

To the Accreditation Council of the
Eurasian Centre for Accreditation and
Quality Assurance in Education and
Health Care
May 17, 2024

**REPORT
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF THE
EVALUATION OF THE EDUCATIONAL PROGRAMME
7R01117 "ONCOLOGY (ADULT)"
OF THE NJSC "MEDICAL UNIVERSITY OF KARAGANDA" FOR
COMPLIANCE WITH THE STANDARDS FOR ACCREDITATION OF
POSTGRADUATE EDUCATION PROGRAMMES (RESIDENCE
SPECIALTIES) OF MEDICAL EDUCATIONAL ORGANIZATIONS**

Period of external expert evaluation: May 15-17, 2024

Karaganda, 2024

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LIST OF DESIGNATIONS AND ABBREVIATIONS

Abbreviation	Designation
ECAQA	Eurasian Centre for Accreditation and Quality Assurance in Education and Health Care
WFME	World Federation for Medical Education
MSHE RK	Ministry of Science and Higher Education of the Republic of Kazakhstan
AC	Academic Committee
AP	Academic Policy
CPS	Certification of Practical Skills
HEI	Higher Education Institution
SCES	State Compulsory Education Standard
DAA	Department of Academic Affairs
DET	Distance Educational Technologies
DI and ID	Department of Informatization and Infrastructure Development
DHRM	Department of Human Resources Management
UHEMS	Unified Higher Education Management System
FCC	Final Certification Commission
End-of-course assessment	End-of-course assessment
IEP	Individual educational plan
IWP	Individual Work Plan
CDD	Clinical Diagnostic Department
CDC	Clinical Diagnostic Center
IMIS	Integrated Medical Information System
CED	Catalog of Elective Disciplines
QACS	Quality Assurance Commission of the School of Residency and Professional Development
MSE	Municipal State-Owned Enterprise
MOH	Ministry of Health
LEA	Local executive authorities
NJSC MUK	Non-Commercial Joint-Stock Company "Medical University of Karaganda"
NCIE	National Center for Independent examinations
RW	Research work
STP	Scientific and technical project
RCCH	Regional Children's Clinical Hospital
RCH	Regional Clinical Hospital
EP	Educational programme
ICU	Intensive care unit
ARA	Admission Rating Assessment
EDI	Especially dangerous infections
MC	Major competencies
Academic staff	Academic staff
LO	Learning outcome
WC	Working curriculum
SSS	Student support service
IWR	Independent work of residents

IWRT	Independent work of residents with teachers
SRC	Student research club
Mass media	Mass media
CSET	Center for simulation and educational technologies
SR and PD	School of residency and professional development
CBL	Case-based learning
ECTS	European Credit Transfer and Accumulation System

1. Composition of the External Expert Commission

In accordance with the order of the ECAQA No. 15 dated 02.05.2024, the External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation of the educational programme of the residency in the specialty 7R01117 "ONCOLOGY (ADULT)" of the NJSC "Medical University of Karaganda" in the period from May 15 to 17, 2024, in the following composition:

No.	Status in the EEC	Full name	Academic degree/title, position, place of work/place of study, year, specialty
1	Chairman	Zhanalina Bakhyt Sekerbekovna	Doctor of Medical Sciences, Professor of the Department of Surgical and Paediatric Dentistry of the NJSC "West Kazakhstan Medical University named after Marat Ospanov"
2	International Expert	Nasyrov Ruslan Abdullaevich	Doctor of Medical Sciences, Professor, Vice-Rector for Research, Head of the Department of Pathological Anatomy with a Course in Forensic Medicine of the St. Petersburg State Paediatric Medical University of the Ministry of Health of the Russian Federation, Member of the New York Academy of Sciences
3	International Expert	Troinich Yana Nikolaevna	Vice-Rector for Social and Educational Work of the Armenian-Russian International University "Mkhitar Gosh", translator of medical literature - Logosfera Publishing House. Member of the Student Scientific Society at the Department of Histology of the Perm State Medical University. Head of the Student Scientific Society at the Department of Histology of the Perm State Medical University.
4	Academic Expert	Zhumalina Akmaral Kanashevna	Doctor of Medical Sciences, Professor, Head of the Department of Paediatric Diseases with a Course in Neonatology, NJSC "West Kazakhstan Medical University named after Marat Ospanov "
5	Academic Expert	Madyarov Valentin Manarbekovich	Doctor of Medical Sciences, Head of the Department of Surgery with a Course in Anaesthesiology and Resuscitation, NJSC "Kazakh-Russian Medical University"
6	Academic Expert	Nugmanova Aigul Maratovna	Doctor of Medical Sciences, Head of the Department of Paediatrics with a Course in

			CID, NJSC "Kazakh-Russian Medical University"
7	Academic Expert	Apbasova Saulesh Akhatovna	Candidate of Medical Sciences, Assistant of the Department of Pathological Anatomy and Forensic Medicine named after Professor Yu.V. Pruglo, NJSC "Semey Medical University"
8	Academic Expert	Yesetova Gulstan Utegenovna	Candidate of Medical Sciences, Head of the Department of Pulmonology, NJSC "Kazakh National Medical University named after S.D. Asfendiyarov"
9	Academic Expert	Sadykova Ainur Maralovna	Candidate of Medical Sciences, Associate Professor of the Department of Infectious and Tropical Diseases, NJSC "Kazakh National Medical University named after S.D. Asfendiyarov". Member of the working groups for preparation and participation in the National Ranking of Educational Programmes of the National Chamber of Entrepreneurs "ATAMEKEN", for conducting institutional accreditation.
10	Academic Expert	Tuksanbaeva Gulfariza Usenbaevna	Candidate of Medical Sciences, Acting Professor of the Department of Neurology, Psychiatry, Rehabilitation and Neurosurgery of the South Kazakhstan Medical Academy
11	Academic Expert	Iztleuov Yerbolat Maratovich	Candidate of Medical Sciences, Head of the Department of Radiology, NJSC "West Kazakhstan Medical University named after Marat Ospanov ", member of the local ethics commission on research work, internal auditor of the quality management service
12	Academic Expert	Pak Laura Alekseevna	PhD, Director of the Department of Higher Education of NJSC "Semey Medical University", Chairman of the State Unitary Enterprise Committee for the specialty "Oncology"
13	Academic Expert	Kamhen Vitaly Bronislavovich	PhD, Associate Professor, Associate Professor of the Department of "Health Policy and Organization" of NJSC "Kazakh National University named after Al-Farabi"
14	Employer Expert	Daniyarova Bayan Lashinovna	Head of the MSE "CDC Regional Clinical Hospital" of the Health Department of the Karaganda Region
15	Student Expert	Dyusembek Nazira Askerbekkyzy	Resident of the 2nd year of study in the specialty "Adult and Pediatric Neurology" of the NJSC "Astana Medical University"
16.	ECAQA Observer	Umarova Makpal Aldibekovna	Head of the Accreditation and Monitoring Department of the NI "Eurasian Centre for Accreditation and Quality Assurance in Education and Health Care".

The EEC report includes a description of the results and the conclusion of the external evaluation of the educational programme **7R01117 "ONCOLOGY (ADULT)"** for compliance with the Standards for Accreditation for postgraduate education programmes (residency specialties) of medical educational organizations and conclusions (hereinafter referred to as the Standards for Accreditation), recommendations of the EEC for further improvement of approaches and conditions for the implementation of the above-mentioned educational programme and recommendations for accreditation for the ECAQA Accreditation Council for Accreditation.

2. General part of the final report

2.1 Presentation of the educational residency programme in specialty 7R01117 "ONCOLOGY (ADULT)" of the NJSC "Medical University of Karaganda"

Name of the organization, legal form of ownership, BIN	Non-profit Joint-Stock Company "Karaganda Medical University of Karaganda", BIN: 190140033600
Management body	Sole shareholder - Ministry of Health of the Republic of Kazakhstan, Management body - Board of Directors, executive body - Management Board
Full name of the first director	Turmukhambetova Anar Akyzbekovna, Chairman of the Management Board - Rector
Date of establishment	The University was founded in 1950. RSE on the REM "Karaganda State Medical University" was reorganized into NJSC "Medical University of Karaganda" on the basis of order No. 82 of the Ministry of Finance of the Republic of Kazakhstan dated 01/25/2019
Location and contact details	Republic of Kazakhstan, Karaganda region, Karaganda, st. Gogolya, 40, 100008
State license for educational activities in residency (date, number)	License for educational activities No. KZ32LAA00016018 dated 06.05.2019
Year of commencement of the implementation of the accredited educational programme (EP)	Start year - 2018 Total number of graduates since the beginning of the residency programmes - 47 people.
Duration of training	3 years
Number of residents in the current academic year	1st year - 7 residents 2nd year - 10 residents
Quality indicators in residency	Number of residents in the program "Oncology (Adult)" expelled over a period of 5 years - 6 people, including for academic failure - 0 people. Employment rate, % in dynamics over 5 years: 2019 – 100% 2020 – 100% 2021 – 100% 2022 – 100% 2023 – 100%
Full-time teachers/part-time workers involved in the implementation of the EP, incl. % of Sedateness	Total number of teachers - 3, including full-time – 3, part-time - 11. Sedateness, % - 100% Categorization, % - 100%..
Name of the organization, legal form of ownership, BIN	Non-profit joint-stock company "Medical University of Karaganda"

The training of residents in the educational program "Oncology (Adult)" was first launched at the Karaganda State Medical Institute (KSMI) in 2009. Following the reorganization of the university in 2019 into the Non-Commercial Joint-Stock Company "Medical University of Karaganda" (NJSC "MUK"), residency training in the specialty "Oncology (Adult)" continued in accordance with the State Educational Standard No. 647 (2015). The educational program 7R01117 – "Oncology (Adult)" was developed and included in the Registry of Higher and Postgraduate Education Programs in 2020 and was subsequently updated in the registry in 2023 in compliance with the State Educational Standard No. 63 (2022).

The implementation of the residency educational program 7R01117 – "Oncology (Adult)" at NJSC "Medical University of Karaganda" is carried out in accordance with the appendix to the license for training specialists No. KZ32L-AA0016018, issued on May 6, 2019. Admission to residency at NJSC "MUK" is based on a competitive selection process following the results of an entrance exam. Preference in admission is given to candidates with the highest scores in the educational program group profile. Enrollment in the residency program can be funded through a state educational grant, supported by republican or local budgets, as well as through self-funded tuition or other financial sources.

