



«АККРЕДИТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# REPORT

on the results of work of the External Expert Commission for  
assessment for compliance with the requirements of the  
standards of International Program Accreditation of the  
educational program  
221 Dentistry

October 20-22, 2021

**INDEPENDENT AGENCY FOR ACCREDITATION AND RATING**  
**External Expert Commission**

*Addressed to  
Accreditation Council  
of IAAR*



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**October 20-22, 2021**

**Odessa**

**October 22, 2021**

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(I) SYMBOLS AND ABBREVIATIONS

ECTS - European Credit Transfer Accumulation System  
CMU - Cabinet of Ministers of Ukraine  
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,  
Informatization and Continuous Education ONMedU  
ONMedU - Odessa National Medical University  
EP - Educational program  
OSCE - Objective Structured Clinical Exam  
CGSE - complete general secondary education  
SSS - Student Scientific Society  
FPE - Faculty of Postgraduate Education  
HC - healthcare  
USQE - Unified State Qualification Exam  
USEED - Unified State Electronic Education Database  
PLO - program learning outcomes



## (II) INTRODUCTION

In accordance with the order of the IAAR No. 114-21-ОД dated 01/09/2021, on October 20-22, 2021, the External Expert Commission evaluated the compliance of the educational program 221 Dentistry with the standards of international medical and pharmaceutical education of the IAAR abroad (based on WFME/AMSE).

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, 4<sup>th</sup>-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 of the Ministry of Health of Ukraine has a rich history, starting from the moment of its foundation in 1900 on the basis of Medical Faculty of Novorossiyskiy University. In 1920, the medical faculty was transformed into the Medical Academy, and in 1921 - into the Medical Institute named after N.I. Pirogov, which became the leading university in the south of the country. By the Resolution of the Cabinet of Ministers of Ukraine No. 592 dated August 29, 1994, the status of a University was assigned (Odessa State Medical University), and in 2010, by the Decree of the President of Ukraine No. 862/2010 dated August 21, 2010, the status of a National University was granted.

The university has the IV national level of accreditation (certificate series ПД-IV No. 1626447 dated 03/06/2014 in accordance with the decision of the Accreditation Commission, minutes No. 109, Order of the Ministry of Education and Science of Ukraine dated 11/06/2014 2323-П); is a member of the International and European Associations of Universities.

The University carries out its activities in accordance with the Constitution of Ukraine dated 06.28.1996, 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 local regulatory legal acts, the main of which is the University Charter.

The University has a license for educational activities issued by the Ministry of Education and Science of Ukraine dated March 30, 2021 No. 37-І. 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, namely: 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 specialty 053 "Psychology" at two levels of higher education, namely: 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 (license series AB No. 617403 dated 02.03.2012).

The educational process is carried out at 7 faculties and 60 departments of the University, where about 11,000 students and interns, including foreign ones, study. 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.

778 students study in the educational program 221 Dentistry.

The university has modern material and technical resources for educational, scientific, medical, and diagnostic work. School "Young Medic" carries out career guidance work; three special biomedical classes have been created and are maintained in three gymnasiums in the city of Odessa.

The University has access to local and global network resources. University clinics are functioning. The University publishes specialized newspapers, scientific journals, textbooks, and teaching aids, scientific journals, textbooks and teaching aids, the authors of which are the scientists of the University.

The library of the University has more than 847,000 items of publications in different languages. More than 5000 electronic publications are presented in the ONMedU Institutional Repository; there is an electronic student library.

The Research Institute of Translational Medicine operates at ONMedU to provide conditions for research activities of students and faculty of the University.

The Faculty of Postgraduate Education has been established. In addition to conducting primary postgraduate specialization (internships), the Faculty of Postgraduate Education provides educational services related to advanced training and specialization of doctors. According to the training and production plans approved by the MH, the qualifications of doctors are improved through thematic improvement cycles (in 43 medical specialties) and specialization and internship cycles (in 27 medical specialties). In 2020, the faculty conducted 152 cycles of thematic improvement (96 under the state order and 56 under the contract), 34 specialization cycles (14 under the state order and 20 under the contract), 24 internship cycles (8 under the state order and 16 under the contract) for 2392 doctors under the state order and 1,344 contract doctors.

The University has a Council of Student Self-Government, a Primary Trade Union Committee of Students, a Commission on Academic Work of Student Self-Government of Faculties, an Institute of Curators, and a Student Council of Dormitories.

#### **(IV) PREVIOUS ACCREDITATION**

International program accreditation of ONMedU is carried out for the first time.

#### **(V) DESCRIPTION OF THE EEC VISIT**

The work of the EEC was carried out on the basis of the visit Program for accreditation of educational programs on October 20-22, 2021, in a hybrid format.

To obtain objective information about the quality of educational programs and the entire infrastructure of the University and to clarify the content of self-assessment reports, meetings were held with the Rector of the University, vice-rectors, deans, heads of departments, guarantors of educational programs, heads of departments, teachers, students, graduates, employers.



During the meetings, the EEC determined such positions as the administration of the educational process in the specialty 221 Dentistry; compliance of the organization of training with the requirements in this area; the possibility of using international experience through the implementation of strategic partnerships; support of teaching staff and students from AUP; resource support for the scientific and educational process at the university in medical specialties; the demand for graduates in the labor market and their assessment by employers; participation of stakeholders in the development of the mission of the university and the educational program.

On October 19, 2021, a preliminary online meeting of the chairman and experts of the EEC was held in person and on the ZOOM platform.

On the first day of the visit, October 20, 2021, a meeting of the chairman and members of the EEC was held in order to distribute the responsibility of experts. Online interviews were conducted on the ZOOM platform with the Rector of the University - Zaporozhan Valeriy Nikolaevich, Academician of the National Academy of Medical Sciences of Ukraine, Doctor of Medical Sciences, Professor, Honored Inventor of Ukraine; Vice-Rectors of the University: Marichereda Valeria Gennadiyevna - Vice-Rector for Scientific and Pedagogical Work, Doctor of Medical Sciences, Professor; Shmakova Irina Petrovna - acting Vice-Rector for Scientific and Pedagogical Work, Doctor of Medical Sciences, Professor; Protsenko Valentina Nikolaevna - Vice-Rector for Quality Assurance of Education Doctor of Economics, Associate Professor; Borsch Viktoriya Igorevna - Vice-Rector for the University's Prospective Development, Doctor of Economics, Associate Professor; Talalaev Konstantin Alexandrovich - Vice-Rector for Scientific and Pedagogical Work, Doctor of Medical Sciences, Associate Professor; Antonenko Petr Borisovich - acting Vice-Rector for Scientific and Pedagogical Work, Doctor of Medical Sciences, Professor). Further, online interviews were conducted with the heads of structural divisions (19 people); deans (Dean of the Faculty of Medicine No. 1 - Kotyuzhinskaya Svetlana Georgievna, Doctor of Medical Sciences, Professor; Dean of the Faculty of Medicine No. 2 - Davydov Denis Mikhailovich, Ph.D., Associate Professor; Dean of the Faculty of Dentistry - Valda Vladimir Vladimirovich, Ph.D., Associate Professor, Dean of the Faculty of Pharmacy - Anisimov Vladimir Yurievich, Ph.D., Associate Professor, Dean of the International Faculty - Buryachkovsky Eduard Stanislavovich, Ph.D., Associate Professor, Dean of the Faculty of Postgraduate Education - Shevchenko-Bitensky Konstantin Valerievich, Doctor of Medical Sciences, Associate Professor); the guarantor of EP 221 Dentistry (Gulyuk Anatoly Georgievich, MD, professor); heads and teachers of dental profile departments. A survey of teaching staff (645 people) was conducted, of which 221 were in the specialty "Dentistry" - 81 people (13%).

Members of the EEC inspected the main university building, the anatomical building, the Research Institute of Translational Medicine, and the Department of Simulation Medicine.

On the second day of the visit, October 21, 2021, members of the EEC conducted interviews with students of EP 221 Dentistry (17 people) and a questionnaire (1055 students, of which: EP 221 Dentistry - 261 people (17%)). The members of the EEC got acquainted with the documents of the departments and attended online classes according to the schedule (MicrosoftTeams). While visiting practical classes, the members of the EEC got acquainted with the educational technology used, the form of academic group registers, examples of handouts, assignments for students, presentations, etc.

On the second day of the visit, members of the EEC continued the online visual inspection of the university facilities and the bases for practical training of EP 221 Dentistry: the Institute of Dentistry and Maxillofacial Surgery and several dental clinics. EEC interviewed the heads of the bases for practical training, employers for accredited EPs (16 people), and graduates of EP 221 Dentistry (15 people).

On the third day of the visit, October 22, 2021, under the leadership of the Chairman of the EEC, a meeting of the External Expert Commission was held in a hybrid format, where the results of the external review were discussed. The members of the EEC discussed the parameters of a specialized profile, voted, and prepared the necessary documentation to complete the work of the commission.

The final meeting of the EEC was held with the leadership of the University.

## (VI) COMPLIANCE WITH PROGRAM ACCREDITATION STANDARDS

### 6.1. Standard "Mission and outcomes"

#### ***Evidence***

The mission of the University is aimed at maintaining, strengthening, and improving the health of the population of Ukraine and the whole world through the dissemination and application of progressive knowledge in the field of healthcare; at the improvement of the quality of medical care and life of the world's population in terms of global health preservation and promotion. The University has developed and is implementing "Concepts of Educational Activities for 2020-2025" and "The Concept of the Educational Process in the Specialty 221 Dentistry".

The mission of the educational program (hereinafter - EP) in the specialty 221 Dentistry is to create and apply the acquired theoretical knowledge and practical skills according to national and international requirements and the needs of the healthcare industry.

The goal of EP 221 Dentistry is to train highly qualified specialists who are able to use the acquired competencies to solve complex problems and problems in the field of dentistry and healthcare or learning process, which is characterized by the uncertainty of conditions and requirements, as well as perform the professional activities as a dentist.

At the University, the procedures for updating the mission, vision, strategic goals and objectives, the structure of competencies, program learning outcomes, the list of educational components, and their logical sequence of EP 221 Dentistry are clearly regulated and initiated by the leadership of the University and include the following processes: the creation of a project team; formation of draft documents; discussion of draft documents at the university level; public discussion of the draft documents on the website of the University; a decision on the approval of the final version of the documents, the list of reviewers and recommendations for approval by the Central Qualification Methodological Council of the University and the Academic Council of the University; reviewing documents; approval of documents by the Central Qualification Methodological Council of the University.

In accordance with the Law of Ukraine "On Higher Education" No. 1556-VII dated 01/06/2014, the University has enough independence in determining the structure, the number of biomedical, behavioral, clinical disciplines, elective disciplines, various practical training, while maintaining maximum compliance with national and international requirements. EP 221 Dentistry has a certain institutional autonomy in the formulation and implementation of its local legal acts, admission of students, assessment and hiring of personnel, conducting scientific research, allocation of extra-budgetary funds, etc.

EP 221 Dentistry was amended and updated according to the level of the National Qualifications Framework of Ukraine and European Qualifications Framework and Recommendations of the Council of Europe 15/06/2017 dated 22/05/2017 On the European Qualifications Framework for Lifelong Education, which gives graduates of EP 221 Dentistry access to medical education in European countries.

#### ***Analysis***

Within the framework of the standard "Mission and results" in the specialty 221 "Dentistry", based on the analysis of the submitted documentation, the expert commission revealed the compliance of EP with the requirements of the standard. An analysis of the compliance of the activities of the University and the Faculty of Dentistry with the criteria of this Standard generally indicates that the Development Strategy of the University corresponds to the mission and vision. The management of the University carries out some work on target indicators of activities and monitoring and improvement measures.



EEC members note that the Mission of EP 221 Dentistry is brought to the attention of stakeholders through notification and publication on the official website; distribution by e-mail to all departments of the University, teaching staff, students; by posting on the information stands of the departments. However, during interviews with faculty, students, employers, and alumni, EEC experts paid attention to their insufficient informing about the mission and vision of the University.

EP in specialty 221 Dentistry is designed taking into account the requirements of the national educational standard and allows for training a competent medical professional capable of the medical organizational-and-managerial and scientific-research professional activities. That allows the graduate of the educational program 221 Dentistry to choose the direction of career growth.

When a graduate is oriented towards a medical type of professional activity, he has the opportunity, after receiving a certificate, to find a job in medical institutions for the position of a dentist or continue his studies in residency or a Master's; carry out research in the process of studying for postgraduate or doctoral programs, preparing and defending scientific and qualification work (dissertations for the degree of candidate of science or Ph.D.).

The available material resources are used responsibly for the worthy implementation of the mission and goals of EP 221 Dentistry. Members of the EEC note that the University attaches great importance to proper safe behavior among students towards patients and their relatives.

At the same time, EEC members note that the stakeholders of OP 221 - Dentistry (students, employers, and graduates) found it difficult to clearly reproduce the mission of the EP during interviews with EEC members and give specific examples of their participation in the formulation of the mission and visions of the University and EP Dentistry. During interviews with alumni and employers, it was found that this category of stakeholders is not sufficiently motivated to monitor the EP and revise the mission of the University.

During the visit and interviews, the members of the EEC did not receive a complete and detailed understanding of the events which were held at ONMedU to discuss the mission and outcomes of the EP in the specialty 221 Dentistry (meeting minutes, their numbers and dates, the contents of the minutes of meetings with students, employers, graduates, proposals received to adjust the mission of EP, etc.).

Satisfactory marks were given by the members of the EEC for those items that require special attention while meeting the standards.

Activities on these items have become part of university planning.

**Strengths/best practice - In general, according to this Standard, the activity of the university meets the requirements of the specified criteria.**

***EEC recommendations***

2.1.5. To communicate the mission, quality policy, and vision of the University to all stakeholders, documenting their opinions/proposals regarding these points - by the end of 2022-2023 academic year and onwards on an ongoing basis).

***Conclusions of the EEC according to the criteria: (strong/satisfactory/ suggest improvements/unsatisfactory)***

- strong positions - 0
- satisfactory - 22
- assuming improvements - 1
- unsatisfactory - 0

**6.2. Standard "Educational program"**

***Evidence***

The EP in the specialty 221 - "Dentistry" defines the goal, the list of competencies of the graduate; normative content of training; terms and results of training; content, list of components

and their logical sequence; certification forms based on the standard of higher education of Ukraine for the specialty 221 "Dentistry" dated 06/24/2019/2020 No. 879 (OPP-ONMedU-Stomatologija-2019.pdf).

The EP 221 - "Dentistry" is represented by three fundamental components: profile; a list of components of the EP and their logical sequence; forms of attestation (control). The "Profile of the EP" provides general information: the form of full-time (full-time) education is determined, the duration of study is 5 years, the volume of the EP is 300 ECTS credits, the qualification in the diploma is Master of Dentistry, Dentist. Requirements for the applicant - complete general secondary education, subject to passing an external independent assessment of the quality of education, or on the basis of the educational and qualification level of a junior specialist, for the specialty "Dentistry" subject to successfully passing entrance professional exams.

Teaching languages are Ukrainian, Russian, English. There are: descriptions of the goal and characteristics of the subject area; orientation of the educational program and its features in EP 221 - "Dentistry". The possibilities of graduates for employment in the specialties "doctor-intern", "doctor-trainee", "doctor-resident" and the possibility of further education are given.

The EP 221 - "Dentistry" is designed on the basis of a competency-based approach. The structure of the EP includes information on the resource support of the program (personnel, material, technical and information, educational and methodological support); description of opportunities for students in terms of academic mobility (at the national and international levels); features of training for foreign citizens. The EP has a matrix of compliance of competencies with learning outcomes; system of control of students' educational achievements.

The University has developed the "Regulations on educational programs", according to which the revision of the EP is carried out at least once every 5 years. The EP in the specialty 221 - "Dentistry" was introduced in 2016, revised and updated:

- 1) in 2019 - in accordance with the requirements of the labor market, as well as the recommendations of the letter of the Ministry of Education and Science of Ukraine dated April 28, 2017 No. 1 / 9-239 "On an exemplary model of an educational and professional program" (the list of elective disciplines and practices has been expanded);
- 2) 2020 - in connection with the approval of the "Standard of higher education in the specialty 221 "Dentistry" (Order of the Ministry of Education and Science of Ukraine No. No. 977) (the list of elective disciplines has been expanded, the list of disciplines of the compulsory component has been updated).

The EP 221 - "Dentistry" was discussed at the subject-cycle commission of dental disciplines and approved by the Central Qualification Methodological Council of Odessa National Medical University (minutes No. 3 of 05/20/2020). Following the results of the public discussion, the EP was approved by the Academic Council of the University (minutes No. 11 of 06/04/2020) and put into effect by the Order of the acting Rector dated 06/04/2020, No. 241-O.

