technologies as part of the EP training of medical higher education students.</p>
<p>4. Suitability of graduates for employment and further study</p>	
<p>Suitability for employment</p>	<p>A specialist is prepared to work according to the Classification of Economic Activities SC 009: 2010: Section Q. Health and Social Care Section 86. Health Group 86.1 Activities of hospitals Class 86.10 Activities of hospitals Class 86.21 General Medical Practice Class 86.90 Other health activities After completion of training in the educational and professional program of Master's degree in the specialty "Medicine", the specialist is able to perform professional work: Intern doctor (CP code – 3229); trainee doctor (CP code – 3221); resident doctor (CP code – XXX).</p>
<p>Further study</p>	<p>For further professional training in the specialty "Medicine", the specialist must enter the programs of postgraduate education – internship (primary specialization), where training in educational programs in a certain specialty is carried out according to the list approved by the Order of the Ministry of Health of Ukraine No. 81 as of 23.02.2005, and can also enter the educational and scientific program for obtaining a PhD. degree.</p>

	<p>After training in internship, a specialist is assigned a qualification of a physician who is able to perform the professional work specified in the SC 003:2010 and can hold the appropriate medical position:</p> <p>Section 2 Professionals Subsection 22 Life Sciences and Health Sciences Professionals Class 221 Professionals in life sciences and medical sciences Class 222 Professionals in medicine (except nurses). Subclass 2221 Professionals in the field of general medicine (except dentistry). Group 2221.2 Physicians. Subclass 2225 Professionals in the field of medical and preventive activities. Group 2225.2 Physicians, specialists in the field of medical and preventive activities. Group 2229.2 Professionals in the field of medicine (except nursing and obstetrics). In the future, specialists can undergo retraining and training on secondary specialization cycles, and acquire other medical specialties and perform appropriate types of professional activities. The growth of professional skills will ensure the continuous professional development of physicians on advanced training courses on the specific specialty, information and traineeship and other types of postgraduate education.</p>
5. Teaching and assessment	
Teaching and learning	<p>The main types of teaching and learning at Poltava State Medical University are: lectures, practical classes, seminars, consultations, individual classes, research activities with tutoring support of the teacher, independent extracurricular work, practical training in a hospital. Problem-oriented learning, self-study, practice-oriented learning, study through research, simulation training.</p>
Assessment	<p>Control measures for assessing the educational activities include continuous, intermediate and final control of knowledge, skills, ways of thinking of higher education students. Final control includes semester control and state attestation. Grades “Excellent”, “Good”, “Satisfactory” are given based on the results of final module control, exams, practical training in a hospital. The grade “Passed” is given based on the results of pass/fail tests. The final attestation on the educational and professional program in the specialty 222 "Medicine" is carried out in the form of the Unified State Qualification Exam (USQE). The USQE is carried out in accordance with the "Procedure for the implementation of the Unified State Qualification Exam to obtain the Master's degree in the specialties of the field of knowledge "Health" and consists of the following components:</p> <ul style="list-style-type: none"> • integrated test exam "KROK", which assesses the compliance of the quality of training of specialists with higher education standards and is carried out by the State Organization "Center for testing the professional competence of specialists with higher education in the areas of training “Medicine” and “Pharmacy” under the Ministry of Health Ukraine; • English Language for Professional Use exam, which assesses the professionally oriented English-language competence of higher education students and is conducted by the State Organization "Center

