



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# REPORT

on the results of the work of the external expert commission  
according to the educational program  
7M10117 "Medical and preventive care" (profile direction)  
for compliance with the requirements of standards  
primary specialized accreditation  
NJSC "Kazakh National Medical University  
named after. S. D. Asfendiyarov  
April 19–April 21, 2022

**INDEPENDENT AGENCY FOR ACCREDITATION AND RATING  
EXTERNAL EXPERT COMMISSION**

*Addressed to  
Accreditation  
Council of the IAAR*



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТИҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

**REPORT**  
**on the results of the work of the external expert commission**  
**according to the educational program**  
**7M10117 "Medical and preventive care" (profile direction)**  
**for compliance with the requirements of standards**  
**primary specialized accreditation**  
**NJSC "Kazakh National Medical University named after. S. D. Asfendiyarov**  
**April 19–April 21, 2022**

**Almaty**

**April 21, 2022**

## (I) LIST OF SYMBOLS AND ABBREVIATIONS

NJSC «KazNMU» – Non-profit joint stock company "Kazakh National Medical University named after S.D. Asfendiyarov"

BD – basic discipline

IHE – institution of higher education

SAC – state attestation commission

SOSE – state obligatory standard of education

ISP – individual study plan

OC – optional component

KTO PK – Ministry - credit technology of education

Ministry of Health of the Republic of Kazakhstan

CED – catalog of elective disciplines

MEaSRK – Ministry of Education and Science of the Republic of Kazakhstan

SRW – student research work

RO – registrar's office

EP – educational program

MD – major disciplines

R – regulations

F – faculty

QMS – Quality Management System

SRW – student research work

EMCD – educational and methodological complex of the discipline

EPC – educational program committee



## (II) INTRODUCTION

In accordance with the order of the Independent Agency for Accreditation and Rating (hereinafter - IAAR) No. 29-22-OD dated February 7, 2022. in NJSC "Kazakh National Medical University named after S.D. Asfendiyarov" (hereinafter - KazNMU), an external expert commission assessed the compliance of educational activities with IAAR accreditation standards (Standards for primary specialized accreditation of the educational program of the master's program based on WFME / AMSE (medical and pharmaceutical education, approved order No. 68-18/1-OD of May 25, 2018) of the educational program of the master's program in the specialty 7M10117 "Medical and preventive care".

The report of the external expert commission contains an assessment of the compliance of activities within the framework of specialized accreditation with the IAAR criteria, recommendations of the EEC for further improvement of the parameters of the specialized profile of the educational program in the specialty 7M10117 "Medical and preventive care" (profile direction).

### **Composition of EEC:**

**IAAR Expert, Chairman** – Redko Dmitry Dmitrievich, Candidate of Medical Sciences, Associate Professor, Gomel State Medical University (Republic of Belarus, Gomel) online;

**IAAR expert** - Zhumalina Akmaral Kanashevna, Doctor of Medical Sciences, Professor of NJSC "West Kazakhstan Medical University" (Aktobe, Republic of Kazakhstan);

**IAAR expert** - Babeva Aygun Jeyhunovna, Azerbaijan Medical University (Baku, Republic of Azerbaijan) online;

**Expert IAAR** - Kashkinbaev Yerlan Tursynbaevich, PhD, NJSC "Astana Medical University" (Nur-Sultan, Republic of Kazakhstan);

**Expert IAAR, employer** - Raisova Salima Kalievna, Medical Center "Clinic of Dr. Raisova" (Almaty, Republic of Kazakhstan);

**IAAR expert, student** - Seitbayeva Makpal Amirzhanovna, 2nd year undergraduate, NJSC "Medical University of Karaganda" (Karaganda, Republic of Kazakhstan) online;

**IAAR coordinator** – Dzhakenova Alisa Satbekovna, PhD, Head of Medical Projects of the Agency (Nur-Sultan, Republic of Kazakhstan).

### (III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION

Over 90 years of its rich history, the Kazakh National Medical University named after Sanzhar Asfendiyarov - the main forge of Kazakhstani healthcare personnel - has trained almost 100 thousand doctors of various specialties, high-level professionals who have made a significant contribution to preserving the life and health of people. Every third doctor in the country today is a graduate of KazNMU and within its walls he received the foundations of his medical knowledge, kindness and mercy.

The Kazakh National Medical University is a milestone in the history of education, medicine and the country as a whole.

KazNMU them. S.D. Asfendiyarov is not just a leading medical university, but also a scientific center that unites the leading research institutes and scientific centers of Kazakhstan. For many years, KazNMU has been a leader in the rankings of Kazakhstani universities and educational programs. The University and educational programs of all levels and specialties are accredited by the National Agencies included in the National Register of Accreditation Bodies.

The university has 13 academic buildings with a total area of 64,601.2 m, a sports hall, 7 dormitories for 2,860 people with a total area of 25,559.2 m<sup>2</sup> (until 2018). In 2018, a new hostel for 512 people was opened at the expense of the University. Educational activities in NJSC "KazNMU" are carried out in accordance with the Constitution of the Republic of Kazakhstan, with the Law of the Republic of Kazakhstan dated July 27, 2007 No. 319 "On Education", "On Approval of the State Program for the Development of Healthcare of the Republic of Kazakhstan for 2020-2025", "The State Program for the Development of Education of the Republic of Kazakhstan for 2011-2020" and "On Approval of the State Health Development Program of the Republic of Kazakhstan for 2020-2025", by-laws of the Ministry of Education and Science of the Republic of Kazakhstan and the Ministry of Health of the Republic of Kazakhstan, as well as in accordance with ISO 9001:2015.

Educational activities in KazNMU are carried out in accordance with the Constitution of the Republic of Kazakhstan, with the Law of the Republic of Kazakhstan dated July 27, 2007 No. 319 "On Education", the State Program for the Development of Education of the Republic of Kazakhstan for 2011-2020 and the National Project "Quality and affordable healthcare for every citizen Healthy nation" (Decree of the Government of the Republic of Kazakhstan dated October 12, 2021 No. 725). Since 2006, KazNMU has begun training bachelors, masters, PhD doctors based on the principles of the trinity (education, science, practice). As a signatory of the Great Charter of Universities, in 2011, in accordance with the principles of the Bologna process, he made the transition to a credit technology for undergraduate education, supported by the Ministry of Health of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan.

By combining a number of leading research institutes and scientific centers in the main areas of medicine on the basis of NJSC "KazNMU", conditions are created for the real integration of medical education, science and practice in the interests of people's health. The development of NJSC "KazNMU" is facilitated by the accelerated transfer of educational and scientific technologies within the framework of the "Partnership of Universities" model.

Decree of the Government of the Republic of Kazakhstan dated June 27, 2019 No. 453 approved the "Program for the Development of the Non-Profit Joint-Stock Company "Kazakh National Medical University named after S.D. Asfendiyarov" for 2019 - 2023".

Currently, about 10 thousand students, interns, residents, undergraduates and PhD-doctoral students study at KazNMU, including over 1200 foreign students from 19 countries of near and far abroad.

Graduates of KazNMU work in 17 countries of the world. The university has 6 schools and 2 faculties and 1 department.

KazNMU named after S.D. Asfendiyarov, well-known scientists and teachers of Kazakhstan, academicians of the National Academy of Sciences of the Republic of Kazakhstan,

the Russian Academy of Medical Sciences, the Academy of Preventive Medicine of the Republic of Kazakhstan, International Academies, honored workers of science and education, honored doctors and pharmacists work.

Since 2006, KazNMU has begun training bachelors, masters, PhD doctors based on the principles of the trinity (education, science, practice). As a signatory of the Great Charter of Universities, in 2011, in accordance with the principles of the Bologna process, he made the transition to a credit technology for undergraduate education, supported by the Ministry of Health of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan.

The School of Public Health named after Kh. Dosmukhamedov carries out educational activities in the specialty "Health". The faculty was founded in 1943. on the basis of the Almaty Medical Institute as a sanitary-hygienic faculty by order of the USSR NKZ No. 234 dated May 14, 1943. From 1964 to 1985 was a member of the Karaganda Medical Institute. Since 1985, it has again become part of the Almaty Medical University. In 2004, by the decision of the Academic Council of the faculty (minutes No. 2 dated 10/12/2004), on the basis of renaming the specialty "hygiene and epidemiology" to "medical and preventive work", the faculty was renamed into the medical and preventive faculty. Since September 2013, it has been transformed into the Faculty of Public Health.

The faculty of SHOZ is represented by: 1 academician, 7 doctors of science, 25 candidates of science, 10 PhD doctors, 15 masters, 3 holders of the international scholarship of the President of the Republic of Kazakhstan "Bolashak". The grade level of the SHOZ teaching staff is 45%, 14% of the teaching staff has a non-zero h-index.

Teachers have a long work experience (10 or more years) in the specialty of the magistracy, including teaching experience (10 or more), and are highly qualified

Over the past year, 5 scientific/research programs and projects have been carried out by the departments of SPH, 19 articles have been published, indexed in the Web of Science, Scopus database.

In order to train highly specialized public health specialists and exchange international experience and information, visiting professors were invited: Azizi Bin Ayob - Malaysia, Vishna Devi V Nadarajah - Malaysia, Jack Alan DeHovitz - USA New York, Knyazev Evgeny Gennadievich - Russian Federation, Vidmantas Vaculius - Lithuania, Dzhusupov K.O. - Kyrgyzstan, Prof. Recai Yucel - USA, as well as within the framework of the academic mobility program, carried out academic mobility of teaching staff to the Tashkent Medical Academy, Kazakh-Russian Medical University in Almaty, Omaha, USA, International Higher School of Medicine in Bishkek, Italy, University of Milan.

#### Information about EP 7M10117 "Medical and preventive work" (profile direction)

Qualification level according to the national qualifications framework	7 degree
Supervising structure	Department of Master's and Doctoral Studies
The contact person	Head of the Department of Master's and Doctoral Studies
Basis for development	The EP was developed in accordance with the Order of the acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state mandatory standards and standard professional training programs for medical and pharmaceutical specialties"; Order of the Minister of Education and Science dated October 31, 2018 No. 604 "On approval of state compulsory standards of education at all levels of education".
The needs of practical healthcare	Branch of the "Scientific and Practical Center for Sanitary and Epidemiological Expertise and Monitoring" of the RSE on the REM of the "National Center for Public Health" of the Ministry of Health of the Republic of Kazakhstan, the Committee for Quality Control and Safety of Goods and Services in Transport, the RSE on the REM "National Center of Expertise", LLP NGO "Kazakh Academy of Nutrition". Committee for Quality Control and Safety of Goods and Services (Sanitary and Epidemiological Service - civil service)

Existing educational programs in Kazakhstan	The application to the license for educational activities under the M145 program - "Medical and preventive work" in the Republic of Kazakhstan is available in 9 universities: the MUA, KSMU, WKSMU, Semey State Medical University, MKTU, KRMU, SKMA, KazMUNO, KazNU named after Al-Farabi.
Previous Education	Higher professional education in the specialty Higher professional education in the specialty 5B110200 - "Public Health", 5B130100 - "General Medicine", 5B110400 - "Medical and Preventive Business", 040100 - "General Medicine", 040200 - "Pediatrics", 040600 - "Eastern medicine", 040800 - "Medical and biological business"
The graduate is awarded an academic degree / qualification is awarded	Master of Science in the educational program M145 - "Medical and preventive business" (Hygiene)
Mission of the educational program	Training of highly professional, competitive scientific, pedagogical, administrative and managerial personnel under the educational program M145 "Medical and Preventive Business" (hygiene) for science and healthcare organizations with fundamental knowledge that guarantees them professional mobility in the real developing world.
Aim	Training of qualified specialists who are ready to carry out professional activities in the field of healthcare, allowing them to successfully develop and apply technologies, means, methods and methods aimed at ensuring the sanitary and epidemiological well-being of the population, maintaining and improving its health, as well as implementing sanitary supervision.