The bases for revising the EP in the specialty 221 - "Dentistry" at the University:

- the initiative of the project team and / or the group for providing the corresponding EP, the leadership of ONMedU; faculty; interested parties;
- objective changes of infrastructural, personnel nature and/or other resource conditions for the implementation of the EP;
- the presence of conclusions about the insufficiently high quality of the EP based on the results of the assessment;
- the presence of shortcomings and comments on the results of the self-assessment of the EP and educational activities.

The model of the educational program for 1-3 courses is designed using the "tape" principle, which implies simultaneous and sequential study of several disciplines; the logical sequence of mastering disciplines (taking into account the normative annual load of 60 credits). In the 4-5 years, training is carried out in the form of a modular system, which allows you to study disciplines consistently in the form of cycles following each other during the term. The

"immersion method" in one subject contributes to deeper and better mastering of competencies. The model of the educational program is integrated, the EP is developed using the principles of spiral design. In EP 221 - "Dentistry" integration of disciplines is traced horizontally and vertically; interrelation communication between fundamental and clinical disciplines.

The structure of the EP provides for blocks of compulsory disciplines and a component of choice. 1 credit corresponds to 30 academic hours. The content of the EP 221 - "Dentistry" is published on the official website of the University. Compulsory disciplines make up 75% of the EP volume (225 ECTS credits); elective component - 25% (75 ECTS credits). The study load includes time for lectures, practical, seminar and laboratory classes, consultations, practices, independent and individual work and control activities. The calculation takes into account maximum total value of the workload per student up to 45 hours per week (including classroom and independent work). The EP 221 - "Dentistry" states that weekly classroom load for students is 22.5-23.8 teaching hours. The volume of independent work is within 47 - 54% of the total (the total figure for the EP is 49%).

According to the "Regulations on the procedure for the formation of individual educational trajectories by applicants for higher education at ONMedU", students are provided with the opportunity to form an individual learning trajectory, taking into account their own potential, personal growth and their professional interests. The number and volume of elective disciplines for the next academic year, forms of control are determined by the working curriculum. Provision of information to students about the elective disciplines and their content is carried out by creating a "Catalogue of Selective Disciplines", which is published by the educational department before February 01 of the current academic year on the University website.

The implementation of the EP 221 - "Dentistry" is carried out in accordance with the "Regulations on the educational process at ONMedU". Lectures are provided with visual accompaniment (Power Point); practical, seminars, consultations; independent work of students; educational and work practice, individual and research activities of the student.

Mastering of clinical disciplines is carried out during the entire learning process (1-5 years), from the 2nd year, in the context of the disciplines of the basic and variable parts. The process of teaching clinical medicine includes the theoretical and practical part of the mastering of clinical disciplines and educational and industrial practices. The basis of the educational and methodological complex of clinical disciplines and practices is the principles of evidence-based medicine. The educational and methodological complex is constantly updated when clinical recommendations change.

Teaching methods for the EP 221 - "Dentistry", such as educational videos, solving situational problems, role-playing and business games, analysis of clinical cases, clinical practice, brainstorming method, small group method, round tables, discussions, work in a simulation class are used, work with standardized and hybrid patients, etc are implemented. Industrial practice starts from the 2nd year - "Nursing practice in dentistry". Industrial medical practice is carried out at senior courses, in dental offices at the clinical bases of the University.

The University has a "Student Scientific Society". The formation of the ability for scientific research in the course of the implementation of the EP 221 - "Dentistry" occurs through work with information and analytical materials, preparation of abstracts, tables, diagrams, presentation reports.

The university uses an e-learning system using LMS "Moodle" and MO 365 (Microsoft Teams) in synchronous and asynchronous formats (in the context of quarantine and restrictive measures, in connection with the Covid-19 pandemic). The student electronic library and repository of the University provides round-the-clock permanent free access to educational and methodological literature and scientific sources.

Quality control of teaching at the University is carried out in the form of open classes, mutual visits, control visits, independent assessment, student questionnaires and self-assessment on the basis of the "Regulations on the system of internal quality assurance of



educational activities and the quality of higher education", "Regulations on the Commission for the Prevention of Academic Plagiarism in scientific and scientific-methodical works".

According to the results of a student survey conducted during the EEC visit, a positive assessment of the structure and content of the study program was given by 80% of respondents; 83% of respondents believe that the key terms of the EP are sufficiently explained.

***Analysis***

EEC experts note that within the framework of the standard "Educational Program" in the specialty 221 - "Dentistry", in the course of the work of the expert commission and the analysis of the submitted documentation, it was revealed, in the main, compliance with the requirements of the standard.

The content of the working curricula of all disciplines of the EP 221 - "Dentistry" takes into account regional, national characteristics, epidemiological indicators of dental morbidity (in the elective part of the EP), the current state of medical science and practice in Ukraine.

Teachers of the University's clinical departments work at clinical sites, in medical institutions in Odessa, that ensures a close relationship between the EP 221 - "Dentistry" with the field of practical healthcare and the participation of students in the work of a team of specialists providing various types of dental care.

EEC members note that practicing dentists take an active part in students' education.

In the process of interviewing students and teaching staff by the members of the EEC, it was revealed that the development and updating (revision) of the list of elective disciplines is carried out with the direct participation of students, teaching staff and employers, taking into account the epidemiological indicators of dental morbidity in the region and the influence of global health factors on the state of organs and tissues of the cavity mouth (introduction of new disciplines into the elective component).

Based on the results of interviews with the representatives of focus groups, members of the EEC revealed that the University does not actively use teaching and learning methods based on the modern theory of adult learning. EEC was not provided with information about the innovative teaching methods being introduced in the EP - "Dentistry". Based on the results of interviews in focus groups with students, graduates and employers, wishes were expressed to strengthen the practical component in the process of preparing students studying in the EP - 221 "Dentistry" not only in the simulation center, but also in the conditions of dental offices and clinics.

During the visit of the EEC, University Policy in the field of quality and examination of educational programs were not presented.

Satisfactory marks were given by the members of the EEC for those items that require increased attention while meeting the standards.

Activities on these points are planned by the university and put in the plan.

***Strong positions/the best practice***

In general, according to this Standard, the activity of the university meets the requirements of the specified criteria.

***EEC recommendations***

2.1.5 It is recommended to develop and implement the University's own Policy in the field of the quality of educational program, to include analysis of methods aimed at encouraging and supporting students to independently study disciplines for the further use of teaching staff in the educational process; The deadline is September 1, 2022.

2.6.1 Determine the responsibility and coordinating role of the structural unit, develop a mechanism for assessing the individual learning environment and the learning process, depending on the needs of internal stakeholders. Deadline: until 01.09.2022.

***Areas for improvement:***

2.5.3 It is recommended to revise the EP and strengthen the practical component in the process of preparing for the EP 221 - "Dentistry" and provide students with early contact with dental patients, practice at clinical sites. Deadline: until 01.09.2022.

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

- strong positions - 0
- satisfactory - 34
- imply improvements - 3
- unsatisfactory – 0

### 6.3. Standard "Assessment of students"

#### **Evidences**

Assessment of knowledge, skills and abilities of students at the University includes activities for conducting current, intermediate and final control. The main local NLA that regulates the organization and conduction of educational process, including the principles, methods and procedure for assessing learning outcomes, is the "Regulations on the organization of the educational process by applicants for higher education at the Odessa National Medical University", agreed at a meeting of the Academic Council, protocol No. 11 dated June 24. 2019 and approved by the order of the rector of ONMedU No. 336-o dated June 24, 2019. The regulation was developed in accordance with the Laws of Ukraine "On Higher Education" No. 1556-VII dated 07/01/2014 (Section V Quality Assurance in Higher Education, Article 16 Quality Assurance System of Higher Education) and "On Education" No. 2145-VII dated 09/05/2017 (Section V Quality Assurance in Education, Article 41 "Quality Assurance System" and other legal documents.

Evaluation of students' educational achievements is carried out according to the traditional 4-point scale. Students are interviewed at least once in 2-3 practical (laboratory) classes (no more than 75% of students) at a practical (laboratory) lesson, and at a seminar - at least once in 3-4 classes (no more than 50% of students). Grades are recorded in the report of attendance and progress of students and in the record of progress and attendance. Upon epy completion of the discipline, the average current score is calculated.

The forms of current control and the criteria for assessing the level of knowledge are determined by the department in working curricula. Semester control (intermediate certification) is carried out in the form of a test, a grading test or an exam. The form and terms of the end-of-the term control in the discipline are determined by the working curriculum in the specialty 221 - "Dentistry".

The control of students' progress in industrial practice (patient care, nursing, medical polyclinic and clinical industrial practice) is carried out separately, for each profile of industrial activity. The final assessment for work practice is integrated with the average national scale assessment obtained from each profile of production activity, converted into rating points and an assessment in the form of the "Unified State Qualification Examination" (USQE). Foreign students have the right to undergo an internship at their place of permanent residence, provided that the host party gives written consent no later than 30 days before the start of the internship with the obligatory submission of reporting documentation on the results 5 days before the start of the next term.

Final control includes semester control and student attestation; is carried out to assess learning outcomes at a certain educational level or at its individual completed stages according to the national scale, the 200-point system and the ECTS scale (Odessa National Medical University | Stomatology (onmedu.edu.ua) ([Одесский национальный медицинский университет | Стоматология \(onmedu.edu.ua\)](http://odessa.nmu.edu.ua)). The final control in the form of tests is evaluated on a two-point scale: "passed" / "not passed". The results of the exams are evaluated according to a 4-point



national ("excellent", "good", "satisfactory", "unsatisfactory") and a 200-point scale, and are included into the examination sheets and the student's record book. The grades "good" and "satisfactory" received by the student when passing the final control (exam, grading test) are not retaken. A student who has not passed the exam has the right to retake it twice within the time limits established by the order of the rector. For all disciplines, the University conducts a final computer test control on the Moodle platform.

Certification of graduates of the EP 221 - "Dentistry" is carried out in the form of a unified state qualification exam (USQE), which consists of: an integrated test exam "KROK-1" and "KROK-2"; OSKE elements (Odessa National Medical University | Documentation ([onmedu.edu.ua](http://onmedu.edu.ua)) [Одесский национальный медицинский университет | Документация \(onmedu.edu.ua\)](http://onmedu.edu.ua)); exam in professional English. The Center for Information Analysis and Internal Quality Control of Education (CIAIQCE) of the University, no later than two weeks after the beginning of the term, provides students with free access to the database of test items that are submitted for final control in all disciplines. Taking the final test control occurs at the last practical lesson in the discipline at CIAIQCE, according to the schedule of the educational department, approved by the Rector of the University. The student must give correct answers to at least 90% (45 questions). During five years, a student in the EP 221 - "Dentistry" passes 37 tests, KROK-1 and KROK-2, 22 grading tests, including practices; 18 exams; final certification exam in OSCE format, which includes 6 disciplines.

Students' educational achievements are discussed at meetings: cyclic methodological commissions of specialized disciplines, the central methodological commission, the Academic Council of the Faculty, the Academic Council of the University are brought to the attention of teachers. An independent form of evaluation of practical classes (using simulators and trainers) allows the student to practice and learn practical skills repeatedly, evaluate their successes and failures, make adjustments to their learning approaches, which is a positive side of knowledge assessment, and is also a stimulating link in the motivation to study.

Methods for evaluating exams / grading tests are discussed at educational and methodological meetings of the departments, agreed on by the specialized cyclic methodological commissions and approved by the central methodological committee annually. Since 2019, elements of an objective structured clinical examination (OSCE) with the participation of standardized patients have been introduced into the educational process of the EP 221 - "Dentistry"; critical case assessment exams.

The procedure for the elimination of academic debt after the end of the examination session or semester (with a cyclic schedule of classes) in the disciplines for which the student received the marks "unsatisfactory" or "not admitted" constitute his academic debt. A student who has no more than two unsatisfactory grades is allowed to eliminate the current academic debt according to the retake schedule approved by the rector. The student who has received three unsatisfactory final grades during the session (in different disciplines) is expelled from the University. The procedure for students' re-admission to the University is regulated by the relevant Regulations.

Students have the right to apply for an appeal in accordance with the current University "Regulations on the system of internal quality assurance of educational activities and the quality of higher education", "Regulations on the ONMedU Commission on academic integrity", "Regulations on the Commission for the prevention of academic plagiarism in scientific and scientific-methodical works.

According to the results of questioning students during the visit of the EEC, the quality of examination materials (tests and examination questions, etc.) was completely satisfied by 38% of respondents; 35% of respondents were completely satisfied with the objectivity of assessing knowledge, skills and other educational achievements. with the fact that continuous assessment (seminars, tests, questionnaires, etc.) reflects the content of the course, "fully agree" and "partially agree" 49% and 33% of the respondents, respectively. The evaluation criteria used by the teacher are fully and partially understood by 48% and 32% of the students surveyed, respectively. 41%

and 39% of respondents, respectively, fully and partially agree with the fact that teachers objectively evaluate the achievements of students.

### *Analysis*

EEC members note that in the course of interviewing teaching staff and students, information was received that students in all disciplines are tested, and therefore the University management is recommended to determine, approve and publish the principles, methods and practices used to assess students, including the number of examinations and other tests, maintaining a balance between written and oral examinations.

EEC experts state that the University uses fixation of dummy and simulator indicators, audio and video fixation during the OSCE, which allows the analysis of inconsistencies and timely planning corrective actions. Control and measuring facilities are updated annually. In 2019, the University developed an electronic system that ensures the conduction of the OSCE using the Standardized Patient and Virtual Patient methods (Odessa National Medical University | Standardized Patient ([onmedu.edu.ua](http://onmedu.edu.ua)) ([Одеський національний медичинський університет | Стандартизований пацієнт \(onmedu.edu.ua\)](http://onmedu.edu.ua))).

The results of students' academic progress are presented in the form of an assessment on a national scale, a 200-point and ECTS rating scale and have standardized generalized criteria for assessing knowledge (Section 3.3 "Regulations on the organization of the educational process by applicants for higher education at the Odessa National Medical University"). The educational achievements of the student, which are assessed on other multi-point scales (relative to transferring students from one medical university to another), are converted according to the 200-point assessment scale by the minimum values (in accordance with the letter of the Ministry of Health of Ukraine dated April 15, 2014 No. 08.01 -47 / 10995 "Instructions for assessing the educational activities of students in the context of the introduction of the European credit-transfer system for organizing the educational process"), namely: - "5" - "excellent" - 185 points, ECT score - A; - "4" - "good" - 150 points, ECT score - C; - "3" - "satisfactory" - 120 points, ECT score - D.

In the opinion of the EEC members, the current grading system at the University, their transfer from the traditional 4-point scale to the 200-point scale is somewhat "artificially" complicated. The development of an assessment policy based on the use of a 100-point rating scale would greatly facilitate the development of assessment sheets (checklists), with the help of which it is possible to develop step-by-step algorithms for assessing knowledge, students' ability to form judgments (clinical thinking), evaluate operational and communicative skills of trainees in real clinical practice, and not only at the stages of OSCE. It would also be less difficult to compare the points obtained with an internationally recognized point-letter rating system.

EEC recommends the use of criteria-based and reason-based assessment methods and specific examinations taking in account the specifics of medical education (direct and indirect observation of operational and communication skills (DOPs) Mini Clinical Examination (MiniCex), workplace assessment, 360 degree assessment and etc.).

The system for assessing students' knowledge is continuously studied by the heads of departments and is an open environment for the introduction of new methods in this activity. However, a wider range of assessment methods should be used, depending on their degree of validity, reliability, impact on learning, acceptability and effectiveness of the assessment methods and format. The current practice, when each student must achieve a certain threshold result on the basis of testing, indicates that the items in the test form may not work fully as "pedagogical measurement tools", and are not able to rank students on a "strong" and "weak" group.

EEC experts note that the University needs to document and evaluate the reliability and validity of assessment methods, which requires the implementation of appropriate software and an appropriate quality assurance process according to existing assessment practice.

EEC experts note that the University should guarantee the provision of timely, specific, constructive and fair feedback to students based on the results of formative and summative assessments; document the current assessment process using appropriate assessment forms; make

wider use of a variety of models and methods for obtaining feedback (in addition to the survey conducted at the University). Evaluation sheets for current control must be presented in syllabuses for students to ensure maximum "transparency" in the assessment process and the possibility of promptly providing constructive feedback. In the course of interviews with teaching staff, students and graduates of the EP "Dentistry", members of the EEC recorded a certain misunderstanding on the part of the focus group participants on these issues.

Satisfactory marks were given by the members of the EEC for those items that require increased attention while meeting the standards.