The mission of the university is aimed at fostering societal development, improving health, and enhancing the quality of life in Kazakhstan by achieving excellence in science, education, and practice. The mission of the residency educational program "Oncology (Adult)" is aligned with the institutional mission of the university and focuses on training highly qualified specialists capable of meeting society's needs for oncological medical care, applying and advancing cutting-edge innovations in medicine, science, and practice, and utilizing information and communication technologies to strengthen public health. Specialists must be prepared to adapt to evolving healthcare systems at both the national and global levels, engage in lifelong learning, and contribute to the development of society.

The goal of training residents in the field of oncology is to ensure high-quality medical care for patients with pre-tumor and tumor diseases, utilizing a wide range of practical opportunities. The duration of residency training in the specialty "Oncology (Adult)" is 2 years.

In 2019, the educational program "Oncology (Adult)" was accredited by the Independent Kazakhstan Agency for Quality Assurance in Education (registration number: IAAR AB 2589). As part of the specialized accreditation, recommendations were provided regarding the involvement of foreign lecturers within the framework of academic mobility and the use of the experience of international partner universities in the development of the educational program.

Additionally, improvements were recommended in the assessment process of residents' practical skills, the conduct of scientific research within the training program, as well as the active involvement of key stakeholders in the monitoring and evaluation of the residency educational program.

2.2 Information about previous accreditation

In 2019, the EP in the residency specialty "Oncology (Adult)" was accredited by the Independent Agency for Accreditation and Rating (hereinafter referred to as IAAR) and has an accreditation certificate AB No. 2587/2, the validity period of the accreditation certificate: 06/14/2019-06/13/2024. https://epvo.kz/#/register/education_program/application/31212

2.3 Brief description of the results of the analysis of the self-assessment report of the educational programme of residency in the specialty "Oncology (Adult)" of the NJSC "Medical University of Karaganda" and conclusions on the completeness

The Self-Assessment Report of the residency educational program in the specialty "Oncology (Adult)" (hereinafter referred to as the report) consists of 110 pages of the main text, 17 pages of appendices, and copies or electronic versions of documents available via the link:

<https://drive.google.com/file/d/1t7KPIBWoeLnFQlhAqqHl3XhanHH8uAUA/view>.

The report is characterized by completeness in addressing all 9 main accreditation standards and criteria, structured in accordance with the recommendations of the Guide for Conducting Self-

Assessment of the Educational Program, provided to the educational organization by the ECAQA accreditation center, and internal consistency of information. The report is accompanied by a cover letter signed by the Chairman of the Board – Rector Turmukhambetova Anar Akyzbekovna, confirming the accuracy of the quantitative data and information included in the self-assessment report.

The report includes a list of 8 members of the internal self-assessment commission, indicating the responsibilities of each member, as well as information about the representative of the organization responsible for conducting the self-assessment of the educational program – Ernazarova Madina Ainullaevna, Chief Specialist of the Strategic Development and Quality Management Department.

The self-assessment of the educational program "Oncology (Adult)" was conducted based on the Rector's Order No. 396 dated October 17, 2023, "On the Approval of the Working Group Composition for Conducting the Self-Assessment of Educational Programs."

All standards reflect the actual practice of the University in training residents in the specialty "Oncology (Adult)", considering the admission of students since 2018, providing substantiated data, examples of program implementation, national and international events, and methodological support, confirming compliance with accreditation standards. The description in the self-assessment report is comprehensive and up to date, covering the number of residents, faculty, and administration, admissions and selection process, learning outcomes, knowledge and skills assessment results, material and technical resources of the university and clinical bases, contractual obligations with partners (universities, associations, training bases), financial information, and development and improvement plans.

The report was submitted to ECAQA in its finalized form, incorporating data corrections based on the aforementioned recommendations. It is written in a clear and professional language, with well-defined formulations for each standard, aligned with the accreditation criteria. The tables contain references in the text and continuous numbering.

3. Description of the external expert evaluation

The External expert work within the framework of the evaluation of the educational program "Oncology (adult)" of the NJSC "Medical University of Karaganda" was organized in accordance with the Guidelines for the external evaluation of educational organizations and educational programs of the ECAQA. Dates of the visit to the organization: 15-17.05.2024. The sequence of the visit over 3 days is presented in detail in Appendix 3 to this report

The following methods and their results were used by the EEC members to obtain objective information:

- interviews with management and administrative staff - 33 people;
- interviews with residents - 47 people;
- study of the website - <https://muk.qmu.kz/ru/ob-universitete/>;
- interviews - 35 teachers, employers - 17, graduates - 24;
- survey of teachers, postgraduates and residents - 53, 9 and 39, respectively;
- observation of resident training: attendance of practical classes at the clinical base of the City Hospital No. 3 (topic: Non-Hodgkin's lymphoma, teacher - associate professor of the Department of Oncology and Radiation Diagnostics - Bukenov A.M., contingent - 1st year residents);
- review of resources in the context of fulfilling accreditation standards: in the specialty "Oncology (Adult)", the expert visited the clinical base – Multidisciplinary Hospital (MH) No. 3 in Karaganda, where oncology residents are trained with the participation of 17 full-time teachers and 10 part-time workers;
- study of educational and methodological documents in the amount of 63 units both before the visit to the organization and during the visit to the departments (the list of documents studied is in **Annex 2**).

The staff of the accredited organization ensured the presence of all persons specified in the visit program and in the lists of interview sites and interviews (Table 1).

Table 1 - Information on the number and category of participants in meetings, interviews, and conversations with members of the EEC

№	Position	Quantity
1.	Members of the Board	3
2.	Heads of structural divisions	11
3.	School deans	2
4.	Heads of educational programmes	11
5.	Members of the Academic Committee of the Senate, the School Quality Assurance Commission for educational programmes (Master's programme, residency)	6
6.	Teachers	35
7.	Students	47
8.	Employers	17
9.	Graduates	24
	Total	156

On the last day of the visit to the organization, a meeting of the EEC members was held on the results of the external assessment. A final discussion of the results of the external evaluation of the educational program, examination of documents, results of the interview, conversations, and questionnaires was held. The EEC members began to draft the final report of the EEC. Generalizations of the results of the external assessment were made. The experts individually filled out the "Quality Profile and Criteria for External Assessment of the Educational Program "Oncology (Adult)" for compliance with the ECAQA Accreditation Standards". No comments were made by the EEC members. Recommendations for improving the educational program were discussed and the chairperson, B.S. Zhanalina, held a final open vote on the recommendations for the ECAQA Accreditation Council.

Comfortable and supportive conditions were created for the work of the External Expert Commission (EEC). Free access to all necessary information and material resources was provided, which allowed the commission members to carry out their functions properly.

Particular attention was paid to the organization of working conditions in order to ensure comfort and convenience during meetings, interviews and analysis of documentation. All necessary documents and materials were provided to the EEC in a convenient format and were available in accordance with their requests.

An important aspect is the high level of the University's corporate culture, which was noted by the members of the EEC. Interaction with the staff and administration of the University was based on mutual respect, professionalism and openness. The members of the commission noted the high degree of openness of the team in providing information and answers to all questions that arose, which contributed to a deeper understanding of the situation and the effective conduct of the examination. +

This approach allowed the EEC to obtain all the necessary information and evaluate the activities of the University with maximum accuracy and objectivity.

When conducting a survey of residents, 79.49% rated the work of the External Expert Commission for Accreditation as positive, 20.51% as satisfactory. The majority of respondents (79%) believe that it is necessary to conduct accreditation of an educational organization or educational programs.

According to 88% of teachers, the survey conducted by the ECAQA is useful for developing recommendations for improving key areas of activity of the accredited educational organization.

At the end of the visit, the chairman of the EEC announced recommendations for the management and employees of the educational organization based on the results of the external assessment as part of the specialized accreditation.

4. Analysis of compliance with standards for accreditation based on the results of an external evaluation of the educational programme of residency in the specialty "Oncology (Adult)" of the NJSC "Medical University of Karaganda"

Standard 1: MISSION AND FINAL OUTCOMES

1.1 Mission statement

The mission of the educational program "Oncology (Adult)" is "To train competent medical oncologists who will provide high-quality, evidence-based diagnostic, therapeutic, supportive, rehabilitative, and palliative care to patients with pre-cancerous and cancerous conditions, utilizing the full range of practical resources and delivering this education in a supportive learning environment." This mission aligns with the university's mission to contribute to societal development, improve public health, and enhance the quality of life in Kazakhstan by achieving excellence in science, education, and practice.

During the implementation of the program's activities, interviews with the institution's top management, Senate members, residents, and faculty confirmed compliance with **Standard 1** criteria. All participants in the educational process are aware of the program's mission and were involved in developing proposals for its formulation. The mission is communicated to prospective residents through the university website, social media, and informational letters sent to medical organizations. The university's 5-year Development Plan (2024–2028) was reviewed, covering areas such as education, science, and clinical practice. This confirms compliance with accreditation standards and demonstrates the organization's goals, objectives, and future directions. Interviews with residents revealed that before the start of classes, instructors inform them about the program's mission, the institution's operational plans, and where to access necessary information about the program, faculty, and training facilities.

During visits to educational departments, the experts noted several strengths of the educational organization concerning the accredited program, including:

- The implementation of a credit-modular system and a competency-based approach with a focus on clinical training;
- The application of a student-centered learning approach;
- The availability of sufficient clinical training facilities that provide a comfortable learning environment;
- The involvement of highly qualified healthcare professionals as clinical mentors in the educational process;
- Education based on the integration of science and practice, involving research activities with the publication of research findings.

The university has departments directly related to the educational program, such as the Department of Academic Affairs and the SR and PD, which can be recognized as best practices in education. Specifically, there is a positive trend in the involvement of the Department of Academic Affairs in the development of the educational program and in training the teaching staff regarding integrated education.

The results of the document review demonstrate that the university's mission and the mission of the "Oncology (Adult)" educational program are aligned, and the educational process is organized in accordance with the State Compulsory Education Standard (SCES) and current regulatory legal acts (RLA) in postgraduate education and healthcare. The educational organization trains oncology residents at the clinical base of Multidisciplinary Hospital No. 3 (Karaganda, Amanzholov St., 189) in departments of chemotherapy, surgery, radiation therapy, pathological morphology, and others. The institution ensures a patient-centered approach by providing residents with broad access to patients in a multidisciplinary medical facility and during off-site training. The educational organization pays due attention to patient safety and autonomy by implementing modern communication and training methods aimed at increasing patient awareness of their health and treatment. This includes holding

informational sessions, developing clear and accessible informational materials, and supporting informed decision-making by patients according to their individual needs and preferences.