Currently, in the specialty 7M10117 "Medical and preventive care" (profile direction) 2 undergraduates of the 1st year of study.

The term of study for EP 7M10117 "Medical and preventive work" (profile direction) is 1 year, 60 ECTS credits, the total number of students in EP for the 2022–2022 academic year is 2 people.

#### **(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE**

This educational program has not been accredited by the IAAR.

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

The work of the EEC was carried out on the basis of the Program of the visit of the expert commission for specialized accreditation of educational programs to NJSC "KazNMU" in the period from April 19 to April 21, 2022.

In order to coordinate the work of the EEC on 19.04.2022. an introductory meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was specified, an agreement was reached on the choice of examination methods.

In order to obtain objective information on evaluating the activities of the university, the members of the EEC used such methods as visual inspection, observation, interviewing employees of various structural units, teachers, students, graduates and employers, questioning the teaching staff, students.

Meetings of the EEC with the target groups were held in accordance with the revised program of the visit, in compliance with the established time period. On the part of the University staff, the presence of all persons indicated in the visit program was ensured.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings were held with vice-rectors of the university in areas of activity, heads of structural divisions, deans of faculties, heads of divisions, heads of departments, teachers, students, employers. In total, 38 representatives of the university took part in the meetings (Table 1).

**Table 1 - Information about employees and students who took part in meetings with the EEC IAAR**

<b>Participant category</b>	<b>Number</b>
Rector	2
Vice-Rector	2

Heads of accredited EPs	4
Heads of structural divisions	16
Teachers	11
Employers	2
Students	2
<b>Total</b>	<b>38</b>

In the course of the work of the EEC, a visual inspection of the university infrastructure was carried out: a museum, a library, a registrar office, a simulation center, an anatomical museum, departments, auditoriums, practice bases.

At the meetings of the EEC IAAR with the leaders and teaching staff of the university, the mechanisms for implementing the policy of the university were clarified and certain data presented in the self-assessment report of the university were specified.

During the visit, the members of the EEC got acquainted with the state of the material and technical base, with the educational and methodological documentation of the departments in the accredited specialty, studied the regulatory and educational and methodological documents in educational disciplines, including the educational program, standard curriculum, educational and methodological complexes and other materials provided by the university.

The university ensured the presence of EEC members in practical classes. A lesson was attended by undergraduates of the specialty "Hygiene" (1 year of study) in the discipline "Hygiene of children and adolescents", teacher Tekmanova A.K., conducted remotely. The online lesson was attended by 8 undergraduates of the first year of study in the specialty "Hygiene". The theme of the classes coincides with the approved syllabus for the discipline. Also, a lesson was attended on the discipline "Essential epidemiology", teacher Tolegenova A.S., the topic of the lesson "Principles and methods of epidemiology" "Sampling methods". The lesson was attended by 6 undergraduates of the 1st year of study.

In accordance with the accreditation procedure, an online survey of teachers and students was conducted. According to the results of a survey of students on the question "Are you satisfied with the support of educational materials in the learning process", 84.8% of the students rated excellent, 12.1% good, 3% satisfied. To the question "are they satisfied with the quality of teaching", 86.4% of respondents rated excellent, 12.1% good and 1.5% not satisfied, none of the students noted it is difficult to answer.

According to the results of a survey of teachers, it was found that 85% of respondents are satisfied with the attitude of the university management towards the teaching staff, 15% are partially satisfied. To the question "How do you assess the degree of academic freedom of teaching staff?", 60% answered well, 38.3% very well and 1.7% relatively bad.

In order to confirm the information presented in the Self-Assessment Report, the working documentation of the university was requested and analyzed by external experts. Along with this, the experts studied the Internet positioning of the university through the official website of the university <http://kaznmk.kz/>.

As part of the planned program, recommendations for improving the accredited educational programs of KazNMU, developed by the EEC based on the results of the examination, were presented at a meeting with the management on April 21, 2022.

## **(VI) COMPLIANCE WITH STANDARDS OF PRIMARY SPECIALIZED ACCREDITATION OF EDUCATIONAL PROGRAMS**

### Standard 1 Mission and outcomes

#### **Evidence**

Evaluation of the quality of educational programs for compliance with the criteria of the IAAR Standard based on the analysis of the report on the self-assessment of the educational program of the master's program 7M10117 "Medical and preventive care" (profile direction)",



the materials presented by the university and the results of meetings with specialists from specialized departments, departments and target groups indicate that the Mission of the EP is determined by the State Program for the Development of Education of the Republic of Kazakhstan, the National Project of the Republic of Kazakhstan "Quality and affordable healthcare for every citizen" Healthy Nation "and the strategic development plan of KazNMU, relevant state educational standards, mission, vision and principles of the university. The EP complies with the regulatory requirements adopted at the national level, agreed with the National Qualifications Framework, the European Qualifications Framework based on the Dublin descriptors, the Decree of the Government of the Republic of Kazakhstan dated May 13, 2016 No. 292 "On amendments and additions to the Decree of the Government of the Republic of Kazakhstan dated August 23, 2012 of the year No. 1080 "On approval of state compulsory education standards for the relevant levels of education" (<https://kaznmu.kz/rus/strategicheskij-plan-kaznmu-na-2017-2021-gody/>, <https://kaznmu.kz/rus/ob-universitete/missiya-i-vision/>).

The mission of the university and EP in the specialty 7M10117 "Medical and preventive Care" (profile direction) "reflect the educational strategy in accordance with the State Program for the Development of Healthcare of the Republic of Kazakhstan for 2020-2025, the Message of the First President of the Republic of Kazakhstan N.A. Nazarbayev to the people of Kazakhstan, the Program "Digital Kazakhstan", "Kazakhstan in a new global reality: growth, reforms, development" - "100 concrete steps "Modern state for all", Five institutional reforms, Roadmap for the development of trilingual education, National program "Mangilik el", Decree of the President of the Republic of Kazakhstan dated February 15, 2018 No. 636 "On approval of the Strategic Development Plan of the Republic of Kazakhstan until 2025", "Kazakhstan's path 2050: common goal, common interests, common future", Strategic Plan of the Ministry of Education and Science of the Republic of Kazakhstan for 2014-2023.

The mission of the educational program in the specialty 7M10117 "Medical and preventive care" (profile direction) is formulated in accordance with the requirements of state education standards, the needs of the state and the market, the university's strategy, the requests of employers and the wishes of students, based on the study of problematic issues of theoretical and practical medicine. The EP passport specifies the requirements of the final learning outcomes.

The mission of the educational program is to train highly professional, competitive scientific, pedagogical, administrative and managerial personnel under the educational program M145 "Medical and Preventive Care" for science and healthcare organizations with fundamental knowledge that guarantees them professional mobility in the real developing world <https://kaznmu.kz/rus/magistratura-op-kaznmu/>.

The model of educational programs is built on a modular-load basis, competencies at the master's level and the final learning outcomes for each competency have been developed and presented.

To ensure the quality of the study program and the implementation of the mission of the university, the interests of all interested parties were taken into account, the expectations and needs of external subjects were taken into account, including: the state as a social customer of educational services, employers, students, applicants as potential participants in the educational process.

Academic freedom in the formation and implementation of master's educational programs is achieved through an elective component, the disciplines of which are offered by departments in the catalog of elective disciplines. The departments independently determine the forms of conducting classes, use a variety of teaching methods, apply methodological materials, offer forms of monitoring and evaluating the educational achievements of undergraduates. The departments independently determine the needs for providing the educational process with the necessary resources and draw up applications for the purchase of office equipment, laboratory equipment, consumables, educational literature and other information resources (<https://kaznmu.kz/rus/obrazovanie-2/normativnye-dokumenty-2/>).

In order to establish satisfaction with learning, there is feedback through a survey of

teaching staff through the eyes of students. The results of the survey are reported twice a year at a meeting of the Academic Committee.

Thus, the implementation of the educational program of the master's program in the specialty 7M10117 "Medical and preventive care" (profile direction) is aimed at preparing qualified specialists for science and practice, which corresponds to the mission and vision of the university and maintains the quality of education.

#### ***Analytical part***

The mission of NJSC "KazNMU" reflects the development and improvement of the national system of higher and postgraduate education and was developed in accordance with the general strategy of the state, presented in the program documents of the Republic of Kazakhstan, it reflects its nature, features, established development priorities, as well as the place and role of the university in the educational, scientific, socio-economic and cultural development of the region and the country as a whole. In accordance with the mission of the university, KazNMU provides training for educational programs of postgraduate education, including master's programs.

The mission of the educational program of the master's program in the specialty 7M10117 "Medical and preventive care" (profile direction) is to form knowledge in the areas of sanitary and hygienic supervision, master the skills in the above areas and increase the epidemiological potential of national public health personnel, the formation of competencies and the personality of new generation specialists, creative and innovative thinking, implementing knowledge and skills, and competitive in the global community.

The mission of the university and the EP is presented on the website <https://kaznmku.kz/rus/ob-universitete/missiya-i-videnie/>, <https://kaznmku.edu.kz/rus/obrazovatelnye-programmy/magistratura/mediko-profilakticheskoe-delo-profil/>.

The university's mission is undergoing a phased approval process. At the first stage, the graduating department formulates a mission based on the achievements of modern science and education, the requests of those wishing to study under the program, as well as the expectations of employers. Further, the formulated mission is submitted for discussion to the departments involved in the process of training future specialists. After making the final adjustments, the mission is submitted for approval by the meeting of the School Council. Further, it is approved by the Committee for Educational Programs, the Committee for Quality Assurance, the Committee for Academic Activities under the University Senate and is approved by the University Seat.

EEC members note that at meetings with focus groups of students and teaching staff on EP in the specialty 7M10117 "Medical and preventive care" (profile direction), students confirmed the mission of the university and the OP through the official website of the university, in general, in their own words they could formulate the mission of the OP. Focus groups of employers and alumni at meetings with members of the EEC answered that they knew about the existence of the mission of the University and the OP, that they were posted on the site, but they themselves did not take part in its formation.

During meetings with focus groups of employers, a high demand for graduates and the quality of their training were noted. Also according to employers.

#### ***Strengths/best practice***

According to standard 1 "Mission and learning outcomes", the external expert commission did not note the strengths.

#### ***WEC recommendations***

##### ***Not according to this standard.***

Conclusions of the EEC according to the criteria:

strong positions - 0, satisfactory - 14, imply improvement - 0, unsatisfactory - 0.

Standard 2 "Research environment and educational resources"

**Evidence**

The success of the master's program in the specialty 7M10117 Medical and preventive care (profile direction) is ensured by the organization of a strong and effective research environment.

The highly qualified teaching staff is represented by doctors of sciences - 5 people, candidates of medical sciences - 24 people, PhD doctors - 12 people, masters - 40 people, who have extensive research experience. The degree of teaching staff is 65%.

Highly qualified teachers of KazNMU, staff of the CDC office in Central Asia, FETP mentors, who are represented by doctors of sciences, candidates of sciences, PhDs with extensive professional and pedagogical experience, who have completed internships abroad, who have publications in peer-reviewed journals with a citation index in the Web of Science, Scopus, who speak Russian, Kazakh, English, whose Hirsch index is 2 and above, conduct classes with undergraduates.

Articles of employees, heads of undergraduates and jointly with undergraduates published in foreign peer-reviewed journals with an impact factor of only about 20 over the past year, in journals of KKSON MES RK - 166, as well as articles published in other journals and collections of materials of scientific events - 16, theses, published in foreign and domestic editions together with undergraduates - 50.