Activities on these points are planned by the university and put in the plan.

***Strong positions/best practice***

Implementation of assessment methods based on the use of OSCE elements, standardized patients and hybrid simulation.

In general, according to this Standard, the activity of the university meets the requirements of the specified criteria.

**EEC recommendations:**

3.1.4 The leaders of the EP 221 - "Dentistry" are recommended to revise the system of assessing students with the inclusion of modern methods and forms of assessment, taking into account their effectiveness and focus on learning outcomes; deadline - from 01.09.2022 on a regular basis.

3.1.6 The leaders of the EP are recommended to develop and implement an internal regulatory legal act regulating the procedure and forms for receiving and providing feedback, to train the teaching staff on the issues of summative and formative assessment. Deadline: until July 01, 2022.

3.2.1 It is recommended to optimize the Student Assessment Policy taking into account the specifics of medical education and the internationally recognized point-rating system. Deadline: until the end of the 2022-2023 academic year.

3.2.4 Revising the student assessment policy, it is recommended to determine the balance between formative and summative assessments, to provide mechanisms for assessing student progress. Deadline: until the end of the 2022-2023 academic year.

**Areas for improvement:**

3.1.7 It is recommended to assess and document the reliability and validity of assessment methods using modern software tools - from 2022-2023 and further, on an ongoing basis.

3.1.8 The leaders of the EP are recommended to introduce new assessment methods regularly in accordance with modern trends in medical education - from 09/01/2022.

3.1.10 The leaders of the EP are recommended to involve external independent experts on an ongoing basis in the process of reviewing assessment methods and control and measuring materials - from the 2022-2023 academic year onwards on an ongoing basis.

3.2.7 It is recommended to develop a procedure, regulations for providing timely, specific, constructive and fair feedback to students based on the assessment results: Deadline: until July 01, 2022.

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

strong positions - 0

satisfactory - 11

suggest improvements - 8

unsatisfactory – 0

#### 6.4. Standard "Students"

##### **Evidence**

The University implements the 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" and the "Regulations on the admission committee of ONMedU in 2021" are developed (<https://onmedu.edu.ua/abiturientam/prijmalna-komisija/polozhennja-pro-prijmalnu-komisiju/>, <https://onmedu.edu.ua/abiturientam/pershokursnikam-2021/>).

In the specialty 221 - "Dentistry", the licensed volume is 300 students per year, which is fully covered by the possibilities of material, technical, social and educational infrastructure existing at the University.

School graduates pass an external independent assessment, on the basis of which they are enrolled in the University, in accordance with the competitive score. The recommendation for the enrollment is carried out by the Unified State Electronic Database on Education. Recommendations for enrollment, orders for enrollment are printed by the selection committee from the Unified State Electronic Database on Education (<https://onmedu.edu.ua/abiturientam/prijmalna-komisija/polozhennja-pro-prijmalnu-komisiju/>).

Admission of foreign citizens is carried out in accordance with the order of the Ministry of Education and Science of Ukraine "Some issues of organizing the recruitment and training (internship) of foreigners and stateless persons" dated November 1, 2013 No. 1541, Conditions for admission to Ukrainian universities, Rules for admission to the University, recommendations of diplomatic institutions foreign states on the basis of a license to conduct educational activities. Foreign citizens enter the 1st year based on the results of consideration of the documents submitted to the Admissions Committee and entrance examinations in biology, chemistry and the language of study, in accordance with the criteria approved by the order of the rector ([mfu-office-5750-eth\\_007382.pdf](mfu-office-5750-eth_007382.pdf) ([onmedu.edu.ua](https://onmedu.edu.ua/))).

Admission is based on the results of independent testing in the subjects that are determined by the Conditions for admission to universities and the rules for admission to ONMedU: Ukrainian language (at least 130 points on a 200 point system); mathematics (at least 150 points on a 200 point system); biology, or chemistry, or physics (at the choice of applicants) - (at least 150 points on a 200 point system). Compared to 2016, the passing score for the EP "Dentistry" in 2020 increased from 127.95 to 154.581 (by 21%, table 6.1).

Table 6.1 Growth dynamics of the passing score in the period from 2016 to 2020

Year	2016	2017	2018	2019	2020
Passing score	127,95	139,885	160,395	153,153	154,581

The number of students admitted to the EP 221 - "Dentistry" is shown in Table 6.2.

Table 6.2 The number of students admitted to the EP 221 - "Dentistry" in the period from 2016 to 2020

Year	2016	2017	2018	2019	2020
The number of applicants	1279	944	584	716	427
The number of students	185	212	148	166	145



In the current academic year, only 778 students are studying in the EP 221 - "Dentistry".

The University is implementing a policy for admission of applicants with disabilities (<https://onmedu.edu.ua/abituriientam/dopomoga-osobam-z-osoblivimi-potrebami/>). This category of applicants is enrolled in the University under a separate quota (Quota-1 in accordance with the Terms of Admission to Universities and the rules for admission to ONMedU) and has the right to transfer from a contract form of education to a budget one, in accordance with the Terms of Admission.

Material assistance is provided for recovery by the trade union. In accordance with the Law of Ukraine "On the Fundamentals of Social Security of Persons with Disabilities in Ukraine" No. 875-XII as amended on December 20, 2020, in order to create a favorable educational environment for people in need of assistance and ensure a comfortable stay on the territory of the University by the order of the Rector "On the Creation of a Volunteer Group" No. 06 of February 12, 2019, a volunteer group was created to accompany (provide assistance) to people with disabilities, senior citizens, other people with limited mobility during their stay on the territory (in the premises) of the University ([Odessa National Medical University | Volunteering](#)). Existing evacuation plan at the University is supplemented with sections regarding the priority of evacuation of people with disabilities; The development of the site was also carried out taking into account the needs of students in this category.

Information about dormitories, the procedure for providing accommodation and checking in a student dormitory, the rules for living in a dormitory and the cost is posted on the University website. Check-in takes place through an electronic system - "Service of automatic settlement in hostels".

The implementation of the EP 221 - "Dentistry" is carried out in accordance with the principles of equality. The University provides equal access to education regardless of gender, age, race, nationality, physical data, sexual orientation, place of residence, socio-economic status, religious and political beliefs. The University has a "Regulation on the policy and procedures for the prevention, prevention and resolution of conflict situations at ONMedU", developed to counteract offenses and resolve conflict situations related to discrimination, sexual harassment and corruption. Students are given the opportunity to freely use all the available databases of the University.

The university has a policy and implements the practice of transferring students from other medical universities and medical education organizations. The transfer rules comply with the Decree of the Government of Ukraine dated May 29, 2020 No. 346 "Regulations on the procedure for transfer, expulsion and reinstatement of students of higher educational institutions of Ukraine". The policy and procedure for admission to the Faculty of Dentistry are understandable, consistent with the mission and goals of the university, officially published in the media and on the website of the university, and available to all interested parties.

The university has a system of academic consultation. The Dean of the Faculty of Dentistry and / or the Vice-Dean provide academic consultations on the choice of elective disciplines; provide assistance to students who have encountered difficulties in mastering curricula (drawing up individual schedules for the elimination of academic debts, monitoring progress, promotion to competitions and olympiads, etc.). In the conditions of training with the use of electronic educational technologies, counseling and informing students is carried out through the use of WhatsApp, Viber, Telegram messengers.

The library of the University provides students with free textbooks, the main processes are automated in it. Library funds - more than 900 thousand items. scientific and educational literature in Ukrainian, Russian and English. The electronic library consists of more than 5 thousand items. The University has 2 arrays:

- "[Materials of the departments](#)" - an educational resource for self-training and self-control, on which the departments place all the educational and methodological complex necessary for the implementation of the educational process;
- [institutional repository of ONMedU - electronic scientific archive of ONMedU](#)



Students of the EP 221 - "Dentistry" have the opportunity to conduct scientific research on the basis of research institutions with which cooperation agreements have been concluded (State Institution "Institute of Dentistry and Maxillofacial Surgery of the National Academy of Medical Sciences of Ukraine", Physico-Chemical Institute of the National Academy of Sciences of Ukraine named after O.V. . Bogatsky, etc.). Students have the opportunity to publish research results in scientific periodicals of the University ([Odessa National Medical University | Student Scientific Society and Society of Young Scientists](#)).

The main indicators of the research activity of students ([Odessa National Medical University | Current conferences and competitions](#)) of the Faculty of Dentistry are presented in Table 6.3.

Table 6.3. Participation of students of the EP 221 - "Dentistry" in scientific conferences, competitions and olympiads.

Indicator	2019	2020
The number of students who made presentations at scientific conferences, total persons	67	38
Including within their university	66	35
Including outside their university	1	3
The number of students (full-time students) who took part in the 2nd stage of the All-Ukrainian Student Olympiad, total people	8	2
The number of students (full-time students) who took part in the 2nd round of the All-Ukrainian competition of student scientific papers, total people	2	3
Including those awarded with diplomas and prizes	2	3

Students annually undergo medical examinations at the Student City Polyclinics in Odessa (Center for Primary Health Care No. 2; City Student Polyclinic).

In the process of studying clinical disciplines, students are under the supervision of teachers who control the observance of the ethical and deontological aspects of the activities of future doctors. The University has simulation classes that allow you to acquire and improve practical skills in working on phantoms and mannequins in conditions that are safe for students and patients.

The University has: the primary trade union organization of students; with free access to all applicants; student council of the University. On the website of the University there is a section "feedback of applicants". An institution of curatorship has been created (curators of academic groups, dormitories, fellowships). Annually, at least 0.5% of the own income received by the University from its main activities is allocated to finance the needs of Student Self-Government in accordance with the "Regulations on Student Self-Government at ONMedU" <https://onmedu.edu.ua/gumanitarna-robotata-vihovannja/studentske-samovrjaduvannjata-studentski-organizacii/>

The main tasks of student self-government bodies are: ensuring and protecting the rights and interests of students; control of students' compliance with academic discipline, compliance with the requirements of the "Internal Regulations of the University", "Moral and Ethical Code of people Working and Studying at Odessa National Medical University" <https://onmedu.edu.ua/gumanitarna-robotata-vihovannja/studentske-samovrjaduvannjata-studentski-organizacii/>

Students on a budgetary basis have the opportunity to receive scholarships and bonus payments. In 2020, a Commission was established to promote the employment of graduates. Students on an extrabudgetary basis who have achieved outstanding results can also qualify for material incentives in the form of a bonus (for example, student Gromadchenko A.O., scholarship

holder of the President of Ukraine). [The procedure for distributing the scholarship](#) fund is determined taking into account the opinion of the Council of Student Self-Government and the Primary Organization of the Union of Students of the University. [The trade union of students](#) carries out: protection of students' social rights; planning activities for leisure and recreation; activities at the residential level; helps in realizing the right to additional employment of students; protection of law and order; organization of sports and recreational activities; activities aimed at providing information assistance; psychological support; preparing students for professional activities. Students Shneider K.S., Saveniuk A.S are the members of the Academic Council of Dentistry Faculty. The Academic Council of the University includes students: Gromadchenko A. A. and Musikhin V. E., who also participate in the work of the selection committee.

Questioning of students is carried out on various issues, [the results are posted on the website](#) of the University.

According to the results of a student survey conducted during the visit of the EEC (261 respondents in the EP 221- "Dentistry" - 17% of the total number of respondents), 86% of respondents were completely and partially satisfied with relations with the dean's office; the level of accessibility of the dean's office - 88% of respondents; the level of accessibility and responsiveness of the university management - 84% of the respondents. 84% of respondents are fully and partially satisfied with the availability of academic counseling; educational materials - 81% of respondents. 76% of respondents were completely or partially satisfied with the availability of counseling on personal problems and the clarity of procedures for taking disciplinary measures. 78% of students are completely and partially satisfied with the work of financial and administrative services of the University. 80% of respondents are completely or partially satisfied with the availability of health services for students and the quality of student health services.

### ***Analyses***

The requirements set forth in the IAAR "Students" standard are fulfilled completely at the University, with the exception of the involvement of students in academic mobility programs.

The university establishes a relationship between student selection, mission, the EP and the desired quality of graduates. The main criterion for passing the competition is the amount of competitive points, which is calculated as the sum of points for each entrance test, as well as for individual achievements.

The number of accepted students is established in accordance with the current regulatory legal acts, taking into account the area of educational premises; availability of teaching staff; the degree of provision with textbooks, manuals and scientific literature, the possibility of providing adequate conditions for studying and living for students.

In the course of interviewing and questioning students and graduates of the EP, members of the EEC found that during meetings with the heads of departments, the dean's office and the University, students have the opportunity to express their opinions and wishes regarding their participation in the decision-making process, ensuring academic quality and other professional, financial and social issues. All issues raised and discussed at these meetings are resolved in a timely and appropriate manner.

The results of students' survey in general showed high levels of satisfaction in terms of the attitude and level of accessibility of the dean's office, the accessibility and responsiveness of the university management, the support of educational materials in learning process, the availability of counseling on personal problems, the financial and administrative services of the educational institution, the level of accessibility of library resources, the quality services provided in libraries and reading rooms, existing educational resources of the university, the usefulness of the website of educational institutions in general and faculties in particular, the clarity of the procedure for taking incentives and disciplinary actions, the overall quality of curricula, teaching methods in general, the quality of teaching.

### ***Strong positions/best practice***

In general, this standard meets the IAAR quality criteria

***EEC recommendations:***

No.

***Areas for improvement***

No.

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

strong positions - 0

satisfactory - 29

suggest improvements - 0

unsatisfactory - 0.

***6.5. Standard "Academic staff/faculty"***

***Evidences***

The personnel policy of the University is based on the "Concept of strategic development of ONMedU for the period up to 2025"; Constitution of Ukraine, laws of Ukraine, Decrees of the President of Ukraine; resolutions of the Verkhovna Rada of Ukraine and the CMU, orders of the Ministry of Health of Ukraine, the Ministry of Education and Science of Ukraine, regulatory legal acts of state authorities, local governments, the Charter of ONMedU, the Collective Agreement for 2018-2022 and internal legal acts.

The rules for academic staff formation at the University were updated: "The procedure for conducting competitive selection when filling vacant positions of scientific and pedagogical workers and concluding labor agreements (contracts) with them" in 2015 was adopted in a new edition in 2021 - "Regulations on the competitive and personnel procedure selection of scientific and pedagogical workers of the Odessa National Medical University". The University has a "[Regulations on the Faculty of Dentistry](#)".

As of June 30, 2021, the academic staff of the University consisted of 1202 scientific and pedagogical employees of 59 departments involved in the educational process. The staff of the departments of dental profile is represented by 7 professors, 35 associate professors, 77 assistants. The number of teachers working full-time in the specialty 221 - "Dentistry" is 92 people. Fifty-six full-time teachers work on a part-time basis. The teaching load and other duties are determined for the academic staff, respectively, in proportion to the established amount of work, according to individual plans. The distribution of teachers with academic degrees in the departments of dental profile is presented in table 5.1.

Table 5.1 Distribution of teachers with academic degrees by departments of dental profile

Doctor of med. Science, professor	Doctor of med. Science, associate professor	candidate of med. Science, associate professor	Doctor of med. Science, assistants	candidate of med. Science, assistants
The department of general dentistry				
2	0	7	2	20
The department of orthopedic dentistry				
1	0	6	0	1

The department of orthodontics				
1	2	1	0	1
The department of pediatric dentistry				
1	1	7	0	3
The department of therapeutic dentistry				
1	0	10	0	2
The department of dental surgery				
1	0	6	0	4
<b>7</b>	<b>3</b>	<b>37</b>	<b>2</b>	<b>31</b>

Requirements for those wishing to take the position of a scientific and pedagogical worker of the University are posted on the website of the University. The basis of the career growth criteria of the University teachers is the system of legally established licensing requirements for educational activities and medical practice, which is reflected in the resolution of the Cabinet of Ministers of Ukraine "On approval of the Regulations on the organization of the educational process in health care institutions with the participation of scientific and pedagogical workers of institutions of higher education, which carry out training of applicants for higher education in the field of health care" No. 1337 of December 28, 2020.

The University has developed the "[Regulations on the rating assessment of the activities of scientific and pedagogical workers of the Odessa National Medical University](#)". The criteria for the dismissal of the University teachers are based on the "Labor Code of Ukraine". In Ukraine, general approaches to the professional development of scientific and pedagogical workers and teachers-specialists in the field of health protection are legally regulated on the basis of the Resolution of the Cabinet of Ministers of Ukraine: "Some issues of advanced training of pedagogical and scientific-pedagogical workers" No. 800 dated August 21, 2019 and "On approval of the Regulations on the system of continuous professional development of specialists in the field of health care" No. 302 dated March 28, 2018.