Experts confirmed that residents have appropriate working conditions to support their own health, as the educational organization provides safe conditions during residents' training. Before starting work, residents undergo mandatory safety training and sign an acknowledgment form. Additionally, every resident must undergo a medical examination and have a health booklet with work clearance before starting work in the clinic. Along with other students and trainees of the university, residents strictly comply with sanitary and epidemiological regulations both on the university premises and at the clinical base of Multidisciplinary Hospital No. 3.

The core competencies of residents in the accredited specialty include clinical skills, communication, professionalism, knowledge of regulatory legal acts (RLA), research, and personal and professional development. Additionally, the specialized competencies encompass:

- Performing clinical assessments of the patient's condition and physical examination, as well as interpreting clinical information.
- Developing an examination plan, selectively prescribing and conducting appropriate diagnostic tests, establishing a diagnosis, determining the disease stage and prognostic factors, and setting multidisciplinary treatment goals.
- Administering prescribed treatments, monitoring the effectiveness and safety of therapy, and assessing treatment toxicity based on clinical and laboratory findings.
- Providing supportive and palliative care, along with medical rehabilitation.
- Working in a team, including serving in a consultative role in most clinical situations, demonstrating proficiency in written and verbal communication, and maintaining accurate, timely, and legible records/reports and electronic medical documentation.
- Communicating with patients and their families to explain diagnoses, plan treatments, discuss the risks and benefits of antitumor therapy, and set expectations for outcomes.
- Collaborating with the treatment team, including nursing staff and diagnostic service specialists, to coordinate and deliver care, and recognizing the limits of personal knowledge in clinical situations.
- Adhering to ethical principles in patient care, confidentiality, informed consent, and professional practice, including compliance with relevant laws, policies, and regulations.
- Operating within the healthcare legislation of the Republic of Kazakhstan, ensuring patients' rights, maintaining confidentiality, adhering to medical secrecy, following the Code of Honor for medical and pharmaceutical workers of the Republic of Kazakhstan, and complying with regulations on surgical interventions, blood transfusions and its components, and the use of invasive diagnostic methods.
- Utilizing electronic accounting systems and international databases in routine practice and for solving creative and research tasks.
- Sustaining and improving professional performance through continuous learning, identifying strengths, weaknesses, and limitations in their knowledge and experience, critically evaluating medical information and its sources, and applying it appropriately.

The fulfillment of these competencies enables the educational organization to implement innovative teaching methods, fostering residents' skills and qualities such as independence and responsibility.

The educational organization encourages residents to engage in research within their chosen specialty through elective courses such as "Research Management". Moreover, each resident is assigned a research topic, which is included in their Individual Development Plan immediately after the start of their training. Within this framework, residents collect scientific materials during their Independent Problem-Solving Work. Subsequently, the collected data is analyzed and discussed during practical classes. This process helps residents strengthen their research skills by studying and analyzing current scientific materials obtained from various sources such as PubMed, Elsevier, the Cochrane Library, and Clinical Trials.

1.2 Professionalism and professional autonomy

Experts have determined that the development of professionalism includes mastering specialized competencies throughout the educational process, contributing to the continuous growth of both personal and professional skills. This encompasses the consistent integration of medical ethics principles into clinical practice and the enhancement of communication skills for effective information exchange and collaboration with patients, their families, and medical colleagues. The use of information technology is also a crucial part of this process. Additionally, this approach ensures patient-centered care, incorporating appropriate and effective treatment and disease prevention measures. The educational organization promotes the professional autonomy of residents by providing opportunities for active participation in decision-making and the execution of medical procedures under the supervision of experienced mentors and instructors. This includes access to clinical cases, practical training, and simulation exercises, all of which contribute to the development and consolidation of professional skills in a controlled and supportive environment. Furthermore, the organization offers residents opportunities to participate in scientific research, attend conferences, and engage in knowledge exchange with peers, fostering their professional growth and building confidence in their abilities.

Experts have determined that the educational organization fully exercises autonomy in selecting residents for the "Oncology (Adult)" educational program, developing the educational program, and defining assessment approaches for oncology residents. According to the Academic Policy of NJSC "MUK", the institution holds autonomy in line with its license for conducting educational activities (<https://cloud.mail.ru/public/ShSH/yJtGzaBtQ>) within educational program groups, as per the classifier of training areas and program development based on the current SCES and Model curriculum. Responsible staff members presented experts with a document outlining the requirements for residency program instructors according to the "Rules for Competitive Selection for Vacant Positions at NJSC 'MUK'" (approved by the Board of Directors on April 5, 2022, Protocol No. 5). Employment of residents is regulated by the program director, the SR and PD, together with the Graduate Placement Commission of JSC "Financial Center" under the Ministry of Science and Higher Education of the Republic of Kazakhstan, achieving a 100% employment rate.

During the development of the educational program, consultations were held with representatives of the employer—Multidisciplinary Hospital No. 3 in Karaganda—to consider the opinions and preferences of future employers regarding student training in this specialty. The "Oncology (Adult)" educational program was approved by the Chief Freelance Oncologist of the Karaganda Region, Director of the State Enterprise on the Right of Economic Management Multidisciplinary Hospital No. 3, G.S. Toksanbayev, and Deputy Director for Quality, O.S. Omarova.

To verify **Standard 1**, a meeting was held with the head of the organization—Chairwoman of the Management Board and Rector, Turmukhambetova Anar Akyzbekovna. During the discussion, experts asked questions regarding the university's autonomy in defining its mission/vision, financial resource management, and educational program development. In response, the organization's director confirmed that NJSC "MUK" maintains a certain level of autonomy in these areas.

The relationship between the University and its students is governed by several documents, including the "Internal Regulations for Students", the "Academic Policy", and the educational service agreement, which is signed with each student upon admission to the residency program. This agreement details the rights and responsibilities of students at the University, including the right to freely express their views and beliefs, freedom of conscience, and access to information.

The University implements a policy of student representation and their involvement in the development, management, and evaluation of educational programs. This is reflected in the Academic Policy of NJSC "MUK".

Oncology residents have a genuine opportunity to influence the organization of their specialty's educational program by participating in discussions and approval of core curricula, the development of Individual Development Plans, and elective courses during meetings of the Residency School Council and the Senate. An example of such participation is second-year oncology resident Albert Zhevlyakov,

who, due to his positive personal qualities and excellent academic performance, is a member of the Residency and Professional Development School Council.

A survey of 39 residents (on the resource <https://webanketa.com/>) included 22 questions, some of which focused on the quality of the educational process and program. It was found that 89.74% of residents would recommend this educational institution to their acquaintances, friends, and family. Additionally, 97.44% of respondents believe that educational program leaders and instructors are aware of students' learning-related issues. In response to the question, "Do you believe this educational institution provides the necessary knowledge and skills in your chosen specialty?" 97.44% of residents answered positively, while 2.56% were uncertain.

Surveyed faculty members (21 survey questions) also indicated that 80% are satisfied with the organization of their work and workplace conditions at the University, while 20% partially agree with this statement. Experts determined that the organization maintains a healthy work environment, as the leadership is accessible to both residents and staff and responds promptly to inquiries. According to the survey, 92% of faculty members are satisfied with the organizational climate, while 8% are partially satisfied. Additionally, 84% believe the University provides opportunities for professional development in their field. In total, 25 people responded to the survey, with 16% having teaching experience of up to 10 years and 84% with more than 10 years of experience.

1.3 Final learning outcomes

The learning outcomes are defined and included in the Educational Program 7R01117 "Oncology (Adult)", which was developed and approved by the Board of Trustees, Protocol No. 16 dated July 13, 2022. Stakeholders are informed about the final learning outcomes for residents specializing in "Oncology (Adult)" through explanations of the main directions of the educational program, provided directly by the program developers.

Experts confirmed that the professional behavior and communication skills of residents are developed through the acquisition of competencies and are reflected in the corresponding document—the Educational Program "Oncology (Adult)." Both faculty members and residents are informed about the Code of Ethics. The content of the Code of Ethics, approved by the Board of Directors (Protocol No. 4 dated August 24, 2019), <https://muk.qmu.kz/upload/medialibrary/muk-official/korporativnye-dokumenty/kodeks.pdf>.

When defining the final learning outcomes, the staff of the Department of Academic Affairs considered prior learning achievements from undergraduate and internship programs, as well as the goals and objectives of continuous professional development in the chosen specialty. The educational institution pays special attention to preparing graduates for further professional education in residency. For this purpose, competency areas for graduates have been developed and adapted to the educational level. Students planning to enter residency after their internship possess specific prerequisites that consider both basic and additional competency levels to ensure continuity in the educational process.

The surveyed teachers answered that 64% are fully satisfied with the level of previous training of residents, and 32% are partially satisfied.

Experts have established a clear continuity between the final results of the previous training of residents (prerequisites) and training in residency, and subsequent programs of continuous professional development. The organization has developed 60 programs of additional education, including for the specialty "Oncology". Residents are informed about this.

1.4 Participation in the formulation of the mission and final outcomes

The development of the goals and objectives of the educational program involved residents, employers, administrative staff, and academic staff. Representatives of oncology residents and employers are part of the university's collegial advisory bodies—the Senate of NJSC "MUK" and the Council of the SR and PD. Proposals such as the inclusion of interdisciplinary courses were implemented; for example, oncology residents now participate in integrated classes with the Department of Pathomorphology based on these suggestions. When new regulatory acts and orders in education and healthcare are issued, educational program developers consider input from healthcare practitioners and make appropriate adjustments.

Conclusions of the EEC on the criteria. Compliant with 14 standards (including 9 basic, 5 improvement standards): fully - 14, partially - 0, does not comply - 0.

Recommendations for improvement: none

Standard 2: EDUCATIONAL PROGRAMME

2.1 Framework parameters of the postgraduate medical education programme

The educational program model for the "Oncology (Adult)" specialty is based on the learning outcomes for residents and was approved at the meeting of the Academic Committee of the School of Professional Development and Residency (Protocol No. 4 dated June 7, 2019).

The structure of the 7R01117 "Oncology (Adult)" program includes various types of academic, clinical, and research activities that define the content of the training, reflecting the balance, volume, and complexity level. The workload for all activities is measured in credits, indicating the amount of material mastered.

The standard curriculum provides for two years of residency training with a total minimum of 4,200 hours (140 credits) and the qualification of "Oncologist", which complies with the State Educational Standard of the Ministry of Health of the Republic of Kazakhstan No. 63 dated July 4, 2022.

