



«АККРЕДИТЕУ ЖӘНЕ РЕЙТИНГТИҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

on the results of the work of the External Expert
Commission for assessment
for compliance with the requirements of the standards of the
International Initial Accreditation of the educational program 222
Medicine (Master's degree)
Odessa National Medical University

October 20-22, 2021

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

*Addressed to
Accreditation Council
of IAAR*



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(I) SYMBOLS AND ABBREVIATIONS

IAAR	- Independent Agency for Accreditation and Rating
EEC	- External Expert Commission
USQE	- Unified State Qualification Exam
MH of Ukraine	- Ministry of Health of Ukraine
MES of Ukraine	- Ministry of Education and Science of Ukraine
NAQAHE	- National Agency for Quality Assurance in Higher Education
EIC ITTICE	- Education-Industrial Complex of Innovative Teaching Technologies
EP	- Educational program
ONMedU	- Odessa National Medical University
OSCE	- Objective Structured Clinical Exam
CGSE	- complete general secondary education
SSS	- Student Scientific Society
TBL	- team-based learning
CBL	- case-based learning
PBL	- problem-based learning
RBL	- research-based learning
FPE	- Faculty of Postgraduate Education
COVID-19	- CORona VIRus Disease 2019
SSG	- student self-government



(II) INTRODUCTION

In accordance with the order of the Independent Agency for Accreditation and Rating (hereinafter - IAAR) No. 128-21-ОД dated September 23, 2021, the External Expert Commission evaluated the educational activities for compliance with international standards for accreditation of medical educational organizations by the IAAR abroad (based on WFME/AMSE standards).

EEC members:

The chairman of the commission – Turdalieva Botagoz Saitovna, Doctor of Medical Sciences, Chair of the IAAR Expert Council (the Republic of Kazakhstan)

Foreign IAAR Expert - Kanushina Marina Alekseevna, PhD, MBA, "AC Institute of International Education", (the Czech Republic)

Foreign IAAR Expert – Krotkova Elena Nikolaevna, Rector of the Grodno State Medical University (the Republic of Belarus)

Foreign IAAR Expert - Baskakova Irina Valentinovna, candidate of medical sciences, associate professor, Kazakh National Medical University. S.D. Asfendiyarov (the Republic of Kazakhstan)

National IAAR Expert – Georgiyants Victoria Akopovna, Doctor of Pharmacy, Professor, National Pharmaceutical University (Ukraine)

IAAR employer – Kozlov Vadim Vladislavovich, chief physician of the Harmonia Zdorovya clinic, candidate of medical sciences, associate professor, honored doctor of Ukraine, urologist, andrologist, sexologist of the highest category (Ukraine)

IAAR student – Shibovskaya Lydia Nikolaevna, 4th-year student of the educational program «222 – Medicine», International European University (Ukraine)

IAAR Observer – Saidulaeva Malika Akhyadovna, IAAR Project Manager (Nur-Sultan)

(III) REPRESENTATION OF THE EDUCATION ORGANIZATION

Odessa National Medical University (hereinafter - ONMedU) started in 1900 as a medical faculty of Novorossiyskiy University. The founders of the University were such well-known professors as V.V. Pidvysotsky, A.A. Bogomolets, D.K. Zabolotny. World-famous scientists who had experience in laboratories abroad headed the university departments. N.D. Strazhesko, F.G. Yanovsky, M.O. Yasinovskiy, V.P. Filatov, and other famous doctors and scientists directed the university clinics. In 1920, the faculty was transformed into the Medical Academy; in 1921 - into the Medical Institute (from 1954 - named after N.I. Pirogov). The institute was assigned the status of a University by the Resolution of the Cabinet of Ministers of Ukraine dated August 29, 1994. In 2010, the University was granted the status of a national university. Over the years of the existence of the University, well-known scientific and pedagogical schools, which brought the University world fame and whose successors are today the leading scientists of the University, have developed and continue to operate successfully.

The University carries out educational activities in the field of training specialists in the field of knowledge Healthcare (Resolution of the Cabinet of Ministers of Ukraine dated April 29, 2015 No. 266) in specialties 22 Medicine at two levels of higher education: the second (master's) level in specialties - 221 Dentistry, 222 Medicine, 226 Pharmacy, Industrial pharmacy; and the third (Doctor of Philosophy) level in specialties - 221 Dentistry, 222 Medicine, 226 Pharmacy, Industrial pharmacy, 228 Pediatrics; 05 Social and Behavioral Sciences in the specialty 053 Psychology at two levels of higher education: the first (bachelor's) and the second (master's). ONMedU provides pre-university training of students at the preparatory department (incl. foreign citizens), preliminary courses, and the two-year school Young Medic. ONMedU carries out postgraduate training of specialists: internship, clinical residency, postgraduate studies, doctoral studies, advanced training, specialization.

The University carries out its activities in accordance with national laws and regulations: the Constitution of Ukraine dated 28/06/1996, the Laws of Ukraine "On Education" No. 2145-VIII dated 05/09/2017, "On Higher Education" No. 1556-VII dated 01/07/2014, "On Scientific and scientific and technical activities" No. 848-VIII dated November 26, 2015 and other regulatory legal acts, as well as on

the basis of in accordance with the founding documents: the University Charter, the license issued by the Ministry of Education and Science of Ukraine dated March 30, 2021 No. 37-л for educational activities in the field of knowledge Healthcare (Resolution of the Cabinet of Ministers of Ukraine dated 29/04/2015 No. 266) in specialties 22 Medicine at two levels of higher education: the second (master's) level in specialties - 221 Dentistry, 222 Medicine, 226 Pharmacy, Industrial pharmacy; and the third (Doctor of Philosophy) level in specialties - 221 Dentistry, 222 Medicine, 226 Pharmacy, Industrial pharmacy, 228 Pediatrics. ONMedU provides pre-university training of students at the preparatory department (incl. foreign citizens), preliminary courses, and the two-year school Young Medic (the license series AB No. 617403 dated 02.03.2012). ONMedU carries out postgraduate training of specialists: internship, clinical residency, postgraduate studies, doctoral studies, advanced training, specialization.

The organizational structure is functional-hierarchical, headed by the Rector; four vice-rectors for scientific and pedagogical work are subordinate to the Rector, ensuring the quality of education, long-term development, and international work.

The educational process is carried out at six faculties and 59 departments, where about 11,000 students and interns study, including international ones. The number and dynamics of the contingent of students and different forms of education are in Standard 4.

The academic staff (AS) is represented by 1202 employees: 142 - with a Doctor of Science degree, 562 - with a PhD degree, 110 professors, 288 associate professors, 13 senior researchers, 1 academician of the NAMS of Ukraine, 3 Corresponding Members of the NAMS of Ukraine, 21 Honored Workers of Science and Technology of Ukraine, 41 Honored Doctors of Ukraine, 2 Honored Inventors of Ukraine.

The University has a modern material-technical base that meets international standards and allows for introducing the latest achievements of medical science into educational and medical practice. The University has access to local and global network resources.

Unique scientific and medical units have been formed: University clinics, Research Institute of Translational Medicine. There are medical and diagnostic centers created in conjunction with HC bodies: cardio-rheumatology, eye microsurgery, osteosynthesis, endoscopic and laser surgery, pediatric cardiology, toxicology. The publishing-and-printing complex issues university newspapers, scientific journals, textbooks, the authors of which are University scientists.

The University Library is the leading scientific, information, and educational center nowadays. It contains over 847,000 documents in different languages, part of which is the Institutional Repository (over 5,000 electronic items) and the Electronic Student Library.

The University is represented in nationally recognized rankings and has been awarded titles and awards at national and international education exhibitions.

(IV) PREVIOUS ACCREDITATION

International institutional accreditation of ONMedU in accordance with the IAAR standards is carried out for the first time.

(V) DESCRIPTION OF THE EEC VISIT

The visit of the External Expert Commission (hereinafter EEC) to ONMedU was organized October 20-22, 2021, on the basis of the visit schedule (Program) approved by the Director of NGO "IAAR" and agreed by the Rector of ONMedU.

To obtain objective information about the quality of the organization of education, the development of the university and infrastructure, and to clarify the content of the self-evaluation report, meetings were held: with the rector, vice-rectors, heads of structural divisions, the dean, heads of departments, teaching staff, students, and employers.

Based on the results of an anonymous online survey, one can notice the satisfaction of both teachers and students with the working and learning conditions at this university.

The work of the EEC was in a hybrid format; the commission got acquainted with university buildings and departments, the Central Research Laboratory, the Network Educational Center for High-

Tech Medicine, scientific and medical library, and university clinics using the provided videos. To study the documentation of the faculties of ONMedU, the commission used links.

Following the program (Appendix No. 2), the members of EEC attended classes by the approved schedule. All inspected classrooms are equipped with the necessary modern means for different courses: projectors, projection screens, Internet access, and suitable furniture. The equipment complies with the types of activities and the standards and norms specific to medical education in all disciplines of the curriculum that require laboratory classes, equipment, and facilities to achieve the set goals.

Members of the EEC met online with representatives of university clinics, the Scientific and Medical Library, the Central Research Laboratory, students, who spoke about the requirements for students, the internship course, etc. The University Clinics are the leading multidisciplinary institutions that provide all types of medical care: emergency, outpatient, inpatient, and high-tech. Therefore, they are a full-fledged clinical base for students to study and acquire necessary skills.

(VI) COMPLIANCE WITH PROGRAM ACCREDITATION STANDARDS

6.1. Standard "Mission and outcomes"

Evidence

All activities of the university are aimed at realizing its mission. The strategic goal and objectives of the mission correspond to the goals and objectives of the university. The Concept of Strategic Development of ONMedU until 2025 presents the Mission and Vision of the University defining the objectives and the program of activities in various areas: management and administration, internationalization, academic policy, research and clinical activities. The **mission** is to improve the health of the population through the continuous training of medical workers and participation in leading medical research that affects the formation of clinical knowledge and medical practice. **Vision:** the University will be recognized as a leader in medical education, research, and practice, and will play an active role in improving the lives of members of the academic community, alumni, and local, national, and international communities. The team is faced with the **task** of providing highly competitive educational, research, expert, medical and preventive services to the population of Ukraine and southern Europe. The team strives to develop the capabilities of modern society for sustainable development; is focused on international cooperation and financial stability, the creation of a highly competitive intellectual environment; is responsible for supporting and promoting the basic principles and directions of the University's work. **The main goal of the educational activities of the University** is the professional training of highly qualified medical doctors. Well-known scientific medical schools, capable of providing the present-day level of fundamental and applied scientific research, have developed at the University. Thus, the mission statement reflects all modern requirements for training medical specialists with higher professional education and a broad professional outlook, who have the necessary skills and are able to use the achievements of medicine and science in practice, introducing them into their daily activities. The official source of information about the University is the site <https://onmedu.edu.ua/>, which is open and publicly available for prompt and objective informing about the activities of the University.

The concept of the educational process in the specialty "Medicine" has been formed, the strategic goal of which is presented in the report as the mission of EP: the formation of organizational, legal, and socio-economic conditions for improving the quality of HE in the specialty by bringing its standards in line with international and national requirements of medical HE, effective use of material, technical and human resources, financial and economic resources of the University. The following objectives were set to achieve this goal: (1) formation of a favorable educational environment; (2) shifting the focus to the personality of the student-practitioner; (3) monitoring proactive clinical learning; (4) learning through practical knowledge acquisition; (5) rebuilding the trust in the medical profession. The features of educational activities in the specialty are: focus on the formation of a professionally-oriented position; introduction of international standards, algorithms, and technologies of education; development of divergent thinking and skills of its practical use; emphasis on practical training of students and a problem-oriented approach; continuous monitoring of the educational process and quality assurance of the internal HE system; the objectivity of evaluation of acquired knowledge; formation of complex clinical thinking;

practical and emotional intelligence. The principles of implementation are as follows: the continuity and interaction of processes of learning, research, and medical work; competitiveness; competence; professional standards, assessment criteria, terms and procedure for confirming the qualifications obtained by a student; scientifically grounded analysis of labor market needs and development prospects of the HC; assistance in the acquisition of professional qualifications by students; recognition of high-quality student practical training as a necessary condition for education; availability of all forms and types of educational services for students; equality of conditions; humanism, the priority of universal human values; independence of educational activities. To ensure accessibility for all stakeholders, the concepts mentioned above are freely available on the ONMedU website. To increase the accessibility of information for internal stakeholders, these concepts were provided to all structural divisions by corporate e-mail. The algorithm for the development and adoption of concepts is under the local regulations of the University. Changes and additions to the concepts, including the accredited specialty, are made as necessary. In 2020, the renewal procedure was initiated by the university leadership to update the mission, strategic goals and objectives, the structure of competencies, PLO, and the list of disciplines in their logical sequence for EP Medicine.

Stages of renewal:

1. A project group of vice-rectors, deans, heads of subject-cycle methodological commissions, and teaching staff was created; it was headed by the guarantor of the EP Marichereda V.H.

2. The project group formed the draft documents (November - December 2019), which were accordingly recorded.

3. Discussion of the draft documents. The head of the educational department, the head of the educational and methodological department, representatives of student self-government (SSG) of various faculties (Minutes No.3 20/03/2020), who submitted proposals, were invited to the working meetings of the project group. The SSG representatives were previously given access to the draft documents, which they discussed at the SSG meetings. Representatives of practical medicine were invited to the working meetings, incl. the employers (the director of the ONMedU University clinic, the head physician of Odessa maternity hospital No. 5, the medical director of the Odrex Medical House, the director of Odessa city clinical hospital No.11).

4. In March 2020, the draft documents regulating the educational process were put up for public discussion on the website, and also submitted for consideration and approval by specialized subject-cycle medical commissions.

5. After receiving proposals and additions, the project group decided to approve the final version of the documents, the list of reviewers and recommendation of approval by the Central Qualification Methodological Council of the University and the Academic Council of the University (April 2020).

6. Reviewing documents.

7. Approval by the Central Qualification Methodological Council (May 2020, Minutes No. 3, 20/05/2020), the Academic Council (June 2020, Minutes No. 11, 04/06/2020).

To achieve the mission, strategic goals, and objectives for EP Medicine, the following competencies were indicated:

- the integral competence: the ability to solve complex problems and problems in a particular area of professional activity or learning process, which involves research and/or innovation characterized by complexity and uncertain conditions and requirements;

- general competencies: GC1 - GC10 (aimed at the formation of general cultural competence);

- special (professional) competencies: SC1 - SC16 (form professional competence).

The EP also indicates program learning outcomes (PLO), which are aimed at the formation of the competencies listed above. The National Qualifications Framework (NQF) defines the requirements for graduates who have completed their studies at EP Medicine. The NQF levels of Ukraine correspond to the European Qualifications Framework and the Recommendations of the Council of Europe 15.6/2017 dated 22/05/2017 on the European Qualifications Framework for Lifelong Education, which gives the graduate access to subsequent levels of medical education in other countries of the European space. In Ukraine, the process of continuous professional development (CPD) of specialists in the field of HC is regulated by the

Resolution of the Cabinet of Ministers of Ukraine No. 302 dated 28/03/2018 “On approval of the Regulations on the CPD system of specialists in the field of HC.”