A mandatory requirement for the teaching staff is continuous professional development, in particular, advanced training at least once every 5 years in the amount of at least 6 ECTS credits. The University has created the necessary conditions for additional professional education of employees. Teachers of Dentistry Faculty underwent thematic improvement in cycles: "Hypersensitivity reaction to local anesthetics"; "Hypertrophic processes in periodontal diseases, tactics of management and treatment"; "Emergency conditions in dentistry"; "Interdisciplinary preparation of the oral cavity for prosthetics"; "Actual issues in dentistry"; "Principles of orthopedic treatment using implants"; "Peculiarities of therapeutic and surgical preparation for rational prosthetics"; "The use of physiotherapeutic methods in the complex treatment of various dental pathologies"; "Actual issues in endodontics"; "Peculiarities of diagnosis and treatment of complicated caries of temporary and permanent teeth"; "Diseases of the oral mucosa"; "Biomechanics in orthodontics and principles of operation of orthodontic appliances"; Periodontal Diseases, etc.

In 2021, financial resources were allocated from the University fund and an agreement was concluded with Odessa National University named after I. I. Mechnikov for the provision of educational services with the opportunity to pass a foreign language exam to obtain a certificate confirming the level of foreign language proficiency at level B2.

The total amount of working time of one teacher in the academic year is 1560 hours, based on a 36-hour working week (within the rate), taking into account 56 calendar days of vacation.



The activity of pedagogical and scientific-pedagogical employees of the University consists of classroom (educational) and extracurricular (educational-methodical, organizational-methodical, scientific, educational, medical and advanced training, etc.) and other activities provided for by official duties and (or) according to an individual plan teacher ([Ocinjuvannja-NPP-ONMedU.pdf](#)).

The teaching load of each teacher of the University is determined depending on the position held by him, the level of qualification. The teaching load for the position of a professor and an associate professor of the department is set in an amount not exceeding 600 hours per academic year.

Scientific and pedagogical workers have the opportunity to publish the results of their research in their own scientific journals of the University: "The Odessa Medical Journal", "Achievements of Biology and Medicine", etc. The amount of scientific research works (excluding scientific research work, conducted by the teachers during the second half of the day) - total (thousand hryvnias) in 2019 amounted to 118.2 thousand hryvnias, in 2020 - 200.14 thousand hryvnias. In 2020, a total number of conferences, seminars on dental topics were 18, of which: international - 4; all-Ukrainian - 5; regional - 1. The number of reports of teaching staff in the specialty 221 - "Dentistry" at scientific forums was: 28 - in 2019; 29 in 2020. Obtained patents, licenses, copyright certificates (excluding other titles of protection): in 2019 - 2; in 2020 - 4. The indicators of the publication activity of the teaching staff involved in the implementation of the EP 221 - "Dentistry" are presented in table 5.2.

**Table 5.2 Indicators of the publication activity of teaching staff involved in the implementation of EP 221- "Dentistry"**

Indicators	2019	2020
Number / volume (printed sheets) of monographs, textbooks and teaching aids published by teachers in the specialty 221 - "Dentistry"	1/43,0	3/123,81
Number / volume (printed sheets) of articles published by teachers in the specialty 221 - "Dentistry" in total	109/524,3	122/84,4
including in foreign publications	24/39,8	33/20,12
In scientific publications, indexed in scientometric databases	21/20,8	64/42,74

In order to stimulate scientific and pedagogical activity, incentive bonuses have been developed for teaching staff for publications in international refereed and in their own scientific journals; participation in the preparation and publication of textbooks, monographs and teaching aids, as well as for the supervision and defense of dissertations for supervisors.

Occupation of vacant positions takes place on the basis of a competition regulated by the legislation of the Republican level.

The text of the self-report for this standard and its appendices do not provide detailed information on the key performance indicators (main achievements) of the teaching staff involved in the implementation of the EP in the specialty 221 - "Dentistry" (participation in scientific projects, publication activity, treatment and diagnostic activities, research work with students, etc.).

Based on the results of a student survey conducted during the visit of the EEC, the respondents rated as "very good" and "good" the level of proficiency of University teachers with material on disciplines (91%); positive attitude towards students (83%); the level of proficiency of the teaching staff in the professional language (89%); the teaching and learning methods used (77%); form of presentation of educational material (77%); the ability of teaching staff to stimulate the activity of students (76%) and creative thinking of students (73%); presentation of educational material in an understandable form (73%).



EEC experts note that the University and the Faculty of Dentistry have:

- the balance of the academic staff / teachers of basic biomedical sciences, behavioral, social and clinical sciences is maintained for the adequate implementation of the EP in the specialty 221 - "Dentistry";
- developed criteria for the admission and selection of teaching staff, including the scientific, pedagogical and clinical merits of applicants;
- monitoring of the responsibility of the academic staff/teachers teaching the social and humanities, basic biomedical sciences, behavioral, social and clinical sciences is ensured.
- the institutional conditions for the financing of employees and the efficient use of resources are taken into account.

EEC experts state that the teachers involved in the implementation of the EP in the specialty 221 - "Dentistry":

- provide high-quality educational services for the training of qualified specialists of the healthcare system of Ukraine;
- conduct their own scientific research;
- participate in the development of the educational standard in the specialty 221 - "Dentistry"; standard and working curricula; working curricula and syllabuses by disciplines;
- carry out social and educational work in the framework of the formation of social and personal qualities of the future dentist;
- evaluate the quality of student training through current, intermediate and final control using evaluation tools developed at the departments of the University and at the republican level;
- participate in the selection of basic institutions of practical health care for teaching students and conducting work experience;
- provide advisory and scientific and practical assistance to medical institutions in Odessa and the region;
- use active and simulation teaching methods in the educational process with the use of modern technical teaching aids;
- develop and introduce educational and methodological materials into the educational process.

The University has implemented a policy of activity and development of teaching staff, which guarantees the recognition of academic activity, with an appropriate emphasis on teaching, research and clinical qualifications.

The members of the EEC, in the process of analyzing the appendices to the Report and in the course of interviews with the teaching staff, did not receive convincing evidence about the implementation of incoming and outgoing academic mobility programs, including abroad. Despite the fact that the teaching staff of the Faculty of Dentistry regularly upgrades their qualifications through thematic improvement cycles (on dental topics), there is no information about the training of teachers in medical education, innovative teaching methods and assessment.

EEC experts also note that, according to the results of interviews with teaching staff and students, analysis of the content of working curricula in disciplines and full-time and remote attendance of lectures and practical classes, teaching and learning methods focused on memorization (reproduction) and understanding prevail in the educational process of the University. educational material; elements of analysis of clinical situations; curation of patients under the supervision of clinical mentors (at senior courses), computer visualization, simulation technologies. Assessment methods are used that do not fully reflect the competencies planned in the EP 221 - "Dentistry", which is also noted in the recommendations of the EEC to Standard 6.2 "Educational Program". The teaching staff, students and graduates of the EP did not mention in the course of interviews in focus groups about such teaching and learning methods as TBL (Team Based Learning - team-oriented learning), CBL (Case Based Learning - learning based on a clinical case); (Research Based Learning - learning based on research), project-oriented learning, etc. The introduction of modern educational technologies in the educational process dictates the need to master such assessment methods as assessing the cognitive, operational, communicative, research

component of students' competencies; ability to independently search and analyze information; skills of working in a professional and interdisciplinary team, and this need can be realized during the development and implementation of modern methods and tools for assessment and assessment forms that are successfully used in the global medical educational community.

Satisfactory marks were given by the members of the EEC for those items that require increased attention while meeting the standards.

Activities on these points are planned by the university and put in the plan.

***Strong positions/best practice***

In general, this standard meets the IAAR quality criteria

**EEC recommendations**

5.2.1 Organize advanced teaching staff training on the use of modern educational learning technologies (TBL, CBL, RBL, etc.) in the educational process, with the involvement of partner universities (in full-time or distance format); deadline - until 09/01/2023.

***Conclusions of the EEC according to the criteria: (strong/satisfactory/ suggest improvements/unsatisfactory)***

Strong - 0

Satisfactory - 12

Suggest improvements - 1

Unsatisfactory - 0

6.6. Standard "Educational resources"

***Evidences***

The departments of medical-biological, medical-preventive and social-humanitarian sciences of the University are located in 8 educational and educational-administrative buildings, the total area of which is 25304.5 m<sup>2</sup>. These educational buildings include: Main educational building - 7206.8 m<sup>2</sup>; Anatomical building - 4482.8 m<sup>2</sup>; Sports complex - 3633.9 m<sup>2</sup>; Educational and administrative building (11 Pastera St.) - 2496.6 m<sup>2</sup>; Educational building (Knyazheskaya st., 1) - 1148.6 m<sup>2</sup>; Educational and administrative building (street Sofievskaya, 2) - 2562.0 m<sup>2</sup>; Educational building (2a Pastera street) - 2022.6 m<sup>2</sup>; Educational building (st. Olgievskaya, 13) - 1751.2 m<sup>2</sup>.

Twenty-nine clinical departments of the therapeutic and surgical profile are located at clinical bases in 55 medical and preventive institutions, incl. 39 are located in health care facilities that are subordinate to the Department of Health of the Odessa City Council and the Department of Health of the Odessa Regional Council, as well as health care facilities of Mykolaiv and Kherson regions; 2 scientific and practical institutions of the National Academy of Medical Sciences of Ukraine; 3 departmental medical institutions; 2 private medical institutions; 5 recreational institutions, as well as on the basis of 4 scientific and practical medical centers of the University: Multidisciplinary Medical Center; Medical ophthalmological center; Center for Reconstructive and Restorative Medicine; Dental medical center. The total area in the medical institutions of the Department of Health of the Odessa Regional Council, which is occupied by the clinical departments of ONMedU, is 3950 m<sup>2</sup>; Department of Health of the Odessa City Council - 3133 m<sup>2</sup>. The total area of the University's own 4 scientific and practical medical centers is 33,301.7 m<sup>2</sup>: Multidisciplinary Medical Center ONMedU - 16,847.4 m<sup>2</sup>; Medical Ophthalmological Center ONMedU - 1701.4 m<sup>2</sup>; Center for Reconstructive and Restorative Medicine ONMedU - 12642.9 m<sup>2</sup>; Dental Medical Center ONMedU - 2110 m<sup>2</sup>. With the participation of the departments of the University, there are 31 specialized medical and preventive centers in various areas, of which 6 are obstetric-gynecological, 9 therapeutic, 10 surgical, 3 pediatric and 3 dental ([Odessa National Medical University | List of clinical sites.](#))

The University has a modern electronic library, in which electronic databases have been created for each department of the University; independent work of students according to the ECTS system is provided. The resource is available on the ONMedU information portal info.odmu.edu.ua 24/7 from any device connected to the Internet. For the implementation of an authorized entry into the system, all applicants for higher education of the University are provided with a login and password. At the University, according to the Order of the Ministry of Education and Science of Ukraine No. 269 of February 27, 2019 "On Approval of the Procedure for Ensuring Access of Higher Educational Institutions and Scientific Institutions to Electronic Scientific Databases" all users of the computer network were given access to the unique services of the leading scientometric databases Web of Science Core Collection, Scopus, ScienceDirect, as well as to the educational resources of MJ Best Practice, BMJ Learning, The Cochrane Library (Evidence Based Medicine).

The book fund of the library of the University has more than 800 thousand copies of books on paper. On electronic media (Ukrainian, English and Russian) there are about 5 thousand units. Every year the book fund of the library is replenished with educational literature for 350-400 thousand hryvnias, the library annually subscribes 80 titles of scientific journals for the amount of 200 thousand hryvnias. The ONMedU Institutional Repository (IPONMedU/ONMUIR) is included in the international free search engine for full-text scientific publications in all formats and in all disciplines – Google Scholar, all scientific works of the University staff, posted in IPONNedU/ONMUIR, are available in the international academic search. Students and academic staff of the University have access to international information resources, including Hinary (a WHO program created jointly with leading publishing houses and allowing access to the world's largest collections of biomedical literature (21,000 journals, 69,000 e-books, 115 other resources), "British Medical Journal" (one of the authoritative specialized publications for the professional growth of physicians). Scientific Library with reading rooms (total area 1207.8 m<sup>2</sup>) and Student Library (with computer and reading rooms, total area 1212.9 m<sup>2</sup>). For staff and students, the Medline database with sources since 1966 has been updated. The database "Catalogue of the National Medical Library of Ukraine" was purchased.

In the structure of the University there is a Medical sports and recreation camp "Medic". The university has 5 buildings of student hostels, the total number of beds is 2314.

The departments and educational and administrative divisions of the University are provided with modern computer equipment and access to the Internet. The university has 1311 units of computer equipment (759 desktop computers and 552 laptops). To pass the current and final testing in theoretical disciplines, 9 computer classes are involved with the number of places - 220.

The University has a publishing and printing complex, scientific journals and collections of scientific papers are published: "Odessa Medical Journal", "Integrative Anthropology", "Achievements in Biology and Medicine", "Bulletin of Psychiatry and Psychopharmacotherapy", "Bulletin of Marine Medicine", "Clinical Anesthesiology and Intensive Care", the newspapers "Pulse" and "His Majesty the Patient".

The departments of the University are equipped with modern projection systems, namely: 153 multimedia mobile projectors, 10 large LCD panels and 8 interactive whiteboards. An electronic system for managing the quality of education of ONMedU was developed and implemented, which includes the systems of the "Electronic Records" (work with progress sheets, lists of debtors, an online exam system), "Rector's control" (testing applicants), OSKE exams (Objective Structured Clinical Exam; Objective Structured Clinical Examination - OSCE). The website of the University is functioning and constantly updated, as well as a distance education system running on the software of the Moodle and Microsoft Teams platforms.

At the clinical bases of the Faculty of Dentistry there are:

- computers Lenovo IDEAPAD110-110-15IBR15.6"HD(1366x768)TN/N:  
LenovoIDEAPAD110-110-15IBR15.6"HD(1366x768)TN/N (6); Hydraulic x-ray chair,  
prefabricated; Electrocoagulators Bonart ART-E1 (2); Motor 2-speed (6); Parallelometer PLES-1;



Pneumatic dental treatment system; Projector Epson EB-W05; Sterilization autoclave; Dental chair Sequoia (6); Sandblaster "Aerodent"; BFP Brother DCP-L2560DWR; TV "Samsung 6202" used; Machine section, Motor section; Chamber for sterile products "Panmed-1"; Press for extrusion (clinical base at the address: Tenistaya St., 8);

- computers Lenovo IDEAPAD110-110-15IBR15.6" HD(1366x768)TN/N (8); Lenovo IDEAPAD110-110-15IBR15.6" HD(1366x768)TN/N; Switch D-Link DGS-3200-10 10-Port Managed L2; Monitor LED LCD LG 21.5 Flatron E2211S Black (5ms, - 2); Portable car "Grand" with 2 dvig. 2 pedals (8); Projector Epson EB-W05; Projector Epson EB-W05 (3LCD, WXGA. 3300 ANSI im); System block: Mat. ASUS P8H61-M LE/Intel P board (2); System block: Mat. ASUS P8H61-M LE/Intel P board; Access point Aruba AP-345(RW) Unified AP (2), (clinical base at the address: 32 Mechnikova St.);

- Lenovo IDEAPAD110-110-15IBR15.6" HD(1366x768)TN/N (6); HPE 5120 8G PoE+ (180W) SI Switch; Multimedia kit (2); Projector Epson EB-W05; System unit AtHion X2 255; Dentix dental unit, Model QL 2028 I (3); Dentix dental unit, Model QL 2028 III (3); Simodont dental simulator; TV LG 49LH590V; HPE Aruba AP-5058(RW) Unified AP Access Point; HPE Aruba AP-5058(RW) Unified AP Access Point; Aruba AP-345(RW) Unified AP Access Point; access point D-Link DWL-3200AP, etc. (street base at the address: Mechnikova St., 2), etc.

The University uses simulation models of varying complexity. The multidisciplinary multifunctional educational and production complex of innovative technologies for teaching, informatization and continuing education (EIC ITTICE) prepares and organizes OSCE at the dental and international faculties (therapeutic dentistry, surgical dentistry, pediatric therapeutic dentistry, orthopedic dentistry, orthodontics). The one-profile simulation center of the Department of Orthodontics provides training for 2-5 year students of the Faculty of Dentistry, as well as interns in the specialty "Dentistry".

Clinical training of students is provided by the work of scientific and pedagogical workers of 45 clinical departments of the University and takes place on the basis of 55 medical institutions. In accordance with the order of the Ministry of Health of Ukraine dated 05.06.1997, No. 174 "Regulations on the Clinical Healthcare Institution" (as amended by the order of the Ministry of Health of Ukraine dated 09.09.2013, No. 792), the University concludes cooperation agreements with communal non-profit enterprises health care, institutes of the National Academy of Medical Sciences of Ukraine, departmental institutions and private medical institutions ([Odessa National Medical University | Specialty 221 "Dentistry"](#)).