Additionally, as a mandatory requirement, the program includes elective components totaling 120 hours/4 ECTS credits within the core disciplines, along with a final certification totaling 60 hours/2 ECTS credits.

The list of mandatory courses is defined by the standard curriculum, specifying the workload of each academic subject in credits and academic hours, as well as each type of educational activity and examination. Working curricula are developed in accordance with the State Educational Standard of the Republic of Kazakhstan for 2022, the standard curriculum, and the educational program, which includes both core and elective disciplines. The list of elective courses is independently developed by the university, considering employer expectations and labor market demands.

During a practical session on the topic "Non-Hodgkin's Lymphomas", experts obtained convincing evidence that the training is conducted according to the plan. Before the session, residents take tests, receive feedback from the instructor, and have the opportunity to improve their fine-needle biopsy skills. The institution ensures compliance with ethical standards in the implementation of the educational program, as confirmed by the experts' review of the Code of Ethics <https://muk.qmu.kz/upload/medialibrary/muk-official/korporativnye-dokumenty/kodeks.pdf>, approved by the Board of Directors (Protocol No. 4 dated August 24, 2019). During interviews, residents confirmed their awareness of this document's content.

Practical training in the residency program is focused on gaining hands-on experience in the healthcare sector to develop professional and socially significant skills. The educational program emphasizes a close integration of theory and practice, with 80% of the program hours dedicated to residents' independent work, including clinical rotations and internships, allowing young specialists to directly participate in providing medical care in healthcare facilities. In accordance with the Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020, No. RK MOH-305/2020, which defines the nomenclature of specialties and specializations in healthcare and the qualification characteristics of healthcare workers' positions, and considering the implementation of practice-oriented training that involves residents' direct participation in medical care and increases their responsibility, four resident doctors are employed at MH No. 3 in Karaganda, and one resident doctor is employed at Regional Hospital in Abay.

An analysis of the educational activities revealed that the scientific foundation and all relevant scientific advancements in related disciplines have been considered, with updates made to the bibliography of Educational and methodological complex of disciplines (EMCD) and syllabi. Instructors actively incorporate these resources into their teaching.

The mentoring system, described in the document "Job Descriptions of Clinical Mentors", has been evaluated. There are 11 mentors whose tasks include: organizing and coordinating the practical training of residents, providing guidance and consultations during clinical work, assessing the professional development and competencies of trainees, supporting and motivating them in their learning process, interacting with academic mentors regarding the educational process, participating in the evaluation and improvement of curricula, developing their own skills and competencies as mentors, and providing feedback and recommendations for further development of the trainees. Clinical mentors also regularly undergo pedagogical training courses aimed at implementing innovations in the educational process. In December 2022 and 2023, all clinical mentors in the specialty "Oncology (Adult)" underwent training on the topic "Educational Technologies in Teaching Clinical Disciplines" for a total of 60 hours/2 credits.

The procedure for informing residents about their rights and responsibilities is outlined in the documents "Academic Policy of NJSC MUK" and "Regulations on Residency at NJSC MUK".

The qualification obtained upon completion of the educational program in the specialty "Oncology (Adult)" corresponds to Level 8 of the National Qualifications Framework (ESG1.2) and is designated as 7R01117.

Instructors use both traditional teaching methods (patient curation in clinical departments, clinical case discussions, solving situational problems, and discussing topics according to the lesson plan) and active learning methods such as CBL, small group work, multidisciplinary case discussions, journal clubs, simulation training (including emergency condition training in the CSET), and research-based learning (RBL). The list of teaching methods is described in the curriculum. These methods allow residents to participate in providing medical care to patients. Instructors can ensure that a resident curates approximately 1-2 thematic patients per day and 20 per month. For example, by the end of the educational program in the specialty "Oncology (Adult)", residents will be able to perform procedures such as fine-needle biopsy for breast tumors, lymph nodes, incisional biopsy from skin lesions, trepanobiopsy, etc.

Experts have determined that the educational organization fully implements the principles of academic integrity and anti-plagiarism. This is reflected in the document "Code of Academic Integrity", which is part of the Academic Policy of NJSC "MUK", approved by the Board on 27.08.2021, Protocol No. 1, with amendments and additions on 14.07.2022, Protocol No. 9. Academic integrity applies to all stages of the residents' education, including all types of assessments. Anti-plagiarism is applied when residents engage in scientific research. Residents are trained to obtain informed consent from patients for any diagnostic and therapeutic procedures. Experts noted that there is a corresponding document in patient medical records, signed by the patient.

Thus, by the end of their 2-year training, residents will acquire the essential skills and knowledge required for the profession of oncologist, enabling them to work in institutions such as oncology dispensaries/centers (ESG 1.2).

Experts found no violations regarding the principle of equality in postgraduate education and continuous professional development, as the educational organization adheres to the Constitution of the Republic of Kazakhstan, the Law on Languages of the Peoples of the Republic of Kazakhstan, and other regulatory acts in the fields of education and healthcare. Education in the residency program "Oncology (Adult)" is conducted with respect to the principles of equality among employees and students, regardless of gender, ethnic origin, religious beliefs, sexual orientation, socio-economic status, and physical abilities.

The organization has a mechanism for the regular adaptation of teaching methods to the requirements of modern science and education, as well as to the current needs of practical healthcare.

This demonstrates compliance with Standard 2 regarding the adaptation of education to the needs of residents. At the same time, alongside the principles of quality and academic integrity described in the documents "Academic Policy of NJSC MUK", and "Regulations on Residency at NJSC MUK", the organization has an anti-plagiarism system, "Strikeplagiarism.com."

2.2 Scientific method

During the interview with residents, experts learned that they use scientific data in their education and are familiar with the basics of evidence-based medicine. The instructors explained that they teach residents methods for critically evaluating literature, articles, and scientific data, as well as the application of scientific developments. This form of education is organized in the format of a "journal club", which is held once a month.

However, experts note that there are no specific hours dedicated to scientific activities, and all scientific work is conducted in collaboration with instructors as part of certain subjects. Additionally, the residents currently lack a background in conducting scientific research. Moreover, the elective courses only include "Research Management", which is not always available for selection.

While surveying residents, it was established that residents should be engaged in R&D in an educational organization, and in response to the questionnaire, 87% wrote that they were already engaged in R&D, 5% were planning to start, 7% were not engaged

2.3 Structure, content and duration of the residency programme

There are documents containing requirements for the structure and content of educational programs, including the "Oncology (Adult)" specialty. The responsibility for selecting and implementing innovations in the educational process lies with the head of the educational program, specifically the head of the oncology department, Kabildina N.A.

The content of the working programs and the catalog of elective courses reflects the needs of the healthcare system, including disciplines addressing new trends, such as vaccine-preventable infections, which are particularly relevant for oncology patients, as well as the specifics of scientific research and the achievements of the faculty members. To ensure the successful implementation of the "Oncology (Adult)" educational program, the organization has resources to assess residents' practical skills at the Center for Simulation and Educational Technologies (CSET).

The educational program includes the study of core disciplines as part of the mandatory component (134 credits/4080 hours), an elective component (4 credits/120 hours), and final assessment (2 credits/60 hours). The educational organization guarantees that the structure, content, and duration of the educational program will be adjusted in response to changes in various sciences, demographics, and the needs of the healthcare system.

Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes, in which 94.87% are completely satisfied, 5.13% are partially satisfied, 0% are not satisfied.

The organization has its own clinical base with 220 beds and corresponding outpatient visits. To the survey question "Is there sufficient time for practical training (patient supervision, etc.)", 97.44% of residents answered with full agreement, 2.56% partially agree. At the same time, 92.3% of residents claim that after the end of classes the teacher provides feedback (listens to your opinion, conducts a mini-questionnaire, works on mistakes).

At the same time, to the question "Do representatives of residents participate in the development of educational programs?", the experts received the following answer: residents of accredited specialties participate in the development of EP and advisory bodies.

The surveyed residents are completely satisfied with the schedule of classes (89%).

2.4 Organization of training and the relationship between postgraduate medical education and the provision of medical care

The management of the educational process, as outlined in the self-assessment report (Standard 2), and the general management approaches were confirmed during a visit to the Department of Academic Affairs and discussions with the leadership and staff.

Experts reviewed the work of the departments, conducting a total of 9 meetings.

Thus, the responsibility for selecting the clinical training bases and practice sites for residents in the "Oncology (Adult)" specialty lies with the head of the educational program and the university leadership. Experts analyzed the information regarding the accreditation of the clinical bases.

Resident training in the "Oncology (Adult)" specialty is aimed at meeting the practical healthcare needs. During discussions with the organization's leadership, experts obtained information

about 63 clinical bases affiliated with the University. Instructors confirmed that the training of residents is carried out directly at the oncology department's clinical base, located at MH No. 3 in Karaganda, which provides education for residents in the "Oncology (Adult)" specialty. This medical center offers a wide range of medical services to the adult population suffering from malignant tumors, both on an outpatient and inpatient basis. It includes clinical departments such as thoracic oncology, abdominal oncology, oncogynecology, chemotherapy, radiology, rehabilitation, and intensive care, as well as a dispensary (outpatient clinic). MB No. 3 has a total of 220 beds and provides diagnostic and therapeutic care in close collaboration with physicians from related therapeutic and surgical specialties. Participation in multidisciplinary case discussions and ensuring continuity of care for patients at the hospital level are crucial aspects of the clinic's work. In addition, the clinic has laboratories (clinical-biochemical, cytological, and pathological) and diagnostic departments (radiological diagnostics, including ultrasound, X-ray, MRI, and CT). There are also radiology departments with gamma blocks for providing specialized medical care to patients.

Mentorship plays a significant role in facilitating this process.

During a visit to a practical session on "Non-Hodgkin Lymphomas", experts observed that the organization supports the development of practical competencies among residents, including through simulation equipment. Simultaneously, residents deepen their theoretical knowledge and enhance their communication skills.

Of the 39 residents surveyed, 89.74% responded that teachers use active and interactive teaching methods in classes quite often, 7.69% believe that they rarely or sometimes.

When planning, discussing, approving, and reviewing the educational program for the "Oncology (Adult)" specialty, the following staff members participated: Kabildina N.A., PhD, associate professor, highest category, oncologist; Bukenov A.M., MD, professor, highest category, oncological surgeon; and Krukt E.V., PhD, associate professor, first category, radiation oncologist.

Conclusions of the EEC on the criteria. Of 22 standards that comply (including 19 basic, 3 improvement standards): fully - 21, partially - 1, does not comply - 0.