Under the Erasmus Plus program and the US Consulate from 2016-2020. and financed 4 programs for 2020-2023. the scientific program Harmonization and mutual Recognition of Master programs in Occupational and Environmental health / HARMONEE, (2020 - 2023), 90,000 € is funded.

In order to modernize the management of the educational process and improve the quality of education, since 2010 the Committees of educational programs have been established to coordinate the development, implementation and quality assessment of educational programs, ensure the development, implementation and monitoring of innovative methods for assessing the final achievements of students.

The bases of research practice are healthcare organizations, research institutes, the Scientific and Practical Center for Sanitary and Epidemiological Expertise and Monitoring, the city Center for the Prevention and Control of AIDS. The following data are presented: Databases of departments and databases of practices, Sample Agreement on internship, Agreements on the provision of educational services.

As part of the implementation of the master's program in the specialty 7M10117 - "Medical and preventive care", it is provided for an internship in other laboratories on the topic of research and specialty profile lasting no more than 10 days, but the undergraduates did not undergo an internship.

Compliance of scientific research with the principles of ethics, during their planning and conduct, is observed with the help of ethical review and approval of documents and materials of scientific research in ethics commissions. The Ethical Committee in its activities is guided by the ethical principles of the Declaration of Helsinki of the World Medical Association, reflected in the State Standard for Good Clinical Practice and regulatory legal acts. The goals, objectives, structure and organization of the Ethics Committee are reflected in the regulation of NJSC "KAZNMU" <https://kaznmu.kz/rus/category/obrazovanie/.../lokalnyj-komitet-po-jetike>, [представлено Приложение 2.1.6 – Положение ЛЭК.](#)

The local ethics commission of KazNMU is registered in the international database at the Office for Human Research Protections (OHRP) (IRB00003734 "KazakhNatlMedU-Kazakhstan Ethical Committee") and has access to the "General Federal Guarantee" (FWA00005470), which is a guarantee of maximum research safety for research participants and recognition of the conclusions of LEC KazNMU at the international level (<http://science.kaznmu.kz/> инструкции-по-обращению-в-локальную-э/).

The relationship between the employer and the staff of the University is regulated by labor and collective agreements, the relationship between the teacher and undergraduates is regulated

by the Rules of the labor (internal) schedule of KazNMU named after. S.D. Asfendiyarova. The conclusion on the professional suitability of the personnel is given by the competitive and qualification commission based on the results of certification. The university, in accordance with the current legislation and the requirements of the QMS, has developed job descriptions that define the qualification requirements of the teaching staff, job duties, rights and responsibilities. In accordance with the Regulations "On the competitive commission for filling the positions of the teaching staff and researchers of KazNMU named after. S.D. Asfendiyarov" a collegiate election is being held to fill vacant positions of teaching staff and scientists. Presented: "Job description of the head of the department", "Job description of the professor of the department", "Job description of the lecturer of the department" approved by the rector on 09/02/2019.

For undergraduates, an electronic library and computer classes are provided for wide access. The university has a huge network base, which provides training potential with large resources, including the material and technical base for conducting the scientific and educational process; library fund; computer classes; Access to all databases by IP address on the University Server, to the world indexing databases Web of Science, Scopus, RSCI, PubMed, etc. is open. contracts for subscription to scientific databases are presented. The library has equipment for digitizing books, which allows all students to have access to books, monographs that are not published in large quantities or are the only copy.

The university website contains a section dedicated to the magistracy (<http://kaznmu.kz>), which contains all the information on the structure and staff of the magistracy department, the duties of the head and staff of the department; admission policy, including clear rules about the selection process for undergraduates; list of master's programs; structure, duration and content of master's programs; sections of the site "Students" and "Graduates" are not filled.

Since 2020, distance learning for undergraduates has been carried out on the platforms <http://dis.kaznmu.kz> (Moodle), ZOOM, Skype, Classroom. New sites have been created to maintain the educational environment in a remote format (<http://dis.kaznmu.kz>, <http://exam.kaznmu.kz>).

### ***Analytical part***

The main objective of the master's degree program in the specialty 7M10117 - "Medical and preventive business" (profile direction) is to train personnel for practical healthcare and the research sector, who have in-depth research training in the field of epidemiology and hygiene, who will work on priority problems in the country. The University ensures that undergraduates acquire the necessary knowledge and competencies based on the study of basic and profile disciplines, the formation of skills and abilities in the course of professional (research) practice and in the performance of research.

The research environment and educational resources of KazNMU are aimed at achieving the final results of training by undergraduates of the OP "Medical and Preventive Business".

Classroom classes in the magistracy are conducted by highly qualified and competent teachers who have the degree of doctor or candidate of medical sciences, doctor of PhD.

The teaching staff of the university carries out fundamental and applied scientific research within the framework of republican scientific and technical programs, grant funding from the Ministry of Education and Science of the Republic of Kazakhstan, agreements of enterprises of the Republic of Kazakhstan, initiative scientific topics, international and republican agreements on scientific cooperation. Changes have been made in KazNMU to ensure the quality of the educational process and create a research environment that allows undergraduates to effectively learn and develop in the professional field. Due to the cancellation of the award for an article with an Impact factor, teachers have less incentive to write and publish annually when they have the opportunity, that is, knowing that the university pays for an article with an impact factor only for 3 articles within five years.

However, it should be noted that the complex navigation of the site makes it difficult for interested parties to find the necessary information. For example, on the university website there

is a section "Applicants" - "Postgraduate education" - "Master's" - "Applicants" are presented with brief information about the EP, in order to find the educational program itself for familiarization, it is necessary to search in the search engine, which makes it difficult to familiarize the applicant, employer and other interested persons with OP, including those with a mission that is spelled out in the passport part of the EP.

When interviewing teaching staff and undergraduates, when asked whether undergraduates have the opportunity to study in other laboratories, preferably in another country, they answered that undergraduates study on the basis of the university and on practical bases. Undergraduates do not study in scientific laboratories of another country. Also, undergraduates announced that, when participating in scientific conferences, they bear the costs themselves.

When asked whether supervisors and teaching staff of undergraduates receive financial support in the form of a bonus for publishing an article with a high Impact factor and when achieving the final learning outcomes, the teaching staff answered that bonuses for an article with an Impact factor are included in their assessment indicator during certification, that is, for 5 years of teaching staff it is necessary to publish 3 articles with an impact factor, which will be taken into account during the certification and, based on the results of the certification, they will receive an increased salary. Also, at the final meeting with the leadership of the university, it was announced that lump-sum payments for the article were canceled from 2017

When interviewing the heads of structural subdivisions and heads of educational programs, heads of departments, it was found that there are no joint educational programs of the master's program in the EP "Medical and preventive care".

The results of the survey of students showed that the question of whether you are satisfied with the "Level of availability of library resources" 86.4% answered completely satisfied, 9.1% partially satisfied, 1.5% partially dissatisfied, 3% dissatisfied. To the question "Are you satisfied with the existing educational resources of the university", 86.4% rated excellent, 12.1% good, 1.5% dissatisfied.

Questioning of teachers found that 36.7% of respondents rated excellent, 58.3% good and 3.3% relatively bad, 1.7% bad in response to the question "Evaluate the support of the university and its management for the research initiatives of the teaching staff". To the question "Evaluate the level of the teaching staff's ability to combine teaching with scientific research", 31.7% of respondents rated excellent, 53.3% good and 13.3% relatively bad, 1.7% bad. To the question "How satisfied are you with the recognition of your successes and achievements by the administration" 28.3% of respondents answered partially satisfied. The results of the satisfaction survey revealed that the teachers are partially satisfied with their remuneration. 38.3% of respondents answered the question "How satisfied are you with the salary?" 38.3% of respondents answered completely satisfied, 45% partially satisfied, 13.3% dissatisfied and 3.3% answered that they found it difficult to answer. Also, teachers in the answers to what problems you encounter at the university indicate low wages, with a high workload.

In the SWOT analysis, the weaknesses were the lack of material support for publication activity in international peer-reviewed journals.

#### ***Strengths/best practice***

1. Availability of a sufficient number of qualified and competent teachers, researchers at the faculty, educational institution.
2. The library has the necessary materials - educational, technical, scientific and reference literature, various medical periodicals.
3. The university library has an information website that contains: links, interlibrary exchange forms, full-text electronic journal articles, and a feedback form.

#### ***WEC recommendations***

1. Provide training for undergraduates in foreign laboratories by increasing the number of memorandums and submit an implementation report by September 2023.
2. Develop and approve a plan for the implementation of Joint EPs with the award of degrees from both universities and submit 1 memorandum by 2024-2025.

3. To carry out a decent remuneration of teachers when publishing an article with a high impact factor and achieving the final learning outcomes of undergraduates with the provision of a report by September 2023.

4. Include in the expense items the costs of participation in training courses, international conferences of undergraduates and teaching staff and provide a report on the development until 2023-2024.

5. Improve the navigation system of the university website and update information about structural units, about employees with the addition of information about scientific achievements, researcher identification numbers (Researcher ID, SCOPUS ID) 2022-2023 y.y.

***Conclusions of the EEC according to the criteria:***

*strong positions - 3, satisfactory - 21, imply improvement -5, unsatisfactory - 0.*

***Standard 3 "Admission Policy and Criteria"***

**Evidence**

The procedure for admission of applicants to the master's program in the specialty 7M10117 - "Medical and preventive care" (profile direction) is established in accordance with the Model rules for admission to study in educational organizations that implement professional training programs for postgraduate education, approved by the Decree of the Government of the Republic of Kazakhstan dated 19.01.2012 No. 109, SCES, approved by Decree of the Government of the Republic of Kazakhstan dated August 23, 2012 No. 1080, by order of the Minister of Education and Science of the Republic of Kazakhstan dated July 5, 2016 No. 425. Also by Order of the Minister of Education and Science of the Republic of Kazakhstan dated June 8, 2020 No. 237, On amendments and additions in the order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 "On Approval of the Model Rules for Admission to Education in Educational Organizations Implementing Educational Programs of Higher and Postgraduate Education".

The procedure for admission of citizens to the magistracy is established in accordance with the internal Rules for admission to the magistracy and doctoral studies, approved by the acting. by order of the rector No. 389 of 06/30/2017.

Admission of applicants to the Master's program of the University is carried out on a competitive basis based on the results of the Comprehensive Testing.

Comprehensive testing is carried out in accordance with the Order of the Minister of Education and Science of the Republic of Kazakhstan dated 05/08/2019. No. 190 "On approval of the Rules for conducting comprehensive testing" (as amended and supplemented as of 06/05/2020 No. 185).

Additional admission requirements, the procedure and procedure for passing exams are regulated by the admission rules for the relevant levels of education, which are approved by the Senate, the Board of Directors and posted on the university website. Enrollment of persons in the magistracy is carried out based on the results of the CT in accordance with the Scale of the 150-point grading system for CT in the magistracy. Persons who have scored

the highest scores in comprehensive testing are enrolled on a competitive basis for training under the state educational order.

The procedure for determining the number of accepted undergraduates is determined by the results of a comprehensive testing of applicants who have chosen KazNMU named after. C. the maximum allowable load on managers and teaching staff, the provision of educational, methodological and scientific literature, the throughput capacity of laboratories and research bases, as well as the material and technical resources of the university.

The contingent of students is formed on the basis of the Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 606 dated October 31, 2018 "On approval of the average ratio of the number of students to teachers for calculating the total number of faculty members."

The admission of undergraduates is carried out by placing a state educational order for training personnel in scientific, pedagogical and specialized areas, as well as paying for tuition at the expense of students' own funds and other sources.