The research activity of students is coordinated by the scientific and teaching staff and the student scientific society (SSS) of the University. Today, the SSS of the University has 60 student scientific circles, in which 702 students and 50 young scientists participated. During the year, 240 meetings of the SSS departments were held.

Corporate environment, including corporate mail in the onmedu.edu.ua domain, exchange and provision of information - Office 365 with cloud applications Microsoft Teams, Word, Excel, PowerPoint and others. All students and staff have an account in the Microsoft Office 365 service. The work of the information and analytical pages of the University on social networks Facebook, Twitter, Youtube channel is supported.

Every year SSS and OMU of the University organize a scientific-practical conference with international participation "Modern theoretical and practical aspects of clinical medicine" (for students and young scientists). According to an agreement with Vanderbilt University (Nashville, Tennessee, USA), the University is a member of the consortium for the development and use of software for the systematic storage and processing of scientific data RED Cap. The university cooperates in the project "Tempus - leadership" and as part of the International European project MEDINE. The University cooperates with the Ministry of Health of Ukraine, Poland and Germany within the framework of the program of the Ministry of Health of Ukraine "European training in mental health" and takes part in the program "Intercultural determinants of well-being in various working-age populations in Europe" together with Nofer Institute of Occupational Medicine (Lodz, Poland). ).



The implementation of more than 50 international agreements with foreign educational, scientific and research institutions from such countries of the near and far abroad as Italy, Canada, Lithuania, Moldova, Poland, Romania, Turkey, the USA, etc. continues. Established contact and cooperation with the European Society for Simulation Medicine (The Society in Europe for Simulation Applied to Medicine - SESAM).

During 2020, the University signed cooperation agreements with international organizations and institutions of higher education - 57; the number of ongoing international programs and projects - 23, the number of grants (travel and internships) - 8.

Based on the results of a student survey conducted during the visit of the EEC, it was revealed that 88% of students were fully and partially satisfied with the level of availability of library resources; the quality of services provided in libraries and reading rooms - 87%; existing educational resources of the university - 83%; availability of computer classes - 76%; accessibility and quality of Internet resources - 80%; the content and information content of the University's website - 85%; classrooms and classrooms for large groups - 81%; rest rooms for students - 58%; available computer classes - 73%; scientific laboratories - 73%; providing students with a hostel - 72% of respondents.

According to the results of the survey of the teaching staff during the visit of the EEC, it was found that the teaching staff positively assesses the availability of the necessary scientific and educational literature in the University library (94%); safety of working conditions 95%.

### *Analyses*

EEC experts state that, within the framework of the standard "Educational Resources" in the specialty 221 - "Dentistry", during the work of the expert commission and the analysis of the submitted documentation, it was revealed, in the main, compliance with the requirements of the standard.

EEC members note that the University provides the necessary resources for the successful implementation of the EP 221 - "Dentistry", including a sufficient number of educational and clinical facilities; long-term contracts with medical organizations in Odessa, etc.

Based on the results of interviews with teaching staff teaching disciplines in the specialty 221 - "Dentistry" and with students, EEC experts revealed the need for greater assistance from the University administration to conduct research in the field of medical education and implement programs of external and internal academic mobility (incoming and outgoing).

EEC experts note that the University should develop and implement a policy on the use of expertise in the development of teaching methods and assessment of knowledge and skills in OP 221 - "Dentistry", for example, a group of independent experts (from among the advanced teaching staff of the University), since teaching and learning methods are somewhat behind from the possibilities of the material and technical base of the university.

Despite the satisfaction of the teaching staff and the students with the working and learning conditions in general, the members of the EEC note that, according to the results of interviews and questionnaires of the teaching staff, estimates were revealed regarding the imbalance of the teaching load by semesters ("sometimes" and "often" - 36%); overcrowding of study groups (41%); inconvenient class schedule (41%); uncomfortable conditions for classes in classrooms (33%); periodic lack of access to the Internet (40%); untimely received information about events (96%); lack of classrooms (46%).

In the course of interviews with students and teaching staff, no information was received on participation in incoming and outgoing academic mobility programs in full-time or remote formats. Students and graduates of the EP 221 - "Dentistry" expressed their wishes to strengthen the practical component in the learning process in terms of contacts and manipulations with real patients at clinical sites.

EEC experts also recommend that the University management conduct a set of measures to carry out an examination in the field of education assessment and research in the field of medical education, including the study of theoretical, practical and social issues, since no convincing data

was obtained on ongoing research and expert work during interviews with teaching staff University.

Satisfactory marks were given for those items that require increased attention while meeting the standards. Activities on these points are planned by the university and put in the plan.

***Strong positions/best practice***

In general, according to this Standard, the activities of the organization meet the criteria.

**EEC recommendations:**

6.5.1 The University is recommended to develop and implement its own Expertise Policy at the stages of planning, development, implementation and evaluation of the EP 221-Dentistry, which includes an examination of teaching methods and evaluation of learning outcomes. Deadline: until 01.01.2022.

**Areas for improvement:**

6.5.2 Expand cooperation with other educational organizations, including non-medical universities, to exchange data on the results of the examination of educational products, use modern approaches to the examination of educational materials, stimulate the participation of teaching staff, administrative and managerial staff in the training of experts and conducting research in the field of medical education.

6.5.3 Encourage the participation of teaching staff, university employees in conducting research in the field of expertise by training experts, developing intra-university grants for research in this area, attracting trained teaching staff to expertise within the university and beyond. Develop mechanisms for resource provision and support for employees involved in the implementation of the EP 221 - "Dentistry", in conducting research in the field of medical education; term - from 2022 and further, on an ongoing basis.

6.6.4 Develop mechanisms for resource provision and support of the academic, administrative staff, teaching staff and students in the EP 221 - "Dentistry", in order to implement internal and external academic mobility programs (in full-time and remote formats) - until 09/01/2022.

***Conclusions of the EEC according to the criteria: (strong/satisfactory/ suggest improvements/unsatisfactory)***

Strong - 0

Satisfactory - 23

Suggest improvements - 4

Unsatisfactory – 0

**6.7. Standard "Program evaluation"**

***Evidences***

To assess the quality of educational services at the University, the EP is regularly monitored and evaluated by internal and external audits, external independent assessment of students' educational achievements. Monitoring of the educational program and the results of its development are carried out on the basis of the "Regulations on educational programs of the Odessa National Medical University".

The components of the EP 221 - "Dentistry", which are subject to systematic monitoring: the structure of the EP; the ratio of the base and variable parts; the presence of elective disciplines; types of practices; educational and methodological support of the EP; accessibility of the electronic information and educational environment; staffing; logistics.

The achievement of goals within the framework of the EP is monitored by the system of intra-university control at 4 levels:

- at the level of students;

- at the level of teaching staff involved in the implementation of the EP 221 - "Dentistry";
- at the level of graduating departments implementing the EP;
- at the level of faculties and the University (Central Coordinating Methodological Council, Academic Council of the Faculty and Academic Council of the University).

The Educational and Methodological Department and EIC ITTICE are responsible for regular monitoring of the EP 221 - Dentistry. The dean's offices, the educational and methodological department, the educational department, with the active participation of the departments, ensure the timely implementation and evaluation of the tasks set ([Odessa National Medical University | Educational Department](#)).

The Quality Center annually monitors the satisfaction of employers with the quality of training of University graduates. Based on the analysis, employers make their proposals on the content of the EP: on the inclusion of new disciplines, on the exclusion of obsolete disciplines, on changing the content of individual disciplines, etc. Employers from medical institutions of the executive bodies of Odessa, Kherson, Nikolaev regions take part in electronic surveys. Practical healthcare workers are members of the graduation certification commission, participate in the primary accreditation of interns, identify shortcomings and recommend changes in the educational program.

Being the part of the evaluation mechanisms of the EP 221 - "Dentistry", it is possible to track the progress of each student, starting with the results of the entrance campaign (external independent assessment from competitive disciplines), current, intermediate certification, final certification and ending with the results of primary accreditation. The overall results of mastering the EP are evaluated on the basis of the results of graduation certification, primary accreditation and employment of graduates, according to the proportion of graduates who continued their studies at the postgraduate stage.

During the academic year, students are surveyed and questioned. Responsible for this is the education quality assurance department. Questionnaires and elaborated results together with conclusions are placed on the website of the University. The last polls were conducted in December 2020 and January 2021.

Suggestions and recommendations can be provided directly through the official website in the "Public Discussions" section. The University has a web portal <https://onmedu.edu.ua>, containing information about educational, research, pedagogical, methodological, educational activities, intended for a wide audience: students, their parents, teachers, employees, applicants, representatives of the Administration region and the public, medical professionals, medical associations, etc.

Based on the results of the survey of the University teaching staff, conducted during the visit of the EEC, the members of the commission revealed that they were satisfied with the content of the educational program (ratings "very good" and "good") 97% of respondents; providing the opportunity for continuous development of the potential of teaching staff - 94%; the ability to use their own strategies, methods of learning and teaching, innovation in learning - 96%. The management of EP 221 - "Dentistry" by the administration of the University was positively assessed by 96% of respondents.

According to the results of a survey of students during the EEC visit, 81% of respondents were completely and partially satisfied with the overall quality of the training programs; teaching methods - 79%; the quality of teaching - 83%; quick response to feedback from teachers on the educational process - 86%; academic workload and requirements for students - 78% of respondents; teaching staff requirements for the student - 82%; information support before entering the University and during training - 84% of students.

### ***Analyses***

EEC experts note that within the framework of the standard "Evaluation of educational programs" in the specialty 221 - "Dentistry", in the course of the work of the expert commission

and the analysis of the submitted documentation, in general, compliance with the requirements of the standard was revealed.

The members of the EEC, after analyzing the submitted documents and talking with the participants of the focus groups, came to the conclusion that the University has a multi-level system for assessing the educational program in the specialty 221 - Dentistry, which includes an internal assessment of the quality of education and consists of:

- current supervision of organization and implementation of the educational process by the dean's office (in the form of a monthly report of the departments on the current progress and attendance of students);
- periodic supervision of the educational and methodological department of the University over the occupancy of academic groups, the implementation of the approved schedule of classes in the form of inspection raids;
- assessment of the educational process quality by the educational and methodological department and the department for assessing the quality control of education in the form of an internal audit of educational units and processes;
- participation in the procedures of intermediate and final attestation of independent experts;
- internal departmental assessment of teaching quality in the form of mutual visits by employees of classes, etc.

The University Administration periodically evaluates the EP, including the content of disciplines, the organization of the educational process, material and technical resources, the learning environment, cultural and national characteristics.

At the same time, EEC experts note that the University needs to develop and document its own "Regulations on monitoring processes and results", including the collection and analysis of data on key aspects of the educational program in the specialty 221 - "Dentistry".

The educational achievements of the University students are systematically analyzed in relation to the mission and end results of studying educational programs, including the determination of such indicators as the average grade for disciplines and courses of study; absolute progress and qualitative indicator of progress; the absolute number and proportion of expelled students. The conditions of training in the completed courses are analyzed. The University administration conducts periodic research in the field of assessing the degree of students' and teaching staff satisfaction with educational programs and the availability of resources in the form of a questionnaire.

At the same time, EEC members state that the list of ways to receive feedback from students in the EP 221 - "Dentistry" can be expanded. The members of the EEC failed to establish the entire list of indicators for evaluating the EP, which is used at the University.

The EEC members note that the feedback regarding the issues of assessing and improving the EP at the University is mainly presented in the form of a questionnaire, while the range of forms, methods and feedback models can be expanded, taking into account the specifics of the EP (oral and written comments from the stakeholders of the EP; reflective reviews; interviews in focus groups, chronological reports, etc.).

The members of the EEC failed to fully establish how the University controls the quality of mastering educational programs by students according to the established criteria, and how continuous monitoring of the quality of the EP is ensured, since the mechanisms and indicators governing this process are not clearly defined.

Satisfactory marks were given by the members of the EEC for those items that require increased attention while meeting the standards.

Activities on these points are planned by the university and put in the plan.

***Strong positions/best practice***

In general, this standard meets the IAAR quality criteria.



### **EEC recommendations**

7.1.1 To Develop and to implement a program / regulation for monitoring the EP, including the collection of key indicators for the implementation of the EP, the assessment of the quality of teaching, the use of modern teaching methods and the assessment of students' educational achievements (content of disciplines, teaching and learning methods, clinical rotations, assessment methods, etc.). ). Deadline: 07/01/2022

7.1.6 In the EP monitoring program, provide quality improvement mechanisms based on the results of assessing the achievements of students, including an analysis of non-achievements of educational achievements by students. Deadline: 07/01/2022

7.1.7 It is recommended to use the identified shortcomings and problems in the process of implementing the EP "Dentistry" as feedback tools for carrying out activities and developing corrective action plans, improving the EP and syllabuses of the discipline - until the start of the 2022-2023 academic year and then on an ongoing basis.

7.1.8 It is recommended to systematically collect, analyze feedback on from the stakeholders of the EP 221 - "Dentistry" and provide them with the results of feedback - before the start of the 2022-2023 academic year and then on an ongoing basis.

### **Areas for improvement**

7.1.11 It is recommended to provide the results of the evaluation of the EP 221 - "Dentistry" to all interested parties; – until the beginning of the 2022-2023 academic year and then on a regular basis.

**Conclusions of the EEC according to the criteria: (strong/satisfactory/ suggest improvements/unsatisfactory)**

Strong - 0;

Satisfactory - 17

Suggest improvements - 5

Unsatisfactory - 0.

### **6.8. Standard "Governance and administration"**

#### **Evidences**

In accordance with the Law of Ukraine "On Higher Education" No. 1556-VII dated July 1, 2014, ONMedU operates in the conditions of institutional autonomy, incl. managerial and financial.

The management structure of the University corresponds to the mission, vision, goals, objectives, main directions of the "Concept of strategic development of ONMedU for the period up to 2025", which serves as a guarantee of institutional integrity, targeted use of available resources and contributes to the creation of favorable conditions for the implementation of the educational process in the specialty 221 - "Dentistry". » ([Odessa National Medical University | University administration and heads of departments](#)).

The staff list of the University is approved by the Ministry of Health of Ukraine ([STRUKTURA-so-shtatnoj-chislenostju-na-01.01.2021.pdf \(onmedu.edu.ua\)](#)). The activities of the rector and vice-rectors are evaluated based on the analysis of reports and action plans; analysis of the fulfillment of the goals and objectives of the strategic plan; based on key performance indicators developed for each position. The annual report of the rector contains quantitative and qualitative indicators of the results of the University's activities, and is sent to the Ministry of Health of Ukraine, reported, and posted in the public domain on the University's website.

Direct management during the implementation of the EP 221 - "Dentistry" is carried out by:

- the head of the faculty - the dean (material and technical support; information and educational and methodological support; career guidance work with potential applicants; interaction with stakeholders; quality assurance of the implemented EP; organization of self-assessment of the EP and educational activities)

- the guarantor of the EP (organization of the development, approval, monitoring and periodic revision of the EP; analysis and implementation of the best experience of world and domestic practice of higher education in the content and technology of the EP implementation; control over the compliance of the EP support group with licensing conditions in accordance with the law; self-assessment of the EP and educational activities) .

In order to prepare the administrative staff of the University, which provides management and administration of the EP and related activities, advanced training programs are being implemented, master classes, round tables are held in the areas of: "Management in education", "Personnel management in the education system", etc.

In order to control the quality of the EP and improve them, various monitoring procedures for assessing the quality of the EP are carried out: external, internal. The main external evaluation procedure is national and international accreditation in order to ensure and improve the quality of higher education. Internal assessment of the quality of the EP implementation is carried out through internal monitoring (self-analysis) and their refinement.

Financing of the University is carried out in accordance with the Budget Code of Ukraine, the budgetary legislation of Ukraine, the Law of Ukraine on the state budget, industry and local legal acts. The components of the University budget revenues are state budget funds and own revenues received in addition to the general budget fund and included in a special fund according to the groups defined by Art. 13 of the Budget Code of Ukraine. The financial activity of the University is regulated by the current legislation of Ukraine and the "Regulations on the procedure for the provision of paid educational and other services by the Odessa National Medical University", approved by order of ONMedU dated November 22, 2017 No. 810A-o. The cost of all paid services is published on the official website of the University in thematic sections and is available to consumers.