Recommendations for improvement:

1. Expand the catalog of elective disciplines, with an emphasis on the scientific work of residents.
Deadline: 01.09.2024

Standard 3: ASSESSMENT OF RESIDENTS

3.1 Assessment methods

The study of the assessment tools (the database consists of 1,240 test items) revealed that the organization has implemented an appropriate evaluation policy, allowing for a comprehensive assessment of residents' academic achievements. During interviews, residents spoke about the various forms of assessment, such as the evaluation of the resident's portfolio. In general, residents are well-informed about the available assessment tools and express satisfaction with the assessment methods. Residents also noted that instructors provide regular feedback.

The appeals system for evaluation results is outlined in the document "Academic Policy of NJSC 'MUK'". A student who disagrees with the final grade has the right to file an appeal no later than the next working day after the grades for the exam are posted in the AIS "Platon". There have been no precedents for appeals during the organization's operation.

For the assessment of intermediate and final controls, the oncology department involves external experts from practical healthcare. Furthermore, the assessment of students' academic achievements is carried out by instructors in accordance with the normal distribution of grades, using the Bell Curve, and the criteria of the Academic Integrity League are also taken into account. The educational program also adheres to the principle of "knowledge survival", ensuring that knowledge is consolidated at each stage of education. The daily practical application of knowledge in real clinical situations contributes to its solid retention by both students and residents. The assessment tools are reviewed and updated by 30% annually. The responsible course instructor/module coordinator imports

the examination materials into the Automated Information System "Platon" or the Automated System "Session" one week before the final assessment.

According to the regulations of the rating system for academic progress, residents with a passing score below 50% are marked as "not admitted" in the exam record. Between 2018 and 2022, there were no cases of residents in the "Oncology (Adult)" specialty being excluded from the final assessment at NJSC "MUK".

To verify the data in **Standard 3**, experts asked questions to the head of the Residency and Professional Development School, PhD, associate professor Tashkenbaeva V.B., and reviewed documents and methodologies for evaluating residents.

During the visit to the organization and the interview with the employee, Associate Professor of the Oncology Department, Kruk E.V., the commission confirmed that a documentation system is in place. The quality management system is transparent and accessible to all instructors and staff, including documents such as annual operational plans, annual reports, department regulations, contracts with instructors and residents, agreements with clinical bases, and teaching and methodological documentation (work programs, syllabi, course syllabi, journals), assessment tools (checklists), certificates, and diplomas. An overview of the website showed that it contains all the necessary documents for residents, including the EP, syllabi, list of elective courses, and complete information, which is regularly updated.

During the visit to the organization, the management was asked, "Are external examiners involved to enhance the fairness, quality, and transparency of the assessment process?" The response was: "Assessment methods for residents in the "Oncology (Adult)" specialty are developed with the involvement of external stakeholders and discussed with them. Examination materials are discussed at department meetings and undergo expert evaluation by the freelance regional oncologist, director of MH No. 3, Toksambaeva G.S.". The expert, upon reviewing the information on the department's planning, noted that an invitation was planned for a visiting professor, leading to a question regarding the implementation of this activity. Associate Professor Kruk E.V. explained that as part of the visiting professor program and cooperation with a partner university, a lecture course on "Diagnosis and Treatment of Cancer of Visual Localizations" was conducted. The lecturer was Doctor of Medical Sciences, Professor N.V. Sidorov, head of the Department of Surgical Diseases at Novosibirsk State University, Russian Federation.

3.2 Relationship between assessment and learning

During interviews with 35 instructors regarding assessment methods, experts received convincing information that in the university, the assessment of residents' knowledge is viewed as a process of gathering information to form judgments about the degree and nature of the learner's success in achieving the requirements outlined in the standard, which are necessary for their future role as a physician. Residents also shared their opinions on the timeliness of the provision of tests, the consultation process before exams, the clarity of the entire assessment procedure, and its fairness. For example, residents mentioned that they are aware of the appeal procedure, which is described in the Academic Policy, but none of the interviewed residents had used this procedure.

Experts reviewed the resources available for assessing knowledge and practical skills, specifically the Center for Simulation and Educational Technologies (CSET). Experts were informed that residents systematically improve their practical skills at CSET by preregistering and scheduling their sessions. The evaluation of their independent work is conducted by group curators, who monitor the progress of the sessions. There is a specific list of practical (clinical) skills that oncology residents practice at CSET in accordance with the educational program.

Experts determined that the selection of assessment methods for residents is based on OSCE and Mini-CEX, as the practical part of the training is key. At department meetings and the SR and PD Council, the results of final exams, intermediate assessments, and final evaluations are reviewed and discussed. Based on the achievements, the methods for teaching and assessing residents, the curricula, and assessment documents are regularly revised, taking into account feedback from stakeholders.

The participation of representatives from practical healthcare at all stages of assessment, including department heads, attending physicians, nursing staff, and patients, during the 360° assessment of residents, ensures the objectivity and fairness of the assessment process. For example, for the final certification in the academic year 2022-2023, the composition of the certification commission was approved by order No. 316 from December 30, 2022, "On the Approval of the Composition of the Certification Commission for the 2022-2023 Academic Year", which included representatives from practical healthcare. The chairman of the commission was Toksambaev G.S., the director of the Multidisciplinary Hospital No. 3 in Karaganda. Suggestions for the composition of the certification commission are provided by the department for review and discussion at the SR and PD Council, after which they are approved by a Senate decision (Protocol No. 5 from December 29, 2022).

Conclusions of the EEC on the criteria correspond to 9 standards (including 6 basic, 3 improvement standards): fully - 9, partially - 0, does not correspond - 0.

Recommendations for improvement: none

Standard 4: RESIDENTS

4.1 Admission policy and selection

The educational organization has a policy for admitting residents, and the approaches to resident admission are based on the country's requirements, specifically the Order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020, No. RK MOH-270/2020 "On the Approval of the Rules for the Placement of State Orders, Admission to Training, and Preparation of Medical Personnel in Residency" and internal regulations reflected in the Academic Policy of the NJSC "MUK", sections 6, 6-1 "Admission Rules, Student Progress, Certification", and the "Student Admission Policy at NJSC MUK", which is reviewed annually. As indicated in the document, candidates for residency at NJSC "MUK" must have completed higher education programs and internship training. Admission is based on a competitive process, consisting of candidates' applications and the results of an entrance examination. During the entrance exams for residency, examination and appeal commissions are formed for each specialty. Information about the Residency Program "Oncology (Adult)" is available to all stakeholders on the website of the Unified Higher Education Platform (EPVO) and the University at https://epvo.kz/#/register/education_program/application/31227.

The document outlines approaches for admitting residents with disabilities, including the "Regulations on Inclusive Education at NJSC MUK" from December 9, 2020, Protocol No. 26, in accordance with the Constitution of the Republic of Kazakhstan, the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018, No. 600, the Charter, and internal regulations of NJSC "MUK".

The document takes into account the requirements for applicants to the residency program regarding their previous achievements in undergraduate and internship training, as well as safety compliance requirements.

The educational organization has created a barrier-free learning environment, including ramps, call buttons, elevators, and accessible restrooms for people with disabilities.

The approaches to the admission and transfer of residents from other educational organizations are reflected in the Academic Policy. Key considerations include that transfers and reinstatements of residents from one university to another are carried out during vacation periods in accordance with the Rules for the Provision of State Services in the Field of Technical and Vocational, Secondary Education. A resident can be transferred or reinstated provided that the first academic period of the program has been fully completed, according to the individual academic year, regardless of the time of dismissal upon reinstatement.

The appeal procedure following the residency admission process is outlined in accordance with the "Policy for the Admission of Applicants to Postgraduate Educational Programs" of NJSC "MUK". To date, there have been no appeal cases for the "Oncology (Adult)" program.

Representatives of students are involved in the development of the admission and selection policy for residents. Feedback is gathered from residents, and recent changes have been made to the admission approaches. For instance, in 2020, amendments were made to the admission policy, including changes to the structure of the entrance exam. It is now conducted as an evaluation of the candidate's portfolio, which includes the GPA score from previous studies and the results of an independent examination of the internship graduate, allowing for a comprehensive assessment of the candidate's professional readiness to become a specialist, aligning with the mission of NJSC "MUK". These changes were approved by the Board of Directors' decision on May 27, 2022 (Protocol No. 37). The admission and selection policy, as well as the number of residents, are reviewed annually, with the Department of Academic Affairs being responsible for this process.

Thus, the experts conducted validation of the data for **Standard 4**. Overall, all criteria are met, and no deficiencies were identified. The experts reviewed the documentation for resident admission, including documents such as the "Admission Rules, Student Progress, Certification" and the "Student Admission Policy at NJSC MUK".

4.2 Number of residents

From 2019 to 2023, 1790 residents were admitted to all educational programs, including 47 residents to the "Oncology (Adult)" program. The total number of residents graduating at the start of the admission process for all specialties was 1369 individuals. The educational organization regularly reviews the number of residents admitted, taking into account the needs of the industry and the labor

market situation. The procedure for determining the number of residents admitted is regulated by the State Educational Order of the Ministry of Healthcare of the Republic of Kazakhstan, funded by medical organizations and the Local executive bodies. The Department of Oncology has analyzed the demand for oncologists in practical healthcare and has determined that the annual intake into the educational program for the "Oncology (Adult)" specialty is in line with available resources.

4.3 Support and consulting of residents

The practice of academic counseling, personal support for residents, and the development of not only professional skills were assessed by the experts during interviews with residents and alumni. The following information was obtained: support and counseling for residents are provided with the direct involvement of the teaching staff/clinical mentors at the clinical training sites. Issues related to the organization of the educational process, including the selection of compulsory and elective courses, are addressed jointly with the teaching staff, program directors, department heads, and during meetings of the SR and PD boards. The SR and PD staff, in collaboration with the department, provide informational support to all students. Information about the residency program is also available on the official university website and the student portal of NJSC "MUK."

NJSC "MUK" has an academic counseling system for residents aimed at student-oriented learning. To support the management of educational activities, the automated information system "Platonus" is used. Every month, responsible instructors for each subject and the program director conduct assessments of students. If a resident is failing, the academic office of the SR and PD is informed. Issues related to assessments are discussed during departmental meetings and SR and PD board meetings.

The university, as well as the academic staff of the department and clinical mentors, provide support to residents in career planning and employment matters. For this purpose, the Career Development Center operates within the Department for Youth Affairs, and residents' participation in scientific conferences, professional webinars, and forums helps them enhance their professionalism. The university also provides support in case of a professional crisis, offering the opportunity to consult with the in-house psychologist of the medical university clinic.