In 2021, for the first time at the university for the 2021-2022 academic year, admission was organized in the specialty 7M10117 - "Medical and preventive care" (profile direction) on a contractual basis. According to the Rules for admission to the magistracy at NJSC "Kazakh National Medical University named after S.D. Asfendiyarov" 2 undergraduates were accepted.

The state provides citizens of the Republic of Kazakhstan with the right to receive on a competitive basis in accordance with the state educational grant / order of free postgraduate education, if they receive education at this level for the first time. To receive documents and organize entrance examinations for the master's program, a selection committee is created. The Chairman of the Admission Committee is the Chairman of the Board - the Rector or the person acting in his capacity.

The composition and functions of the selection committee are approved by the order of the Chairman of the Board - the Rector or the person acting as his. For applicants to the magistracy, the admission committee carries out: advising applicants on the selected group of educational programs of postgraduate education, familiarization with the CT procedure or the entrance exam;

Acceptance of applications entering the magistracy is carried out by the admission committee of the University and (or) through the information system from June 15 to July 15 of the calendar year. "Admission of foreign citizens to the magistracy is carried out on a paid basis. Obtaining by foreign citizens on a competitive basis in accordance with the state educational order of free postgraduate education is determined by international treaties of the Republic of Kazakhstan, with the exception of the scholarship program for master's programs.

Admission of foreign citizens to study on a paid basis is carried out based on the results of an interview conducted by the admission committees of the University during the calendar year. Enrollment of foreign citizens is carried out in accordance with the academic calendar 5 (five) days before the start of the next academic period. Admission to the magistracy with an indication of the training program is announced through the mass media (mass media) and on the University website no later than 15 (fifteen) calendar days before the start date for accepting documents.

For foreign citizens, an examination committee is created for the period of consideration of the Essay of the applicant. The composition of the examination committees is formed from among the teaching staff of the university with a doctorate or candidate of science degree, or a PhD degree in the relevant profile and is approved by order of the Chairman of the Board-Rector or a person acting in his capacity with the election of chairmen of the commissions from among the commission.

The results of the consideration of the Essay are drawn up by the assessment sheet and the protocol of the commission in any form, which are transferred to the executive secretary of the selection committee.

Stages of admission to the magistracy: I. Comprehensive testing. II. Competition for the award of the state educational grant. III. Master's degree enrollment. Every year, the University forms an application for obtaining a state educational order for the training of specialists with postgraduate professional education in the master's program.

The application for the training of personnel in the magistracy is prepared on the basis of a study of the needs of the university, universities, scientific centers (research institutes) in scientific and pedagogical personnel. The improvement of the educational program is implemented through the participation and support of external stakeholders in determining the professional competencies of undergraduates, the list and content of elective disciplines, practical skills, in assessing professional competencies, providing them with bases for conducting practical classes, practices, their participation in the final state certification (IGA) ,

assisting in the recruitment of materials for scientific papers, providing methodological assistance to undergraduates.

In accordance with the individual work plan of undergraduates, for the assessment of professional competencies, internships are provided in basic healthcare organizations: the Committee for Control over the Scope and Safety of Goods and Services, the "National Center of Expertise", the City Center for the Prevention and Control of AIDS on the basis of the Internship Agreement, Agreements on the provision of educational services. Practice, depending on the direction of the master's program (pedagogical, industrial, research) is a mandatory component of the curriculum.

The information received is recorded and controlled over the next 3 years of KazNMU named after. S.D. Asfendiyarov in order to control the fulfillment of the obligations of graduates. For the employment of graduates of the magistracy, a job fair is held before the SAC.

The field of professional activity of graduates who have mastered the program "Medical and Preventive Business" includes protecting the health of citizens by ensuring the sanitary and epidemiological well-being of the country's population in accordance with the established legislative and regulatory legal acts of the Republic of Kazakhstan in the field of healthcare.

Upon graduation, graduates are employed in institutions of public health centers, sanitary and epidemiological expertise and monitoring, medical institutions and scientific and practical institutions working in the field of public health prevention.

#### **Analytical part**

In accordance with the mission of the university, KazNMU selects undergraduates for educational programs of the master's program, taking into account the requirements of the labor market.

The university has defined and implemented a policy for the admission of undergraduates and the selection process is clearly established in the regulation. All undergraduates enrolled in the magistracy in the specialty 7M10117 - "Medical and preventive business" (profile direction), have higher education, bachelor's degree in specialties.

Information and admission rules for admission to the magistracy, based on the established model rules, undergraduates (previously applicants) got acquainted on the website of the university, as well as additionally in the dean's office of the air defense. Highly qualified teaching staff of the university, together with undergraduates, determined the goals and objectives of the study, ways to solve them, bases of practice, etc.

Since in 2021, for the first time at the university for the 2021-2022 academic year, admission to the profile master's program in the specialty 7M10117 - "Medical and preventive care" (profile direction) was organized, there were no graduates at the time of accreditation. Employment of graduate students on a paid basis is not provided.

Currently, due to changes in the rules for admission to the master's program, it is not possible to interview applicants to assess research potential. However, it is possible to assess the research potential of those who enroll in a master's program on a paid basis.

#### ***Strengths/best practice***

Under Standard 3 "Admission Policy and Criteria", no strengths were noted by the external review panel.

**The area for improvement is:** it is necessary to develop criteria for assessing the research potential of applicants.

**EEC recommendations** - Develop criteria for assessing the research potential of applicants when selecting an applicant for a master's program on a paid basis until September 2023.

**The conclusions of the EEC according to the criteria:** strong positions - 0, satisfactory - 8, suggest improvements - 1, unsatisfactory - 0.



#### Standard 4 "Master's Degree Program"

##### **The evidentiary part**

On the basis of the order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 "On approval of the Rules of organization of the educational process on credit technology of education", as well as according to the strategic goal of the University "Improvement of educational programs", modular training in all specialties was introduced in NAO "KazNMU". In this regard, Modular OP are formulated taking into account all competencies and skills, with reflected final learning outcomes in the form of Dublin descriptors, which must be mastered by a graduate of all levels of education.

The profile magistracy implements applied research aimed at instilling managerial skills and providing training for professional specialists of the Committee for Control over the Sphere and Safety of Goods and Services, training leading specialists in the field of epidemiology in a narrow profile direction.

The Master's degree program has been developed taking into account the needs of practical healthcare: the branch of the "Scientific and Practical Center for Sanitary and Epidemiological Expertise and Monitoring" of the RSE at the National Center for Public Health of the Ministry of Health of the Republic of Kazakhstan, the Committee for Quality Control and Safety of Goods and Services in Transport, the RSE at the National Center of Expertise, LLP NGO "Kazakh Academy of Nutrition". Committee for Quality Control and Safety of Goods and Services (sanitary and Epidemiological service - civil service).

The model of the master's degree program of the specialty 7M10117 – "Medical and preventive care" profile direction: includes an integrated model based on interdisciplinary communication and a competence-oriented approach, using modular learning technologies taking into account the final learning outcomes. The Master's degree program consists of:

Theoretical training, including the study of cycles of basic, profile disciplines, a component of choice. The programs of disciplines and modules, as a rule, are interdisciplinary and multidisciplinary in nature;

-practical training of undergraduates, including various types of practices, scientific or professional internships. The research practice is conducted to familiarize with the latest theoretical, methodological and technological achievements of domestic and foreign science, with modern methods of scientific research, processing and interpretation of research and experimental data;

-research work, including experimental research work for the implementation of a master's project. Compliance with the main problems of the specialty in which the dissertation is defended, relevant, containing scientific novelty and practical significance, is carried out using modern research methods, based on advanced international experience in the relevant field of knowledge;

The final certification program is designed to determine the theoretical as well as practical training of a master's student in the specialty "Medical and preventive care" to perform professional tasks. According to its content, the master's project is an independent study in medical science, in which theoretical provisions have been developed, a scientific problem has been solved, scientifically based solutions have been outlined, the implementation of which makes a significant contribution to the development of the country's healthcare.

The content, scope and sequence of courses and other elements of the OP are reflected in the RUP-ah, the relationship between the basic, core disciplines, practice and the performance of research work, including the implementation of the master's thesis, the design and defense of the dissertation are observed.

Information about the structure, duration (hours/weeks, semester/academic year), the content of the OP, indicating the mandatory elements, components of choice and their duration is contained in the rules of the academic year. The relevant disciplines have been integrated with

the integration of the program components, as well as a system of planning, provision, implementation and monitoring included in the training program has been established.

The formation of special skills of scientific research is carried out both during the passage of relevant specialized disciplines and in the process of consultations with the supervisor.

The OP pays sufficient attention to the development and improvement of undergraduates' competencies during research and teaching practice.

The scientific component of the OP is formed from the research work of a master's student in a profile master's degree, scientific publications and writing a master's project. The effectiveness of research work during master's studies is ensured by planning, monitoring the progress of work on the part of the supervisor, the Scientific Committee, Scientific Commissions and the University Council.

The professional competencies and skills of the undergraduate are reflected in the OP of the NAO "KAZNMU". Professional competencies – focused on the specialty. For the formation of competencies, the skills prescribed in the SES are taken into account.

The interdisciplinary connection is clearly traced in the syllabuses of academic disciplines and modules of existing OP, compiled taking into account the development of prerequisites and post-prerequisites, as well as taking into account the specifics of the specialty. Modular educational programs enable undergraduates to plan and implement an individual, directed learning trajectory during the entire training.

The developed goals of the OP at KazNMU fully comply with the requirements of the SES specialty and are as follows: preparing graduates to solve the problems of management, planning, monitoring, control and regulation in the field of public health; to define policies, strategies and its implementation in healthcare organizations; preparing graduates to conduct research and teaching activities.

The OP, the working curriculum and the content of the disciplines were developed in accordance with the structure of the master's degree program in the scientific and pedagogical direction, approved by the Order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state mandatory standards and standard professional training programs in medical and pharmaceutical specialties".

The disciplines of the university component, the ratio of basic and profile disciplines, the total number of credits and hours mastered, etc. have been preserved.

The air defense systems are provided with a RUP, an academic calendar, an individual curriculum and an individual master's work plan. RUP and academic calendars were developed by OMiD for the academic year on the basis of the TUP, approved at a meeting of the Senate.

Master's projects of undergraduates are planned in the field of topical, modern scientific problems that require analytical and critical thinking.

The choice of the topic of the master's project takes into account the scientific interests of the undergraduate within the areas of scientific research of the department. The topic of the dissertation and the supervisor of the undergraduate student is approved at a meeting of the department, then at a meeting of the NC and the Senate within two months after enrollment.

The KAZNMU website has been developed at the University, which contains general information about the University and strategic directions of development, the procedure for conducting ongoing monitoring of academic performance, intermediate certification, academic calendar, the procedure for calculating the student's academic rating, the procedure for assigning and paying state scholarships, requirements for final state certification and class schedule, academic calendar, point rating system, announcements, regulatory and legal documents, a reference guide for a graduate student is available on the University's website.

Each master's student, together with the supervisor, draws up an individual work plan, is determined with a list of elective disciplines.

In accordance with the traditions and values of the University, all participants in the educational process comply with the accepted standards of academic policy and academic

integrity "Code of Honor of Teaching Staff and employees of KazNMU (approved by Order No. 191 of 27.08.2019)

Disciplinary and administrative penalties (remark, reprimand, severe reprimand, expulsion from the University) are taken for violation of the Code of Academic Integrity, the rules provided for by the Charter and regulatory and directive documents.