The national CPD system is aimed at ensuring the required quality of knowledge of medical professionals and at improving the quality of medical care. After completing training in a chosen specialty and passing the graduation certification procedure in the form of the Unified State Qualification Examination (USQE), graduates can perform professional activities as an intern doctor (CO code - 3229); a trainee doctor (CO code - 3221). A graduate has the right to enroll in postgraduate education programs (internship, clinical residency). Thus, the learning outcomes are connected and correspond to the mission of the educational program and the institutional mission.

ONMedU has every opportunity to conduct continuous professional development of healthcare professionals in accordance with the Resolution of the Cabinet of Ministers, dated 28/3/2018, No.302 “On approval of the Regulations on the system of continuous professional development of healthcare professionals” (criterion 1.1.6). To this end, when implementing the EP in the learning process, the University provides students with training for continuous professional development throughout their lives as a key factor in the formation of professional responsibility. ***Modern educational technologies and methods are applied*** to form the motivation for self-development for solving arising issues, critical thinking while obtaining theoretical knowledge, as well as required skills. Those are methods of problem-based learning, case studies; teacher's personal experience; purchase by the University of the latest equipment (for example, robotic endoscopic units) and training to work on them abroad. An important condition for the formation of the motivation of future graduates is the introduction of a new national model of internship, within which universities will cooperate with HC institutions to determine the list of positions for interns and develop internship programs (for example, the Department of Obstetrics and Gynecology creates an exemplary program for postgraduate education, based on EBCOG requirements).

A graduate of the program has the right to enroll in postgraduate education programs (internship, residency), where training is carried out according to the EP of a particular specialty (according to the list specified in the Order of MH of Ukraine No. 81 dated 23/02/2005). In the future, specialists can be retrained to another medical specialty and perform relevant professional activities. Also, they can enter the program for a Ph.D. A faculty of postgraduate education, created at ONMedU, in addition to conducting primary postgraduate specialization (internship), provides educational services related to advanced training and specialization of medical doctors: thematic advanced training courses (in 43 medical specialties) and cycles of specialization and training (in 27 medical specialties). In 2020, FPE conducted 152 thematic advanced training cycles (96 by the state order, 56 under the contract), 34 specialization cycles (14 by the state order, 20 under the contract), 24 internship cycles (8 by the state order, 16 under the contract) for 2392 doctors under the state order and for 1344 doctors under the contract. For admission to postgraduate education, it is necessary: for an internship - to obtain a diploma of higher medical education and successfully pass the graduation certification procedure; a graduate has the right to enter into a postgraduate program to obtain a Ph.D. degree after successfully completing an internship program and passing entrance tests in the form of an interview in a foreign language and specialty, which is a requirement for admission to an in-depth study of the chosen subject area in the postgraduate space of Ukraine. Students who have received a diploma of completion of the postgraduate program are eligible to engage in teaching and research activities at a higher education institution.

The training conducted by faculty and departments meets the requirements for the content and structure of the EP, which is ensured and controlled through the definition of competencies in the matrices of competencies and PLO of EP competencies for each educational component. The teaching staff creates work programs in disciplines based on the EP. The Guarantor, responsible structural subdivisions, quality monitoring groups, and assessment groups, constantly monitor this compliance.

The general responsibility for proper learning conditions is enshrined in the internal regulations, the moral and ethical code of students, which sets out the issues of discipline, the basics of organizing the educational process, appearance and dress code, the rights and obligations of students, disciplinary sanctions and incentives. SSG, Student Trade Union, the commission for the academic work of SSG of the faculties, the institute of curators for educational work, the student council of dormitories, at the meetings of which issues of non-compliance with the norms of behavior in the team and behavioral

violations are considered. In addition, when studying clinical disciplines, students are under the constant supervision of a teacher who controls the observance of moral and ethical standards and deontological aspects of the doctor's activities. Students and teachers can report observed cases of unprofessional, unethical behavior through the Appeal Channel on the site, as well as directly to the relevant deans, curators, or the management of the University.

Analysis

The report presents the mission of ONMedU: improving the health of the population through the continuous training of medical workers and participation in leading medical research that influences the formation of clinical knowledge and medical practice. The mission was collectively discussed and adopted, brought to the attention of internal and external stakeholders, posted on the university website, and distributed on social networks. References are provided in the self-evaluation report. Based on the mission, the vision of ONMedU was formulated, which is that the University will be recognized as an elite university, a leader in medical education, research, and practice; it will play an active role in improving the living standards of members of the academic community, alumni and local, national and international communities. The participation of stakeholders in the formulation of the mission (students, faculty, administration, representatives of structural divisions, employers) is reflected. Regulations on stakeholders of Odessa National Medical University are available for review. The mission of EP 222 Medicine needs to be revised with the involvement of internal and external stakeholders, taking into account their opinion and following the criteria of the standard. It should cover the consideration of the health needs of the community, the needs of the healthcare system, and other aspects of social responsibility, followed by informing all stakeholders in various ways (placement on the website, in social networks, in the form of the poster or QR-code information, etc.).

During studies, the University provides graduates with long-life CPD as a key factor in the formation of professional responsibility. For this, modern educational technologies and methods are applied to form the motivation for the independent development of additional issues, critical thinking.

ONMedU does not have a Regulation (procedure) for the implementation of innovations in the educational process and training teachers in new innovative educational technologies. Interviews showed the incomplete understanding of teachers and students. However, the experts did not find the confirmation of the use of modern active educational methods while visiting the clinical departments, in particular, a practical class in ophthalmology for 4th-year students.

Strengths/best practice:

Not established

EEC recommendations:

Develop the mission of the EP 222 Medicine with the involvement for discussion and taking into account the opinions of a wide range of internal and external stakeholders.

Reflect in the mission of EP the consideration of the health needs of the community, the needs of the healthcare system, and other aspects of social responsibility.

Using various methods and tools (website, social networks, stands, etc.), bring the mission of EP "Medicine" to the attention of stakeholders and the healthcare sector.

Area for improvement:

In order to expand the range of external stakeholders when discussing the mission, both state structures of the healthcare system and professional associations, non-governmental and other organizations should be involved.

Introducing innovative methods of teaching and assessing students' knowledge should be ensured. Develop a Regulation (procedure) for the implementation of innovations in the educational process. Promote the aspiration and interests of employees in conducting research in medical education.

Quantitative indicators of the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0

Satisfactory - 17

Assuming improvement - 6

Unsatisfactory – 0

6.2. Standard "Educational program"

Evidence

The EP was developed in accordance with the Law of Ukraine "On Higher Education", but the HE standard of the second level of training for undergraduates of Master's degree in the field of "Healthcare" in the specialty "Medicine" was not adopted at the national level. The EP was developed on the basis of the Sample Training Curriculum for the Master's degree Specialists of the HE in the field of knowledge "Healthcare" in the specialty "Medicine", approved by the MH of Ukraine on 26/07/2016. The EP was implemented in 2016 with subsequent revision in 2019 and 2020 based on the results of the studying the labor market of medical personnel and the needs of employers. After passing the necessary stages, the EP was approved by the Academic Council (Minutes No. 11 of 04/06/2020) and put into effect by the Order of a.i. Rector No. 241-O dated 04/06/2020). In accordance with international trends, the results of scientific research of teaching staff are also reflected in the EP. Every year, by the beginning of the academic year, the educational and methodological complex of disciplines is updated in accordance with the orders of the MH of Ukraine, clinical recommendations, procedures and standards for the provision of medical care.

The aim of presented EP "Medicine"(Appendix 2) is to train specialists of the master's degree of higher education and it is represented by the following components: profile; list of components, their logical sequence; certification forms. The "EP Profile" provides general information about the EP. The "List of EP components" is represented by 2 blocks with a total volume of 360 ECTS credits: "Compulsory components of the EP", 270 ECTS credits - 75% (general training disciplines - CC 1-10 and vocational training disciplines - CC 11-44) and "Elective components ", 90 ECTS credits - 25% (disciplines of the elective (variable) block 1 and 2 - EC). The logical sequence of the educational process by disciplines, the matrix of compliance of program competencies and ensuring of program learning outcomes are given. The volume of the training program during one year is 60 ECTS credits. The volume of educational components corresponds to the actual workload of students, the achievement of goals and PLO. The study load includes time for lectures, practical, seminar and laboratory classes, consultations, practices, independent and individual work, control activities. The calculation takes into account the maximum total load per student up to 45 hours per week (including classroom and independent work); the weekly classroom load should not exceed 26 hours. The weekly classroom load for students is 22.5-23.8 hours. The volume of independent work is within 47.0-54.1% of the total (the total indicator for the EP is 49%), which is regulated by the recommendations, that the amount of independent work should not exceed 2/3 of the total volume of academic discipline.

The section "Undergraduate Certification Form" contains the main components of the USQE (according to the Decree of the CM of Ukraine No. 334 dated 28/03/2018 "On Approval of the Procedure of the USQE for HE undergraduates"). Certification takes place at the 3rd (lasting a week) and 6th (lasting 3 weeks) training courses and includes the training and passing of test licensed exams KROK-1, KROK-2 and a qualification exam.

The EP 222 "Medicine" includes an integrated model consisting of disciplines and organ systems based on a spiral design. The EP provides the interconnection of basic disciplines, which are studied by students of all specialties, with subsequent clinical directions in specialties, which reflects interdisciplinary and transdisciplinary approaches. Thus, the interconnection of subjects is carried out when they are studied at different disciplinary levels (from 1 to 6 courses), developing both vertically and horizontally. The curriculum contains basic biomedical disciplines, behavioral, social and clinical disciplines. The content of the EP of the university contributes to the development of professional competencies of students and the achievement of learning goals. The integration of the volume of disciplines of the curriculum in blocks corresponds to the systematic study of the educational material.

Medical and biological disciplines are represented by 11 compulsory disciplines, which is 32.59% (88 ECTS credits) of the volume of the mandatory components of the EP. The socio-humanitarian block contains 25 disciplines. There are 4 disciplines of the compulsory part with 15 ECTS credits (5.56%) and 21 disciplines of the elective part with 38 ECTS credits (42.2%). Clinical disciplines are represented by 56 subjects, including 29 compulsory disciplines, which is 156.5 ECTS credits (57.96%) and 27 elective disciplines - 24 ECTS credits (37.78%). In the EP, the block of compulsory disciplines includes practices with a total volume of 18 ECTS credits.

Students, postgraduates are directly involved in practical healthcare. They receive and practice a lot of skills directly at clinical sites under the supervision of teachers of clinical departments and doctors. The presence of a university clinic and close contact of the University with clinical bases ensure the availability of direct work with real patients. The practical training is regulated by Decree of the MES of Ukraine No. 93 dated 08/04/93 "On the approval of the Regulations about practical training of students of HEI of Ukraine". It provides practical training on the 2nd, 3rd, 4th and 5th years with a total volume of 18 ECTS credits. The purpose of practical training is to master the program competencies and achieve PLO necessary for professional activities. Practice (2-3 year) is carried out on the basis of simulation centers; the main goal is to develop practical care skills on mannequins. Professional practice is carried out at clinical bases and involves working with patients at the outpatient department together with a physician (outpatient medical practice) and working with inpatients (medical practice) at surgical, therapeutic and pediatric departments. Professional practice includes carrying out daily rounds of patients under the supervision of the ward physician, head of the department, the practice supervisor; taking part in morning medical conferences, consiliums; evaluation of the results of laboratory and instrumental studies; participation in the provision of emergency medical care, resuscitation, medical prevention, etc. Training at ONMedU is organized with a high level of safety. All students undergo annual medical examination at the Student City Polyclinics in Odessa, where declarations are made with family doctors. An important factor that ensures patient safety is the availability of simulation classes at ONMedU, which allow acquiring and improving practical skills on phantoms and mannequins.

The mastering of EP is realized at training sessions with direct contact with students, using such forms as lectures, practical classes, seminars, supervision of patients, consultations, individual work, simulation training cycles, teaching in small groups. Taking into account the rapid development of practical healthcare and the importance of developing the students' need for continuous improvement through self-monitoring and self-development, independent practical work of students (internships) is necessary, as well as an individual learning path through the choice of elective disciplines. The total volume of the variable study disciplines is 25% (5% - socio-humanitarian, 20% - professionally-oriented). The structure of the working programs of all academic disciplines provides topics for self-study, which are not included in the general classroom studying, which allows to increase, expand and improve the skills of independence/self-responsibility, which contributes to the maximum assimilation of the material, critical thinking, and the presentation of one's own thoughts, defending one's own opinion, analyticity. Independence skills are improved through participation in volunteer activities (volunteer units "Mercy" and "Future").

The share of lectures is 16.4%. The total volume of verbal communication of students with teaching staff is 50.9%. The ratio between lectures and teaching in small groups is 1:5 throughout the entire period of study. Teaching in small groups is mainly carried out in the form of practical classes and seminars. Practical classes are conducted using a wide range of educational technologies, including: educational videos, a comprehensive analysis of clinical cases, solving situational problems, working in simulation centers, working with standardized/hybrid patients, on duty at the departments of clinical bases, preparing case histories; round tables, master classes, discussions, etc. All educational technologies, forms, methods and ways of teaching are given in the work programs and syllabuses of the academic disciplines, posted on the official website. The duration of practical work during the period of training at clinical departments is at least 30% of the training program (Appendix 12). The University is in the planning stages of a joint project with the Lithuanian University of Health Sciences (Kaunas) of a virtual hospital and hybrid laboratory that will create multifunctional groups where students can be consultants, teachers, and learners at the same time, laying the institution of tutoring at the University.

Research work is widely used, which consists in the preparation of information and analytical materials on selected topics, essays, original diagrams, drawings, tables, presentation reports, including the use of retrospective method (work in the archives of EIs), as well as attending webinars, conferences, congresses of various levels. At the same time, a harmonious combination of the educational and research process is also implemented by SSS (the total number is 59 scientific circles), which allows students, starting from the first years of study to form independence skills, developing their creative potential with its subsequent implementation through participation in competitions, conferences. The basis of such skills is formed during the first year of study, which is provided by the formation of integral and general competencies, and is implemented by mastering such disciplines as Academic Writing, Fundamentals of Medical Communications, Conflictology, Medical Informatics, etc. The University established the Research Institute of Translational Medicine in order to provide conditions for research activities of students and teaching staff of the University. The University has created conditions for research activities of students in the specialty "Medicine".

The implementation of EP is carried out in accordance with the principles of equality, regardless of gender, ethnicity, religion, sexual orientation, socioeconomic and physical status.

Analysis

Analysis of all positions of the EP 222 Medicine, the results of interviews with employees of the departments that took part in the development of EP, as well as interviews with students and attending practical classes, indicate that the content of EP takes into account regional and national characteristics, as well as the current state of medical science and practice. EP was developed based on the Sample Training Curriculum for a Master's degree in the field of knowledge Healthcare, specialty Medicine, approved by MH of Ukraine on 26/07/2016 as the HE standard of the second level of training for a Master's degree in the field of Healthcare, specialty Medicine, was not adopted at the national level.

The research activity of the university is carried out in priority areas of development of science and medicine.