Each resident is also informed about the possibility of seeking help in case of a professional crisis or conflict with the teaching staff. They can contact the department head, the dean of the residency school, the compliance office, or the blog of the rector of NJSC "MUK".

The university, along with the teaching staff of the department and clinical mentors, supports residents in career planning and employment matters. The Career Development Center, located within the Department for Youth Affairs, assists with graduate employment. NJSC "MUK" provides support in enhancing residents' professionalism. The employment rate of graduates from the "Oncology (Adult)" program was 100% in 2022.

4.4 Representation of residents

The educational organization operates the following consultative and advisory bodies: the Senate and the Council of SR and PD, in which oncology residents participate. During interviews with residents, experts found that the University actively encourages residents' initiative in decision-making regarding educational and training processes, such as including an individual approach to mastering the program, selecting a clinical base and elective courses, participating in academic mobility and scientific projects, and engaging in scientific conferences.

4.5 Working conditions

Residents receive a monthly stipend in accordance with the Resolution of the Government of the Republic of Kazakhstan No. 799 dated 10.10.2022 "Rules for the appointment, payment, and amounts of state scholarships", and the Regulations on the procedure for appointing scholarships established by the President of the Republic of Kazakhstan. Residents studying under the educational grant receive state scholarships in the manner prescribed by the Government of the Republic of Kazakhstan https://adilet.zan.kz/rus/docs/P080000116_/links. Residents are also given the opportunity to work outside of study hours, as regulated by the Ministry of Health of the Republic of Kazakhstan's Order No. RK MOH-305/2020 dated 21.12.2020 "On the approval of the nomenclature of specialties

and specializations in healthcare, the nomenclature and qualification characteristics of healthcare workers". Residents can take additional work as a resident doctor under the supervision of a clinical mentor in the selected medical field at a 0.5 position in medical organizations or according to the specialist certificate obtained after completing the relevant internship <https://adilet.zan.kz/rus/docs/V2000021856>. Currently, 40% of residents take advantage of this opportunity. The educational organization has 63 clinical bases for training residents, and various events are held at each one, in which residents participate. At the clinical base of MH №3, where residents of the "Oncology (Adult)" program acquire practical skills, there are clinical departments and laboratories, including clinical biochemistry, cytology, and pathology. Diagnostic departments, such as radiology (ultrasound, X-ray, MRI, CT) equipped with modern equipment, are also available, and the necessary conditions for resident training have been created. Residents also develop skills in providing specialized outpatient care at the МБ №3 polyclinic, which includes offices for otolaryngology oncologists, urological oncologists, gynecological oncologists, abdominal and thoracic oncologists, chemotherapy specialists, and mammologists.

Conclusions of the EEC on the criteria. Comply with 20 standards (including 14 basic, 6 improvement standards): fully - 20, partially - 0, does not comply - 0.

Recommendations for improvement: no

Standard 5: TEACHERS

5.1 Recruitment and selection policy

The total number of staff is 27, including 17 full-time faculty members and 10 part-time faculty members. The requirements for faculty in the residency program state that the instructors must hold a doctoral degree or candidate of sciences, a PhD, or be physicians with a certificate and at least 5 years of experience relevant to the discipline they teach.

The level of qualification among the residency faculty members in the "Oncology (Adult)" program is 100% with an academic degree. 65% of the faculty members have the highest category, while 35% have the first category. The following individuals conduct the training of residents in "Oncology (Adult)": Kabildina N.A., Candidate of Medical Sciences, Associate Professor, highest category, oncologist; Bukhenov A.M., Doctor of Medical Sciences, Professor, highest category, oncological surgeon; Krukt E.V., Candidate of Medical Sciences, Professor, first category, radiation oncologist at MH №3. The staffing of the program, including faculty, clinical mentors, and educational support personnel, is 100%.

Faculty members delivering the program are certified specialists with the highest category in their field and have 19 or more years of experience. They also engage in clinical practice at the university's clinical bases and university clinics.

The clinical mentors, under whom the residents carry out clinical activities, are:

1. Burgard T.A. – Pathologist at MH №3, highest category, 23 years of experience.
2. Imendinova D.U. – Candidate of Medical Sciences, Oncological Gynecologist at MH №3, highest category, 30 years of experience.
3. Iskakov R.R. – Head of the Intensive Care Unit at MH №3, highest category, 28 years of experience.
4. Shemberetskaya A.Yu. – Oncologist at Polyclinic No. 2 in Karaganda, first category, 7 years of experience.
5. Kulisov V.A. – Candidate of Medical Sciences, Freelance Mammologist of the Karaganda region, highest category, 35 years of experience.
6. Omarova I.M. – Doctor of Medical Sciences, Professor, Chemotherapist, highest category, 40 years of experience.

Experts reviewed the job descriptions for the university's faculty and the regulations for the structural departments (school, department).

The experts have reviewed the Staffing Policy, the Regulations on Clinical Mentors, the Internal Labor Regulations, the Employee Hiring Rules, and the Rules for the Competitive Appointment of Vacant Positions. The ratio of faculty to residents is 1:3.

The motivation system for faculty members and clinical mentors includes conducting scientific work as well as fulfilling key performance indicators (KPIs). NJSC MUK has an incentive system for faculty in accordance with the Regulations on Remuneration, approved by the rector of NJSC MUK on August 16, 2021. According to these regulations, the author group is awarded additional payment for publications in international peer-reviewed scientific journals with an impact factor greater than 1, indexed in Web of Knowledge and Scopus. Payments for scientific activities are made under the Regulations for Temporary Scientific Groups created in the university to carry out scientific and technical programs. The distribution of wages among members of temporary scientific groups is based on the individual work contribution of each employee. The university also has a system of incentives for faculty, which includes bonuses for successful fulfillment of indicators in various areas of activity, including scientific work and publications. According to discussions with the oncology department staff, all of them have been rewarded and received commendations at various levels over the past five years.

The principles of ethics and academic integrity for faculty are outlined in the document "Code of Business Ethics" of NJSC "MUK". In conversations with faculty members, they confirmed their awareness of these principles.

In order to verify the data for Standard 5, external experts obtained the opinion of faculty members on the staffing policy, which includes comprehensive knowledge about filling vacant positions, professional development opportunities, and the supporting mechanisms in the university. A discussion with Doctor of Medical Sciences A.M. Bukenov, Associate Professor of the Department of Oncology, covered topics such as the complexity of fulfilling KPIs and allowed experts to learn about approaches to engaging clinical base staff for teaching (a total of 10 such instructors), strategies and tactics for recruiting residents, the informational support of the educational program, and mechanisms for managing and developing human resources, considering that most adjunct faculty members are proficient in teaching methods, as all clinical mentors in the "Oncology (Adult)" program hold certificates from the Clinical Mentor School.

A survey of faculty members revealed that the majority (80%) are completely satisfied with the organization of work and the workplace in this educational organization, while 20% are partially satisfied. In this institution, faculty have the opportunity to engage in scientific work and publish the results of research (84% fully agree, 16% partially agree). Regarding salary satisfaction, 56% fully agree, and 28% partially agree.

5.2 Commitments and development of teachers

The university ensures a balance between teaching, research, and clinical activities. This balance is determined by the individual work plan for faculty members (IWPF), which is filled out based on the time norms for calculating teaching hours, approved by the Senate decision, and the average teaching load of faculty members. The IWPF consists of various types of work approved by the department head during department meetings. The distribution of activities is based on job descriptions, where research constitutes 20%, teaching work 70%, and community service at the university 10%.

For faculty members implementing residency programs, the teaching load is distributed as follows: classroom work – 20%, work with clinical mentors – 70%, independent work of residents – 10%. Every year, the average teaching load for faculty is reviewed, and for the 2023-2024 academic year, it is set at 650 hours for the faculty and 1500 hours for clinical mentors, in accordance with the Senate decision.

Experts received responses regarding the professional development program for faculty, which is conducted annually. 100% of the faculty involved in the implementation of the educational program have completed training over the past five years, including faculty of the accredited educational program in "Oncology (Adult)" – 3 individuals. These activities are funded by the educational

organization. The expert reviewed the certificates of faculty members for topics such as "Training Examiners for Objective Structured Clinical Examination" (18 hours), "Inclusive Vocational Education: Modern Perspectives and Approaches" (72 hours), "Digital Competence for Educators: Effective Online Teaching" (72 hours), "Current Issues in Clinical Oncology" (108 hours), "Molecular-Genetic and Medical Aspects of Clinical Oncology" (108 hours), "Pedagogical Education of the 21st Century: New Challenges and Solutions" (72 hours), etc.

The salary fund for faculty members amounts to 6 368 708.89 thousand tenge. The financing of mentors is carried out in accordance with the Regulations on Remuneration at NJSC MUK (approved by the rector of NJSC MUK on 16.08.2021).

Experts have found that teachers initiate research topics for residents (e.g., Quality of life and availability of medical care for individuals with bronchial asthma in the Republic of Kazakhstan, Immunological aspects of the effectiveness of allergen-specific immunotherapy. Literature review, Program for the discipline "Differential diagnosis of diseases of the hematopoietic organs and immune system" for students of the educational program "6B10102-General Medicine"), stimulate the need for additional training and independent work with literature, medical documentation in IMIS. From a conversation with residents, information was obtained that oncology residents actively use platforms such as PubMed and UpToDate in scientific and clinical aspects.

The educational organization has an opportunity for career growth and development of teacher competencies - 88% of the surveyed teachers answered, and 8% partially agree with this. Studied in programs for improving professional qualifications - 84% less than 1 year ago, 16% during the current year.

The organization implements social support programs for teachers - 64% answered that "yes, such programs exist", 4% "I have already used this", 0% of respondents answered that there are no such programs, and 28% of respondents do not know about this.

Conclusions of the EEC on the criteria. Compliant with 8 standards (including 7 basic, 1 Standard of improvement): fully - 8, partially - 0, do not comply.

Recommendations for improvement: none.