The ethical examination of research at the university is carried out by the Ethics Committee, which is an advisory body that protects the rights, safety and well-being of subjects and researchers, as well as ethical and moral and legal assessment of research materials, the objects of which are a person or an animal. The Ethics Committee is guided in its activities by the ethical principles of the Helsinki Declaration of the World Medical Association, reflected in the State Standard for Good Clinical Practice and regulatory legal acts. The goals, objectives, structure and organization of the Ethics Committee are reflected in the regulations of NAO "KAZNMU" <https://kaznmu.kz/rus/category/obrazovanie/.../lokalnyj-komitet-po-jetike>.

The implementation of the Master's degree program in the specialty 7M10117 – "Medical and preventive care" (profile direction) is planned with the use of the following training activities and training methods:

Practical classes: oral interview, work in small groups, testing, discussions, presentations, feedback, work with medical literature, search for information on the Internet, discussion of the results of individual and group tasks.

SRM: work of undergraduates with educational and additional literature, with literature on electronic media and on the Internet; solving and preparing test tasks, preparing individual and group presentations on the analysis of medical articles, developing and presenting individual and group projects.

Practice: participation in the work of the master's basic institutions (Scientific and Practical Center for Sanitary and Epidemiological Expertise and monitoring, laboratories, etc., i.e. the base corresponding to a narrow specialty, the topic of the dissertation) with subsequent analysis and report on past practice.

Traditional teaching methods, as a lecture lays the foundations of scientific knowledge in a generalized form, practical classes are aimed at expanding and detailing this knowledge, at developing and consolidating professional skills. Preparation for practical classes involves preliminary independent work of undergraduates in accordance with methodological developments on each planned topic.

University teachers at all levels of education are doing a lot of work to introduce new forms and methods of teaching into the educational process, means of activating cognitive activity: training based on the analysis of specific situations, team-oriented training in small groups, role-playing and business games, the use of problem and situational tasks in practical classes.

In the structure of the Master's degree program, a significant place is reserved for independent work. The departments approve the independent work of a master's student, which is divided into two types – SRMP and SRM. SRMP is the extracurricular work of a master's student in contact with a teacher, which must be indicated in the schedule of training sessions. The hours of the SRMP include consultations on homework, term papers and tests, reports and other types of tasks. CPM is an extracurricular work performed by a master's student independently according to a certain list of topics allocated for independent study, provided with educational and methodological literature and recommendations; controlled in the form of tests, control works and other forms of knowledge control.

In the OP of the profile master's degree in the specialty, 5 ECTS credits are allocated for industrial practice, which is 150 hours. The PP bases are determined from among both republican and foreign organizations and enterprises with which the University has concluded cooperation agreements.

The content of industrial practice is determined by the topic of the master's thesis.

The final assessment of the production practice will be carried out based on the analysis of the report of the undergraduate.

During the internship, undergraduates fill out practice diaries. At the end of the internship at each base, undergraduates receive an assessment for the practice, with the entry of the assessment in the diary signed by the head of the practice on this base.

The main principles of the Bologna Declaration have been implemented at the University: the transition to a three-level model of training specialists has been carried out, credit technology of training and a credit transfer system of the type of the European Credit Transfer System have been introduced.

The mechanisms of admission of students from other universities are implemented in accordance with the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 30, 2018 No. 595 "On approval of Standard Rules for the activities of educational organizations of appropriate types" and on the basis of internal regulatory documents: regulations on academic mobility of students of NAO "KAZNMU".

There were no cases of transfer of students from other national or international programs in the specialty 7M10117 – "Medical and preventive care" (profile direction), since this educational program is taught only for the first year.

Within the framework of academic mobility, annual foreign internships of students are provided. Internships are held on the basis of contracts with foreign partner universities.

According to the Academic Policy of the NAO "KAZNMU", it is allowed to introduce a summer semester, with the exception of a final course lasting 6 weeks to meet the needs for additional training, increase GPA, eliminate academic debt or differences in curricula, master loans in other universities with their mandatory transfer in their university.

The Undergraduate Support Program focuses on social, financial and personal needs, which includes support in connection with social and personal problems, health problems and financial issues. Undergraduates receive a scholarship, and can also seek help from the student polyclinic assigned to KazNMU.

In order to implement the principles of academic integrity and transparency of the organization and control of the educational process, the University provides for an appeal system in accordance with the Academic Policy of NAO "KAZNMU".

A student who does not agree with the result of the examination session has the right to appeal to the dean on the day of the announcement of the results with an indication of the discipline and a description of the issue requiring commission consideration.

A student who does not agree with the result of the final attestation (State attestation) has the right to appeal to the chairman of the appeal commission of the University on the day of the announcement of the results, indicating the discipline and describing the issue requiring commission consideration.

On the basis of the received application for appeal, an official order is issued at the dean's office level to conduct an appeal, indicating the composition of the appeal commission, discipline and the date of consideration.

There is a monitoring mechanism at the university, which consists in constant monitoring of attendance of disciplines, student progress, writing a dissertation, etc.

To monitor and evaluate the quality of teaching, mutual visits of classes, open classes of teachers are held, the results of which are discussed at meetings of departments, Faculty Council.

Scientific supervisors have the opportunity to participate in the organization of the curriculum of the specialty during the direct discussion and approval of work programs and the list of elective disciplines at the meetings of the department and the COPA.

В университете разработан стандарт «Мониторинг обратной связи». Обратная связь магистрантам от преподавателя предоставляется по ходу и в конце каждого практического занятия, в процессе выставления баллов в оценочные рубрики.

Использование обратной связи носит системный характер при внесении изменений в ОП. Образовательные программы магистратуры действующих специальностей в

Университете реализуется в соответствии со всеми требованиям нормативно-правовой документации.

To implement the OP, a syllabus is being developed, which is considered at the meetings of the graduating department, discussed and approved at the CPC. The content of syllabuses is formed based on the final results of master's degree studies. Disciplines, both mandatory component and optional component are grouped into modules.

The trajectory of undergraduates' education is realized during the free choice of elective disciplines, taking into account the topic of research work. Departments develop elective disciplines by creating vertical and horizontal modules. The registrar's office, based on the submitted elective disciplines, forms a QED, which is coordinated with employers, approved by the CPC. The QED will be updated annually.

(Standard operating procedures). "The procedure for registration of academic mobility of a student of KazNMU named after S.D.Asfendiyarov" No. 383 dated 01.09.2020, which describes the procedure for admission of students from other universities, recognition of credits mastered under the academic mobility program.

### **Analytical part**

Evaluation of the OP, monitoring and control of the achievements of the final learning outcomes aimed at continuous improvement of the quality of educational services provided at the University is carried out continuously, with a focus on the requirements of consumers (employers), the criteria for evaluating learning outcomes and control results are described and brought to the attention of all interested parties and the availability of feedback.

Improving the quality of educational services and curriculum is also ensured through strategic planning, which leads to continuous improvement. The analysis of the implementation of the Strategic Plan makes it possible to assess and make the necessary corrective actions in the educational process in a timely manner. The department, as a unit directly involved in the educational process, provides its own plan and reports on the implementation of plans. The goals of the departments, for the achievement of which the plans of the departments are formed, are decomposed with the goals of the university. The goals of the University are reflected in the Strategic Directions of the University. According to the reports of departments and structural divisions, according to the reports of the effectiveness of processes, an analysis is carried out by the management, an Improvement Plan is formed, areas for improvement are determined, improvement projects are developed and implemented.

Undergraduates can be involved in the process of assessing the OP by expressing their opinions and wishes at the end of the course of study or mastering a specific discipline, or by anonymous questionnaires to identify opinions and take into account comments, suggestions of direct consumers.

OP is regularly studied and evaluated by receiving feedback not only from undergraduates, teaching staff, but also from interested parties, including employers. Feedback is monitored and is the basis for reviewing the goals, objectives and activities of the University and the content of the OP.

During the period of State certification of undergraduates for the period of passing the comprehensive exam and at the time of defending the master's thesis, a special commission is created, whose chairmen must be appointed by a person represented from a third-party healthcare organization.

The regulation on the rating system of knowledge assessment is brought to the attention of all undergraduates at the first lesson in each academic discipline.

The rating assessment of knowledge is based on a cumulative system for assessing the knowledge and skills of undergraduates, a 100-point rating scale is used. The assessment of knowledge, skills and abilities of undergraduates is carried out in accordance with the rating system, which systematizes and disciplines the student's work during the study of the discipline and is reflected in the individual final rating.

In order to improve the information service in the NAO "KAZNMU" since 2013, the AIS "Sirius" has been introduced. This complex is designed to automate the management of processes at the university at all levels, based on the use of standardized electronic documents by departments and the introduction of new educational information technologies in the process of managing the educational process. Currently, the university is conducting preparatory work on the transition to AIS "Platonus"

For an objective assessment, the University attracts representatives of practical healthcare as chairmen, members and examiners of the state attestation commission for the final certification of graduates who participate in their distribution. Their opinions and comments are taken into account when planning improvements.

The mechanisms of functioning of the training quality assurance system established at the university include monitoring of the quality of education, ensuring the competence of the teaching staff, regular internal audit according to agreed criteria, taking into account and analyzing the opinions of employers and graduates of the university.

In order to continuously improve the quality of educational services, the following is carried out:

- improvement of the structure, content and methodological support of the educational program based on the experience of the leading universities of the republic;
- development of resource support for educational activities;
- improving the organization and technologies of educational activities, taking into account the tradition of the university and the experience of other universities.

The results of the survey of employers and undergraduates on satisfaction with the quality of the OP are analyzed. Proposals and recommendations for improving the OP by interested parties are discussed at meetings of the Department, the Educational Programs Committee, the Quality Assurance Committee, the Academic Activities Committee under the University Senate, which includes all interested persons and decisions are made by the Senate. The minutes of the Senate are published on the university's website. However, during interviews with employers, it was found out that there is no feedback from the university, since the questionnaire is anonymous and they do not know whether their offer has been accepted by the University.

Based on a survey of undergraduates, it was revealed that undergraduates did not undergo academic mobility. During an interview with the faculty and with the dean of the Department of Master's and Doctoral Studies, it was found out that it is planned to conduct academic mobility of undergraduates. A long-term plan for academic mobility has not been presented.

Thus, in general, KazNMU monitors educational and other processes, for which appropriate procedures and regulations have been developed. The monitoring results are used to improve the educational program, aimed at the student's progress. Feedback is maintained between teachers and students, including a questionnaire system of satisfaction with educational and other activities of the university, aimed at improving the educational program.

***Strengths/Best practices***

There are no strengths according to this standard.

***The area of improvement is:*** to develop the academic mobility of undergraduates, internships in other laboratories

***Recommendations of the VEC***

1. To develop a long-term plan for Academic mobility of undergraduates and teachers of the OP and to provide a report on the implementation of the plan 2023-2024 y.g.

2. To develop mechanisms for notifying interested parties about the application of their recommendations in the development and improvement of the OP by providing them with minutes of the meeting of the CPC, the Academic Committee on an ongoing basis. The deadline is 2023-24 academic year.

***Conclusions of the VEC by criteria:***

strong positions – 0; satisfactory -23; suggest improvements - 2; unsatisfactory – 0.

### Standard 5 “Scientific guidance”

#### ***Evidentiary part***

At KazNMU named after S. D. Asfendiyarov, each undergraduate student is engaged in the selection of a supervisor within 2 months after his enrollment. The profile department, the Scientific Commission, the University Council and the Senate of the Faculty discuss and approve the candidacy of the supervisor at a meeting. Approval is granted in accordance with the order of the Ministry of Education of the Republic of Kazakhstan No. 391 dated June 17, 2015 No. 391. “On approval of qualification requirements for educational activities and a list of documents confirming compliance”, qualification requirements, the Order of the Minister of Education and Science of the Republic of Kazakhstan dated 05.06.2020 No. 231 [https://online.zakon.kz/Document/?doc\\_id=35414628](https://online.zakon.kz/Document/?doc_id=35414628) and are issued by the order of the Rector of KazNMU named after S. D. Asfendiyarov.