According to the results of interviewing representatives of focus groups and studying the documentation provided by the departments, the EEC revealed that the university poorly uses teaching methods based on modern adult learning theory (TBL (Team Based Learning), CBL (Case Based Learning), PBL (Problem Based Learning), RBL (Research Based Learning), project-oriented learning, etc. The introduction of innovative educational technologies into the educational process will require the development and application of modern methods, assessment tools and assessment forms successfully used in the global medical educational community.

According to the EP, communication skills are taught in the 1st year only. The EP should include communication skills training during the entire period of study.

At the University, the student has the opportunity to form an individual educational trajectory. The selection procedure is regulated by the Regulation on the formation of an individual educational trajectory. Informing students about elective disciplines and their content is carried out by creating a catalog of elective courses of the EP Medicine, published before February 01 of the current academic year on the website of the University (it is reviewed and updated annually). The catalog contains syllabuses of disciplines. The algorithm of action regarding the selection of electives by students is published on the website of the University, where the terms and application form are given. In case of additional questions related with selection procedure of elective disciplines, students can contact their dean's office. The dean and/or vice-dean provides academic advising. The catalog of elective disciplines should be continually reviewed and expanded in order to improve the student's academic freedom.

The University should introduce a system of mentoring, tutoring and develop a procedure for regular assessment of EP and feedback, taking into account the best international practices, including the experience of foreign partner universities. The University should involve students in the development and updating of EP, as they are the main interested party and the main users (stakeholders) of educational services.

The sociological survey of teaching staff and students is conducted annually. The satisfaction with the quality of the educational process and the teaching environment is analyzed. The results are discussed

and presented at meetings of the Academic Council of the University, the Faculty Council (the teaching staff and students are members), educational and methodological meetings. The results of the surveys are published on the website of the University. The information is collected and sent to the dean's offices, the educational department of the University, the guarantor of EP for use in the development or improvement of the curriculum and EP as a whole.

Strengths/best practice:

Not established

EEC recommendations:

Apply to the MES and the MH of Ukraine with a request to accelerate the development and approval the HE standard of the second level of training for undergraduates of Master's degree in the field of "Healthcare" in the specialty "Medicine" at the national level. Term: by 01/01/2022

Develop a procedure for regular evaluation of the EP and feedback. Term: by 06/01/2022

Involve students, teaching staff and other interested parties in the development and revision of the EP 222 Medicine. Term: on an ongoing basis

Introduce innovative pedagogical technologies on the example of the best international practices. Term: by 01/09/2022.

Ensure the development of communication skills during the entire educational process for effective interaction and cooperation with patients and their families and management of professional conflicts. Term: 01/01/2022 and onwards on an ongoing basis

Area for improvement:

In order to provide comprehensive support students, a system of mentoring, tutoring, mentoring should be involved. Term: by 06/01/2022.

Quantitative indicators of the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0,

Satisfactory -34,

Assuming improvement -5,

Unsatisfactory - 0.

6.3. Standard "Assessment of students"

Evidence

According to the self-report of ONMedU, the Regulation on the organization of the educational process is the main normative document regulating the principles, methods and procedure of educational results assessment of students. It was developed in accordance with the Laws of Ukraine "On Higher Education" No. 1556-VII dated 01/07/2014 and "On Education", the Charter of the University and other legal documents. The regulation defines, approves and publishes the principles, goals, methods and practices used to assess the knowledge, skills and abilities of students, including the criteria for assessing current control, assessing intermediate certifications, the number of permitted retakes in the form of regulatory documentation, presented in the form of links and appendices to this report. Assessment of knowledge, skills and abilities of students takes place at the following levels: current assessment - in practical and final classes; intermediate certification - exams and tests taken at the end of the study of disciplines, then - the state final certification. There is a certain balance between formative and summative assessments. Formative assessments reflect current (un)successes, they can be reinforce/initiated by writing an essay, preparing a diagram, and other indicators of learning activity that are collected in a portfolio that allows to reflect the key points of the task more clearly and thereby demonstrate the dynamics of the student's progress. Summative assessment acts as an integral point indicator of the quality of the educational process in a given subject/topic/section and as a criterion for

setting a rating level that has cumulative nature. The formed dynamic integral interconnection of these methods allows managing study and assess the academic progress of student objectively. During six years of study (by the example of "Medicine" specialty), a student takes 21 tests, KROK-1 and KROK-2, 38 differentiated tests, including practices, 20 exams, and 5 final certification exams in the OSCE format. The results of the academic progress of students are presented in the form of an assessment on the national scale; 200-point and rating scale ECTS and have standardized generalized criteria for assessing knowledge. Choosing an assessment method a differentiated approach is applied in accordance with the tasks of different levels of education at ONMedU. OSCE, standardized patients, critical case assessment exams have been introduced at ONMedU since 2019. Due to COVID-19 pandemic, remote assessment technologies on Moodle and Microsoft Teams platforms have been introduced. Development and implementation of electronic gradebook is planned.

Monitoring of academic progress combines assessment activities and analytical work. Analytical work is carried out in order to determine the quality of the educational process, the necessary correction of educational approaches. The comparability of the final learning outcomes, assessment methods and used teaching methods are reflected in the work programs of disciplines and syllabuses. They are summarized in [Attachment to self-report 25](#). Transparency and accessibility of assessment procedures is ensured by free access of interested persons to normative and regulatory documents related to the educational process, as well as educational and methodological materials of disciplines. These foundational documents are available to the public, including supervisory and regulatory authorities, faculty, students, and external stakeholders.

The developed appeal system also refers to the guarantee of providing feedback. Students who do not agree with the results of the control activities have the right to file an appeal statement containing a clear indication of the subject of the appeal and a reasoned justification for disagreeing with the assessment. The application is not the basis for the appointment of a re-examination/graded test, an additional questioning of the student when considering the appeal is not allowed. The appeal must be considered within two days from the date of application. By order of the dean, an appeal commission of 3 members is appointed, which includes the dean (vice dean), the head of the department and the lead teacher. Based on the results of the discussion, the commission makes a decision to increase (leave unchanged) the grade, which is formalized in minutes, reported to the student (against a signature) and in the case of increasing the grade must be recorded in the additional credit/examination record with the signatures of all members of the appeals commission. Students, their relatives and teaching staff can officially, or anonymously address the Rector or Vice Rectors through the "Red Button" and "Channel of Appeals", which allows the administration to review and deal with the situation urgently and to take appropriate measures.

Analysis

According to the Standard "Assessment of students", it should be noted that the assessment of educational achievements of students in the EP Medicine is carried out in compliance with regulatory legal acts in the field of education. To assess the educational achievements of students, criteria, regulations and procedures have been developed in accordance with the goals and objectives for the implementation of EP in accordance with the directive, regulatory and internal documents regulated the number of exams and credits. The forms of formative and summative control used at ONMedU are transparent and to the interested parties of the educational program. The results of students' progress are taken into account when assigning scholarships and enrolling in internship groups. In general, the assessment methods for EP are comparable with the teaching methods and the results. Students acquire the necessary competencies, as evidenced by the feedback from employers based on the results of the survey and during interviews with the EEC. At the same time, the process of external expertise of assessment methods is not sufficiently established. The student knowledge assessment system should be continuously studied by all structural units responsible for assessing the final results, and it is an open environment for the introduction of new methods in this activity. It is required to introduce new assessment methods in accordance with the need. The main presented form of feedback based on the

results of the assessment of undergraduates is an appeal. It is necessary to develop a local regulatory act to expand and systematize this aspect of ONMedU activities.

Strengths/best practice:

Not established.

EEC recommendations:

Involve leading specialists in practical healthcare for external review of assessment methods, as well as independent examiners, who will help to ensure higher fairness, quality, transparency, and independence of competency assessment. Term: constantly.

Area for improvement:

It is necessary to introduce new assessment methods and optimize the student assessment system using methods focused on the degree of achievement of learning outcomes, taking into account international practice. Term: 09/01/2022.

When monitoring and reviewing the EP, EP supervisors should improve the quality assurance process of assessment practice in terms of determining and documenting the reliability and validity of assessment methods, taking into account the peculiarities of professional training. Term: constantly.

It is necessary to develop a local regulatory legal act regulating the forms, methods and procedure for obtaining and providing feedback to undergraduates based on the results of the assessment. Term: by 01/01/2022.

Quantitative indicators of the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0,

Satisfactory -14,

Assuming improvement -5,

Unsatisfactory - 0.

6.4. Standard "Students"

Evidence

ONMedU implements a policy of admission and selection in accordance with standard procedures that meet the requirements of the Law of Ukraine "On Higher Education", the Conditions for Admission to Ukrainian Universities, on the basis of which the Rules for Admission to ONMedU are developed. The main criteria for admission to the specialty 222 Medicine, are the level of knowledge and ability of the applicant. Conditions for admission to universities and rules for admission to ONMedU for the specialty are results of external independent testing on subjects that must be passed to applicants. The 1st subject is Ukrainian language (at least 130 points on a 200 point system); 2nd subject is mathematics (at least 150 points for 200 point system); 3rd subject is biology, or chemistry, or physics (at the choice of applicants) - (at least 150 points on a 200 point system). Applicants for a master's degree based on a complete general secondary education (CGSE) for full-time education, except applicants eligible to participate in competition by results of entrance tests on the basis of CGSE, enrollment on interview and enrollment in quota-1, quota-2, submit applications only in electronic form. All other categories of applicants submit applications in paper form. Since 2018, there has been a reduction admission to the first year, as the requirements for the level of preparation of applicants have increased. The minimum passing score in special disciplines is 150 points. In 2021, Mathematics was offered as a mandatory exam for entry into medical universities, which significantly reduced the enrollment, but had a positive effect on the quality level of the applicants.

ONMedU enrolls strictly within the licensed volume, which is distributed between domestic and foreign students, taking into account the indicators: admission of past years, material and technical capabilities of the university and its academic potential (Part 2, Article 32 of the Law dated 01/07/2014

No. 1556-VII "On Higher Education"). The licensed volume of ONMedU is 1500 students per year, which is fully covered by the possibilities of the material, technical, social and educational infrastructure existing at the university. Data on the distribution of the licensed volume are entered into the unified state electronic database of education (USEBE). Every year, until July 15, ONMedU submits competitive bids to the MH of Ukraine for places to be financed by state budget, according to the resolution of the CM of Ukraine No. 306. dated 15/04/2013. After competitive selection of participants for the implementation of the state order of MH of Ukraine, the university receives the corresponding number of budget places, which are also entered in USEBE. The rest of the number of seats of the licensed volume is used for the admission of students to study under the contract at the expense of individuals and legal entities. From the places that the University received as part of the state order, places are allocated for the admission of applicants according to quotas. Quota-1 is a part of the maximum volume of budget places (for open competitive bids)/total volume (for fixed/closed competitive bids), which can be used to admit applicants on the basis of CGSE, who are eligible for admission on the basis of entrance examinations, except applicants who are eligible for quota-2. Quota-1 is 5% of the maximum (total) amount of budget places. Quota-2 is a part of the maximum volume of budget places (for open competitive bids)/total volume (for fixed/closed competitive bids) at universities, which can be used for admission of applicants on the basis of CGSE, eligible for admission on the basis of entrance examinations in accordance with Admission procedure to get higher professional and pre-higher education for people living on the territory of the Autonomous Republic of Crimea and the city of Sevastopol, certain areas of the Donetsk and Luhansk regions, the territory settlements on the line of contact, approved by Order of MES of Ukraine No. 27 dated 03/01/2021. Quota-2 is 10% of the maximum (total) amount of budget places.

The admission policy is reviewed annually and new admission rules are published within the time limits specified at the legislative level on the official website of the university. The policy and procedure for admission to medical faculties are understandable, consistent with the mission and goals of the university, officially published on the website, available to all applicants. ONMedU guarantees equal access to basic education. ONMedU has a well-developed system of academic counseling for students. An electronic system has been introduced and all information related to training has been digitized. All students have access to electronic platforms and databases. Confidentiality and anonymity of users are protected at the proper level.

ONMedU implements a policy for the admission of students with disabilities. Applicants with disabilities have the right to choose admission either according to the results of external independent testing in the subjects, which are defined by the conditions of admission to universities and rules of admission to ONMedU, or according to the results of tests, which they can pass at ONMedU in these subjects. In addition, this category of applicants is enrolled according to a separate quota (quota-1). In accordance with the Admission Procedure, they have the right to transfer from a contract form of education to a budget form.

The University guarantees the transparency of the selection procedure, since the process of submitting documents by applicants is carried out through the USEBE. The admission board of ONMedU provides only technical support (checks the correctness of the entered data by applicants). The University Appeal Commission considers appeals against the results of entrance examinations conducted by ONMedU, the composition and procedure are approved by the order of the Rector. Statement of appeal is filed personally by the applicant on the day of testing or assessment (the day after the entrance test) and is considered within one day in the presence of the applicant. The commission considers appeals against the results of the interview on the day of the interview.

Admission for training of foreign citizens is carried out in accordance with the order of the MES of Ukraine "Some issues of organization of recruitment and studying (training) of foreigners and stateless persons" No. 1541, dated 01/11/2013, conditions of admission to HEI of Ukraine, Rules of admission to ONMedU and recommendations of diplomatic institutions on the basis of a license for conducting educational activities only at accredited EPs. Education of foreigners is carried out on a full-time (daytime) form of education. The organization of the recruitment of foreigners for training is carried out by ONMedU, state enterprise authorized by the MES of Ukraine, other business entities (residents) on the basis of service agreements concluded with the HEI. Foreigners apply for a master's degree based on

the results of consideration documents that submitted to the AB and entrance examinations in biology, chemistry and language of the study, according to the criteria approved by the order of the Rector.

ONMedU has a policy and implements the practice of transferring students from other medical universities. The transfer rules are a component of the educational policy and comply with the Decree of CM of Ukraine "Regulations on the procedure for transfer, expulsion and reinstatement of students of HEI of Ukraine" No. 346, dated 29/05/2020.