	<p>for testing the professional competence of specialists with higher education in the areas of training “Medicine” and “Pharmacy” under the Ministry of Health Ukraine;</p> <ul style="list-style-type: none"> • the Objective Structured Practical (Clinical) Exam (OSCI) that assesses the readiness of the graduate to conduct professional activities in accordance with the requirements of the higher education standard by demonstrating the practical (clinical) components of professional competence at a real object or model and is carried out by the Examination Commission of a higher education institution.
6. Program competencies	
Integral competence	The ability to solve complex problems, including research and innovation in the field of medicine. The ability to continue study with a high degree of autonomy.
General competences	<ol style="list-style-type: none"> 1. Social and legal competences: <ol style="list-style-type: none"> 1.1 awareness of equal opportunities and gender issues; 1.2 the ability to exercise their rights and obligations as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, supremacy of law, rights and freedoms of a person and citizen; 1.3 the ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding history and patterns of development of the subject area, its place in the general system of knowledge about nature and development of the society, machinery and technology, use different types and forms of motor activity for the active recreation and healthy living; 2. Prognostic competencies: <ol style="list-style-type: none"> 2.1 ability to abstract thinking, analysis and synthesis; 2.2 the ability to learn and master modern knowledge; 2.3 knowledge and understanding of the subject area and understanding of professional activity; 2.4 ability to make rational decisions; 2.5 ability to work in a team; 2.6 ability to use information and communication technologies; 2.7 ability to search, process and analyze information from various sources. 3. Communicative competences: <ol style="list-style-type: none"> 3.1 ability to interpersonal interaction; 3.2 ability to communicate in a foreign language. 4. Management competences: <ol style="list-style-type: none"> 4.1 ability to apply knowledge in practical situations; 4.2 ability to adapt and act in a new situation; 4.3 certainty and perseverance regarding the tasks and responsibilities taken.
Special (professional, subject) competencies	<ol style="list-style-type: none"> 1. The ability to collect medical information about the patient and analyze clinical data. 2. The ability to determine the required list of laboratory and instrumental studies and evaluate their findings. 3. The ability to establish a preliminary and clinical diagnosis of the disease. 4. The ability to determine the necessary mode of work and rest in the treatment and prevention of diseases. 5. The ability to determine the nature of nutrition in the treatment and prevention of diseases.

	<ol style="list-style-type: none"> 6. The ability to determine the principles and nature of treatment and prevention of diseases. 7. The ability to diagnose emergencies. 8. The ability to determine tactics and provide emergency medical care. 9. The ability to carry out medical and evacuation measures. 10. The ability to perform medical manipulations. 11. The ability to untangle medical problems in a new or unfamiliar environment in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility. 12. The ability to determine the tactics of management of physiological pregnancy, physiological labor and the postpartum period. To conduct consultations on family planning and methods of contraception 13. The ability to conduct sanitary and hygienic and preventive measures. 14. The ability to plan and carry out preventive and anti-epidemic measures for infectious diseases. 15. The ability to conduct the working capacity expertise. 16. The ability to make medical records, including electronic forms. 17. The ability to assess the impact of the environment, socio-economic, biological determinants on the health of the individual, family, population. 18. The ability to analyze the activities of a physician, unit, health care facility, ensure the quality of medical care and increase the efficiency of the use of medical resources. 19. The ability to organize and integrate the provision of medical care to the population and the marketing of medical services. 20. The ability to conduct epidemiological and medical-statistical studies of public health; processing of social, economic and medical information. 21. The ability to convey clearly the own knowledge, conclusions and arguments on health problems and related issues to specialists and non-professionals, in particular, to those who study. 22. The ability to manage healthcare processes that are complex, unpredictable and require new strategic approaches 23. The ability to develop and implement scientific and applied projects in the field of public health. 24. Compliance with ethical principles when working with patients, their relatives, laboratory animals. 25. Compliance with professional and academic integrity, responsibility for the reliability of scientific results obtained.
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7. Program learning outcomes