Scientific guidance of the work of undergraduates is carried out by scientific supervisors who have a scientific degree (Doctor of Medical Sciences, Candidate of Medical Sciences, PhD), who conduct scientific research and have scientific and educational publications on the subject of the master’s program.

Scientific guidance is based on the criteria of professional experience, research results, recognition from colleagues and teaching experience. Requirements for the scientific supervisor of a master’s student are defined by Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 391 dated June 17, 2015. Also defined by qualification requirements, Order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 (as amended on 02/21/2020) <http://adilet.zan.kz/rus/docs/V1500012007>.

The approval of the scientific supervisors of undergraduates is carried out on the basis of the order of the Vice-Rector for Science and the decision of the Academic Council of the University after a preliminary discussion of their compliance with the qualification requirements at the meetings of the graduating departments and the “Public Health” Scientific Committee.

In the case of situations requiring the replacement of the supervisor, upon presentation and justification of the graduating department, the candidacy of the new supervisor of the graduate student is approved by the order of the Vice-Rector for Science and the decision of the Academic Council on the recommendation of the “Public Health” Scientific Committee.

The approval of the topic of the master’s project of undergraduates is carried out at the beginning of the academic year (within 3 months) in several stages: at a meeting of the graduating department, the “Public Health” Scientific Committee, a meeting of the Academic Council of the University. The topics of the master’s project correspond to the priority areas of scientific research in the profile “Public Health”, the Code “On the health of the people and the healthcare system”, the draft state program for the development of healthcare for 2020-2025.

Master’s students study on the basis of an individual work plan, which is compiled under the guidance of a supervisor during the entire period of study and includes the following sections:

- explanatory note to the implementation of the dissertation work of the master's student;
- structure of the educational and scientific programmes;
- scientific program of a master’s student;
- internship plan;
- plan of scientific publications.

#### ***Analytical part***

Scientific supervisors of master’s students assist in determining the topic and plan of the dissertation research for their subsequent approval by the Academic Council of the University, the development of an individual work plan of the master’s student. Systematically carry out advisory activities on research work and its evaluation (at least 2 times a year). Scientific supervisors ensure that master’s students provide the high-quality research work. Assistance is

provided in the analysis of research results and their presentation at international conferences and publications in scientific journals.

Master's students have the opportunity to choose a base of industrial practice, taking into account the chosen topic. That is, if a master's student has a topic of a master's project of an epidemiological direction of a certain region, then a master's student has the opportunity to undergo industrial practice in the Department of Sanitary and Epidemiological Control of this region.

Thus, the university has a procedure regulating the approval process of the supervisor and the topics of master's projects and guarantees that it will determine the supervisor for each master's student.

#### ***Strengths/Best practices***

For Standard 5 "Scientific Guidance", the external expert commission did not note the strengths.

#### ***Recommendations of the EEC***

There are no recommendations.

#### ***Conclusions of the EEC by criteria:***

*strong positions – 0, satisfactory – 7, suggest improvement – 0, unsatisfactory – 0.*

### Standard 6 "Management and administration"

#### ***Evidence***

NJSC "Kazakh National Medical University named after S.D. Asfendiyarov" is a single educational, scientific and industrial complex, which includes educational, scientific, medical and other units that have the status of structural units of KazNMU.

The organizational structure of NJSC "KazNMU", proposals for the creation, reorganization and liquidation of the structural divisions of the University (laboratories, departments, schools (faculties), according to the Charter, are considered by the Senate of KazNMU and approved by the order of the Rector. The organizational structure of KazNMU, based on the results of SWOT analysis, is annually reviewed, discussed members of the Supervisory Board and is approved at a meeting of the Senate of KazNMU.

In KazNMU there are innovative structures (Departments, Schools, Institutes, Centers), whose activities are aimed at improving the quality of education, integrating education, science and practice. The organizational structure of the university and the educational process management system have shown their high performance.

The specialized departments and the Department of Master's and Doctoral Studies, which is supervised by the Vice-Rector for Scientific and Clinical Activities and Digitalization, and the Vice-Rector for Corporate Affairs, are involved in the direct implementation of the master's degree program. According to the order No. 496 of September 12, 2017, the Faculty of Public Health was transformed into the School of Public Health named after Kh. Dosmukhamedov, on the board of which issues of improving the EP are considered and discussed.

Relevant Regulations have been developed for the effective functioning of all structures.

In addition to the Council, the Kh. Dosmukhamedov School of Public Health has a Committee for Educational Programs and a Scientific Committee.

The activities of the department of postgraduate education are aimed at conducting continuous organizational, coordinating and administrative work to achieve the goals and objectives. The issues of the educational and scientific part of the program are discussed at the monthly meetings of the Board of the School of Health, commissions under the Senate and the Board of NJSC "KazNMU". The Senate and the Commission for Academic and Scientific Work are a tool for ensuring the transparency of the management system and decisions made on the educational program.



The staffing of employees providing EP complies with regulatory requirements. The degree of full-time employees is 65%

According to the Regulations “On the rating of educational, scientific and clinical activities of the teaching staff”, the University conducts a rating assessment of teaching staff for all types of activities. The goals of the rating: accumulation of statistical information about the formation and dynamics of the development of departments and teachers; comparative determination of the actual state of educational and scientific activities in each department for targeted resource management; connection of the issues under consideration with the creation of an intra-university quality management system for training specialists. To determine the compliance of the level of competence of teaching staff with the qualification requirements, KazNMU conducts attestation of teaching staff.

To automate the management of educational, administrative, organizational, accounting and analytical processes, the SIRIUS automated information system with an academic database operates at the University.

. The target budget of KazNMU is formed on the basis of data on the actual availability of the university contingent.

The University has a systematic approach to quality assurance and university resource management based on the requirements of the ISO 9000 series standards and the principles of the process approach. The necessary resources for the effective implementation of all areas of the university's activities have been structured. Since 2005 QMS has been introduced in KazNMU. Every year, KazNMU confirms the ability of the QMS to achieve agreed requirements for a product or service within the scope of the system, the Policy of the organization and its goals before the international certification body SGS (Switzerland), UKAS managementsystems.

In accordance with the legislative acts of the Republic of Kazakhstan, in order to implement the mission and strategic plan of the university, provisions have been developed and approved on structural divisions that define the main areas of activity, requirements for assessing the scientific and pedagogical staff of scientific organizations and educational organizations in the field of health, and assessing knowledge and skills students in medical programs, a list of regulatory documents; job descriptions of employees, which determine the procedure for their appointment and dismissal, rights, duties, powers.

The managerial and administrative activities of the University and the School of Health are also carried out in accordance with the Certificate of the Ministry of Justice of the Republic of Kazakhstan on a registered legal entity, branch or representative office and the Certificate of Accreditation of NAO KazNMU. There is a regulation on a commission for quality assurance in the Schools of the University.

#### ***Analytical part***

The management structure developed and functioning at the university ensures the efficiency of its work as a whole and the implementation of mechanisms for improving educational programs. The management structure is available for review on the university website.

The main structural subdivisions involved in the direct implementation of the EP of the master's program are the Department of Master's and Doctoral Studies and specialized departments. For the effective functioning of all structures, relevant Regulations have been developed that determine the interaction of various departments, including those on the implementation of the EP.

KazNMU has developed and implemented a quality management system, including consideration of needs for improvement, conducts regular review and analysis of management.

The teaching staff, students, representatives of practical health care take part in the work of the university to improve the EP, which are included in the collegiate bodies of the university. The openness of the university to interested organizations is also noted.

Thus, the processes of management and administration at the university are carried out at a level that contributes to the effective implementation and regular improvement of master's educational programs.

***Strengths/best practice***

According to standard 6 "Management and administration", the external expert commission did not note the strengths.

***Recommendations of the committee***

There are no recommendations for this standard.

***Conclusions of the the committee according to the criteria:***

*strong positions - 0, satisfactory - 23, imply improvement - 0, unsatisfactory - 0.*

***Standard 7 "Continuous improvement"***

***Evidence***

The University plans and applies processes for continuous monitoring, evaluation, analysis and improvement of educational services, taking into account the objectives of national legislation, the requirements and expectations of stakeholders, contributing to the development of quality education based on competencies and learning outcomes.

The process of constant renewal is based on the introduction of new teaching methods, information technologies, the development of assessment criteria, the expansion of academic mobility, and the increase in the efficiency and transparency of the decision-making process.

The results of the analysis on the quality of the EP are heard at meetings of the Academic Council, the administration and are the basis for measuring and improving the effectiveness of activities in the preparation of undergraduates.

The revision of the mission and final results of the educational program is carried out in compliance with the principle of transparency, with the participation of all parties involved in the process: scientific and pedagogical staff, undergraduates, administrative structures at the level of the department, department, University.

Every year, internal and external audits are conducted in all departments of the University in order to determine the degree of compliance with the requirements of the QMS; assessments of efficiency, functionality and identification of opportunities for improving quality are carried out, proposals are developed for improving and introducing new methods for assessing knowledge, achievements and competencies.

***Analytical part***

The University regularly reviews, revises the content of the final learning outcomes, competencies, evaluation of the EP, regularly allocates resources for continuous improvement.

In KazNMU, in order to monitor the quality of educational services, analyze satisfaction and identify the needs of stakeholders, surveys of students, teaching staff, employers are conducted to study the quality of education and improvement processes, as well as an analysis of the contents of trust boxes, as a result of which a review of the goals, objectives of the activities of the university and the content of the final results of training, competence and evaluation of the EP. The process of questioning students is automated, for the convenience and efficiency of collecting information on the educational portal <https://sirius.kaznmu.kz/student/>, the Questionnaire module has been created.

According to the results of an anonymous survey of students, it was revealed that over 75% of students are satisfied with the library, educational and Internet resources at the University, which is evidence of the regular allocation of resources for improvement. The KazNMU web portal is one of the four best sites in the country and the first among medical universities in the Webometrics ranking.

Key performance indicators of the renewal and continuous improvement processes are monitored during internal audits.

***Strengths/best practice***

According to standard 7 “Continuous improvement”, the external expert commission did not note the strengths.

***Recommendations of the committee***

No recommendations

***Conclusions of the committee according to the criteria:***

*strong positions - 0, satisfactory - 11, imply improvement - 0, unsatisfactory - 0.*

Thus, according to the results of the primary specialized accreditation, the EEC believes that KazNMU has an adequate resource base for the implementation of the educational program, close interaction with the city's production bases and practical healthcare organizations, prospects for strategic partnership with a foreign university - a strategic partner, motivated, purposeful, oriented on the final result of undergraduates, the need for personnel in the specialty "Medical and preventive care".

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

***Standard 1 "Mission and learning outcomes"***

According to this standard, no strengths were identified.

***Standard 2 "Research environment and educational resources"***

1. Availability of a sufficient number of qualified and competent teachers, researchers at the faculty, educational institution.
2. The library has the necessary materials - educational, technical, scientific and reference literature, various medical periodicals.
3. The university library has an information website that contains: links, interlibrary exchange forms, full-text electronic journal articles, and a feedback form.

***6.3. Admission Policy and Criteria Standard***

According to this standard, no strengths were identified.

***6.4. Standard "Master's Program"***

According to this standard, no strengths were identified.

***6.5. Standard "Scientific leadership"***

According to this standard, no strengths were identified.

***6.6. Standard "Management and Administration"***

According to this standard, no strengths were identified.