The University has all the necessary conditions and resources for the personal development of students. ONMedU has created a system to support students in all areas. The needs of students are met through the free use of educational, methodological, scientific, clinical, cultural, sports and health facilities of the University. The library provides students with free textbooks, the main processes are automated (book lending, virtual service system, remote library and bibliographic information, electronic document delivery). The university has student support programs, transfers successful students who study on a fee basis to study at the expense of the state budget, and organizes material support for orphans and students left without parental care. There is a continuity of all stages of education, starting from the stage of pre-university training. The policy of representation of students in the governing bodies of the university is implemented. SSG of the University and commissions of SSG in certain areas of work, SSS, Primary trade union organization of students. The University provides assistance and support to student activities and student organizations, including the provision of technical and financial support. So, for example, at least 0.5% of the University's own income received by the University is allocated to finance the needs of the SSG annually (Appendix 28 to the self-report). The funds of the SSG bodies are directed to the fulfillment of their tasks and the exercise of powers in accordance with the estimate approved by the Conference of Students. At least 30% of financial resources are directed to support the scientific activities of students. The policy of the University is focused on stimulating and supporting the activities of the SSG. A system has been developed and is in place to encourage and motivate students' participation in public life in various areas: students receive additional points for volunteering and social activities that are taken into account in the point-rating system; bonus at the end of the year; awarding diplomas, memorable gifts, nomination for scholarships, accounting for achievements when entering an internship. There is a volunteer activity. There is an institution of curatorship (curators of groups, dormitories, compatriots). The Psychological Service operates with the aim of creating psychological and pedagogical conditions for self-development and self-realization, overcoming aggressive, deviant and delinquent behavior, psychological examination of pedagogical innovations; etc. There is a transparent procedure for assessing educational achievements at all stages of training of the students. State students receive scholarship payments. Successfully mastering the EP receive an academic scholarship, students who show outstanding achievements receive an increased state scholarship and they are nominated for additional material incentives in the form of scholarships, bonuses from public funds. Students on an extra-budgetary basis who have achieved outstanding results may qualify for the financial reward in the form of a prize. The procedure for distributing the scholarship fund is determined by the University, taking into account the opinion of the Council of the SSG and the Trade Union of Students. Financial support is paid in the amount and in the manner determined by national and local regulations, taking into account the opinion of the representative bodies of students. The university provides social guarantees, safe and harmless conditions for learning, which is monitored by the Department of labor protection. Living conditions are created. The University provides dormitories for 100% of students in need, what was confirmed during interviews. Information about dormitories, the procedure for providing premises and settling in, the rules of residence and cost is posted on the website. Check-in occurs through an electronic system (automatic check-in service in dormitories). The university has sufficient material and technical base for the educational process. The University has developed a system of social assistance. Various kinds of student clubs help students develop their abilities in different areas. ONMedU has adopted anti-epidemic measures in the context of the COVID-19 pandemic, including the organization and development of distance learning that uses Office 365 Microsoft Teams and Moodle platforms. All students and staff of ONMedU have an account in the Office 365 system (corporate mail, a system of teamwork and online meetings, cloud applications, etc.). During 2020, video lectures and videos demonstrating the implementation of practical skills were recorded.

ONMedU provides employment counseling. The responsible structural department is FPE, which annually monitors this process and generates a report on the employment of graduates. In 2020, the Commission on promotion the employment of graduates was created (the task is career guidance among graduates and assistance in providing 1st job). Every year, students undergo medical examinations, regular medical checks, and vaccination according to the National Immunization Schedule. Students who need additional health improvement have the opportunity of consulting by narrow specialists-employees of the departments and financial support for health procedures. In case of serious health problems or the birth of a child, the academic leave/individual schedule of elimination of academic arrears is provided.

Analysis

At ONMedU the requirements set forth in the IAAR "Students" standard are met almost in full. The university defines and implements the admissions policy, including a well-established regulation on the student selection procedure. The university implements a system of appeals for the admission of applicants. There is no practice of including medical professional organizations in the policy development process and the student selection process. The practice of transferring students from other medical universities is implemented at ONMedU.

Admission to study at the University is carried out within the framework of admission targets (at the expense of the state budget) and under contracts at the expense of individuals or legal entities. The admissions policy is reviewed annually in accordance with the mission and capabilities of the university. Students are enrolled in accordance with licensing requirements and material and technical capabilities.

ONMedU has student support programs aimed at social and personal needs, including anonymous psychological counseling by a psychologist, targeted solutions to financial and health-related problems. Student counseling is provided, including academic support, professional career planning, support for personal, financial and health problems. To ensure equal educational opportunities, including for persons with disabilities due to health, the University should develop a provision on inclusive education for persons with special needs.

Along with a well-established system of supervision of students of academic groups by the faculty of the University, it is necessary to actively introduce a system of mentoring (tutoring), which is especially important in pandemic and other possible force major circumstances, when the implementation of the educational program is partially transferred to a remote format.

When interviewing students and graduates of the university, the students were found to have the opportunity to express their opinions and wishes regarding their participation in decision-making, ensuring academic quality, and other professional, financial and social issues. At the same time, the university needs to actively implement a policy of appropriate participation of students in the development and evaluation of EP Medicine.

It seems appropriate to plan the incoming and outgoing academic mobility of students to partner universities by developing and implementing a program to promote the academic mobility of students.

Strengths/best practice:

Not established.

EEC recommendations:

Regard a problem of inclusion of medical professional organizations in the policy development process and student selection process. Term: constantly.

Implement a mentoring (tutoring) system that provides feedback between students and teachers. Term: by 06/01/2022.

Actively implement a policy of appropriate participation of students in the development and evaluation of the EP Medicine. Term: constantly.

Establish a program for the development of academic mobility of students. Term: by 06/01/2022.

Develop a provision on inclusive education for persons with special needs. Term: by 09/01/2022.

Quantitative indicators of the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0,

Satisfactory -22,

Assuming improvement -1,

Unsatisfactory - 0.

6.5. Standard "Academic Staff/ Faculty"

Evidence

The personnel policy of the University is one of the priorities of the concept of strategic development of the university. The role of the teacher is the leading in determining the high quality of the educational process. The university has objective and transparent processes for recruitment, professional growth and development of the teaching staff. According to the self-report dated 01/09/2021, the academic staff of ONMedU consists of 1202 scientific and pedagogical employees of 59 departments. Of the total number of teaching staff, 142 people have a doctoral degree, 562 people with a Ph.D., 110 professors, 288 senior researchers, one academician of the NAMS of Ukraine, three corresponding members of the NAMS of Ukraine, 21 Honored Workers of Science and Technology of Ukraine, 41 Honored Doctor of Ukraine, 2 Honored Inventors of Ukraine. For realization of the EP Medicine 1017 employees are involved among them 124 DS, 463 Ph.D., 97 professors, 243 associate professors, 11 senior researchers, 430 without an academic title. In the 2020-2021 academic year, 248 (24.38%) teachers were hired on the terms of external part-time work. The procedure of AS admission depends on the type of vacant position and additional characteristics of emerging labor relations (Article 55 of the Law of Ukraine "On Higher Education"). But the main procedure is related to the competitive selection, which consists of several stages: the announcement of a competition for vacant positions to the establishment of the winner of the competitive selection, and the appropriate personnel registration of labor relations, culminating in the order of the rector, for example, on employment. Persons wishing to take the position of teaching staff can receive the relevant information from the University website (about the availability of vacancies, the details of the competitive selection, etc.). Employees who have passed the competitive selection, at the stage of registration of labor relations, receive the necessary information directly from the department of personnel and military mobilization work. The promotion of AS is connected, first of all, with their professional growth. In addition, the AS professional growth criteria are based on the legally established requirements for educational activities and medical practice determined by the Resolution of CM of Ukraine On Approval of the Regulations on the Organization of the Educational Process in Healthcare Institutions with the Participation of Scientific and Pedagogical Staff of HEI that Trains Applicants for Higher Education in the Field of Healthcare No. 1337 dated 28/12/2020. The information basis for making managerial decisions by the management of structural divisions is the system and results of the rating assessment of AS, regulated by the Regulations on the Rating Assessment of Scientific and Pedagogical Staff of ONMedU. The rights and obligations of the teaching staff are defined by the Labor Code of Ukraine, the laws of Ukraine "On Education", "On Higher Education", and "Fundamentals of Ukrainian Legislation in HC". The distribution of responsibilities is under the Collective Agreement, Internal Labor Regulations, and the employment agreement (contract) as well as the job descriptions. In Ukraine, the general approaches to the professional development of AS and specialists in the field of Healthcare are regulated by: laws of Ukraine in the field of education and HC, resolutions of CM of Ukraine Some Issues of Advanced Training of Pedagogical and Scientific Workers No. 800 dated 21/08/2019 and On Approval of Regulations on the CPD System for Specialists in the Field of Healthcare No. 302 dated 28/03/2018. The University considers the requirements for deadlines, criteria, and availability of supporting documents on the continuous professional development of AS: at least once every five years with the amount of professional development, not less than 6 credits. The advanced training of AS is carried out following the approved plans and schedules. In the current academic year, AS members are mastering 18 advanced professional training programs (including the remote ones).

The "teacher-student" ratio is determined by the requirements of MES of Ukraine and it is within the limits of regulatory requirements. The number of students per teacher is approximately 1:5.

Students and teachers have enough time for training, counseling, and self-study. The total working time per teacher in the academic year is 1560 hours, based on a 36-hour working week (within the rate) and 56 days of vacation. The activity of ONMedU AS consists of classroom and extracurricular (educational, methodological, organizational and methodological, scientific, educational, medical, and advanced training), as well as other activities provided for by job description and (or) according to the individual plan of a teacher. The academic workload shall not exceed 600 hours per academic year. Faculty members carry out research according to their scientific specialty and the profile of the department they work. ONMedU constantly keeps records of the AS publications. Teachers who have a high level of scientific activity and involve students and graduates in scientific work are promoted and financially encouraged. Leading teachers perform administrative work on management and participate in the activities of structural units, using their high professional skills and experience, which improves the quality of ONMedU work as a whole. To better stimulate the activity of AS, there is the system of bonuses for publications in international refereed and own scientific journals of ONMedU, for participation in the preparation and publication of textbooks, monographs, and teaching aids, as well as for supervising and defending dissertations for scientific supervisors. For young teachers of the University, funds are allocated for the implementation of their scientific activities on a competitive basis. For professional, scientific, and pedagogical achievements, teachers are nominated for state, departmental, and regional awards. During the year, the University implements other systems for recognizing the active academic work of the teaching staff. The best teachers are promoted to management positions. In a meeting of the Academic Council of the University, information on the results of the work and recognition of the achievements of teachers in all types of activities is announced.

Analysis

There is a balance of the academic staff/faculty of basic biomedical sciences, behavioral and social sciences, and clinical sciences for the adequate implementation of the EP Medicine at ONMedU.

Criteria for the admission of AS have been developed, including the scientific, pedagogical and clinical merits of applicants.

The responsibility of academic staff/faculty in basic biomedical sciences, behavioral and social sciences, and clinical sciences is monitored.

The institutional conditions for the financing of employees and the efficient use of resources are considered.

The university provides continuous professional development of AS both in pedagogy and in specialized medical specialties. At the same time, in order to implement the educational process using modern pedagogical methods, it is advisable to include training in innovative educational technologies and assessment methods in the plan for improving the pedagogical competence of the AS, taking into account the peculiarities of medical education and involving partner universities.

ONMedU has implemented a policy of activity and development of the AS guaranteeing the recognition of academic activity, with an appropriate emphasis on pedagogical, research and clinical qualifications, which is carried out in the form of awards, promotions and/or remuneration. Clinical activities and research results are used in teaching and learning.

Strengths/best practice:

Not established.

EEC recommendations:

Include training of AS in innovative educational technologies and assessment methods in the plan to improve the pedagogical competence, taking into account the peculiarities of medical education and involving partner universities. Term: 01/01/2022 and onwards on an ongoing basis

Quantitative indicators of the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0,

Satisfactory -13,

Assuming improvement -0,

Unsatisfactory - 0.

6.6. Standard "Educational Resources"

Evidence

ONMedU is a modern educational, scientific and medical-diagnostic center with 59 departments providing training in the EP, which are located in 8 educational and educational-administrative buildings, with a total area of 25304.5 m². In accordance with the regulatory requirements defined in the license conditions, the provision of educational space should be 2.4 m² per student. At the University, the actual value of this indicator is 5.5 m² (+31% deviation from the normative). There are 43 clinical departments, located on clinical bases at 55 institutions of the Healthcare; including 39 clinical departments are in institutions subordinate to the Department of HC of Odessa City Council and the Department of HC of Odessa Region Council, institutions of Mykolayiv and Kherson regions; 2 scientific and practical institutions of the NAMS of Ukraine; 3 departmental institutions; 2 private institutions; 5 recreation establishments. The total area of own 3 medical centers is 31191.7 m²; Multidisciplinary medical center - 16847.4 m²; Medical ophthalmological center - 1701.4 m²; Center for Reconstructive and Restorative Medicine (University Clinic) - 12642.9 m². The total area at the institutions of the Healthcare Department of Odessa Region is 3950 m²; Department of HC of Odessa City Council - 3133 m². In the structure of the University, there is a Medical sports and recreation camp "Medic". The university has 5 buildings of dormitories, the total number of beds is 2314. The percentage of provision with a dormitory for all students in need is 100%, with a standard indicator of 70% according to licensing requirements for the implementation of educational activities (+30% deviation from the normative).

All departments and academic-administrative units of the University are provided with modern computers and Internet access. Today, the University has a total of 1311 units of computer equipment (759 desktop computers and 552 laptops), which is 84.5% of the coverage of all students. There are 9 computer classes with 220 workstations which are involved in the testing. The University developed the Concept of Informatization of ONMedU until 2025. The main goal is to create an E-University in order to improve the quality of the educational process, transparency in student assessment and accessibility of knowledge.

The information component of the educational process is provided by the Scientific Library with reading halls (with a total area of 1207.8 m²) and the Student Library (with computer and reading halls, with a total area of 1212.9 m²). The library network unites about 50 computers, copiers, including scanners for digitizing rare and valuable publications. All departments are equipped with modern projection systems, namely 153 multimedia mobile projectors, 10 large LCD panels and 8 interactive whiteboards. In accordance with the license conditions, the standard security indicator for simultaneous use in classrooms is 25%, at the University - 100% (+75 deviations from the normative).

Students study the discipline "Medical Informatics", the purpose is to familiarize with information models, methods for processing medical images, etc. Medical informatics study the software products of importance for practical work of the doctor: Epi-Info (a program for epidemiological research and statistical processing of the results), MedWork (a program for teaching data entry into an electronic medical record), working with databases using the program Microsoft Access in MySQL format, NeuroExel (training of a neural network to recognize medical images). The course of Medical and Biological Physics discusses the possibilities of using the LabView software package using examples of creating virtual medical equipment (electrocardiograph).

The university has a modern library with an electronic database for each department, ensuring independent work of students. The resource is available 24/7 from any device connected to the Internet. For authorized access to the system, all students are provided with a login and password. According to the

Order of MES of Ukraine On Approval of the Procedure for Ensuring Access of HEIs and Scientific Institutions to Electronic Scientific Databases No. 269, dated 27/02/2019, all students and AS of the University have access to the services of scientometric databases Web of Science, Scopus, ScienceDirect, as well as to educational resources MJ Best Practice, BMJ Learning, Cochrane Library (evidence-based medicine). The library stock accounts for over 800 thousand paper copies and 5 thousand e-books. Annually the book fund is replenished with educational literature for UAH 350-400 thousand. In the last 2 years, the replenishment of education literature has reached UAH 3,000,000. The library annually subscribes to 80 titles of scientific journals for UAH 200 thousand. The institutional repository (IRONMedU) is part of the international search engine for full-text scientific publications - Google Scholar. Students and AS of the University have access to international information resources, including Hinary (WHO program with access to world collections of biomedical literature - 21000 journals, 69000 e-books, 115 other resources), British Medical Journal (a specialized publication for the professional growth of physicians). Access to the Medline database containing medical literature sources has been available since 1966. The database "The Catalogue of the National Medical Library of Ukraine" was purchased. In order to provide students and AS with the necessary special educational and scientific literature, the library was transferred to an automated information library system with access to electronic Ukrainian and international libraries. The work is provided by specialized IRBIS software. The Publishing and Printing Complex of the University publishes textbooks and teaching aids in three languages, the authors of which are ONMedU scientists. About 180 titles of educational and scientific literature of the Medical Student Library series have been published, including literature in foreign languages. Scientific journals and collections of scientific papers are regularly published: Odessa Medical Journal, Integrative Anthropology, Achievements in Biology and Medicine, Clinical Anesthesiology and Intensive Care, newspapers Pulse and His Majesty the Patient.