Standard 6: EDUCATIONAL RESOURCES

6.1 Material and technical support and equipment

The training of oncology residents is conducted at MH No. 3 in the city of Karaganda, which provides primary and specialized medical care to the adult population with malignant tumors at both outpatient and inpatient stages in clinical departments such as thoracic oncology, abdominal oncology, oncogynecology, chemotherapy, radiology, rehabilitation, intensive care, and the dispensary (MH No. 3 outpatient clinic). The clinical facility has a total of 220 beds. The clinical base includes seven classrooms, a conference hall for seminars and journal clubs, two laboratories, and a reference center. Upon arrival at the clinical base, residents undergo initial safety training, which they confirm by signing the Safety Training Log of the respective departments. Every six months, residents undergo refresher safety training. Clinical mentors are responsible for conducting these training sessions and ensuring that residents comply with workplace safety regulations. Heads of structural units also oversee the provision of safe working conditions and occupational safety in the workplace. All clinical bases are equipped to provide emergency medical care to residents, adhere to anti-epidemic measures, and create conditions for urgent resuscitation procedures.

The library plays a central role in providing residents with access to information resources. The total library area is 1,526 square meters, of which 941.6 square meters are allocated for book storage. The reading rooms have a total of 443 seats. The library consists of the acquisition and bibliography department, as well as the service department for scientific and educational literature, which includes the circulation desks for scientific and educational literature, reading rooms, a periodicals hall, an electronic resources hall, and an interactive hall.

The library is equipped with 113 computers, including 88 thin clients and 21 personal computers, as well as an additional 4 personal computers and 63 thin clients in the electronic resources hall, and 25 thin clients in the interactive hall. All computers are connected to the internet, and the Wi-Fi network covers the entire library. The electronic resources hall is equipped with two scanners, while the interactive hall features a short-throw projector.

The research staff room is equipped with 15 computers providing access to the university's information resources. Electronic hall services are available from Monday to Friday from 09:00 to 20:00 and on Saturdays from 09:00 to 18:00. Additionally, the library has two information kiosks that allow users to electronically order literature through the "WEB-IRBIS" module catalog.

As of November 1, 2022, the total university library collection comprises 450,374 copies and 42,710 titles, fully meeting the demand for literature. For the educational process in the specialty "Oncology (Adult)", the availability of core and supplementary literature is 100%, including textbooks, scientific literature, periodicals, and electronic publications.

Before starting a specific discipline within the educational program, residents receive a syllabus from their instructor, which outlines the skills they are expected to acquire and develop during their studies.

6.2 Clinical bases

A resource review confirmed that the clinical facilities align with the goals and objectives of the educational activities. Clinical bases at MH No. 3, with a total bed capacity of 220, were visited. The staff of the educational institution maintain collegial and ethical relationships with medical personnel and the management of the clinical base to ensure successful outcomes for residents. A sufficient number of thematic patients is ensured (for example, patients with all nosologies specified in the educational program are available). The clinical facilities are equipped with modern equipment, which is accessible to trainees, and faculty members provide high-quality training while adhering to ethical and deontological standards.

During visits to clinical bases, experts conducted an assessment of resources, their alignment with educational programs, and their accessibility for faculty and residents. They evaluated whether the equipment is up-to-date and meets the needs of learners as well as practical healthcare requirements.

To validate the data presented in the self-assessment report and obtain evidence on the quality of the programs, interviews were conducted with residents. Experts asked questions about their satisfaction with the training, the sufficiency of time allocated for patient supervision, work with medical documentation, satisfaction with teaching methods and faculty qualifications, social and moral support for residents in need, participation in "Journal Clubs", and access to international professional literature databases. Overall, residents expressed satisfaction with their education, assessment methods, and intentionally chose this institution due to its strong resources, reputation, and international collaborations. At the same time, they expressed a desire for greater independence in patient management and the organization of international events.

The training program includes topics related to health promotion and the prevention of malignant tumors. As part of the adult oncology modules, residents have opportunities to practice their skills at the CSET.

Residents demonstrated their commitment to the organization of education, were active in answering questions from external experts, demonstrated their judgment on the organization of training, assessment of their skills, advisory support, the opportunity to participate in research and development, and financing. The experts studied the documents of residents (portfolio, resident assessment results-checklists, resident survey results).

6.3 Information technology

Experts assessed the access of residents and faculty to essential web resources, including the Student Portal and additional platforms such as Platon, which provides information on current and final academic performance. They also evaluated access to electronic media resources such as PubMed

and the Cochrane Library. Residents confirmed that they can use CBS eBooks, EBSCO, BMJ Best Practice, and BMJ Learning, including for class preparation.

During independent study, residents utilize the Electronic Library of the Medical University "Student Consultant", the Electronic Medical Library "Doctor's Consultant", the Electronic Library System "Lan", the Epigraph Electronic Library, the Epigraph Multimedia Textbook Portal, and the Aknurpress Digital Library. Access to patient data and the healthcare information system is provided through the IMIS under the supervision of a clinical mentor. Each resident supervises three patients per day and completes the necessary documentation under the guidance of a clinical mentor.

User notifications are delivered via corporate Outlook email, as well as through postings on the MUK website, the MUK Portal, the MUK Student Portal, the institution's Instagram page, and the Telegram messenger.

To ensure the effective use of information and communication technologies in the educational process for the "Oncology (Adult)" specialty, practical classes during the pandemic were conducted using the Microsoft Teams and Webex platforms. The Moodle platform is used for residents' independent study.

6.4 Clinical teams

To develop residents' teamwork experience, the educational institution organizes activities such as managing patients under the supervision of clinical mentors at clinical bases alongside specialists from related fields (General Surgery, Obstetrics and Gynecology, etc.). This includes joint discussions on patient management plans, taking into account the recommendations of consulting physicians. Residents specializing in "Oncology (Adult)" are actively involved in interdisciplinary teams. They participate in multidisciplinary case conferences, joint Journal Club meetings, and Young Internist School sessions. During these activities, residents exchange experiences with colleagues from other specialties and contribute to clinical case discussions. They also actively take part in pathological-anatomical conferences as attending physicians and opponents, which enhances their professional skills and knowledge.

In the questionnaire, residents noted that they have free access to patients at clinical sites and all the conditions for improving their practical skills - 96% of teachers completely agree with this, 4% partially agree.

6.5 Medical scientific research and achievements

The university's research activities are currently being carried out in accordance with the Development Program of the Research University for 2019–2023. The target indicators of the Development Program of the Research University of NJSC "MUK" were approved by the Government of the Republic of Kazakhstan by Resolution No. 453 of June 27, 2019 (6.5.2 Development Program of the Research University for 2019–2023).

NJSC "MUK" actively engages young researchers and students in scientific research, including doctoral students, master's students, residents, and undergraduate students, by integrating them into temporary research teams. The department, together with clinical bases, provides opportunities for conducting scientific research and its practical implementation, as well as supports an in-depth study and analysis of modern diagnostic and treatment methodologies.

From the first year of training, residents receive assignments for scientific research, which are reflected in their individual plans and approved at the department meetings. Program directors, faculty members, and clinical mentors provide advisory support to residents in conducting research, preparing theses and scientific articles, and encourage their participation in scientific congresses and conferences.

During the specified period, residents of the "Oncology (Adult)" specialty published five scientific papers, including publications in RSCI-indexed journals and participation in international and national conferences. Residents also have the opportunity to engage in research work as part of their extracurricular activities, including IWR. For example, residents, in collaboration with faculty members of the department, have the following publications: Evaluation of chemotherapy toxicity using arglabin in breast cancer patients – Eurasian Oncology Journal, 2020, Vol. 8, No. 2, p. 401;

Comparison of the effectiveness of breast cancer screening in the Karaganda region and the Republic of Kazakhstan – International Scientific Journal "Modern School of Russia. Issues of Modernization" – "Open World", Moscow, 2022, pp. 107–110; Ideology of esophageal cancer treatment – Southern University "Institute of Business and Law Management" (IBLM), Peer-reviewed Scientific and Practical Journal "Scientist's Notes", Rostov-on-Don, 2022, No. 3, Part 1, pp. 140–150; Implementation and results of breast cancer screening – National Research Center, "Science Bulletin", RSCI, Part 3, Collection – 2023, pp. 23–30; Development of a patient service quality monitoring system in oncology clinics of Kazakhstan using the optimization of uroscopy methods – Advances in Science and Technology, LIII International Scientific and Practical Conference, Research and Publishing Center "Actualnots/RF", Moscow, Russia, June 15, 2023.

Interviews with 17 faculty members, including 7 full-time staff, revealed successes in education management, which depend on the clinical base MH No. 3. These successes are attributed to the unrestricted access of residents to medical equipment, a sufficient number of thematic patients, allocated time for maintaining medical records, and opportunities for independent work.

6.6 Expertise in the field of education

At the university, the expertise of educational programs is carried out at all stages of their development, approval, and updating in accordance with the regulations established for the management of educational programs. The head of the "Oncology (Adult)" educational program, Candidate of Medical Sciences, Professor N.A. Kabildina, develops the program in compliance with national and international standards and qualification requirements. The Academic Committee of the University Senate conducts an expert review of the program concept, while the Quality Assurance Commission carries out an internal evaluation. After receiving approval from external reviewers, the educational program is officially approved by the Board of Trustees.

The development and monitoring process of the educational program involves all stakeholders, including students and employers. The university has established an effective mechanism for internal quality assessment and program evaluation, ensuring compliance with the curriculum and providing feedback for continuous improvement. The faculty regularly works on enhancing the program's content, with the involvement of leading experts in the field of pulmonology.

The "Oncology (Adult)" educational program is regularly assessed through feedback from residents, faculty, and employers, as well as by analyzing the academic achievements of residents. Methods used for this evaluation include resident and graduate surveys, academic performance analysis, reports, and audit reviews. The analysis of this data helps identify weaknesses and determine ways to improve the program.

6.7 Training in other institutions

The academic policy for resident training includes the possibility of studying at alternative institutions if the available clinical bases do not cover all topics of the educational program. However, the "Oncology (Adult)" residency program is conducted at MH No. 3, which has departments of chemotherapy, radiation therapy, pathology, surgery, and others, with a total capacity of 220 beds. The preparation of scientific publications is supervised by faculty members and does not require additional training facilities. Nevertheless, residents have the opportunity to participate in academic mobility programs both domestically and internationally. For example, a cooperation agreement has been signed with Novosibirsk State University (Russia) and the Head of the Department of Surgery and Oncology, Doctor of Medical Sciences, Professor N.V. Sidorov. This initiative aims to strengthen international collaboration and facilitate the exchange of knowledge and expertise in oncology.

The development plan for the "Oncology (Adult)" educational program includes academic mobility for residents, both through partner universities and visits from leading specialists, in accordance with the approved academic mobility plan. In May 2022, first and second-year residents successfully participated in an incoming academic mobility program. An online seminar was organized and conducted on the topic: "Diagnosis and Modern Treatment Methods for Breast Cancer".