***6.7. Continual Improvement Standard***

According to this standard, no strengths were identified.

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

### ***Standard 1. "Mission and learning outcomes"***

There is no recommendation for this standard.

### ***Standard 2. "Research environment and educational resources"***

1. Provide training for undergraduates in foreign laboratories by increasing the number of memorandums and submit an implementation report by September 2023.

2. Develop and approve a plan for the implementation of Joint EPs with the award of degrees from both universities and submit 1 memorandum by 2024-2025.

3. To carry out a decent remuneration of teachers when publishing an article with a high impact factor and achieving the final learning outcomes of undergraduates with the provision of a report by September 2023.

4. Include in the expense items the costs of participation in training courses, international conferences of undergraduates and teaching staff and provide a report on the development until 2023-2024.

5. Improve the navigation system of the university website and update information about structural units, about employees with the addition of information about scientific achievements, researcher identification numbers (Researcher ID, SCOPUS ID) 2022-2023 y.y.

### ***Standard 3. "Policy and criteria for admission"***

1. Develop criteria for assessing the research potential of applicants when selecting an applicant for a master's program on a paid basis, find ways to renew the assessment of the research potential of applicants until September 2023.

### ***Standard 4. "Master's Program" and 7 "Continuous Improvement"***

1. Develop a long-term plan for the Academic mobility of undergraduates and teachers of the EP and provide a report on the implementation of the plan for 2023-2024.

2. Develop mechanisms for notifying stakeholders about the application of their recommendations in the development and improvement of the EP by providing them with the minutes of the meeting of the COC KOC, the Academic Committee on an ongoing basis.

### ***6.5. Standard "Scientific leadership"***

There are no recommendations for this standard.

### ***6.6. Standard "Management and Administration"***

There are no recommendations for this standard.

### ***6.7. Continual Improvement Standard***

There are no recommendations for this standard.

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

Improving the website of the university to raise awareness of all stakeholders in the implementation of the mission of the university and the educational program.

## **(X) RECOMMENDATION TO THE ACCREDITATION BOARD**

The members of the committee came to the unanimous opinion that the educational programs of the magistracy 7M10117 "Medical and preventive care" (profile direction) implemented by NJSC "Kazakh National Medical University named after S.D. Asfendiyarov" is recommended for accreditation for a period of 5 years.

**Appendix 1. Evaluation table "Parameters of a specialized profile for a master's degree" 7M10117 "Medical and preventive Care"**

№ II/II	№	Evaluation criteria	Position of the educational organization			
			Strong	Satisfactory	Presumes improvement	Non-satisfactory
<b>Standard 1 "MISSION AND OUTCOMES OF TRAINING"</b>						
<b>Definition of the mission of the educational program</b>						
1.	1	The medical education organization should define its mission of the educational program and bring it to the attention of stakeholders and the healthcare sector.		+		
2.	2	The medical education organization must ensure that the main stakeholders are involved in the development (formulation) of the mission of the educational program.		+		
3.	3	The medical education organization must ensure that the stated mission includes the problems of public health, the needs of the medical care system and other aspects of social responsibility.		+		
4.	4	The medical education organization must ensure that the mission of the educational program is consistent with the mission of the organization and allows the preparation of a competent researcher at the level of postgraduate medical education.		+		
5.	5	Mission of the educational program: <input type="checkbox"/> should correspond to available resources, opportunities and requirements of the market; - ways to support it should be determined; - <input type="checkbox"/> access to information about the mission of the educational program for the public should be provided (availability of information on the website of the university).		+		
6.	6	The mission of the educational program, similar to the mission of a medical educational organization, must be approved by the advisory board		+		
7.	7	A medical education organization must have a strategic plan for the development of an educational program that corresponds to the stated mission of a medical education organization, including issues of improving the quality of master's programs and approved by the advisory board of a medical education organization.		+		
<b>Institutional autonomy and academic freedom</b>						
8.	8	An organization implementing master's degree programs should have institutional autonomy to develop and implement policies for which faculty and administration are responsible, especially with regard to: <input type="checkbox"/> development of an educational program; - use of allocated resources necessary for the implementation of the educational program.		+		
<i>A medical education organization should guarantee academic freedom to its employees and undergraduates:</i>						

9.	9	- in relation to the current educational program, in which it will be allowed to rely on different points of view in the description and analysis of issues in medicine and pharmacy;		+		
10	10	- in the possibility of using the results of new research to improve the study of specific disciplines / issues without expanding the educational program.		+		
<b>Final learning outcomes</b>						
11	11	The medical education organization must determine the expected learning outcomes that undergraduates must exhibit after completing the master's program.		+		
12	12	The medical education institution must ensure that master's studies with the award of an academic master's degree will provide undergraduates with competencies that will allow them to become a qualified teacher and / or researcher in accordance with the principles of best pedagogical / research practice.		+		
13	13	Completion of a master's program should be of potential benefit to those pursuing a career outside of the medical organization and applying their competencies developed during the master's program, including - critical analysis, assessment and solution of complex problems, the ability to transfer new technologies and synthesis of new ideas.		+		
14	14	The medical education organization should ensure that a regular (at least once a year) process of updating and restructuring leads to the modification of the final learning outcomes of graduates in accordance with the responsibilities that are assigned to graduates after graduation from the master's program.		+		
		<b>Total:</b>	<b>0</b>	14	<b>0</b>	<b>0</b>
<b>Standard 2 "RESEARCH ENVIRONMENT AND EDUCATIONAL RESOURCES" »</b>						
<b>Research environment</b>						
15	1	The success of individual master's programs must be ensured by the organization of a strong and effective research environment.		+		
<i>The quality of the research environment should be assessed by analyzing:</i>						
16	2	publications of research results (number of publications, impact factor, etc.) on the profile of a master's program in a medical education institution;		+		
17	3	the level of attracting external funding for scientific research in a medical educational organization;		+		
18	4	the number of qualified and competent teachers, researchers in a group, faculty, educational institution;	+			
19	5	national and international cooperation with research groups of medical organizations, universities, research centers.		+		
20	6	the presence in a medical educational organization of a procedure / system for observing the ethics of scientific research;		+		
21	7	the possibility of providing access to the means necessary to		+		

		write a dissertation				
22	8	Master's programs implemented in this medical organization of higher and postgraduate education may include training in other laboratories, preferably in another country, thereby ensuring internationalization			+	
23	9	The medical education institution should explore the possibility of providing joint master's degree programs from both universities and joint leadership to support cooperation between higher education institutions.			+	
24	10	The medical education organization should ensure that the process of updating educational resources is carried out in accordance with changing needs, such as the recruitment of undergraduates, the number and profile of academic staff, the master's program.		+		
25	11	The medical education organization should be given sufficient autonomy in the distribution of resources, including procedures aimed at adequate remuneration of teachers in achieving the final learning outcomes.			+	
<b>Material and technical base</b>						
<i>A medical education organization must have material and technical support that meets the licensed indicators, which include the following criteria:</i>						
26	12	classrooms, laboratories and their equipment must be modern and adequate to the goals and objectives of the master's program;			+	
27	13	undergraduates should be provided with conditions for the implementation of independent educational and research work;			+	
28	14	renewal and improvement of the material and technical base should be carried out regularly.			+	
29	15	The medical education organization must have sufficient resources for the proper implementation of the master's program in order to ensure: - admission of undergraduates, - organization of training in the master's program, <input type="checkbox"/> dissertation work, - scientific guidance - advising undergraduates, <input type="checkbox"/> review, review and evaluation of the dissertation, - awarding an academic master's degree, - operating costs, <input type="checkbox"/> expenses for participation in training courses, in international scientific conferences, <input type="checkbox"/> payment for tuition in the magistracy in institutions where it is practiced; - undergraduate scholarships in conditions of variation of its size.			+	
30	16	The resource policy should be aimed at maintaining and ensuring the continuous professional growth of teachers of the master's program.			+	
31	17	A medical education organization should have a service and support service for future undergraduates, including a registrar office, research centers and laboratories, a canteen, a canteen, a			+	

		medical center, sports grounds and halls.				
32	18	The medical education organization must provide a safe environment for employees, undergraduates and those who ensure the implementation of the program, including providing the necessary information and protection from harmful substances, microorganisms, observing safety rules in the laboratory and when using equipment.		+		
33	19	The medical education organization has approved procedures for improving the learning environment for undergraduates through regular renewal, expansion and strengthening of the material and technical base, which should correspond to the development in teaching practice.		+		
<b>Information Technology</b>						
34	20	The medical education organization must have information support corresponding to the goals and objectives of the master's program.		+		
35	21	The library should contain materials necessary for training - educational, technical, scientific and reference literature, various medical periodicals, etc.	+			
36	22	The medical education organization must ensure that undergraduates will have timely and free access to library resources.		+		
37	23	The library should have basic technical equipment to support daily activities: fax machines, copiers, computers, printers available for public use, and a telephone with voice mail or answering machine.		+		
38	24	The library must have an information website. A website may include the following elements: links, interlibrary loan forms, full-text electronic journal articles, and a feedback form.	+			
39	25	The medical education organization should regularly monitor library resources, study and implement strategies to meet the existing and future needs of undergraduates.		+		
40	26	Undergraduates should use computer classes and terminals with access to information resources (local network, Internet).		+		
41	27	In a medical education institution, accessibility and adequate use of information resources by undergraduates should be monitored.		+		
42	28	The medical educational organization should constantly update, improve and expand the base of information resources with the provision of access for undergraduates to modern electronic databases, including foreign databases (Thomson Reuters (Web of Science, Thomson Reuters), Scopus, Pubmed, Elsevier, etc. .).		+		
43	29	A medical education organization must open and constantly update a section on its website dedicated to master's programs containing the following information: <input type="checkbox"/> structure and staff of the department of magistracy, duties of the head and employees of the department; <input type="checkbox"/> admission policy, including clear rules on the selection process for undergraduates; <input type="checkbox"/> list of master's programs; <input type="checkbox"/> structure, duration and content of master's programs; <input type="checkbox"/> criteria for the appointment of a supervisor, outlining the characteristics, duties and qualifications of the supervisor; <input type="checkbox"/> methods used to assess undergraduates; <input type="checkbox"/> criteria for designing and writing a dissertation; <input type="checkbox"/> description of the procedure for defending a dissertation work; <input type="checkbox"/> description of the work of the State Attestation Commission for the defense of master's theses; <input type="checkbox"/> program of quality assurance and regular evaluation of the master's program; <input type="checkbox"/> information about undergraduates, taking into account the			+	



		year of study; - information about the employment of graduates of the master's program for the last 3 years, taking into account the direction of study (scientific and pedagogical, specialized).				
<b>Total :</b>			<b>3</b>	<b>21</b>	<b>5</b>	<b>0</b>
<b>Standard 3 "POLICY AND CRITERIA FOR ADMISSION"</b>						
44	1	The medical education organization must establish a relationship between the selection of undergraduates and the mission of the medical education organization, the educational program and the requirements of the labor market		+		
45	2	The medical education institution must define and implement an admissions policy, including a clearly defined regulation on the selection process for undergraduates.		+		
46	3	Candidates for the master's program must have completed professional higher education programs (basic medical / pharmaceutical / chemical, higher professional (basic medical + internship) or postgraduate education (residency).		+		
47	4	A medical education organization should have a system/mechanisms for career guidance aimed at selecting applicants for the chosen specialty of the magistracy		+		
48	5	The medical education organization should determine the structure responsible for organizing the admission and selection of undergraduates, developed and approved rules / admission criteria based on the established standard rules for admission to the magistracy for higher educational institutions, dissemination of information to the general public.		+		
49	6	When selecting future undergraduates, one should evaluate the research potential of the applicant, and not just take into account his academic performance.			+	
50	7	In a medical education organization, there should be a system for studying employment, demand, career support and continuous professional development of graduates.		+		
51	8	The data obtained through this system should be used to further improve educational programs.		+		
52	9	The medical education organization should ensure that the process of updating and restructuring the educational program of the master's program leads to the adaptation of the admission policy for undergraduates, taking into account changing expectations and circumstances, needs for human resources, changes in the postgraduate education system and the needs of the program.		+		
			<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>
<b>Standard 4 "MASTER'S PROGRAM"</b>						
<b>Model of the educational program, teaching methods and structure</b>						
53	1	The medical education organization must ensure that the educational program is developed on the basis of an integrated, comprehensive, competence-oriented approach, using modular learning technologies.		+		