The University has developed and implemented an electronic quality management system of education ONMedU, including the "Electronic assessment" systems (work with progress sheets, lists of academic arrears, online exam system), Rector's Control, OSCE, Service of Automatic Accommodation in Dormitories. The E-University project has been developed. All educational and service premises are provided with wired and wireless authorized access to the local network. The University has 4 locations with free wireless access to the Internet. The central computer hub (5 hardware servers) ensures the operation of ONMedU information systems and the local computer network, accumulation, processing, and storage of data. This hub allows digitalizing the educational process (accounting for student progress, study cards, statements, ranking protocols, reports, diplomas and their supplements; personal cards, lists of groups, contact details, accounting for benefits, accounting for the movement of the contingent; reference journals, curricula), administrative activities (document flow inside and outside the University). The website of the University and the system of remote education are functioning and constantly updated.

ONMedU is constantly improving its educational space - current repairs of classrooms and dormitories and it is carried out on a regular basis. In 2020-2021 there was conducted repair-restoration work of the facades of the anatomic block of ONMedU in the amount of UAH 11,9 million; classrooms, study rooms and common spaces of the Department of Propaedeutics of Internal Diseases (9 Pasteur St.) - UAH 6,0 million; major overhaul of the building of the Department of Radiation Diagnostics, Therapy and Oncology in the amount of UAH 1.3 million; works on repair of the individual heating points and pipelines of the academic buildings and dormitories - UAH 6.2 million. For improvement of material base, modern medical equipment, furniture, computers are purchased at the expense of own funds: 2017: UAH 234.2 million, 42.3% of the total expenditures and UAH 27659.00 per student; 2018: UAH 184.9 million, 43.3 % of the total expenditures and UAH 19896,00 per student; 2019: UAH 90.2 million, 29,3 % of the total expenditures and UAH 10120.00 per student; 2020: UAH 127.4 million, 23.1 % of the total expenditures and UAH 17206.00 per student. For the period October-December 2021, it is planned to spend UAH 72841939.79 on the implementation of the EP "Medicine" to improve the material and technical base.

The scientific activity of ONMedU is an mandatory component of the learning process. One of the key principles is the combination of education and science, which indicates the implementation of the Strategic Development Concept of ONMedU: development of a research plan at the University level;

creation of research institute of translational medicine; concentration of resources on the development of student science; developing an intellectual property policy to stimulate scientific research, etc. The priority thematic areas of scientific research of ONMedU are "Targeted applied research on the issues of harmonization of the "human-world" system and the creation of the latest technologies for improving the quality of life." The entire list of research topics is presented in Appendix 43 to the self-report. The mechanism for determining research topics is based on the correspondence of practical significance, taking into account new innovative solutions for practical implementation in HC of Ukraine and the region, based on mortality, morbidity, disability, percentage of nosological forms, etc.

Students acquire research skills and competencies during studying, which takes place both in practical classes and in the performance of scientific and educational research work. The results of students' research work are taken into account when compiling the final semester ranking. Students of ONMedU made 193 reports at scientific conferences in 2020, 93 reports were outside ONMedU; 7 students (in 2019 - 62 students) took part in the 2nd stage of the All-Ukrainian Student Olympiad, and two students were awarded diplomas and prizes; 6 students took part in the 2nd round of the All-Ukrainian competition of student scientific works, 2 of them were awarded diplomas and prizes. In 2019, 15.84% of students were involved in research work, in 2020 - 17.14%, in 2021 - 25.61%. To stimulate student activity, foreign scientists and well-known experts are invited to give lectures; assistance in conducting international research and publication of abstracts and articles, including in foreign publications; facilitating contacts between young scientists and students with international research centers; participation in the organization and holding of scientific forums of young scientists with international participation. The research activity of students is coordinated by AS and SSS of the University. Today, the SSS has 59 student scientific circles, in which 702 students and 50 young scientists participate. SSS regularly organizes master classes for students on topical issues of modern medicine, research activities, publications and applications for grants. The events of the cycle "School of young scientist (Science for Dummies)" are held regularly.

The University has formed an internal and external complex procedure for supporting and evaluating EP at various stages. At the planning and implementation stage (2016), the needs for specialists in the Odessa region were monitored through analysis of the demand for specialties and prospects for the development of healthcare. In 2020, the labor market was re-analyzed to identify the need for particular medical specialists: infectious disease specialists, oncologists, surgeons, pulmonologists, obstetricians and gynecologists, and family doctors. That was taken into account when updating the structure of EP. In particular, the following disciplines were added: Precancerous Diseases of Various Localization, Clinical Immunology and Allergology, Endoscopic Technologies in Medicine, etc. Expertise is conducted through monitoring during career guidance events and vacancy fairs. The database is analytical reports of the Council of Rectors of the Odessa region and Ukraine, the Regional and City Health Department, MH of Ukraine. Based on the results, the list of competencies, PLO, and the list and structure of EP disciplines are updated. A constant analysis of EP content and structure is carried out in accordance with the legislation of Ukraine, HE standards (currently, there is no standard for specialty Medicine), professional standards, and requirements of MH of Ukraine. With introducing the mandatory volume of the variable part, in 2020, the block was increased to the normatively established 25%. In 2021, the external accreditation expertise of NAQAHE was carried out, which was preceded by a self-assessment. As part of self-analysis and external examination, strengths and weaknesses were identified, which now serve as the basis for improving EP (for example, development of a system of non-formal education, inclusive education, academic mobility). The content of the disciplines is regularly updated based on scientific achievements and contemporary medical practices. That occurs due to the implementation of scientific research by AS and the active participation in national and international scientific and practical conferences, advanced training (including international). Internal expertise of the quality of the implementation of EP at ONMedU is through monitoring and periodic review. Monitoring methods include a survey (questioning or interviewing external and internal stakeholders); monitoring the educational process at the department; analysis of the documentation of the department; expert assessment.

To develop international activity, the University has established a network of partnerships with leading universities in the world (USA, Australia, Canada, UK) through personal contacts and cooperation between individuals and research groups. For the last 3 years, the number of concluded cooperation agreements is 57, international programs - 23, grants (travel and internship) - 8. Academic mobility is regulated by the Regulations on the organization of the educational process (Section 5), and participation in international educational and scientific programs is realized: Erasmus +, Horizon 2020, etc., international projects and grants. The University has the authority to allocate resources for international activities within the framework of reimbursement of funds for international internships, business trips, participation in international forums, congresses, conferences. Students studying in the state order, keep the scholarship for the period of participation in academic exchange programs. In 2018-2019, 9 students completed studying and internships in other countries. University staff give lectures at international events. In 2020, the assistant professor of the Department of Internal Medicine №3 Zhuravlev I.V. held 4 lectures on the international educational and practical online platform "Dental Expert"; professor of the Department of Biophysics, Informatics and Medical Equipment Godlevsky L.S. gave a lecture for students of Yorgat Bozok University, Erdogan (Turkey), etc. The University is a member of the European (CRE) and International Association of Universities (IAU), the Association of Medical Faculties of Europe (Medine), the Great Charter of Universities (Magna Charta Universitatum), which ensures the optimization of educational and scientific work. It is a member of the International Scientific Committee of UNESCO. The University cooperates with the Turkish Cooperation and Coordination Agency (TİKA). It is a member of the Association of Maritime Medical Universities, the purpose of which is to establish links between medical Universities of the Black Sea and the Mediterranean basins. It is a member of the Association of Medical Education in Europe; partner and participant of the Bologna process. There is active cooperation with the British Medical Journal in the field of popularization of medical science. The University collaborates with the Ministry of Health of Poland and Germany within the framework of the program of MH of Ukraine "European training in mental health care"; and with the European Association of Endoscopic Surgery. It is a full member of the European Council and the College of Obstetrics and Gynecology (EBCOG) and the World Federation of Gynecology and Obstetrics and other international organizations.

Analysis

The description of the standard as a whole complies with the established requirements for most criteria and indicates that the material and technical base of ONMedU allows to provide theoretical and practical training and adequate implementation of the educational program, as well as research activities of students and AS. The number of clinical bases where the implementation of the EP 222 Medicine and the system of organization and practice, formed in the university, allow providing the necessary resources for students to acquire adequate clinical experience. There are wide opportunities for independent training of students: access to information and communication technologies, educational resources of the library, use of Internet at the University. AS and students are actively involved in research.

The implemented policy for the implementation of the examination of EP in the specialty Medicine requires further improvement at the stage of planning, implementation and evaluation of training. The University should intensify its work on attracting doctors with experience in conducting research in medical education, psychologists and sociologists in the field of education and specialists from leading medical universities in the world to the examination of EP, to promote the desire of employees to conduct research in medical education.

The university has defined and implemented a policy of cooperation with other medical universities, including foreign ones. The international exchange of AS and students is carried out, which is provided with appropriate resources.

The university has introduced a system of counting educational credits when transferring students from other educational institutions in accordance with national legislation. At the same time, it was noted that the active coordination of EP between ONMedU and the leading universities of the world is not sufficiently realized, and it is recommended it is recommended to the University to approve a plan of academic mobility of AS of clinical departments, providing outgoing and incoming mobility.

Strengths/best practice:

Not established.

EEC recommendations:

Approve a plan of academic mobility of the AS of clinical departments, providing outgoing and incoming mobility. Term: 01/09/2022.

Develop and implement a policy on the use of expertise at the stage of planning, implementation and evaluation of EP training with the involvement of various experts. Term: 01/09/2022.

Area for improvement:

Continue strengthening the material base of the University: carrying out repairs, purchasing equipment, and computer technology. Term: constantly.

Provide involvement of experts from the leading medical universities of the world, doctors with experience in conducting research in medical education, psychologists and sociologists in the field of education for development of EP, the introduction of new innovative teaching methods and the assessment of students' knowledge. Term: constantly.

Develop international cooperation with the leading medical universities of the world. Term: constantly.

Promote AS to conduct research in medical education. Term: constantly.

Conclusions of the EEC according to the criteria:

Strong - 0,

Satisfactory -23,

Assuming improvement -4,

Unsatisfactory - 0.

6.7. Standard "Program Evaluation"**Evidence**

The report describes a multi-level system of educational program evaluation, which includes an internal assessment of the quality of education at four levels (the level of students, the level of AS involved in the implementation of EP, the level of graduating departments implementing EP, the level of faculties) and external audit, which is issued by reviews from employers and an independent evaluation of another specialized higher education institution. Practical healthcare workers, who are members of the graduation certification commission, participate in the primary accreditation of interns, identify shortcomings and recommend changes in the educational program. The results are discussed at the Central Coordinating Methodological Council, Faculty Academic Councils, and the Academic Council of the University. A decision on improving EP is made based on the discussion results. Responsibility for monitoring the educational program is assigned to the educational-and-methodological department and the Department for Ensuring the Quality of Education. The dean's offices, the educational and methodological department, the educational department, the Department for Ensuring the Quality of Education, with the active participation of the university departments, ensure the timely implementation and evaluation of the tasks. The following is analyzed: 1) the structure of the program; 2) the ratio of the compulsory and variable parts; 3) the presence of elective disciplines; 4) kinds and types of practical training; 5) educational and methodological support; 6) availability of electronic information and educational environment; 7) staffing support; 8) material and technical support. Analysis of indicators is carried out annually, which helps develop preventive and corrective measures to improve the educational program. Mandatory review of the structure and content of the curriculum is carried out with the introduction of a new education standard at the request of program consumers. Based on the results of the evaluation of EP, the guarantor of EP, together with the education department, dean's offices, and the

educational-and-methodological department, conduct timely and reasonable updating of the educational program.

Analysis

Educational-methodical, educational departments and the department for ensuring the quality of education are responsible for regular monitoring of the EP. The organization of work is carried out in accordance with the Regulations on internal monitoring of the quality of education at ONMedU. Presented mechanisms for monitoring and evaluation of the EP "Medicine" are not systemic, taking into account the mission, the required learning outcomes, the content of the educational program, the assessment of knowledge and skills, educational resources and bringing information to all stakeholders about the results and taken corrective measures. There is no evidence of permanent systemic analysis and documented results of discussion at meetings of departments, academic councils of faculties and the University, action plans to meet the needs of consumers and the AS. At the beginning of the academic year, an internal monitoring program is drawn up and published on the website. It is necessary to develop a normative document that determines the introduction of changes in curricula and working curricula. The site contains the results of a survey of students; there is no free access to the results of the survey of employers, graduates and other stakeholders.

Strengths/best practice:

Not established.

EEC recommendations:

Introduce a systematic monitoring of EP, taking into account the mission, the required learning outcomes, the content of the educational program, assessment of knowledge and skills, educational resources. Term: 01/01/2022.

Guarantee the participation of stakeholders in the evaluation of the EP "Medicine". Term: constantly.

Area for improvement:

Ensure the transparency of the results of monitoring and the measures taken to adjust the EP. Term: constantly.

Conclusions of the EEC according to the criteria:

Strong - 0,

Satisfactory -1,

Assuming improvement -3,

Unsatisfactory - 0.

6.8. Standard "Governance and Administration"

Evidence

The ONMedU management system presented in the report allows for achieving the mission and goals, maintaining efficiency and integrity, creating the environment for learning, research, and creative activities. Powers, responsibilities, the order of interaction between the administration and structural units are described in the submitted documents, the appendix, and the references. ONMedU ensures the transparency of the management system through the implementation of a set of measures, among which the following should be noted: filling and active use in the daily activities of the official website; providing free access to relevant public information, decisions made by management and the information about structural units, work plans, reports on the activities of the university, educational programs, and curricula, tuition, repository (database of scientific, educational and methodological literature).

Responsibility for the development and management of EP lies on the project team and the guarantor. The composition of the project team is appointed by the order of the rector. Projects of the

developed or updated EP are considered at the cyclic methodological commissions in the relevant disciplines, academic councils of faculties, with further consideration at the Central Qualification Methodological Council, approved by the Academic Council of ONMedU. The SSG of the University is directly involved in the public discussion and consideration. There are reviews of employers. The vice-rectors for scientific and pedagogical work (4), the head of the Medical Council of the University, the educational department, the educational and methodological department, education quality assurance department, and structural departments within their competence control the process of implementation and ensure the quality of educational activities for all EPs and quality of education. The structure of EP is presented in Appendix 47 to the self-report. All structural subdivisions and responsible persons interact with each other within the framework of the EP management and within the boundaries of their functional powers.

For the training of administrative staff providing management of EP and related activities, there are advanced training programs, master classes, round tables in the areas of "management in education", "personnel management in the education system", etc.