<ol style="list-style-type: none"> 1. Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integrating knowledge. Be responsible for professional development, the ability to further professional training with a high level of autonomy. 2. Understanding and knowledge of the fundamental and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of public health. 3. Specialized conceptual knowledge, including scientific achievements in the field of public health and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary problems. 4. Distinguish and identify major clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge on a human being, the organs and systems of the body, 	
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- establish a preliminary clinical diagnosis of the disease (according to list 2).
5. Collect complaints, history of life and disease, evaluate the psychomotor and physical development of the patient, the state of organs and systems of the body, and estimate the information on the diagnosis (according to the list 4), taking into account the age of the patient.
 6. To establish the final clinical diagnosis by making a rational decision and analyzing the obtained subjective and objective data of clinical, additional examination, differential diagnosis, adhering to the relevant ethical and legal norms, under the supervision of a physician in a health care facility (according to list 2).
 7. Prescribe and analyze additional (mandatory and optional) methods of examination (laboratory, functional and / or instrumental) (according to list 4), patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
 8. Determine the main clinical syndrome or what determines the severity of the condition of the victim (according to the list 3) by making a reasonable decision and assessing the human condition in any circumstances (in the conditions of a health care facility, outside) including in an emergency and hostilities, in the battlefield, in conditions of lack of information and limited time.
 9. Determine the nature and principles of treatment of patients (conservative, operative) with diseases (according to list 2), taking into account the age of the patient, in the conditions of the health care facility, outside and at the stages of medical evacuation, including on the battlefield, on the basis of the preliminary clinical diagnosis, adhering to the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard schemes, if it is necessary to expand the standard scheme, be able to justify personalized recommendations under the supervision of a physician in a medical facility.
 10. Determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making a rational decision on existing algorithms and standard schemes.
 11. Determine the approach, plan and tactics of management of physiological pregnancy, physiological labor and the postpartum period by making a rational decision according to existing algorithms and standard schemes.
 12. To assess the general condition of a newborn child by making a rational decision according to existing algorithms and standard schemes, adhering to the relevant ethical and legal norms.
 13. To assess and monitor the development of a baby, to provide recommendations on feeding and nutritional characteristics depending on age, to organize preventive vaccinations according to the calendar.
 14. Identify tactics and provide emergency medical care in emergency situations (according to list 3) in conditions of limited time in accordance with existing clinical protocols and standards of treatment.
 15. Organize the provision of medical care and medical and evacuation measures to the population and military personnel in emergency situations and hostilities, including on the battlefield.
 16. To form rational medical routes of patients; organize interaction with colleagues in their own and other facilities, organizations and institutions; apply tools for promoting medical services on the market, based on the analysis of the needs of the population, in the conditions of functioning of the health care facilities, its unit, in a competitive environment.
 17. Perform medical manipulations (according to the list of 5) in a medical facility, at home or at the enterprise on the basis of a preliminary clinical diagnosis and / or indicators of the patient's condition by making a rational decision, adhering to the relevant ethical and legal norms.
 18. Determine the state of functioning and limitations of the person's life and duration of disability with the execution of responsible documents, in the conditions of a health care facility on the basis of data on the disease and its course, features of human professional activity, etc. To make records in the medical documentation of the patient and contingent of the population on the basis of regulatory documents.
 19. Plan and implement a system of anti-epidemic and preventive measures for the occurrence and spread of diseases among the population.
 20. Analyze the epidemiological state and carry out activities of mass and individual, general and

- local prevention of infectious diseases.
21. To find the necessary information in the professional literature and databases of other sources, to analyze, evaluate and apply this information.
 22. Apply the state-of-the-art digital technologies, specialized software, statistical methods of data analysis to solve complex health problems.
 23. Assess the impact of the environment on human health to assess the state of morbidity of the population.
 24. Organize the required level of individual safety (own and the patients') in case of typical dangerous situations in the individual field of activity.
 25. To convey clearly and unequivocally the own knowledge, conclusions and arguments on health problems and related issues to specialists and non-professionals.
 26. Manage work processes in the field of public health, which are complex, unpredictable and require new strategic approaches, organize the work and professional development of personnel, taking into account the acquired skills of effective teamwork, leadership positions, proper quality, accessibility and fairness, ensuring the provision of integrated medical care.
 27. Freely communicate in the national and English language, both orally and in writing to discuss professional activities, research and projects. Use international Greek-Latin terms, abbreviations and clichés in professional oral and written speech.
 28. Make effective decisions on health problems, evaluate the necessary resources, take into account social, economic and ethical consequences.
 29. Plan, organize and conduct activities on specific prevention of infectious diseases, including in accordance with the National Schedule of Preventive Vaccinations, both mandatory and recommended. Manage the remnants of vaccines, organize additional vaccine campaigns, including immunoprophylaxis measures.