54	2	The medical education organization must determine the purpose and objectives of the master's program, which are aimed at achieving the mission of the educational organization, the mission of the educational program and the final learning outcomes.		+		
55	3	The medical education organization must ensure that the content of the educational program meets the requirements of the State Educational Standards and the standard curriculum of the relevant specialty and is developed taking into account the needs of the labor market		+		
56	4	The medical education organization must ensure the implementation of the educational program with the relevant working curricula, academic calendar, curriculum for disciplines, forms of an individual curriculum for future undergraduates and an individual work plan for a undergraduate		+		
57	5	The master's program must be based on the performance of original research, which requires analytical and critical thinking and must be carried out under scientific supervision.		+		
58	6	The medical education organization must ensure that the educational program is implemented in accordance with the principles of equality.		+		
59	7	The medical education organization should provide mechanisms that guarantee the fulfillment of obligations by future undergraduates in relation to doctors, teachers, patients and their relatives in accordance with the Code of Conduct / Code of Honor approved in this medical organization of higher and postgraduate education.		+		
60	8	The master's program must ensure that undergraduates are taught the rules of ethics and the responsible conduct of scientific research.		+		
61	9	The medical education organization should determine the methods of teaching and learning that are appropriate for the educational program and the achievement of students' competencies.		+		
62	10	The master's program should be structured with a clear time limit equivalent to 1-2 years full-time and contain:		+		
63	11	- theoretical training, including the study of cycles of basic and major disciplines;		+		
64	12	- practical training of undergraduates - various types of practices, professional internships;		+		
65	13	- research work, including the implementation of a master's thesis for scientific and pedagogical magistracy;		+		
66	14	- experimental research work, including the implementation of a master's thesis for a specialized master's program;			+	

67	15	- intermediate and final certification.		+		
68	16	The medical education organization should provide mechanisms for the implementation of pedagogical practice (in accordance with the type of master's degree) for the formation of practical skills and teaching methods in undergraduates.				
<b>Graduate Program Evaluation</b>						
69	17	A medical education organization should have a program for monitoring processes and results, including the routine collection of data on key aspects of the educational program. The purpose of monitoring is to ensure the quality of the educational process, to identify areas requiring intervention.		+		
70	18	A medical education organization should have approved mechanisms for regular program quality assessment, including feedback from academic supervisors, employers and undergraduates.		+		
71	19	The medical education organization should have mechanisms aimed at systematic collection, analysis of feedback and providing it to teachers and undergraduates, which will include information about the process and products of the educational program, including information about bad practice or inappropriate behavior of teachers or undergraduates.		+		
<i>The medical education organization should ensure that the process of updating and restructuring is carried out regularly and is aimed at:</i>						
72	20	- adaptation of the model of the educational program and methodological approaches in training in order to ensure that they are appropriate and appropriate;		+		
73	21	- adjustment of the elements of the program and their relationship in accordance with advances in the medical sciences, with changes in the demographic situation and the state of health / structure of the incidence of the population and socio-economic, cultural conditions.		+		
<b>Stakeholder Engagement</b>						
74	22	The medical education organization must ensure that the teaching staff, undergraduates, administrative and managerial personnel, and employers will be involved in the monitoring program and activities for evaluating the educational program.		+		
75	23	The medical education organization should involve other stakeholders in the assessment process, including representatives of academic and administrative staff, members of the public, authorized bodies for education and health care, professional organizations, and employers.		+		
76	24	The medical education organization should have mechanisms for providing access to the results of the evaluation of the educational program of all interested parties.			+	
77	25	The medical education organization should ensure that the process of updating and restructuring leads to an improvement in the process of monitoring and evaluation of the program in		+		

		accordance with changes in the learning outcomes and teaching and learning methods.				
			<b>Total :</b>	<b>0</b>	<b>23</b>	<b>2</b>
<b>Standard 5 "RESEARCH SUPERVISION"</b>						
78	1	The medical education institution must ensure that it assigns to each undergraduate a supervisor, and in appropriate cases, a co-supervisor, in order to cover all aspects of the program.		+		
79	2	A medical education organization should have mechanisms/procedures that regulate the process of discussing and approving the candidacy of a supervisor and a research topic for a master student in accordance with the standard requirements and SCES.		+		
80	3	The medical education organization must ensure that the candidates for supervisors will be selected from specialists who have a scientific degree and are actively engaged in scientific research in the field of science in the specialty of undergraduate education.		+		
81	4	The medical education organization should have clearly defined duties and responsibilities of the supervisor.		+		
82	5	A medical education organization should plan and organize training courses for scientific supervisors on the policy of implementing master's programs, the main duties of scientific supervisors.		+		
83	6	A medical education organization should have procedures/mechanisms/structures that organize and control the scientific activities of future undergraduates to complete a dissertation research.		+		
84	7	The medical education organization must determine, approve and publish the principles, methods and practices that will be used to evaluate undergraduates, including criteria for evaluating scientific work.		+		
			<b>Total :</b>	<b>0</b>	<b>7</b>	<b>0</b>
<b>Standard 6 "MANAGEMENT AND ADMINISTRATION"</b>						
<b>Program Management</b>						
85	1	The management of a medical education organization must be effective and ensure the improvement of the educational program.		+		
86	2	The medical education organization must ensure that training in the magistracy is carried out only on a full-time basis.		+		
87	3	The medical education organization must determine the structural unit responsible for the implementation of educational programs of postgraduate education and the achievement of the final learning outcomes.		+		
88	4	The structural unit responsible for the implementation of educational programs of postgraduate education should have the authority to plan and implement the educational program,		+		

		including the allocation of allocated resources for the planning and implementation of teaching and learning methods, assessment of undergraduates, assessment of the educational program and courses of study.				
89	5	The medical education organization must guarantee the interaction of undergraduates with management on the design, management and evaluation of master's programs.		+		
90	6	The medical education organization should encourage and facilitate the involvement of undergraduates in the process of developing educational programs for the preparation of undergraduates.		+		
91	7	The structural unit responsible for the implementation of educational programs of postgraduate education must ensure the transparency of the management system and decisions that are published in bulletins, posted on the website of the university, included in the protocols for review and execution.		+		
92	8	The medical education organization should, through the structural unit responsible for the implementation of educational programs of postgraduate education, plan and implement innovations in the educational program.		+		
93.	9	The medical education organization should invite representatives from other relevant stakeholders to take part in the advisory council. It increases responsibility for the implementation of educational programs of postgraduate education, including other participants in the educational process, representatives from clinical and industrial bases, graduates of medical education organizations, health care / pharmacy professionals involved in the learning process or other teachers of the faculties of the university.		+		
94	10	The medical education organization should ensure that the structural unit responsible for the implementation of educational programs of postgraduate education:		+		
95	11	- takes into account the peculiarities of the conditions in which graduates will have to work and, accordingly, modify the educational program;		+		
96	12	- considers the modification of the educational program based on feedback from the public and society as a whole.		+		
<b>Academic Leadership</b>						
97	13	The medical education organization must clearly define the responsibility of the academic leadership in relation to the development and management of the educational program.		+		
98	14	The medical education organization should periodically evaluate the academic leadership regarding the achievement of its mission and the final learning outcomes.		+		
<b>Training budget and resource allocation</b>						

99.	15	The medical education organization must: - have a clear terms of reference and authority to provide the educational program with resources, including the target budget for education; - allocate the resources necessary for the implementation of the educational program, and distribute educational resources in accordance with their needs.		+		
10	16	The system of financing a medical educational organization should be based on the principles of efficiency, effectiveness, priority, transparency, responsibility, differentiation and independence of all levels of budgets.		+		
10	17	Financial and administrative policies should be aimed at improving the quality of the educational program.		+		
<b>Administrative staff and management</b>						
10	18	A medical education organization must have an appropriate administrative and academic staff, including their number and composition in accordance with qualifications, in order to: - ensure the implementation of the educational program and relevant activities; - ensure proper management and allocation of resources.		+		
10	19	The medical education organization should develop and implement an internal management quality assurance program, including consideration of needs for improvement, and conduct regular management review and analysis.		+		
104	20	The medical education organization must ensure the implementation of the master's program in accordance with the quality management system certified by independent organizations.		+		
<b>Engagement with the health sector</b>						
10	21	The medical education organization should have a constructive interaction with the health sector, with related sectors of health, society and government, including the exchange of information, cooperation and initiatives of the organization, which contributes to the provision of qualified specialists in accordance with the needs of society.		+		
10	22	The medical education organization must provide an operational link between the educational program and the subsequent stages of professional training.		+		
10	23	A medical education organization should be given official status of cooperation with partners in the health sector, which includes the conclusion of official agreements defining the content and forms of cooperation and / or the conclusion of a joint contract and the creation of a coordinating committee, and holding joint events.		+		
Total :			0	23	0	0
<b>Standard 7 "CONTINUOUS IMPROVEMENT"</b>						
<i>The medical education organization must ensure that, as a dynamic and socially responsible institution, it will:</i>						
10	1	initiate procedures for regular review and revision of content, results/competences, assessment and learning environment, structure and functions, document and eliminate deficiencies;		+		
10	2	allocate resources for continuous improvement.		+		
<i>The medical education organization should:</i>						
11	3	base the updating process on forward-looking research and analysis and on the results of their own research, evaluation and literature on postgraduate medical education;		+		

11	4	ensure that the process of renewal and restructuring leads to a revision of its policies and practices in line with previous experience, current activities and prospects.		+		
<i>Medical education organization in the process of updating / continuous improvement should pay attention to:</i>						
11	5	adaptation of the mission and end results of postgraduate medical education to the scientific, socio-economic and cultural development of society for the future;		+		
11	6	modification of the intended outcomes of postgraduate education in the chosen field of health in accordance with the documented needs of the environment. Changes may include adjusting the structure and content of the educational program, the principles of active learning. The adjustment will ensure, along with the exclusion of obsolete ones, the assimilation of new relevant knowledge, concepts, methods and concepts based on new achievements in the basic biomedical, clinical, behavioral and social sciences, taking into account changes in the demographic situation and the structure of the population on public health issues, as well as changes in socio-economic and cultural conditions;		+		
11	7	development of assessment principles, methods of administration and number of examinations in accordance with changes in learning outcomes and teaching and learning methods;		+		
11	8	adapting the recruitment and selection policy for master's students, taking into account changing expectations and circumstances, staffing needs, changes in the postgraduate education system and the needs of the educational program;		+		
11	9	adapting the recruitment policy and the formation of the academic staff in accordance with changing needs;		+		
11	10	improvement of the process of monitoring and evaluation of the educational program.		+		
11	11	The medical education organization must ensure that the improvement of the organizational structure and management principles will be aimed at ensuring effective operation in the face of changing circumstances and needs, and, in the long term, at meeting the interests of various stakeholder groups.		+		
		<b>Total</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>
		<b>Total in general</b>	<b>3</b>	<b>107</b>	<b>8</b>	<b>0</b>