The University carries out the effective management of human, material, and financial resources. The annual report of the rector, which contains quantitative and qualitative indicators of the results of the activities of ONMedU, is sent to MH of Ukraine on a mandatory basis. It is reported and posted in the public domain on the website of the University. The personnel and military mobilization department manages the process of providing EP with personnel within the framework of selection and recruitment, collection and analysis of personal data, maintenance and storage of personal files, formation of a personnel reserve of promising young employees, etc. The educational and methodological department is responsible for improving pedagogical competence. The planning and economic department is responsible for the provision of the educational process etc., and the allocation of financial resources. The material support department is responsible for providing and distributing material resources, conducting procurement, and other activities related to this type of activity. The legal department is responsible for the legal support of activities; its goal is to protect the rights and legal interests. The management of educational and administrative buildings and dormitories is carried out by the Service of operation, restoration, and modernization, the Economic Department, the car fleet, the Department of Regime and Security. The processes of economic activities are under the supervision of the chief engineer. The rector is responsible for the effectiveness of financial management at the University; the Planning and Economic Department and the chief accountant are responsible for the formation, control, and analysis of the results of budget use.

Financing of ONMedU is carried out under budget legislation, industry, and local regulations. The components of the revenue part of the University budget are the state budget and own revenues received in addition to the general budget fund and included in the special fund by groups. In 2020, the revenue part of the budget was filled at the expense of own revenues, the share of which in the structure of the consolidated budget was 62.8% (including in the following areas: educational - the portion of state budget funds was 16.1% (for relative to the funds of the consolidated budget); own receipts, including charitable assistance in kind - 61.8%; medical - 21.1% and 0.8%; scientific - 0.03% and 0.2 %); general fund allocations - 37.2%. The structure of the budget and expenses for the EP Medicine is in Appendix 46 to the self-report. Cost items for EP include payments to the University staff; purchase of goods, works, and services for household needs; social provision and other payments; other budget appropriations. The financial management policy is based on the principles of efficiency, effectiveness, priority, transparency, responsibility, which confirms the positive balance (a budget surplus) on the special fund (at the beginning of 2021 - UAH 326,900.6 thousand) and budget execution on the general fund for 100 %. In order to communicate information to all employees, the results of financial and economic activities are reported to the Academic Council of the University annually. The estimate of the University, information about the implementation of tender procedures, and financial reports are publicly available on the University's website. Public procurement of the University, in accordance with the Law of Ukraine "On Public Procurement" exceeding UAH 50 thousand, is carried out through the electronic system "Derzhakupivli. Online" (ProZorro), which ensures transparency and openness.

ONMedU strives to improve customer satisfaction in quality education. For this purpose, an internal system of education quality assurance, consisting of 4 levels, is formed. These levels are university-wide level (the Rector, vice-rectors, Academic Council, working and collegiate bodies); faculties and departments (central qualification methodological council, subject-cycle methodological commissions, deans, guarantors, heads of departments, AS); structural subdivisions (department of education quality assurance, educational department, educational and methodological department, EIC ITTICE, etc. within their competence); students level (SSG). The person who guarantees a high level of education quality at the University is the Rector, and the main authorized person responsible is the Vice-Rector for Education Quality Assurance.

According to its mission, the University is involved in solving issues related to HC in the region, which is carried out in the provision of medical care by the staff of clinical departments. Own clinical cites provide highly qualified therapeutic, surgical, ophthalmological, advisory, diagnostic assistance to the population of the Odesa region, other regions of Ukraine, and citizens of foreign countries. The interaction with the HC sector is managed by the Head of the Medical Council of the University and the Head of the Medical Treatment Organization Department. Leading specialists among AS of the clinical departments are members of the expert groups created by MH of Ukraine. The clinical doctors participate in the work of city scientific and practical societies in various fields. Some heads of clinical departments are members of different associations. The joint work of ONMedU with the institutions of HC is regulated by Articles 1130, 1131 of the Civil Code of Ukraine, Decree of CM of Ukraine "Some Issues of Improving the HC System" No. 208 dated 17/02/2010; the Law of Ukraine "Fundamentals of Ukrainian Legislation on HC"; orders of MH of Ukraine: "On Approval of Amendments to Some Orders of the Ministry of Health" No. 1106 dated 12/05/2020; "On Approval of the Lists of Medical Services of Institutions, Medical, Pharmaceutical Positions and Positions of Junior Specialists with Pharmaceutical Education in the Institutions of HC" No. 385 dated 28/10/2002; "On Approval of the Regulations on Expert Groups of MH of Ukraine" No. 302 dated 21/03/2017; "Some Issues of Continuous Professional Development of Doctors" No. 446 dated 22/02/2020 "Regulations on the Clinical Institution of HC" No. 174 dated 05/06/1997, etc.

All scientific medical research and medical work are focused on priority areas of medical science: maternal and child health, oncology, cardiology, urology, orthopedics and traumatology, phthiology, etc. That allows, together with practical HC, for developing and improving methods of prevention, diagnosis, and treatment of the most common diseases, by providing effective highly-specialized care and promoting the development and improvement of continuing medical education. The interaction of clinical department staff of the University with representatives of the other institutions of HC allows them to improve the quality of medical staff training and to monitor their further professional activity. Postgraduate education of physicians (advanced training, specialization, etc.) at the University is the responsibility of FPE. Approved programs of postgraduate medical education in EP Medicine are presented in Appendices 48, 49 to the self-evaluation report.

The University complies with the legislation in the field of HE regarding the number and types of recognized medical specialties. According to the Resolution of CM of Ukraine "On the Order of Employment of Graduates of HEIs whose Training was Carried out on State Order" No. 992 dated 22/08/1996 (as amended on 30/04/2015), medicine is the only specialty in which universities are obliged to provide their graduates with a place of employment in the public sector of the national economy. The University follows NQF and professional standards. The types of recognized medical positions are determined by Order of MH "On Approval of the Lists of Medical Services of Institutions, Medical, Pharmaceutical Positions and Positions of Junior Specialists with Pharmaceutical Education in Institutions of HC" No. 385 dated 28/10/2002 (it is auxiliary for the introduction of new disciplines, relevant to the national system of HC).

Analysis

The analysis of the specialized profile showed that the implementation of the standard "Governance and Administration" of ONMedU meets the criteria of the IAAR Standards.

The management structures of the university are defined within the framework of national regulations: the Constitution of Ukraine 28/06/1996, the Laws of Ukraine "On Education" No. 2145-VIII dated 05/09/2017, "On Higher Education" No. 1556-VII dated 01/07/2014, "On Scientific and Scientific-Technical Activities" No. 848-VIII dated 26/11/2015, Charter of the University, license issued by the MES of Ukraine No. 37-I dated 30/03/2021, etc.

The transparency of the management system and accepted decisions is ensured by posting information on the website of the university.

Cooperation with partners in the healthcare sector has an official status and is confirmed by a list of contracts with clinical bases.

The department of quality assurance of education carries out the internal program of quality management assurance. The quality system of the university received certificates of compliance with the requirements of ISO 9001:2015, but the certificates expired in 2020. At the same time, there is no clear representation of the implementation of the EP "Medicine" in accordance with the rules of the process. The quality development program requires attention and improvement. The University should develop and implement an internal quality management assurance program, including the needs for improvement, to conduct a regular review and analysis of management to improve quality.

Strengths/best practice:

Not established.

EEC recommendations:

Review the structure and operation of the internal quality assurance system. Conduct training for responsible staff and the guarantor of the EP "Medicine". Term: by 01/09/2022

Area for improvement:

Develop and implement an internal quality management program, including consideration of needs for improvement, regular review and analysis of management for quality improvement. Term: by 01/09/2022.

Conclusions of the EEC according to the criteria:

Strong - 0,

Satisfactory -19,

Assuming improvement -4,

Unsatisfactory - 0.

6.9. Standard "Continuous Renewal"

Evidence

Having centuries-old traditions, ONMedU is a dynamic and socially responsible educational institution, which constantly and systematically updates its internal structure, the content of educational programs, contributing to the development of quality education based on competence and a student-centered approach. ONMedU strives to improve the skills of AS, introduce new forms and methods of teaching, and evaluate the learning outcomes of students, interns, and postgraduate students. In 2016, the University developed the educational and professional program "Medicine" (a master's degree) within the relevant specialties. The programs were updated in 2019 and 2020. Changes in legislative and regulatory documents, the results of surveys, and recommendations of students, AS, representatives of employers are the basis for making changes. The detailed review and update process is in p. 6.5.3. One of the ways to improve EP is to update the list of elective disciplines. EP was expanded with a catalog of elective disciplines in 2020. AS, based on the results of research activities, participation in international and national scientific events, studying innovative experience, advanced training, constantly updates the content of academic disciplines. There are some examples: topics on endovascular surgery were included in the course of surgery (5th year); "Optimizing the control of preoperative bleeding during tonsillectomy

by using tranexamic acid solution" and "Differentiated approach to the surgical treatment of patients with malignant neoplasms of the external nose" - in the course of otolaryngology; recommendations for laboratory diagnosis and treatment of HIV-infected patients - in Internal Medicine (6th year). In 2020, the program competencies and PLO were updated; the number and structure of disciplines were expanded to adapt EP "Medicine" to the needs of the national HC system in terms of maintaining, strengthening, and improving the health of the population of Ukraine, the labor market, the regional and sectoral context. In particular, the following competencies, aimed at forming students' understanding of medical and sanitary needs of the society, the needs of the HC system, and other aspects of social responsibility, were introduced: GC5; GC9; GC10; SC15; SC16. For a better formation of these competencies, disciplines related to HIV infections, oncology, infectious diseases, the organization of palliative and hospice medicine, etc. were included in EP. The following key trends in the development of medicine were also taken into account during the updating of the EP "Medicine": development of preventive medicine (PLO 10; PLO 11; PLO 16; PLO 17); evaluation of the effectiveness of pharmaceutical drugs and personalized medicine (introduction to Pharmacokinetics and Personalized Medicine); development of minimally invasive methods of surgical interventions (introduction to Endoscopic Technologies in Medicine and Actual issues of minimally invasive surgical technologies); management and administration in the field of HC, etc.

In 2017, the University received certificates of compliance of the education quality management system with the international standard ISO 9001:2015 (the certificates, presented on the website, expired in 2020). The University has a strategic development concept, which is regularly revised depending on changes in the regulatory framework or the needs of the University, analysis of the internal and external environment, its changes, as well as trends in the development of medical education, science and practice. The University pursues a policy of continuous professional development of all employees under conditions of equal opportunities (racial, gender, age, etc.).

For the effective implementation of educational programs, improvement, and development of the activities of the University, ensuring the high quality of education, appropriate material, technical, and information resources are needed. Annually, at the meeting of the Academic Council of the University, the financial report for the past calendar year is considered, and the financial plan for the next calendar year is approved. The allocation of resources occurs in strict accordance with the current financial legislation. Deans' offices and departments that ensure the implementation of the EP "Medicine" formalize their needs as funding applications and submit documents for consideration to the relevant subdivisions of the administrative part, where they are processed and, depending on their nature, can be included in the plan. All documents related to procurement are available on the University website, which ensures transparency of financial procedures for the use of resources. All departments keep records of physical and technical resources for their rational use. The heads of departments control the fulfillment of academic hours; the educational department provides monthly and semester control, which allows for planning financial resources for the implementation of EP in full in the future. Depending on the strategic goals, the University Administration determines the needs and allocates resources. For example, in 2020, the purchase of goods, works, and services was carried out in the following priority areas: the equipment, tools, simulation equipment, and consumables to ensure the implementation of the EP "Medicine"; computer and office equipment, software for EP; building materials to prepare the premises of the University for the new academic year, etc. Significant resources are allocated to ensure the implementation of the program in a remote format in the context of COVID-19. To improve the implementation of the EP "Medicine", departments and structural subdivisions providing EP are equipped with software and computer equipment; 100% multimedia equipment; equipped with 4 simulation centers; expanded Wi-Fi coverage; equipped about 200 new computerized workplaces; updated information and library collections and databases (national and international).

ONMedU constantly improves the process of monitoring and evaluating the quality of educational services at the level of EP "Medicine" by updating technologies, methods and assessment procedures. There are improvements in several areas: introduced the position of Vice-Rector for Quality Assurance of Education with the reassignment of the department of quality assurance of education; updated the existing questionnaires and introduced new ones; expanded the areas of monitoring; carried out a systematic self-

evaluation of EP in national and international accreditation. Activation of student representatives and external expertise of EP by reviewing and providing feedback by external stakeholders; their participation in the meetings of the working groups of EP; discussion of the results and revision of the key positions of the implementation of the educational process.

The University activates the process of involving students and employers through collegial governing bodies, which guarantees the principle of open management. Decentralization of management processes and reduction of hierarchical levels of management is carried out in order to optimize it. It is planned to introduce key performance indicators for all positions in order to improve the effectiveness of the University management system.

Analysis

The medical education organization is functioning as a dynamic and socially responsible institution. Updating curricula is due to changes in legislative and regulatory documents, the results of surveys, and recommendations from students, AS, and representatives of employers. The variability and individualization of education are provided by various elective disciplines on the most relevant medical, psychological, and clinical problems. In 2020, the program competencies and PLO were updated, the list of academic disciplines and their structure expanded. In particular, the following competencies, aimed at forming students' understanding of medical and sanitary needs of the society, the needs of the HC system, and other aspects of social responsibility, were introduced: GC5; GC9; GC10; SC15; SC16. The following key trends in medicine were also taken into account during the updating of the EP "Medicine": development of preventive medicine (PLO 10; PLO 11; PLO 16; PLO 17); evaluation of the effectiveness of pharmaceutical drugs and personalized medicine (introduction to Pharmacokinetics and Personalized Medicine); development of minimally invasive methods of surgical interventions (introduction to Endoscopic Technologies in Medicine and Actual issues of minimally invasive surgical technologies); management and administration in the field of HC, etc.

Strengths/best practice:

Not established.

EEC recommendations:

The management of EP should annually monitor the methods and methods of teaching core disciplines, including practice bases and branches of leading departments to adapt the model of educational programs and methodological approaches; to ensure their compliance with modern theories in education, adult learning methodology, the introduction of active learning principles and improve the quality of EP. Start: September 2022.

Ensure in the development of the EP "Medicine" its adaptation and the outcomes of medical education to the scientific, socio-economic and cultural development of society for the future.

Implement the development of assessment principles, methods of conducting, and the number of examinations in accordance with changes in learning outcomes and methods of teaching and learning.

Ensure the improvement of the process of monitoring and evaluation of the EP. Term: constantly.

Area for improvement:

The university management should regularly conduct bench-marking and analytical research in the field of medical education (December 2021 and onwards).

Conclusions of the EEC according to the criteria:

Strong - 0,

Satisfactory -6,

Assuming improvement -5,

Unsatisfactory - 0.