The consolidated budget of the University in 2020 consisted of general and special funds in three CPCEC and amounted to UAH 616,085.4 thousand, namely:

- educational activity - 479711.9 thousand UAH. (77.9%);
- medical activity - UAH 134,890.6 thousand. (21.9%);
- scientific activity - UAH 1482.9 thousand (0.2%).

The share of public funds in the consolidated budget amounted to 37.2%, while own inpayments accounted for 62.8%. In the structure of own inpayments, 95.3% came from educational activities, 0.5% came from the medical sector, and 4.2% came from other types of activities.

The EP expenses items include:

- 1) payments to the staff of the University;
- 2) purchase of goods, works and services for state needs;
- 3) social security and other payments to the population;
- 4) other budget outlays.

In order to bring information to the University staff, the results of financial and economic activities are annually reported to the Academic Council of the University Estimate, information on the implementation of tendering procedures and financial reports is posted in the public domain on the University website. All state public procurements of the University, in accordance with the Law of Ukraine "On Public Procurement", exceeding UAH 50 thousand, are carried out through the electronic system "Derzhzakupivli.Online" (ProZorro), which ensures transparency and openness.

The material support department is responsible for the processes of providing and distributing material resources, conducting procurement and other activities related to this type of activity. The staff of the legal department is responsible for the legal support of the activities of

the University. Economic activity at the University is carried out by the service for the operation, restoration and modernization of the university, the economic department, the car fleet, the department of regime and security. The chief engineer oversees the main processes of economic activity. Management of economic activities is aimed at ensuring and constantly maintaining the infrastructure of the University, as well as creating a safe learning environment for students and teachers, managing the economic activities of educational and administrative buildings, dormitories.

According to the survey of teaching staff conducted during the EEC visit, 93% of respondents are fully and partially satisfied with the availability of top management for the teaching staff; the adequacy of recognition by the leadership of the university of the potential and abilities of the teaching staff - 92%; organization of work to improve the qualifications of teaching staff - 93%; support of the university and its management of research initiatives of the teaching staff - 87%; the perception of the management and administration of the university of criticism in their address - 88%; relations with direct management - 97%; relations with colleagues at the department - 99%; the degree of participation in managerial decision-making - 92%; relations with students - 99% of respondents.

92% of the teaching staff is fully and partially satisfied with the recognition of successes and achievements of the administration; activities of the university administration - 93%; payment conditions - 86% of respondents. Working conditions, the list and quality of services provided at the university are fully and partially satisfied with 93% of the teaching staff; labor protection and safety - 95%; management of changes in the activities of the university - 86% of respondents. 70% of the teaching staff is fully and partially satisfied with the provision of employee benefits (rest, sanatorium treatment, etc.); organization and quality of food at the university - 66%; organization and quality of medical care - 67% of respondents.

### *Analyses*

During the implementation of the EP 221 - "Dentistry", the University staff is guided by internal regulatory legal acts, orders and instructions of the rector, orders of vice-rectors in the relevant areas within their competence, quality management procedures, as well as orders of the heads of structural divisions.

The rector, vice-rectors and heads of structural subdivisions of the University are administrative responsibility for the decisions made and the results of their implementation. The relationship between the participants in the educational process is regulated by the Charter of the University, the "ONMedU Internal Regulations", the "Moral and Ethical Code of Persons Working and Studying at ONMedU", the "Regulations on the Competitive and Personnel Selection Procedure for ONMedU Scientific and Pedagogical Workers" and other local regulatory documents (University (<https://onmedu.edu.ua/wp-content/uploads/2021/10/plan-raboty-dekanata-21-22.pdf>)).

The members of the EEC state that the administration of Dentistry Faculty of the University:

- coordinates the process of developing the curriculum for the specialty 221 - "Dentistry";
- ensures the implementation of standard and working curricula of the EP 221 - "Dentistry";
- monitors the correctness of registration of cases by the admissions committee when enrolling students for the first year or transferring from university to university;
- participates in the development of the schedule of training sessions and monitors the readiness of the departments for the beginning of the academic year;
- organizes the educational process and provides quality control of students' training;
- appoints group facilitators in the junior years and clinical tutors in the senior years;
- provides data on the contingent of students at the Dentistry Faculty, their progress for the rector, administration, planning and finance department, accounting and other departments of the University;

- organizes and controls the passage of students of educational and industrial practice, conducting tests, exams and final certification;
- draws up study leave, expels and readmission of students, makes a decision on the re-education of the student on the course;
- collects information about the progress of faculty students with subsequent analysis and discussion at the Faculty Council, meetings of the Academic Council, administration;
- carries out a set of measures to make up missed classes, conduct an appeal procedure;
- provides support to poor and gifted students;
- assigns scholarships, incl. nominal, on the recommendation of the Academic Council, students of the faculty in accordance with the current Regulations;
- organizes and provides control of all types of activities of assigned departments (<https://onmedu.edu.ua/zagalna-informacija/fakulteti/stomatologichnij-fakultet/>).

During interviews with heads of departments, teaching staff and studying members of the EEC, insufficient activity was revealed in terms of organizing academic mobility of teaching staff and students of the EP 221 - "Dentistry", including in online learning.

The members of the EEC found that there is no organization of training for teaching staff on expertise in the field of medical education, which affects the quality of the accredited EP 221- "Dentistry". The members of the EEC were not provided with a list of events (meetings, protocols) for discussion with external stakeholders, public health authorities of the countries where foreign students come from, the EP 221 - "Dentistry" and the results assessing the degree of student satisfaction with the learning outcomes. The quality management system at the University described in the Self-Assessment Report did not receive full evidence-based confirmation during the work of the EEC.

The members of the EEC, based on the results of teaching staff and students survey, found that the vast majority of respondents highly appreciated the activities of the University top management and the administration of Dentistry Faculty. Desire for staff development was demonstrated, but there were no supporting documents (plans, reports, certificates) in the field of development of pedagogical competencies of teaching staff involved in the implementation of the EP 221 - Dentistry.

The members of the EEC identified certain shortcomings in terms of organizing training in the field of educational expertise, which cannot but affect the management of the EP. The minutes of discussions with external stakeholders, public health authorities of the countries from where the University accepts foreign students were not provided; the presence of standardization processes is not defined. The ISO certificate is dated 2016, which affects the management processes at the University.

The University has demonstrated a desire to develop staff, but no specific resources, policy documents in the field of development of pedagogical competencies of teaching staff, implementing the EP 221 - "Dentistry", have been presented.

Satisfactory marks were given by the members of the EEC for those items that require increased attention while meeting the standards.

Activities on these points are planned by the university and put in the plan.

***Strong positions/best practice***

In general, this standard meets the IAAR quality criteria.

**EEC recommendations:**

8.1.10 It is recommended to specify the responsibility of the University academic management in relation to the development and management of the educational program and update the ISO 9001:2015 certificate in order to build a modern quality system and proper process management - from 2022.

***Areas for improvement:***



8.4.3 It is recommended to develop and implement your own Quality Management Standards Policy, including consideration of areas for continuous improvement, by the end of the 2022-2023 academic year.

8.4.4 It is recommended to conduct a regular review and analysis of management in order to improve quality - from 2022, on an ongoing basis.

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

strong - 0

satisfactory - 21

suggest improvements - 3

unsatisfactory – 0

#### 6.9. Standard "Continuous renewal"

##### **Evidences**

The University systematically carries out the processes of updating its internal structure, the content of educational programs, improving the qualifications of teaching staff, introducing new forms and methods of teaching, evaluating learning outcomes of students, interns, and graduate students; the material and technical base is being developed and updated; cooperation with medical institutions, research institutes and other higher educational institutions.

When planning activities, the University is guided by the national legislative framework of Ukraine in the field of education and healthcare. Issues of reorganization, major structural changes, creation of new departments and positions are considered and approved at meetings of the Academic Council of the University. The adopted decisions are put into effect by the relevant order of the rector. Over the past three years, new positions have been introduced at the University: Vice-Rector for Prospective Development of the University; Vice-Rector for Education Quality Assurance. New structural subdivisions were created: the OSKE Training and Passing Center, which was transformed into the Training and Production Complex of Innovative Learning Technologies, Informatization and Lifelong Education; education quality assurance department; Department of Simulation Medical Technologies; educational and scientific laboratory of pathomorphology, etc.

In order to improve education quality assurance system in 2018, the University passed the certification procedure and received a certificate of compliance to the education quality management system with the international standard ISO 9001: 2015.

The financial management policy at the University is based on the principles of efficiency, effectiveness, priority, transparency, responsibility, that confirms the positive balance (budget surplus) on the special fund at the beginning of 2021 in the amount of UAH 326,900.6 thousand. and execution of the budget for the general fund by 100%.

The increase in own payments in 2020 made it possible to:

- pay employees of the University incentive bonuses, financial assistance and bonuses in accordance with the Collective Agreement of ONMedU for 2018-2022, including the "Regulation on bonus award", "Regulation on bonuses for employees", "Regulation on the payment of material assistance to employees of ONMedU";

- to purchase the latest equipment for the departments (the purchase amount was 212874.7 thousand UAH);

- to carry out restorative work and major repairs of University buildings.

In 2021, repair and restoration were completed on the facades of the anatomical building - an architectural monument (in the amount of UAH 11.9 million). In 2020, repair and restoration started in classrooms and common areas of the Department of Internal Disease Propaedeutics (Pasteur St. 9, the building of the Therapeutic Clinic, which is an architectural monument), the work was partially completed, for 6.0 million UAH.

The completion of repair and restoration is planned by the end of 2021. In 2020, a thorough overhaul of the building of the Department of Radiation Diagnostics, Therapy and Oncology was carried out in the amount of UAH 1.3 million. Work is regularly carried out on the current repair of the premises of departments, classrooms, study rooms, and dormitories. Work was carried out in the repair of separate heating points, with heating and water supply system pipeline replacement, repair of external sewerage networks, roofs in teaching blocks and dormitories - in 2019 in the amount of UAH 1.8 million, in 2020 - in the amount of UAH 4.4 mln hryvnias.

Over the past five years at the University:

- the equipment with the necessary software equipment, which was put into operation at all University departments and structural divisions, has been completed;
- nine simulation classes have been equipped;
- most lecture halls have been equipped with modern large screens; classrooms have been equipped with wireless systems and headsets, for which audio wiring of the premises was previously carried out;
- three large lecture halls of the main teaching block have been equipped with stationary multifunctional multimedia projectors;
- Wi-Fi coverage has been expanded to provide Internet access, including the territory of the University campus and libraries;
- about 200 new computerized workplaces with connection to the internal local and global network (Internet) have been equipped.

In 2020, the University acted as the organizer of 20 scientific events at various levels. The scientific and pedagogical staff of the University carries out active clinical innovations, which is reflected in the volume of patents and other intellectual property objects (more than 600).

In order to support Budapest Open Access Initiative, to popularize scientific products of the University, to ensure scientific communications and openness to the world academic community, more than 2,000 documents (articles, reports, abstracts) have been added to the Repository.

As part of the EP 221 - "Dentistry" improvement taking into account regional trends for the life expectancy increase of the population in the Southern region and the number of elderly and senile people in Odessa, the growth of dental morbidity among children and adolescents, the growth of endocrine pathology in the list of elective disciplines, such disciplines as "Fundamentals of gerontology and geriatrics", "Peculiarities of professional oral hygiene in children", "Early orthodontic treatment", "Dental manifestations of endocrine diseases" were added to the ESC.

The University plans to modernize the organizational structure through administrative decentralization and strengthening the role of departments as structural and functional units. It is planned to improve management approaches at the University (key performance indicators, balance of powers and responsibilities of management, personnel reserve) and create a Center for psychological support of students.

### ***Analyses***

Having analyzed the submitted documents and having discussed with the participants of the focus groups, the EEC members came to the conclusion that the University, as a dynamically developing and socially responsible organization of higher medical education, should initiate procedures for regular review and revision of the content of the EP, learning outcomes, assessment and learning environment. It is necessary to carefully review the functions of structural and functional units and process maps, document and eliminate shortcomings in the accredited EP 221 - Dentistry, taking into account the fact that the University constantly allocates resources for continuous improvement.

Answers to the questions on the process of the EP 221 - "Dentistry" updating during the interviews in focus groups were received insufficiently, since the process of EP updating should be based on prospective studies, benchmarking, and analysis of modern literature on medical education.

The EEC members gave satisfactory marks for the items requiring increased attention while meeting the standards.

Activities on these points are planned by the university and put in the plan.

***Strong positions/best practice***

In general, this standard meets the IAAR quality criteria.

EEC recommendations:

9.1.4 It is recommended to carry out a phased adaptation of the EP - 221 - "Dentistry" and methodological approaches to the modern model, taking into account current trends in medical education, benchmarking, adult education methodology; deadline - until 01.09.2023.

9.1.6 The leaders of the EP 221 - "Dentistry" are recommended to develop a clear methodology and relevant tools for assessing the quality of the educational process, taking into account the final learning outcomes and teaching methods; deadline - until 01.07.2023

9.1.8 It is recommended to systematically initiate procedures for regular review and revision of the content and results of the EP 221 - Dentistry, assessment, learning environment, structure and function; document and eliminate deficiencies - at least once a year.

9.1.14 It is recommended to develop and implement your own Regulation on monitoring and evaluation of the EP, including procedures for updating the process of monitoring, control and evaluation of the EP, depending on the results of its implementation. Deadline - until 09/01/2022.

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

- strong - 0
- satisfactory - 11
- suggest improvements - 4
- unsatisfactory - 0

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

- STANDARD "MISSION AND OUTCOMES" is not found
- STANDARD "EDUCATIONAL PROGRAM" is not found
- STANDARD "ASSESSMENT OF STUDENTS " is not found
- STANDARD "STUDENTS" is not found
- STANDARD "ACADEMIC STAFF/TEACHERS" is not found
- STANDARD "EDUCATIONAL RESOURCES" is not found
- STANDARD "PROGRAM EVALUATION" is not found
- STANDARD "GOVERNANCE AND ADMINISTRATION" is not found
- STANDARD "CONTINUOUS RENEWAL" is not found

**(VIII) OVERVIEW OF RECOMMENDATIONS FOR IMPROVING QUALITY FOR EACH STANDARD**

STANDARD "MISSION AND OUTCOMES"

Inform all interested parties about the mission, quality policy and vision of the University and document stakeholder opinions/proposals regarding the mission, vision and learning outcomes – by the end of the 2021-2022 academic year and beyond, on a regular basis.

STANDARD "EDUCATIONAL PROGRAM"

- It is recommended to develop and implement the University's own Policy on the quality of the educational program, to include the analysis of methods aimed at encouraging and supporting students to study disciplines independently for the further use of teaching staff in the educational process; The deadline is September 1, 2022.

- It is recommended to determine the responsibility and coordinating role of the structural unit, to develop mechanisms for assessing individual learning environment and learning process, depending on the needs of internal stakeholders. Deadline: until 01.09.2022.

#### STANDARD "ASSESSMENT OF STUDENTS "

- Heads of the EP 221 - "Dentistry" are recommended to revise the system of students' assessment including modern methods and forms of assessment, taking into account their effectiveness, and focus on learning outcomes; term - from 01.09.2022 on a regular basis.

- the EP managers are recommended to develop and implement an internal legal act regulating the procedure and forms for receiving and providing feedback, to train teaching staff on summative and formative assessment. Deadline: until July 01, 2022.

- It is recommended to optimize the Student Assessment Policy taking into account the specifics of medical education and the internationally recognized point-rating system. Deadline: until the end of the 2022-2023 academic year.

- When revising the student assessment policy, it is recommended to determine the balance between formative and summative assessments, to provide mechanisms for assessing student progress. Deadline: until the end of the 2022-2023 academic year.

#### STANDARD "ACADEMIC STAFF/TEACHERS"

- It is recommended to organize advanced training of teaching staff on the use of modern educational learning technologies (TBL, CBL, RBL, etc.) in the educational process, with the involvement of partner universities (in full-time or distance format); deadline - until 09/01/2023.

#### STANDARD "EDUCATIONAL RESOURCES"

- The University is recommended to develop and implement its own Review Policy at the stages of planning, development, implementation and evaluation of the EP 221-Dentistry, including the review of teaching methods and evaluation of learning outcomes. Deadline: until 01.01.2022.

#### STANDARD "PROGRAM EVALUATION"

- It is recommended to develop and implement a program/regulation for EP monitoring, including collection of key indicators for the implementation of the EP, quality of teaching assessment, use of modern teaching methods and assessment of students' educational achievements (content of disciplines, teaching and learning methods, clinical rotations, assessment methods, etc.) . Deadline: 07/01/2022

- It is recommended to provide mechanisms for improving the quality based on the results of assessment of students' achievements, including the analysis of students' non-achievements during the EP monitoring program. Deadline: 07/01/2022.