8. Educational environment and resources

Teaching staff	<p>Scientific and pedagogical staff of the university departments fully provide training of higher education students in the specialty 222 "Medicine" in accordance with the Licensing Conditions (Resolution of the Cabinet of Ministers of Ukraine "On Approval of Licensing Conditions for Educational Activities of Educational Institutions" as of 30.12.2015. No. 1187 as amended on 10.05.2018 No. 347). Formation of the qualitative composition of scientific and pedagogical workers takes place at the expense of scientific training in postgraduate studies and involvement in teaching activities of persons with scientific degrees and academic titles on a competitive basis by concluding contracts or academic rank, confirmed level of scientific and professional activity; 100% of scientific and pedagogical staff of the support group are full-time employees of the University. The educational process in English is carried out by teachers who have certificates confirming proficiency in English at the level of B2.</p>
Material and technical support	<p>The material and technical base of Poltava State Medical University allows to implement the educational process, scientific and medical-consultative work at the modern level in accordance with the requirements of the standard of higher education in the specialty 222 Medicine, the field of knowledge 22 Health for the second (Master's) level of higher education, curriculum and programs component of the educational and professional program. The conditions of training of higher education students in the university fully meet the hygienic requirements.</p> <p>The University has a total area of premises of 51343.9 m². On its balance there are 15 buildings, including: 5 educational buildings (total area – 23202.2 m²), four dormitories (total area – 23476.2 m²), sports and recreation complex, canteen, household buildings, vivarium, hangars, health and sports camp. All buildings have technical passports. The area</p>

	<p>of educational premises directly used in the educational process is: 21179.8 m² - educational premises located in the university buildings, 12452.45 m² - educational premises of departments located in health care facilities.</p> <p>Training of higher education students is carried out on clinical bases that have proper material and technical support that meets the requirements for healthcare institutions. In practical classes in clinics, diagnostic equipment is used: ultrasound diagnostic devices, computed tomography scanners, X-ray diagnostic devices, etc. Lecture auditoriums are 100% equipped with multimedia equipment.</p> <p>To increase the level of knowledge in the specialty and in-depth practical training, diagnostic centers have been created in the university: Educational and Consultative Diabetes Center, Educational and Practical Laboratory of Clinical Rehabilitation, Educational and Practical Center for Rehabilitation of Oncological Patients, Training and Practical Training Center for Modern Technologies of Perinatal Medicine named after N.M. Maksimovich-Ambodyk, Educational and Practical Center for General Practice - Family Medicine, Poltava Regional Antihypertensive Center, Poltava Regional Educational Scientific and Practical Center of Interventional Radiology, Educational diagnostic medical pulmonary center, Educational diagnostic and treatment center for patients with Parkinson's disease and degenerative diseases, Educational diagnostic and treatment center for patients with primary headache.</p> <p>In May 2020, a new Simulation Center was opened, equipped with modern simulators for practicing practical skills and conducting OSCI as a component of the State Attestation of Students for the Second (Master's) Level of Higher Education in the specialty 222 "Medicine". The book supply of most components of the educational program meets the licensing requirements. There is a virtual reference service, interlibrary loan. All resources and services of the library are presented on the Internet.</p> <p>The provision of students with computers during training fully complies with the standards. The local network of the university is connected to the Internet by the help of a fiber optic cable with a bandwidth of 1 GB/s of guaranteed flow.</p> <p>The material and technical base of the university for practical classes on physical education and work of sports sections is represented by 5 sports halls (2052.2 m²) and sports grounds (3608m²).</p>
<p>Information, educational and methodological support</p>	<p>Information and educational and methodological support meets the licensing conditions for conducting educational activities for the training of specialists at the second (Master's) level of higher education and includes: schedule of the educational process, curriculum, academic plan of disciplines, thematic plans of lectures, practical and seminar classes, syllabuses, criteria for assessing knowledge, lists of questions to in-class and final controls, a list of questions for exams, a list of situational and test tasks, a list of recommended teaching and methodological literature, visual and technical means of training.</p> <p>On the official website https://www.pdmu.edu.ua/ there is basic information about the activities of the university and an existing electronic resource that contains educational materials component of the educational and professional program. Distance learning of the University has been developed in connection with the introduction of video conferencing technology: the Lync 2010 software package,</p>

	TrueConf and the POLYCOM QDX-600 software and hardware complex.
9. Academic mobility	
National Credit Mobility	The right to national credit mobility is realized on the basis of the Law of Ukraine "On Higher Education" and agreements between higher education institutions (scientific institutions) of Ukraine or their main structural subdivisions.
International Credit Mobility	The right to international credit mobility is realized on the basis of international agreements on cooperation in the field of education and science, international programs and projects (Erasmus+), and can also be implemented by a participant in the educational process on his/her own initiative (on the basis of individual invitations) supported by the leadership of Poltava State Medical University.
Training of foreign higher education students	Admission to study of foreign citizens and persons without citizenship is carried out in accordance with the "Rules of admission to Poltava State Medical University".