(VII) OVERVIEW OF STRENGTHS/BEST PRACTICE FOR EACH STANDARD

- ✓ **STANDARD I "MISSION AND OUTCOMES"** *not established.*
- ✓ **STANDARD II "EDUCATIONAL PROGRAM"** *not established.*
- ✓ **STANDARD III "ASSESSMENT OF STUDENTS"** *not established.*
- ✓ **STANDARD IV "STUDENTS"** *not established.*
- ✓ **STANDARD V "ACADEMIC STAFF/FACULTY"** *not established.*
- ✓ **STANDARD VI "EDUCATIONAL RESOURCES"** *not established.*
- ✓ **STANDARD VII "PROGRAM EVALUATION"** *not established.*
- ✓ **STANDARD VIII. "GOVERNANCE AND ADMINISTRATION"** *not established.*
- ✓ **STANDARD IX. "CONTINUOUS RENEWAL"** *not established.*

(VIII) OVERVIEW OF RECOMMENDATIONS FOR IMPROVING QUALITY**8.1 STANDARD "MISSION AND OUTCOMES"**

Develop the mission of the EP 222 Medicine with the involvement for discussion and taking into account the opinions of a wide range of internal and external stakeholders.

Reflect in the mission of EP the consideration of the health needs of the community, the needs of the healthcare system, and other aspects of social responsibility.

Using various methods and tools (website, social networks, stands, etc.), bring the mission of EP "Medicine" to the attention of stakeholders and the healthcare sector.

Area for improvement:

In order to expand the range of external stakeholders when discussing the mission, both state structures of the healthcare system and professional associations, non-governmental and other organizations should be involved.

Introducing innovative methods of teaching and assessing students' knowledge should be ensured. Develop a Regulation (procedure) for the implementation of innovations in the educational process. Promote the aspiration and interests of employees in conducting research in medical education.

8.2 STANDARD "EDUCATIONAL PROGRAM"

Apply to the MES and the MH of Ukraine with a request to accelerate the development and approval the HE standard of the second level of training for undergraduates of Master's degree in the field of "Healthcare" in the specialty "Medicine" at the national level. Term: by 01/01/2022

Develop a procedure for regular evaluation of the EP and feedback. Term: by 06/01/2022

Involve students, teaching staff and other interested parties in the development and revision of the EP 222 Medicine. Term: on an ongoing basis

Introduce innovative pedagogical technologies on the example of the best international practices. Term: by 01/09/2022.

Ensure the development of communication skills during the entire educational process for effective interaction and cooperation with patients and their families and management of professional conflicts. Term: 01/01/2022 and onwards on an ongoing basis

Area for improvement:

In order to provide comprehensive support students, a system of mentoring, tutoring, mentoring should be involved. Term: by 06/01/2022.

8.3 STANDARD "ASSESSMENT OF STUDENTS"

Involve leading specialists in practical healthcare for external review of assessment methods, as well as independent examiners, who will help to ensure higher fairness, quality, transparency, and independence of competency assessment. Term: constantly.

Area for improvement:

It is necessary to introduce new assessment methods and optimize the student assessment system using methods focused on the degree of achievement of learning outcomes, taking into account international practice. Term: 09/01/2022.

When monitoring and reviewing the EP, EP supervisors should improve the quality assurance process of assessment practice in terms of determining and documenting the reliability and validity of assessment methods, taking into account the peculiarities of professional training. Term: constantly.

It is necessary to develop a local regulatory legal act regulating the forms, methods and procedure for obtaining and providing feedback to undergraduates based on the results of the assessment. Term: by 01/01/2022.

8.4 STANDARD "STUDENTS"

Regard a problem of inclusion of medical professional organizations in the policy development process and student selection process. Term: constantly.

Implement a mentoring (tutoring) system that provides feedback between students and teachers. Term: by 06/01/2022.

Actively implement a policy of appropriate participation of students in the development and evaluation of the EP Medicine. Term: constantly.

Establish a program for the development of academic mobility of students. Term: by 06/01/2022.

Develop a provision on inclusive education for persons with special needs. Term: by 09/01/2022.

8.5 STANDARD "ACADEMIC STAFF/FACULTY"

Include training of AS in innovative educational technologies and assessment methods in the plan to improve the pedagogical competence, taking into account the peculiarities of medical education and involving partner universities. Term: 01/01/2022 and onwards on an ongoing basis

8.6 STANDARD "EDUCATIONAL RESOURCES"

Approve a plan of academic mobility of the AS of clinical departments, providing outgoing and incoming mobility. Term: 01/09/2022.

Develop and implement a policy on the use of expertise at the stage of planning, implementation and evaluation of EP training with the involvement of various experts. Term: 01/09/2022.

Area for improvement:

Continue strengthening the material base of the University: carrying out repairs, purchasing equipment, and computer technology. Term: constantly.

Provide involvement of experts from the leading medical universities of the world, doctors with experience in conducting research in medical education, psychologists and sociologists in the field of education for development of EP, the introduction of new innovative teaching methods and the assessment of students' knowledge. Term: constantly.

Develop international cooperation with the leading medical universities of the world. Term: constantly.

Promote AS to conduct research in medical education. Term: constantly.

8.7 STANDARD "PROGRAM EVALUATION"

Introduce a systematic monitoring of EP, taking into account the mission, the required learning outcomes, the content of the educational program, assessment of knowledge and skills, educational resources. Term: 01/01/2022.

Guarantee the participation of stakeholders in the evaluation of the EP "Medicine". Term: constantly.

Area for improvement:

Ensure the transparency of the results of monitoring and the measures taken to adjust the EP. Term: constantly.

8.8 STANDARD "GOVERNANCE AND ADMINISTRATION"

Review the structure and operation of the internal quality assurance system. Conduct training for responsible staff and the guarantor of the EP "Medicine". Term: by 01/09/2022

Area for improvement:

Develop and implement an internal quality management program, including consideration of needs for improvement, regular review and analysis of management for quality improvement. Term: by 01/09/2022.

8.9 STANDARD "CONTINUOUS RENEWAL"

The management of EP should annually monitor the methods and methods of teaching core disciplines, including practice bases and branches of leading departments to adapt the model of educational programs and methodological approaches; to ensure their compliance with modern theories in education, adult learning methodology, the introduction of active learning principles and improve the quality of EP. Start: September 2022.

Ensure in the development of the EP "Medicine" its adaptation and the outcomes of medical education to the scientific, socio-economic and cultural development of society for the future.

Implement the development of assessment principles, methods of conducting, and the number of examinations in accordance with changes in learning outcomes and methods of teaching and learning.

Ensure the improvement of the process of monitoring and evaluation of the EP. Term: constantly.

Area for improvement:

The university management should regularly conduct bench-marking and analytical research in the field of medical education (December 2021 and onwards).

(IX) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF EDUCATIONAL ORGANIZATION

Develop and implement monitoring of the educational program at all stages of its development, implementation and evaluation of results for continuous improvement of the educational process.

Provide in the plan for the development of the university continuous training in the field of management of the organization and medical education for representatives of the administrative and managerial staff and faculty.

More actively introduce approaches and methods of corporate governance into the university management system.

Make wider use of academic exchange mechanisms to enrich the educational process with modern international technologies.

(X) RECOMMENDATION TO THE ACCREDITATION COUNCIL

Appendix 1. Evaluation table "PARAMETERS OF INSTITUTIONAL PROFILE"

EP 222 "Medicine" (Master's degree)

No.	No.	No.	ASSESSMENT CRITERIA	Position of the education organization			
				Strong	Satisfied	Assumes improvement	Unsatisfied
		1.	"MISSION AND OUTCOMES"				
		1.1	Statement of mission				
1	1	1.1.1	Medical educational institution must define the mission of postgraduate educational program			+	
2	2	1.1.2.	The medical education institution should communicate the mission of the postgraduate education program to stakeholders and the health care sector			+	
			The medical education institution must define a program of study to prepare a specialist at the postgraduate medical education level:				
3	3	1.1.3	Competent in any field of medicine, including all types of medical practice, management, and institution of health care			+	
4	4	1.1.4	able to work at a high professional level.			+	
5	5	1.1.5	able to work unsupervised, independently and in teams as needed.			+	
6	6	1.1.6	with a commitment to lifelong learning that includes the professional responsibility to support the level of knowledge and skills through performance evaluations, auditing, learning from their own practice, and recognized activities in the CPD/CME.			+	
7	7	1.1.7	The medical education institution should ensure that the mission encompasses consideration of community or societal health needs, health system needs, and other aspects of social responsibility, as appropriate			+	
			The medical education institution should encourage:				
8	8	1.1.8	Innovation in the educational process, allowing for the development of broader competencies than minimally necessary.			+	
9	9	1.1.9	improved patient care that is necessary, effective, and compassionate in addressing HE and health promotion issues.			+	
10	10	1.1.10	organizing and conducting research by postgraduate trainees.			+	
		1.2	Participation in formulation of mission				
11	11	1.2.1	The medical education institution must ensure that key stakeholders are involved in the development of the mission statement.			+	
12	12	1.2.2	The medical education institution should ensure that the mission statement is based on the views/suggestions of other relevant stakeholders.			+	
		1.3	Institutional autonomy and academic freedom				
13	13	1.3.1	A medical education institution must have a training process that is based on recognized basic and postgraduate medical education and promotes the professionalism of the trainee			+	
14	14	1.3.2	The medical education institution must ensure that the training process promotes professional autonomy to enable the graduate to act			+	
		1.4	Educational outcomes				
			The medical education institution must define the expected learning outcomes that learners are expected to achieve in the learning outcomes, relative to:				
15	15	1.4.1	their achievements at the postgraduate level with respect to knowledge, skills, and thinking;			+	
16	16	1.4.2	an appropriate foundation for a future career in the chosen branch of medicine;			+	
17	17	1.4.3	their future roles in the healthcare sector;			+	

18	18	1.4.4	commitment and skills in implementing continuing education;		+		
19	19	1.4.5	the health needs of society, the needs of the healthcare system, and other aspects of social responsibility;		+		
20	20	1.4.6	professional behavior.		+		
			The medical education institution must identify:				
21	21	1.4.7	The general and discipline-specific components of the educational outcomes that students are required to achieve		+		
22	22	1.4.8	appropriate behavior in relation to undergraduates and other students, teachers, patients and their relatives in accordance with appropriate standards of behavior.		+		
23	23	1.4.9	Medical educational institution should determine the educational results based on the results obtained at the level of basic medical education.		+		
Total					-	17	6 -
		2.	STANDARD "EDUCATIONAL PROGRAM"				
		2.1	Curriculum models and instructional methods				
			The medical education institution must :				
24	1	2.1.1	define an educational program based on the results of existing basic medical education, organize the training approach in a systematic and transparent manner.		+		
25	2	2.1.2	describe common and discipline/specialty-specific components of learning.		+		
26	3	2.1.3	use teaching and learning methods that are suitable for both practice as well as theory		+		
27	4	2.1.4	define the teaching and learning methods used that stimulate, prepare and support students to take responsibility for their learning process.			+	
28	5	2.1.5	Guarantee that the EP is implemented in accordance with the principles of equality.		+		
			The medical education institution should :				
29	6	2.1.6	Have a system/procedures and guide the learner through mentoring and regular assessment and feedback.			+	
30	7	2.1.7	Increase the degree of autonomous responsibility of the trainee as skills, knowledge and experience improve.		+		
		2.2	Scientific method				
			The medical educational institution must :				
31	8	2.2.1	Teach trainees the principles of scientific methodology appropriate to the level of postgraduate education and provide evidence that the trainee achieves knowledge and understanding of the scientific basis and methods of the chosen field of medicine;		+		
32	9	2.2.2	Provide evidence that the learner is exposed to evidence-based medicine as a result of extensive access to relevant clinical/practical experience in the chosen field of medicine		+		
			The medical education institution should :				
33	10	2.2.3	Include formal teachings on critical appraisal of literature and scientific evidence in the EP.		+		
34	11	2.2.4	Ensure that the learner has access to scholarly activities		+		
35	12	2.2.5	in the EP to adjust and modify the content of scientific developments.		+		
		2.3	Basic biomedical sciences				
			The medical education institution must include in the learning process both practice and theory about:				
36	13	2.3.1	biomedical, clinical, behavioral and social sciences.		+		
37	14	2.3.2	clinical solutions		+		
38	15	2.3.3	communication skills.			+	
39	16	2.3.4	medical ethics.		+		
40	17	2.3.5	public health.		+		
41	18	2.3.6	medical jurisprudence.		+		
42	19	2.3.7	management disciplines.		+		
43	20	2.3.8	organize an EP with the appropriate attention to safety		+		
			The medical education institution should adjust and amend the EP in order to:				
44	21	2.3.9	ensuring the development of knowledge, skills and thinking of the different roles		+		

			of the graduate;					
45	22	2.3.10	Content matching EP changing conditions and needs of society and the health system.		+			
		2.4	Curriculum structure, composition and duration					
			Medical educational institution must :					
46	23	2.4.1	Give a description of the content, volume and sequence of courses and other elements of the educational program		+			
47	24	2.4.2	Define obligatory and elective components		+			
48	25	2.4.3	combine practice and theory in the learning process		+			
49	26	2.4.4	ensure compliance with national legislation		+			
			The medical education institution should in the EP:					
50	27	2.4.5	Consider results basic medical education regarding the choice of the field of medicine		+			
51	28	2.4.6	requirements for fulfilling various roles in the HC system for the future graduate		+			
		2.5	Clinical sciences and skills					
52	29	2.5.1	describe and observe the integration between theoretical training and professional development.		+			
53	30	2.5.2	Guarantee the integration of training and professional internship, including through on-the-job training.		+			
			The medical education institution should in the EP:					
54	31	2.5.3	Effectively arrange for the use of the health care system for training purposes, including the provision of on-the-job training.		+			
55	32	2.5.4	Guarantee that such training is additional and not subject to the requirements for the provision of medical services.		+			
		2.6	Program management					
			The medical educational institution must :					
56	33	2.6.1	Define responsibility and authority for organizing, coordinating, managing, and evaluating the individualized learning environment and learning process.			+		
57	34	2.6.2	Include in the planning and development of the educational program due representation from the faculty, students and other relevant stakeholders.			+		
			The medical educational institution should in the EP:					
58	35	2.6.3	Guarantee a variety of learning locations.		+			
59	36	2.6.4	Coordinate multiple sites of study for appropriate access to different aspects of the chosen field of medicine		+			
60	37	2.6.5	Have access to the resources necessary to plan and implement teaching methods.		+			
61	38	2.6.6	Have access to resources needed to plan and implement learner assessment.		+			
62	39	2.6.7	Have access to resources needed to plan and implement learning program innovations.		+			
Total					-	34	5	-
		3.	STANDARD "ASSESSMENT OF STUDENTS"					
		3.1	Assessment methods					
			The medical education institution must :					
63	1	3.1.1	to present the process of evaluating students in EP		+			
64	2	3.1.2	define, endorse and publish the principles, methods and practices used to assess learners, including the number of exams and other tests, balancing written and oral examinations, using criteria-based and reasoning-based assessment methods and specific examinations, and defining criteria for establishing passing points, grades and the number of allowed retakes;		+			
65	3	3.1.3	ensure that the assessment covers knowledge, skills and attitudes towards learning;		+			
66	4	3.1.4	use a wide range of assessment methods and formats depending on their "usefulness assessment", which includes a combination of validity, reliability, impact on learning, acceptability and effectiveness of assessment methods and format;				+	
67	5	3.1.5	Formulate criteria for passing exams or other types of assessment, including the number of allowed retakes;		+			
68	6	3.1.6	use assessment methods that provide formative teaching methods and constructive feedback.		+			
			The medical education institution should :					
69	7	3.1.7	Document and evaluate the reliability and validity of assessment methods, which requires an appropriate quality assurance process for existing assessment practices;				+	