- It is recommended to use the identified shortcomings and problems in the process of implementing the EP "Dentistry" as feedback tools for carrying out activities and developing corrective action plans, improving the EP and syllabuses in disciplines - until the beginning of the 2022-2023 academic year and then on an ongoing basis.

- It is recommended to collect systematically, analyze the feedback from the stakeholders of the EP 221 - "Dentistry" and provide them with the results of feedback - before the beginning of the 2022-2023 academic year and then on an ongoing basis.

#### STANDARD "GOVERNANCE AND ADMINISTRATION"



- It is recommended to specify the responsibility of the University academic management in relation to the development and management of the educational program and to update the ISO 9001:2015 certificate in order to build a modern quality system and proper process management - from 2022.

#### STANDARD "CONTINUOUS RENEWAL"

- It is recommended to carry out a phased adaptation of the EP - 221 - "Dentistry" and methodological approaches to the modern model, taking into account current trends in medical education, benchmarking, adult education methodology; deadline - until 01.09.2023.

- Leaders of the EP 221 - "Dentistry" are encouraged to develop a clear methodology and relevant tools for assessing the quality of educational process, taking into account final learning outcomes and teaching methods; deadline - until 01.07.2023.

- It is recommended to initiate systematically the procedures for regular review and revision of the content and results of the EP 221 - "Dentistry", assessment, learning environment, structure and function; to document and to eliminate deficiencies - at least once a year.

- It is recommended to develop and implement its own Regulations on monitoring and evaluation of the EP, including procedures for updating the process of monitoring, control and evaluation of the EP, depending on the results of its implementation. Deadline - until 09/01/2022.

### (IX) OVERVIEW OF THE RECOMMENDATION FOR THE DEVELOPMENT OF THE EDUCATIONAL INSTITUTION

#### STANDARD "EDUCATIONAL PROGRAM"

- It is recommended to revise the EP and to strengthen practical components in the process of preparing for the EP 221 - "Dentistry" and to provide students with early contact with dental patients, practice at clinical sites. Deadline: until 01.09.2022.

#### STANDARD "ASSESSMENT OF STUDENTS"

- It is recommended to evaluate and document the reliability and validity of assessment methods using modern software tools - from 2022-2023 and beyond, on an ongoing basis.

- Heads of study programs are recommended to introduce new assessment methods on a regular basis in accordance with modern trends in medical education - from 09/01/2022.

- The leaders of the EP are recommended to involve, on an ongoing basis, external independent experts in the process of reviewing assessment methods and control-measuring materials - from the 2022-2023 academic year and further on an ongoing basis.

- It is recommended to develop a procedure, regulations for providing timely, specific, constructive and fair feedback to students based on the assessment results: Deadline: until July 01, 2022.

#### STANDARD "EDUCATIONAL RESOURCES"

- It is recommended to expand cooperation with other educational organizations, including non-medical universities, to exchange the data on the results of educational product examination, to use modern approaches during the examination of educational materials, to stimulate participation of the teaching staff, administrative and managerial personnel during training experts and conducting a research in the field of medical education.

- It is recommended to encourage participation of the teaching staff and university employees in research in the field of expertise through the training of experts, the development of intra-university grants for the research in this area, and the involvement of the teaching staff trained in expertise within the university and beyond. It is also recommended to develop mechanisms for resource provision and support for employees involved in the implementation of the EP 221 - "Dentistry", in conducting the research in the field of medical education; term - from 2022 and beyond, on an ongoing basis.

- It is recommended to develop mechanisms for resource provision and support of the academic, administrative staff, teaching staff and students in the EP 221 - "Dentistry", in order to implement internal and external academic mobility programs (in full-time and remote formats) - until 09/01/2022.

**STANDARD "PROGRAM EVALUATION"**

- It is recommended to share the results of the EP 221 – Dentistry assessment with all interested parties; – until the beginning of the 2022-2023 academic year and then on a regular basis.

**STANDARD "GOVERNANCE AND ADMINISTRATION"**

- It is recommended to develop and implement its own Quality Management Standards Policy, including consideration of areas for continuous improvement, by the end of the 2022-2023 academic year.

- It is recommended to conduct a regular review and analysis of management in order to improve quality - from 2022, on an ongoing basis.

During the work of the EEC, interviews were conducted with all participants in the educational process and structural divisions.

Based on the results of online communication with the teaching staff, students, the administration of the University, alumni, employers, convincing data was obtained indicating the systematic nature of work to improve the quality of education, learning conditions for students, the work of the teaching staff and other structures of the university.

In terms of recommendations for the further development of the university, it is most advisable to recommend:

- further strengthening of medical education and science internationalization;
- expansion of relations with foreign partner universities, which will allow integrating the educational process into the global educational and scientific community.

**(X) RECOMMENDATION TO THE ACCREDITATION COUNCIL**

Appendix 1. Evaluation table "PARAMETERS OF SPECIALISED (PROGRAM) PROFILE"

*Conclusion of the internal commission on self-assessment*

№	№	№ criteria	Criteria of assessment	Positions of education organization			
				Strong	Satisfactory	Suggest improvements	Unsatisfactory
		<b>1. 1.1</b>	<b>MISSION AND OUTCOMES Statement of mission</b>				
1	1	1.1.1	Healthcare educational organization must determine the mission of the postgraduate educational program		+		

2	2	1.1.2	Healthcare educational organization should bring the mission of the postgraduate educational program to the attention of stakeholders and the healthcare sector.			+	
			Healthcare educational organization should determine the training program that allows to prepare a specialist at the level of postgraduate medical education:				
3	3	1.1.3	competent in any field of medicine, including all types of medical practice, management and healthcare organization			+	
4	4	1.1.4	able to work at a high professional level.			+	
5	5	1.1.5	able to work unsupervised, independently and as part of a team as required.			+	
6	6	1.1.6	with a commitment to lifelong learning, including professional responsibility in maintaining knowledge and skills through performance assessment, auditing, learning from one's own practice and recognized activities in the CPD/CME			+	
7	7	1.1.7	Healthcare educational organization must ensure that the mission covers consideration of community or society health requirements, the requirements of health care system, and other aspects of social responsibility, as appropriate.			+	
			Healthcare educational organization should be encouraged to:				
8	8	1.1.8	innovations in educational process, allowing development of broader competencies than minimum required.			+	
9	9	1.1.9	improving patient care that is essential, effective and compassionate in solving health problems and promoting health.			+	
10	10	1.1.10	organization and conduction of scientific research for postgraduate students.			+	
		<b>1.2</b>	<b>Participation in mission formulation</b>				
11	11	1.2.1	Healthcare educational organization must ensure that key stakeholders are involved in mission development.			+	
2	12	1.2.2	Healthcare educational organization should ensure that the stated mission is based on the opinions/suggestions of other relevant stakeholders.			+	
		<b>1.3</b>	<b>Institutional autonomy and academic freedom</b>				
13	13	1.3.1	Healthcare educational organization should have a training process that is based on a recognized basic medical education and			+	

			helps strengthen the professionalism of the student				
14	14	1.3.2	Healthcare educational organization must ensure that the training process promotes professional autonomy to enable the graduate to act in the best interests of a patient and society.		+		
		<b>1.4</b>	<b>Learning outcomes</b>				
			Healthcare educational organization must determine the expected learning outcomes that students must achieve as learning outcomes, regarding:				
15	15	1.4.1	their achievements at the postgraduate level in terms of knowledge, skills and thinking		+		
16	16	1.4.2	an appropriate basis for a future career in the chosen branch of medicine;		+		
17	17	1.4.3	their future roles in health sector		+		
18	18	1.4.4	commitment and skills in the implementation of continuing education		+		
19	19	1.4.5	society health requirements, the requirements of health care system and other aspects of social responsibility		+		
20	20	1.4.6	professional behavior		+		
			Healthcare educational organization must determine:				
21	21	1.4.7	general and specialty-specific (discipline) components of educational results that students need to achieve.		+		
22	22	1.4.8	appropriate behavior towards undergraduates and other students, teachers, patients and their relatives in accordance with the proper standards of behavior.		+		
23	23	1.4.9	Healthcare educational organization should determine the educational results based on the results obtained at the level of basic medical education.		+		
			<b>Total</b>		<b>22</b>	<b>1</b>	
		<b>2</b>	<b>Educational Program</b>				
		<b>2.1</b>	<b>Learning Approach</b>				
			Healthcare educational organization must:				
24	1	2.1.1	define the educational program based on the results of existing basic medical education		+		
25	2	2.1.2	Organize learning approach systematically and transparently		+		



26	3	2.1.3	Describe general and discipline/specialty-specific learning components		+		
27	4	2.1.4	use teaching and learning approaches that are suitable for both practice and theory		+		
28	5	2.1.5	identify teaching and learning approaches used that encourage, prepare and support learners to take responsibility for their own learning process			+	
29	6	2.1.6	ensure that the educational program is implemented in accordance with the principles of equality		+		
			Healthcare educational organization should:				
30	7	2.1.7	guide the learner through mentorship and regular assessment and feedback.		+		
31	8	2.1.8	increase the degree of trainees' self-responsibility improving their skills, knowledge and experience.		+		
		<b>2.2</b>	<b>Scientific approach</b>				
			Healthcare educational organization must:				
32	9	2.2.1	teach students the principles of scientific methodology appropriate to the level of postgraduate education and provide evidence that students achieve knowledge and understanding of scientific basis and methods in the chosen field of medicine;		+		
33	10	2.2.2	provide evidence that the trainee studies evidence-based medicine as a result of wide access to relevant clinical/practical experience in the chosen field of medicine		+		
			Healthcare educational organization should:				
34	11	2.2.3	include formal teachings on the critical evaluation of literature and scientific data in the EP.		+		
35	12	2.2.4	provide student with access to scientific activities.		+		
36	13	2.2.5	to correct and change the content of scientific developments in the educational program.		+		
		<b>2.3</b>	<b>Content of learning</b>				
			Healthcare educational organization should include in the learning process practice and theory about:				
		2.3.1	biomedical, clinical, behavioral and social sciences.		+		
		2.3.2	clinical decisions.		+		
		2.3.3	communication skills.		+		
37	14	2.3.4	medical ethics.		+		
38	15	2.3.5	public health.		+		
39	16	2.3.6	medical jurisprudence;		+		

40	17	2.3.7	management disciplines;				
41	18	2.3.8	organize an educational program with appropriate attention to patient safety.		+		
			Healthcare educational organization should correct and make changes in the educational program for:				
42	19	2.3.9	ensuring the development of knowledge, skills and thinking of the various roles of the graduate;		+		
43	20	2.3.10	compliance of the content of the EP with the changing conditions and society and healthcare system requirements.		+		
		<b>2.4</b>	<b>The structure of the educational program, composition and duration</b>				
			Healthcare educational organization must:				
44	21	2.4.1	describe the content, scope and sequence of courses and other elements of the educational program		+		
45	22	2.4.2	define mandatory and optional components		+		
46	23	2.4.3	combine practice and theory in the learning process;		+		
47	24	2.4.4	ensure compliance with national legislation.		+		
			Healthcare educational organization should:				
48	25	2.4.5	take into account the results of basic medical education in relation to the choice in the field of medicine;		+		
49	26	2.4.6	requirements for the performance of various roles in the healthcare system for a future graduate.		+		
		<b>2.5</b>	<b>Interaction between education and healthcare practice</b>				
			Healthcare educational organization should:				
50	27	2.5.1	describe and observe the integration between theoretical training and professional development;		+		
51	28	2.5.2	Guarantee the integration of training and vocational training, including through on-the-job training.		+		
			In the educational program healthcare educational organization should:				
52	29	2.5.3	effectively organize the use of the health system for training purposes, including practice at the workplace.			+	
53	30	2.5.4	ensure that such training is complementary and not the subject to requirements for the provision of medical services.		+		
		<b>2.6</b>	<b>Program management</b>				
			Healthcare educational organization must:				

54	31	2.6.1	define responsibilities and authorities for organizing, coordinating, managing and evaluating individual learning environment and learning process.			+	
55	32	2.6.2	include in the planning and development of the educational program appropriate representation from teaching staff, students and other relevant stakeholders.			+	
			In the educational program healthcare educational organization should:				
56	33	2.6.3	guarantee a variety of places of study.			+	
57	34	2.6.4	coordinate multiple places of study to obtain appropriate access to different aspects of the chosen field of medicine;			+	
58	35	2.6.5	have access to the resources required in the plan and implement training methods.			+	
59	36	2.6.6	have access to the resources required in plan and implement student assessment.			+	
60	37	2.6.7	have access to the resources required in plan and implement curriculum innovations.			+	
			<b>Total</b>			<b>34</b>	<b>3</b>
		<b>3</b>	<b>STANDARD«ASSESSMENT OF STUDENT»</b>				
		<b>3.1</b>	<b>Methods of assessment</b>				
			Healthcare educational organization must:				
61	1	3.1.1	present the process of assessing students in the EP			+	
62	2	3.1.2	define, approve and publish principles, methods and practices used to assess students, including the number of examinations and other tests, maintaining a balance between written and oral examinations, the use of criteria-based and reasoning-based assessment methods and special examinations (OSCE or Mini Clinical exam), as well as to determine the criteria for establishing passing scores, grades and the number of allowed retakes;			+	
63	3	3.1.3	ensure that the assessment covers knowledge, skills and attitudes towards learning;			+	
64	4	3.1.4	use a wide range of assessment methods and formats depending on their "assessment of usefulness", which includes a combination of validity, reliability, impact on learning, acceptability and effectiveness of assessment methods and format;				+

65	5	3.1.5	formulate criteria for taking exams or other types of assessment, including the number of retakes allowed;		+		
66	6	3.1.6	use assessment methods that provide formative teaching methods and constructive feedback.			+	
			Healthcare educational organization should:				
67	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;			+	
68	8	3.1.8	implement new assessment methods as required;			+	
69	9	3.1.9	use the system to appeal the results of evaluation.		+		
70	10	3.1.10	encourage the process of examination by external experts of assessment methods;			+	
71	11	3.1.11	use a system for appealing the results of evaluation;		+		
72	12	3.1.12	if necessary, organize a "different opinion", a change of teaching staff or additional training		+		
		<b>3.2</b>	<b>Relationship between assessment and learning</b>				
			Healthcare educational organization should use the principles, methods and practice of assessment, including educational achievements of students and assessment of knowledge, skills, professional values of relationships that:				
73	13	3.2.1	clearly commensurate with learning methods, teaching and learning outcomes;			+	
74	14	3.2.2	ensure that students achieve learning outcomes;		+		
75	15	3.2.3	contribute to students' learning;		+		
76	16	3.2.4	determine the adequacy of training, provide an appropriate balance between formative and summative assessment in order to guide learning and evaluate the student's academic progress, which requires establishment of rules for assessing progress and their relationship to the assessment process.			+	
			Healthcare educational organization should :				
77	17	3.2.5	use principles, methods and practices that encourage integrated learning;		+		
78	18	3.2.6	Encourage association with practice, including clinical practice;		+		



79	19	3.2.7	Ensure that timely, specific, constructive and fair feedback is provided to students based on assessment results.			+	
			<b>Total</b>		<b>11</b>	<b>8</b>	
		<b>4.</b>	<b>STANDARD «STUDENTS»</b>				
		<b>4.1</b>	<b>Policy of admission and selection</b>				
			Healthcare educational organization must:				
80	1	4.1.1	define and implement admission policy based on the mission of the organization and including a clearly defined statement of the student selection process;			+	
81	2	4.1.2	provide a balance between learning opportunities and student admission			+	
83	3	4.1.3	formulate and implement policies/rules for the selection of students according to established criteria			+	
84	4	4.1.4	have a policy and implement the practice of accepting students with disabilities in accordance with applicable laws and regulations of the country;			+	
85	5	4.1.5	have a policy and implement the practice of transferring students from other programs and medical educational organizations;			+	
86	6	4.1.6	include medical professional organizations in the policy development process and student selection process.			+	
			Healthcare educational organization should:				
87	7	4.1.7	guarantee the transparency of the selection procedure;			+	
88	8	4.1.8	ensure transparent admission to all qualified graduates of basic medical education			+	
89	9	4.1.9	define, as a part of its selection procedure, specific opportunities for potential students in order to improve learning outcomes in the chosen field of medicine.			+	
90	10	4.1.10	enable an appeal mechanism for admission decisions			+	
91	11	4.1.11	periodically review the admission policy based on relevant social and professional data to meet the health needs of the community and society.			+	
		<b>4.2</b>	<b>Number of students</b>				
92	12	4.2.1	Healthcare educational organization must define the number of admitted students in accordance with physical resource and opportunities at all stages of education and training			+	