70	8	3.1.8	Introduce new assessment methods in accordance with the need;			+	
71	9	3.1.9	Use the system for appeal of the evaluation results.			+	
72	10	3.1.10	encourage the process of peer review by external experts on assessment methods;			+	
73	11	3.1.11	Use the system appealing the results of the assessment;			+	
74	12	3.1.12	If it is necessary to organize "Other opinion ", change of academic staff or additional training			+	
		3.2	Relation between assessment and learning				
			The medical education institution must use the principles, methods and practice of assessment, including the educational achievements of undergraduates and the assessment of knowledge, skills, professional relationship values that:				
75	13	3.2.1	clearly comparable to teaching methods, teaching and learning outcomes;			+	
76	14	3.2.2	ensure that learners reach the PLO			+	
77	15	3.2.3	contribute to the learning of students;			+	
78	16	3.2.4	determine the adequacy of training, provide an appropriate balance between formative and summative assessment in order to manage learning and assess the academic progress of a master's student, which requires the establishment of rules for assessing progress and their relationship to the evaluation process.			+	
			The medical education institution should :				
79	17	3.2.5	Use principles, methods and practices that encourage integrated learning;			+	
80	18	3.2.6	encourage integration with practice, including clinical practice;			+	
81	19	3.2.7	Guarantee the provision in a timely manner, specific, constructive and fair feedback to undergraduates based on the results of the assessment.				+
			Total			-	14 5 -
		4.	STANDARD "STUDENTS"				
		4.1	Admission policy and selection				
			The medical education institution must :				
82	1	4.1.1	Define and implement an admissions policy that is based on the mission of the institution and includes a clearly established provision for the student selection process;			+	
83	2	4.1.2	Ensure a balance between learning opportunities and admission of students			+	
84	3	4.1.3	Formulate and implement policies/rules for the selection of students according to established criteria			+	
85	4	4.1.4	Have a policy and implement practices for the admission of students with disabilities in accordance with applicable laws and regulations of the country			+	
86	5	4.1.5	Have a policy for transferring students from other programs and medical educational institutions;			+	
87	6	4.1.6	Include medical professional organization the policy development process and the student selection process.				+
			The medical education institution should :				
88	7	4.1.7	Guarantee a transparent selection process;			+	
89	8	4.1.8	Provide transparent admission to all qualified graduates of basic medical education			+	
90	9	4.1.9	Consider, as part of their selection procedure, specific opportunities for potential trainees to enhance learning outcomes in their chosen field of medicine			+	
91	10	4.1.10	Include an appeal mechanism for admission decisions			+	
92	11	4.1.11	Periodically review admission policies based on relevant social and professional data to meet the health care needs of the community and society.			+	
		4.2	Student intake				
93	12	4.2.1	The medical educational institution must determine the number of students admitted in accordance with the material and technical and opportunities at all stages of education and training.			+	
			The medical education institution should :				
94	13	4.2.2	Consider the number and number of trainees accepted in consultation with the relevant stakeholders responsible for planning and developing human resources in the health sector.			+	
		4.3	Student counseling and support				
			The medical education institution must :				
95	14	4.3.1	Have a policy/system for academic advising of graduate students.			+	
96	15	4.3.2	Have policies/mechanisms to support undergraduates focused on social, financial and personal needs, allocation of appropriate resources for social and personal support.			+	

97	16	4.3.3	Guarantee confidentiality regarding advising and support provided.		+		
98	17	4.3.4	Provide for resources to support graduate students		+		
99	18	4.3.5	The medical education institution should provide support in case of professional crisis and problematic situations.		+		
		4.4	Student representation				
			The medical education institution must determine and implement a policy for the representation of students and their respective participation.				
100	19	4.4.1	in the development of the EP;		+		
101	20	4.4.2	management of the EP;		+		
102	21	4.4.3	evaluation of the educational program;		+		
103	22	4.4.4	planning conditions for students.		+		
104	23	4.4.5	The medical education institution should encourage students to participate in making decisions about the processes, conditions and rules of learning		+		
			<i>Total</i>	-	22	1	-
		5.	STANDARD "ACADEMIC STAFF/FACULTY "				
		5.1	Recruitment and selection policy				
			The medical education institution must determine and implement a policy for the selection and admission of teachers, which:				
105	1	5.1.1	takes into account the required work experience;		+		
106	2	5.1.2	contains criteria for the scientific, pedagogical, and clinical merit of applicants, including the proper balance between pedagogical, scientific, and clinical qualifications;		+		
107	3	5.1.3	defines their responsibilities;		+		
108	4	5.1.4	defines training responsibilities, including the balance between teaching, research, and other functions		+		
109	5	5.1.5	Take into account the mission of the EP.		+		
			The medical education organization should consider criteria in its selection and hiring policies such as:				
110	6	5.1.6	Define the responsibilities of academic staff in terms of their participation in postgraduate education;		+		
111	7	5.1.7	Determine the level of compensation for participation in postgraduate education;		+		
112	8	5.1.8	Guarantee that faculty members have practical experience in their respective fields;		+		
113	9	5.1.9	Ensure that sub-specialty faculty, if necessary, are approved for appropriate periods of study.		+		
		5.2	Staff policy and development				
			The medical education institution must :				
114	10	5.2.1	Ensure that students and teachers have sufficient time for instruction, counseling, and self-study		+		
			The medical educational institution should :				
115	11	5.2.2	Consider the teacher-trainee ratio, depending on the various components of the educational program and		+		
116	12	5.2.3	taking into account the peculiarities of the educational program;		+		
117	13	5.2.4	Develop and implement support policies for employees, including self-study and further professional development;		+		
			<i>Total</i>	-	13	-	-
		6.	STANDARD "EDUCATIONAL RESOURCES"				
		6.1	Physical resources				
			The medical education institution must provide:				
118	1	6.1.1	sufficient material and technical facilities to ensure adequate implementation of the educational program, space and opportunities for practical and theoretical research;		+		
119	2	6.1.2	access to up-to-date professional literature;		+		
120	3	6.1.3	Adequate information and communication technologies;		+		
121	4	6.1.4	Modern equipment for teaching practical methods.		+		
			The medical education institution should :				
122	5	6.1.5	Improve the learning environment through regular renovation, expansion, and strengthening of facilities and equipment to maintain appropriate quality of education at the postgraduate level.		+		
		6.2	Clinical training resources				

			The medical educational institution must provide the necessary resources for students to have adequate hands-on experiences, including the following:					
123	6	6.2.1	Selection and approval of an educational environment;		+			
124	7	6.2.2	Availability of access to sufficient clinical/practical facilities/bases to provide training;		+			
125	8	6.2.3	Sufficient number of patients where appropriate;		+			
126	9	6.2.4	Appropriate variety of clinical cases to meet learning goals and objectives;		+			
127	10	6.2.5	Organization of training in such a way as to provide the learner with a broad experience in the chosen area of medicine.		+			
			The medical education institution should , in selecting the learning environment:					
128	11	6.2.6	Guarantee the number of patients and appropriate variety of clinical cases to provide clinical experience in all aspects of the chosen specialty, including training in healthcare organization and management and disease prevention		+			
129	12	6.2.7	training in a university clinic, as well as training in other appropriate clinics/institutions and community sites/locations as appropriate.		+			
		6.3	Information Technology					
130	13	6.3.1	The medical education institution must identify and implement policies that address the effective use and evaluation of appropriate information and communication technologies in the educational program.		+			
			The medical education organization should provide opportunities and encourage teachers and trainees to use information and communication technologies:					
131	14	6.3.2	For independent study		+			
132	15	6.3.3	Access to HC information resources and relevant patient data;		+			
133	16	6.3.4	Patient management;		+			
134	17	6.3.5	Work in the HC system to provide healthcare.		+			
		6.4	Medical and academic research					
			The medical education institution must :					
135	18	6.4.1	Introduce a methodology for scientific medical research EP		+			
			The medical education organization should :					
136	19	6.4.2	Encourage trainees to participate in medical research that examines the state and quality of public health and the health care system		+			
137	20	6.4.3	Provide access to research facilities and		+			
		6.5	Educational expertise					
			The medical educational institution must :					
138	21	6.5.1	Develop and implement a policy on the use of expertise in the planning, implementation, and evaluation phase of training for a particular EP			+		
			The medical education institution should :					
139	22	6.5.2	Have access to educational expertise, where appropriate, and conduct expertise that examines medical education processes, practices, and problems and may involve physicians with expertise in medical education research, educational psychologists and sociologists, or involve experts from other national and international institutions.			+		
140	23	6.5.3	to promote the aspirations and interests of the staff in conducting research in medical education.			+		
		6.6	Educational exchanges					
			The medical educational institution must establish and implement policies for:					
141	24	6.6.1	Accessibility of individual learning opportunities in other educational organizations at the appropriate level within or outside the country;		+			
142	25	6.6.2	Transfer and offsetting of educational credits and learning outcomes.		+			
			The medical education institution should :					
143	26	6.6.3	Facilitate regional and international exchange of staff (academic, administrative, and teaching staff) and trainees by providing appropriate resources;			+		
144	27	6.6.4	Establish links with relevant national and international bodies for the exchange and mutual recognition of learning elements		+			
Total					-	23	4	-
		7.	STANDARD "PROGRAM EVALUATION"					
		7.1	Mechanisms for program evaluation					
			The medical educational institution must :					
145	1	7.1.1	Have mechanisms for monitoring the EP, taking into account the mission, required learning outcomes, educational program content, assessment of knowledge and			+		

			skills, and educational resources.				
146	2	7.1.2	Evaluate the program in relation to the student admission policy and the needs of the education and the HC system in medical personnel.		+		
147	3	7.1.3	Ensure participation of stakeholders in program evaluation.			+	
148	4	7.1.4	The medical educational institution should provide mechanisms to ensure transparency of the process and results of educational program evaluation for the management and all stakeholders			+	
Total				-	1	3	-
		8.	STANDARD "GOVERNANCE AND ADMINISTRATION"				
		8.1	Governance				
			The medical educational institution must ensure that the EP is implemented in accordance with the rules in respect of:				
149	1	8.1.1	admission of students		+		
150	2	8.1.2	the structure and content		+		
151	3	8.1.3	process			+	
152	4	8.1.4	evaluation		+		
153	5	8.1.5	intended results.		+		
			Medical educational institution must guarantee continuous evaluation:				
154	6	8.1.6	educational programs for different types of postgraduate medical education		+		
155	7	8.1.7	institutes/faculties/departments and other educational structures that implement the learning process		+		
156	8	8.1.8	teachers.		+		
157	9	8.1.9	The medical educational institution should be responsible for quality development programs.			+	
			Medical educational institution must ensure:				
158	10	8.1.10	In the future, the application of procedures for verification of the final results and competencies of graduates for use by both national and international bodies		+		
159	11	8.1.11	Transparency of the management structures and the decisions.		+		
		8.2	Academic leadership				
160	12	8.2.1	The medical education institution must clearly define the responsibility of the academic leadership in relation to the development and management of the EP.		+		
			The medical education institution should periodically assess the academic leadership regarding the achievement of:				
161	13	8.2.2	Missions postgraduate educational program		+		
162	14	8.2.3	final learning outcomes for this EP		+		
		8.3	Educational budget and resource allocation				
			The medical education institution must				
163	15	8.3.1	determine the responsibility and authority for managing the budget of the educational program;		+		
			The medical education institution should manage the budget in such a way as to comply with:				
164	16	8.3.2	Missions and results of the EP		+		
165	17	8.3.3	Ensuring the functional responsibilities of academic staff and students.		+		
		8.4	Administrative staff and management				
			The medical education institution must have an appropriate administrative staff, including their number and composition in accordance with qualifications, in order to:				
166	18	8.4.1	Ensure the implementation of the EP and related activities;		+		
167	19	8.4.2	ensure proper management and allocation of resources.		+		
			The medical education institution should				
168	20	8.4.3	Develop and implement an internal program quality management assurance, including consideration of needs for improvement;			+	
169	21	8.4.4	Conduct a regular review and analysis of management to improve quality			+	
		8.5	Interaction with health sector				
170	22	8.5.1	The medical education institution must comply with national legislation regarding the number and types of recognized medical specialties, for which approved curricula are being developed.		+		
171	23	8.5.2	The medical education institution should identify approved postgraduate medical education programs in collaboration with all stakeholders.		+		
Total				-	19	4	-

		9.	STANDARD "CONTINUOUS RENEWAL "					
			The medical education institution as a dynamic and socially responsible institution must ensure that there will be:					
172	1	9.1	initiate procedures for regular review and revision of content, results / competence, assessment and learning environment, structure and function, document and correct deficiencies;			+		
173	2	9.2	Highlight resources for continuous improvement			+		
			The medical education institution should ensure that:					
174	3	9.3	the renewal process will be based on forward-looking research and analysis and on the results of their own study, assessment and literature on postgraduate medical education;			+		
175	4	9.4	the renewal and restructuring process will lead to a revision of its policies and practices in line with previous experience, current activities and prospects.			+		
			The medical education institution in the process of renewal and continuous improvement must ensure that special attention will be paid to:					
176	5	9.5	adaptation of the mission and outcomes of postgraduate medical education to the scientific, socioeconomic and cultural development of society for the future;			+		
177	6	9.6	modification of the intended learning outcomes of postgraduate education in the selected area of HC in accordance with the documented needs of the environment. Changes may include adjustments to the structure and content of EP, principles of active learning. The amendment will ensure, along with the elimination of obsolete ones, the assimilation of new relevant knowledge, concepts, methods and concepts based on new advances in basic biomedical, clinical, behavioral and social sciences, taking into account changes in demographic situation and population structure on public health issues, as well as changes in socioeconomic and cultural conditions;			+		
178	7	9.7	development of assessment principles, methods of administration and the number of examinations in accordance with changes in learning outcomes and teaching and learning methods;			+		
179	8	9.8	adaptation of the recruitment and selection policy for graduate students, taking into account changing expectations and circumstances, needs for human resources, changes in the system of postgraduate education and the needs of EP;			+		
180	9	9.9	Adaptation of the academic staff recruitment and informing policy in accordance with changing needs;			+		
181	10	9.10	Improving the monitoring and evaluation process of the educational program.			+		
182	11	9.11	The medical education institution must guarantee that improving the organizational structure and management principles will be aimed at ensuring effective performance in the face of changing circumstances and needs, and, in the long term, at meeting the interests of various stakeholder groups.			+		
Total				-		6	5	-
GRAND TOTAL				-		149	33	-

Appendix 2. PROGRAM OF THE VISIT TO THE ORGANIZATION OF EDUCATION

Appendix 3. RESULTS OF THE ACADEMIC STAFF QUESTIONNAIRE

Appendix 4. RESULTS OF THE STUDENT QUESTIONNAIRE