			Healthcare educational organization should:				
93	13	4.2.2	review periodically the number and stock of accepted trainees in consultation with relevant stakeholders responsible for planning and developing human resources in the health sector,		+		
94	14	4.2.3	adapt the number of potential professionals taking into consideration available information on the public health needs of the community.		+		
95	15	4.2.4	Regulate the number of potential students, taking into account the available information on the number of qualified candidates;		+		
96	16	4.2.5	Adjust the number of potential students, taking into account available information on national and international labor markets.		+		
97	17	4.2.6	Adjust the number of potential students, taking into account the inherent unpredictability of the exact workforce needs of specialists in various fields of medicine.		+		
		<b>4.3</b>	<b>Student counseling and support</b>				
			Healthcare educational organization must:				
98	18	4.3.1	have academic counseling system for their students;		+		
99	19	4.3.2	offer their student a support program that focuses on social, financial and personal needs, which includes support for social and personal problems and events, health and financial issues, access to medical care, immunization programs and health insurance, and financial assistance services in the form of material assistance, scholarships and loans;		+		
100	20	4.3.3	allocate resources to support learners;		+		
101	21	4.3.4	ensure confidentiality regarding advice and support.		+		
102	22	4.3.5	offer career guidance and career planning.		+		
			Healthcare educational organization should provide counseling that:				
103	23	4.3.6	Is based on monitoring and controlling student progress, including the analysis of unintentional incidents		+		
104	24	4.3.7	provide support in case of a professional crisis		+		
		<b>4.4</b>	<b>Student Office</b>				
			Healthcare educational organization must determine and implement a policy for the				

			Student Office and their respective participation:				
105	25	4.4.1	in the development of the EP;		+		
106	26	4.4.2	EP management;		+		
107	27	4.4.3	assessment of the educational program;		+		
108	28	4.4.4	planning conditions for students.		+		
109	29	4.4.5	Healthcare educational organization should encourage students to participate in making decisions about processes, conditions and rules of education.		+		
			<b>Total</b>		<b>29</b>		
		<b>5.</b>	<b>STANDARD "ACADEMIC STAFF/FACULTY"</b>				
		<b>5.1</b>	<b>Personnel selection policy</b>				
			Healthcare educational organization must define and implement a teacher selection and admission policy that:				
110	1	5.1.1	takes into account the required work experience		+		
111	2	5.1.2	contains criteria in scientific, pedagogical and clinical skills of applicants, including a proper balance between pedagogical, scientific and clinical qualifications;		+		
112	3	5.1.3	defines their responsibilities;		+		
113	4	5.1.4	defines the responsibilities of training, including the balance between teaching, research and other functions		+		
114	5	5.1.5	take into account EP mission.		+		
			Healthcare educational organization should take into account criteria such as:				
115	6	5.1.6	to determine the responsibility of the academic staff in terms of its participation in postgraduate education;		+		
116	7	5.1.7	to determine the level of remuneration for participation in postgraduate education;		+		
117	8	5.1.8	to ensure that teachers have practical experience in the relevant field;		+		
118	9	5.1.9	to ensure that subject teachers, if necessary, are approved for the relevant periods of study.		+		
		<b>5.2</b>	<b>Employee responsibilities and development</b>				
			Healthcare educational organization must				
119	10	5.2.1	ensure that students and teachers have sufficient time for teaching, counseling and self-study.			+	
			The health care educational organization should:				
120	11	5.2.2	take into account the "teacher-student" ratio depending on various components of the educational program and taking into		+		

			account characteristics of the educational program;				
121	12	5.2.3	develop and implement employee support policy, including on self-learning and further professional development;		+		
122	13	5.2.4	evaluate and recognize scientific and academic achievements of teachers.		+		
			<b>Total</b>		<b>12</b>	<b>1</b>	
		<b>6.</b>	<b>EDUCATIONAL ENVIRONMENT AND RESOURCES</b>				
		<b>6.1</b>	<b>Physical resources and equipment</b>				
			Healthcare educational organization must provide students with:				
123	1	6.1.1	sufficient material and technical base to ensure adequate implementation of the educational program, space and opportunities for practical and theoretical research;		+		
124	2	6.1.2	access to up-to-date professional literature;		+		
125	3	6.1.3	adequate information and communication technologies;		+		
126	4	6.1.4	modern equipment for teaching practical methods.		+		
			Healthcare educational organization should:				
127	5	6.1.5	improve learning environment by regularly updating, expanding and strengthening the material and technical base and equipment to maintain an appropriate quality of education at the postgraduate level.		+		
		<b>6.2</b>	<b>Educational environment</b>				
			Healthcare educational organization must provide necessary resources for students to acquire adequate practical experience, including the following:				
128	6	6.2.1	selection and approval of educational environment;		+		
129	7	6.2.2	access to sufficient clinical/practical facilities/bases to provide training;		+		
130	8	6.2.3	sufficient number of patients where needed;		+		
131	9	6.2.4	relevant diverse clinical cases to achieve the goals and objectives of training;		+		
132	10	6.2.5	organization of training in such a way as to provide the trainee with a broad experience in the chosen field of medicine.		+		
			Choosing the place of training Healthcare educational organization should:				
133	11	6.2.6	guarantee the number of patients and corresponding variety of clinical cases for clinical experience in all aspects of the		+		



			chosen specialty, including training in organization and management of health care and disease prevention				
134	12	6.2.7	training at the university clinic, as well as training in other relevant clinics/institutions and community facilities/locations, if necessary.		+		
		<b>6.3</b>	<b>Information technology</b>				
135	13	6.3.1	Healthcare educational organization must define and implement the policy that is aimed at the effective use and evaluation of appropriate information and communication technologies in the educational program.		+		
			Healthcare educational organization should provide teachers and students with opportunities and encourage them to use information and communication technologies:				
136	14	6.3.2	For self-learning		+		
137	15	6.3.3	access to health information resources and related patient data;		+		
138	16	6.3.4	patient management;		+		
139	17	6.3.5	work in the healthcare system to provide medical care.		+		
		<b>6.4</b>	<b>Medical and academic research</b>				
			Healthcare educational organization must:				
140	18	6.4.1	introduce methodology of scientific medical research into the educational program.		+		
			Healthcare educational organization should:				
141	19	6.4.2	encourage students to participate in medical scientific research devoted to the study of the conditions and quality of public health and the health care system;		+		
142	20	6.4.3	provide access to research facilities and activities in training.		+		
		<b>6.5</b>	<b>Educational expertise</b>				
			Healthcare educational organization must:				
143	21	6.5.1	develop and implement policy on the use of expertise at the stage of planning, implementation and evaluation of training for a specific educational program			+	
			Healthcare educational organization should:				
144	22	6.5.2	have access to educational expertise and conduct expertise that examines the processes, practices, and issues of medical education, and may involve physicians with experience in medical education			+	

			research, educational psychologists and sociologists, or the involvement of experts from other national and international institutions.				
145	23	6.5.3	to promote the desire and interests of employees in conducting research in medical education.			+	
		<b>6.6</b>	<b>Exchange in education</b>				
			Healthcare educational organization must define and implement a policy for:				
146	24	6.6.1	availability of individual learning opportunities in other educational institutions of the appropriate level within or outside the country;			+	
147	25	6.6.2	transfer and setoff of educational credits and learning outcomes.			+	
			Healthcare educational organization should:				
148	26	6.6.3	promote regional and international exchange of staff (academic, administrative and teaching staff) and students, providing appropriate resources;				+
149	27	6.6.4	establish links with relevant national and international bodies in order to exchange and mutually recognize elements of learning.			+	
			<b>Total</b>			<b>22</b>	<b>5</b>
		<b>7.</b>	<b>PROGRAM EVALUATION</b>				
		<b>7.1</b>	<b>Mechanisms for monitoring, control and evaluation of the program</b>				
			<b>Healthcare educational organization should</b>				
150	1	7.1.1	have a program for monitoring the processes and outcomes, including the collection and analysis of data on key aspects of the educational program in order to ensure that the educational process is carried out appropriately and to identify any areas requiring intervention, as well as data collection is part of administrative procedures in connection with admission and evaluation of students and completion of training.				+
151	2	7.1.2	collect and analyze feedback on the quality of the educational program from teachers;			+	
152	3	7.1.3	collect and analyze feedback on the quality of the educational program from students;			+	
			Healthcare educational organization must establish and apply mechanisms for evaluating the educational program that:				

153	4	7.1.4	are aimed at the educational program and its main components, including the model of the educational program, the structure, content and duration of the educational program, and the use of compulsory and elective parts;		+		
154	5	7.1.5	Are aimed at students' progress;		+		
155	6	7.1.6	identify and address issues that include insufficient achievement of expected learning outcomes;			+	
156	7	7.1.7	will assume that the information received on the final results of training, including identified shortcomings and problems, will be used as feedback for carrying out activities and corrective action plans, to improve the educational program and curricula of disciplines;			+	
157	8	7.1.8	involve key stakeholders in the evaluation of the processes and outcomes of the training program.			+	
			Healthcare educational organization should periodically conduct a comprehensive assessment of the educational program aimed at:				
158	9	7.1.9	the organizational and financial context of the educational process, which includes organization and resources, learning environment and culture of Healthcare educational organization ;		+		
159	10	7.1.10	learning outcomes, which will be measured by the results of national examinations, international examinations, career choice and further learning outcomes;		+		
160	11	7.1.11	making evaluation process and results transparent to all stakeholders.			+	
		<b>7.2</b>	<b>Educational achievements of students</b>				
			Healthcare educational organization should analyze educational achievements of students, regarding:				
161	12	7.2.1	the mission of postgraduate education and the final learning outcomes of the educational program, which includes information on the average duration of study, academic performance scores, the frequency of passing and failing exams, cases of successful completion and expulsion, reports of students on the conditions of study in the courses taken, on the time spent studying areas of interest, including elective components;		+		
162	13	7.2.2	The educational program		+		

			Healthcare educational organization should analyze the educational achievements of students regarding:				
163	14	7.2.3	postgraduate missions;		+		
164	15	7.2.4	level of training/qualification at the time of admission to Healthcare educational organization		+		
			Healthcare educational organization should use the analysis of students' educational achievements to provide feedback to structural units responsible for:				
165	16	7.2.5	selection of students;		+		
166	17	7.2.6	educational program planning;		+		
167	18	7.2.7	student counseling.		+		
		<b>7.3</b>	<b>Approval and control of the educational environment</b>				
			Healthcare educational organization must provide evidence that the entire educational program is approved by the competent authority on the basis of:				
168	19	7.3.1	clearly defined criteria;		+		
169	20	7.3.2	program evaluations;		+		
170	21	7.3.3.	the ability of the authorities to grant or withdraw recognition of the educational environment or theoretical courses (licensing, accreditation, etc.).		+		
			Healthcare educational organization should:				
171	22	7.3.4	develop and implement a system for monitoring educational environment and other educational facilities, including site visits and other relevant means and resources.		+		
			<b>Total</b>		<b>18</b>	<b>4</b>	
		<b>8.</b>	<b>GOVERNANCE AND ADMINISTRATION</b>				
		<b>8.1</b>	<b>GOVERNANCE</b>				
			Healthcare educational organization must ensure that the educational program is implemented in accordance with the rules regarding:				
172	1	8.1.1	admission of students;		+		
173	2	8.1.2	structure and content		+		
174	3	8.1.3	process		+		
175	4	8.1.4	assessment		+		
176	5	8.1.5	Planned results		+		
177	6	8.1.6	Healthcare educational organization must document the completion of training by issuing degrees, diplomas, certificates or other official qualifications provided as the		+		



			basis for official recognition of a specialist in the chosen field of medicine.				
			Healthcare educational organization must guarantee a constant assessment of:				
178	7	8.1.7	educational programs for various types of postgraduate medical education.		+		
179	8	8.1.8	institutes / faculties / departments and other educational structures in learning process.		+		
180	9	8.1.9	teachers.		+		
181	10	8.1.10	Healthcare educational organization should be responsible for quality development programs.			+	
			Healthcare educational organization should guarantee:				
182	11	8.1.11	application of procedures for testing final results and competencies of graduates for the use by both national and international bodies		+		
183	12	8.1.12	transparent work of management structures and their decisions.		+		
		<b>8.2</b>	<b>Academic leadership</b>				
184	13	8.2.1	Healthcare educational organization must clearly define the responsibility of academic authorities in relation to the development and management of the educational program.		+		
			Healthcare educational organization should periodically evaluate the academic authorities regarding the achievement of:				
185	14	8.2.2	missions of the postgraduate educational program		+		
186	15	8.2.3	final learning outcomes for this educational program.		+		
		<b>8.3</b>	<b>Educational budget and resource allocation</b>				
			Healthcare educational organization must:				
187	16	8.3.1	determine the responsibility and powers for managing budget of the educational program;		+		
			Healthcare educational organization should manage the budget in such a way as to comply with:				
188	17	8.3.2	mission and results of the educational program;		+		
189	18	8.3.3	ensuring functional responsibilities of the academic staff and students.		+		
		<b>8.4</b>	<b>Administrative staff and management</b>				
			Healthcare educational organization must have an appropriate administrative staff,				

			including their number and composition in accordance with qualifications, in order to:				
190	19	8.4.1	ensure the implementation of the educational program and related activities;		+		
191	20	8.4.2	ensure proper management and allocation of resources.		+		
			Healthcare educational organization should:				
192	21	8.4.3	develop and implement an internal management quality assurance program that includes consideration of needs for improvement;			+	
193	22	8.4.4	conduct regular review and analysis of management in order to improve quality.			+	
		<b>8.5</b>	<b>Requirements and regulations</b>				
194	23	8.5.1	Healthcare educational organization must comply with national legislation regarding the number and types of recognized medical specialties for which approved curricula are being developed.		+		
195	24	8.5.2	Healthcare educational organization should define approved postgraduate medical education programs in collaboration with all stakeholders.		+		
			<b>Total</b>		<b>21</b>	<b>3</b>	
		<b>9.</b>	<b>CONTINUOUS RENEWAL</b>				
			Healthcare educational organization, as a dynamic and socially responsible institution, should:				
196	1	9.1.1	initiate procedures for regular review and updating of the structure, functions and quality of the postgraduate medical education program system;		+		
197	2	9.1.2	document and correct deficiencies.		+		
198	3	9.1.3	allocate resources for continuous improvement		+		
			Healthcare educational organization should:				
199	4	9.1.4	base the update process on prospective studies, analyses and results of their own research, evaluation and literature on medical education;			+	
200	5	9.1.5	ensure that the process of renewal and restructuring leads to a revision of postgraduate policy and practice in line with past experience, current activities and future prospects.		+		
201	6	9.1.6	direct the renewal process towards adapting the mission statement and final			+	

			results to the scientific, socio-economic and cultural development of society.				
202	7	9.1.7	direct the renewal process towards modifying graduate learning outcomes in correspondence with documented environmental and labor market needs, including clinical skills, public health training, and participation in patient care, corresponding to the responsibilities that graduates have after graduation from the Healthcare educational organization.		+		
203	8	9.1.8	direct the renewal process towards adapting teaching approaches and teaching methods to ensure their relevance;			+	
204	9	9.1.9	direct the renewal process to adjust the structure, content and duration of the educational program and their relationship in accordance with advances in biomedical, behavioral, social and clinical sciences, with changes in the demographic situation and the health status/morbidity structure of population and socio-economic and cultural conditions, and process adjustments will ensure that new relevant knowledge, concepts and methods are included, and obsolete ones are excluded.		+		
205	10	9.1.10	direct the renewal process towards the developing principles and methods of assessment, and methods of conducting and number of examinations in accordance with changes in the learning outcomes and methods of teaching and learning.		+		
206	11	9.1.11	guide the renewal process towards adapting student admission policies and student selection methods to reflect changing expectations and circumstances, staffing needs, changes in the graduate education system and curriculum needs.		+		
207	12	9.1.12	direct the renewal process towards adapting the admission policy and the formation of the academic staff in accordance with changing needs.		+		
208	13	9.1.13	direct the renewal process to update educational resources in accordance with changing needs, such as student enrollment, the number and profile of academic staff, the educational program and modern teaching methods.		+		
209	14	9.1.14	direct the renewal process to improve the process of monitoring, control and evaluation of the educational program.			+	

210	15	9.1.15	direct the renewal process towards improving the organizational structure and management principles to ensure effective operation in the face of changing circumstances and the needs of postgraduate education, and, in the long term, to meet the interests of various stakeholder groups.		+		
			<b>Total</b>		<b>11</b>	<b>4</b>	
			<b>GRAND TOTAL</b>	<b>0</b>	<b>181</b>	<b>29</b>	<b>0</b>

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