The expert notes that there is a need to increase the number of academic mobility opportunities for oncology residents, as only one online seminar has been conducted in the past five years. Given the

level of the educational program and the university's capability to establish agreements both within the country and abroad, residents themselves have pointed out the low level of participation in academic mobility programs.

Conclusions of the EEC on the criteria. Comply with 18 standards (including 11 basic, 7 improvement standards): fully - 17, partially - 1, do not comply - 0

Recommendations for improvement: Consider organizing academic mobility programs for residents in the "Oncology (Adult)" program.

Deadline: September 1, 2025.

Standard 7: EDUCATIONAL PROGRAMME EVALUATION

7.1 Monitoring and evaluation mechanisms

The monitoring of the educational program consists of several stages: planning, data collection, analysis/conclusions, necessary improvements with subsequent monitoring of changes, ensuring transparency in the process and results. In accordance with the university's Academic Policy, all university structures involved in the implementation and quality management of the educational program participate in its monitoring. Each stage and level of the quality assurance system is regulated by corresponding normative and regulatory documents.

At NJSC "MUK", the evaluation and monitoring of the educational program are carried out in accordance with the Regulation on Academic Policy (approved by the Senate on 27.08.2021) and the Regulation on Educational Program Management (dated 09.09.2020, order No. 14, amended on 11.01.2021, order No. 1).

When assessing the program, the learning objectives and outcomes are considered (through resident evaluation and independent examinations). The implementation process of the educational program is assessed through feedback from residents and faculty members, as well as the achievements of graduates. Since the 2020-2021 academic year, a Committee for Educational Program Quality Assurance has been established, whose primary function is to monitor the implementation of the educational program and evaluate the satisfaction of all stakeholders (Regulation on Educational Program Management). Moreover, a survey of second-year residents of accredited specialties revealed the following: Resident satisfaction surveys regarding the educational program are conducted twice a year.

The evaluation of resident admission approaches is conducted through surveys.

7.2 Feedback from teachers and residents

The educational institution regularly collects feedback from faculty members, residents, and employers. Every year in October-November, surveys are sent to employers, with questions focused on the adequacy of graduates' knowledge and skills. Employer survey results from 2022 and 2023 showed that 92% of employers were satisfied with the quality of training provided by NJSC "MUK".

The Department of Strategic Development and Management conducts annual employer surveys to assess satisfaction with graduate training quality. In 2023, three employers participated in the survey, resulting in a 90% response rate. The survey results indicated that graduates demonstrated a high level of competency attainment, rated at 4.7 out of 5. For the "Oncology (Adult)" specialty, this indicator was 4.5 out of 5.

The overall satisfaction level with graduate training quality was 90%, while for the "Oncology (Adult)" specialty, it reached 100%. None of the employers rated the quality of graduate training as low.

7.3 Results of residents and graduates

The School of Residency and Postgraduate Development, in collaboration with the educational program director, regularly monitors the employment status of residency graduates. As part of this monitoring, it was established that the employment rate for graduates of the "Oncology (Adult)" specialty is 100%.

At the department level, systematic assessments of resident satisfaction with the educational process are conducted. Upon completion of each discipline, residents fill out questionnaires to express

their opinions on the quality of education, identifying both strengths and weaknesses of the learning process. The collected results are analyzed during department meetings to improve the organization and content of the educational program.

For example, an analysis of the resident survey results for the 2021-2022 academic year demonstrated their satisfaction with the quality of education, clinical environment, organization, and resources of the educational process across all disciplines of the “Oncology (Adult)” specialty. Experts were familiarized with the results of this survey, as well as the analysis and measures taken to improve the educational program.

Additionally, an analysis of the final-year resident survey showed that all 8 graduates rated the quality of education as "excellent", highlighting the new knowledge and skills they had acquired.

7.4 Involvement of stakeholders

The educational institution has established approaches to involving faculty members and residents in the evaluation and monitoring of the educational program. Residents of the “Oncology (Adult)” specialty, among others, are included in advisory bodies such as the Senate and the Academic Committee and participate in discussions on all educational process-related matters. The results of the educational program evaluation are announced at department and Academic Committee meetings.

Interviews with 17 employers were conducted offline and included questions such as: knowledge of the university mission, participation in the development of the mission and proposals for the strategic plan, participation in the work of advisory bodies, satisfaction with the basic knowledge and skills of residents, participation in training residents through mentoring, providing the department and residents with the necessary resources for practical training and the formation of clinical thinking, problems of interaction with departments and universities in general, 100% employment of residency graduates, etc.

7.5 Procedure for approving educational programs

The educational program "7R01117 – Oncology (Adult)" was developed and approved in accordance with the license for educational activities within the groups of educational programs defined by the classification of training areas. This process is carried out following the approved "Regulations on the Management of the Educational Program" of NJSC MUK. The list of educational programs is periodically reviewed by School Councils, analyzed, and adjusted based on market demands and available resources.

The approval procedure for the educational program follows the established norms and procedures outlined in the "Regulations on the Management of the Educational Program of NJSC MUK", including the process map "Development, Coordination, and Approval of the Educational Program". This process involves coordination with representatives of practical healthcare, an expert review by the School of Residency and Professional Development’s Quality Assurance Commission, and discussion and approval at the meeting of the Board of NJSC MUK.

Additionally, the educational program undergoes external expert evaluation for inclusion in the Registry of Educational Programs of the Unified Higher and Postgraduate Education System.

Conclusions of the EEC on the criteria. Comply with 10 standards (including 7 basic, 3 improvement standards): fully - 10, partially - 0, do not comply - 0

Standard 8: MANAGEMENT AND ADMINISTRATION

8.1 Management

Residency training is conducted in accordance with the regulatory requirements for resident admissions, including the submission of applications through the Admissions Committee within the deadlines established by the "Model Rules for Admission to Educational Organizations Implementing Higher and Postgraduate Educational Programs", approved by Order No. 600 of the Minister of Education and Science of the Republic of Kazakhstan dated 31.10.2018. Residency training is also carried out under License No. KZ32LAA00016018 dated 06.05.2019 in the field of 7R091 "Healthcare (Medicine)".

The management of the educational program is governed by the following regulatory documents: Law of the Republic of Kazakhstan "On Education", Order No. 595 of the Minister of Education and Science of the Republic of Kazakhstan "On Approval of the Model Rules for the Activities of Educational Organizations of Relevant Types", Order No. 600 of the Minister of Education and Science of the Republic of Kazakhstan "On Approval of the Model Rules for Admission to Educational Organizations Implementing Higher and Postgraduate Educational Programs", Order No. RK MOH–249/2020 of the Minister of Healthcare of the Republic of Kazakhstan "On Approval of the Rules for Assessing the Knowledge and Skills of Students, Evaluating the Professional Preparedness of Graduates of Educational Programs in Healthcare, and Assessing Healthcare Professionals", State Compulsory Education Standard (SCES), Internal regulatory documents, including the Academic Policy of NJSC MUK, Regulations on the Management of the Educational Program, and Regulations on Residency Training.

The completion of a physician-resident's training is documented by the Department of Academic Affairs in the form of awarding the qualification of a specialist in the respective educational program and issuing a specialist certificate. Individuals who have completed the educational program 7R01117 "Oncology (Adult)" and successfully passed the state attestation are awarded the qualification of oncologist.

8.2 Academic Leadership

The responsibilities and duties of the management and staff in postgraduate medical education are assigned to the School of Residency and Professional Development. The overall leadership of the school is carried out by a collegial representative body – the School Council (Regulations on the School Council, approved by Order No. 8 of the Board dated 26.08.2019), which operates under the supervision of the Dean of the School, Candidate of Medical Sciences, Associate Professor V.B. Tashkenbaev. These responsibilities are defined in the document "Organizational Structure of NJSC MUK".

The educational organization conducts an assessment of the management of the educational process and staff concerning the achievement of the residency program's mission and expected learning outcomes through feedback from residents and faculty (see section 7.2 of the report), as well as through attestation and audits.

In response to the survey question "Do the organization's management listen to your opinion regarding issues related to the educational process, research, and clinical work?", 72% of teachers answered that they do so systematically, 24% answered "sometimes", and 4% "no answer".

8.3 Budget for training and resource allocation

The department responsible for planning and allocating financial resources for residency programs is the Department of Economics and Finance along with the Procurement Department. There is a regulatory document titled "Regulations on the Department of Economics and Finance", dated April 28, 2021. Structural divisions define their resource needs, including those required for the implementation of the educational process, as well as resources for the development of the university and its clinics. Based on these identified needs, a University Development Plan is formulated, which is reviewed by the Board and approved by the Board of Directors for a five-year period. The University Development Plan is adjusted annually based on changes in the needs of the university's divisions and the institution as a whole.

An annual financial plan is developed, including a targeted training budget, which amounts to 908,076.98 tenge. The financial plan aligns with the Development Program for the period 2024-2028. The share of funding allocated to residency programs, considering the expansion of residency specialties, increased from 728,873% in 2021 to 926,568% in 2023. The largest expenditure is allocated to the acquisition of equipment.

During a meeting with financial sector employees, experts determined that the salary fund amounts to 6,368,708.89 tenge. An annual financial report is provided, which demonstrates, among other aspects, the distribution of educational resources in accordance with needs and the coverage of all types of expenses for the implementation and development of the residency program.

8.4 Administration and Management

The institution has an adequate administrative staff (95 employees) and teaching staff (987 employees), including management, totaling 1,082 personnel. To ensure the effective management of the educational process, employees of the Department of Academic Affairs completed professional development training in 2023.

Experts determined that the Policy for Quality Assurance in the Educational Process was developed within the framework of the Quality Management System of NJSC "MUK" (ISO 9001:2015). The policy is revised when regulatory legal acts change, when the university's strategic goals are updated, or when stakeholder requirements are modified.

The assessment of administration and management of the educational process in general, as well as the residency educational program in "Oncology (Adult)", is conducted through systematic monitoring, data analysis, feedback evaluation from students and residents, and the involvement of internal and external experts.

8.5 Requirements and regulations

The educational organization adheres to the recommendations of national authorized bodies, including the Ministry of Science and Higher Education of the Republic of Kazakhstan and the Ministry of Healthcare of the Republic of Kazakhstan. In accordance with the classifier of residency specialties (On the Approval of the Classifier of Fields of Study for Higher and Postgraduate Education), all educational programs are provided with the necessary educational and methodological documents and qualified teaching staff.

Conclusions of the EEC on the criteria. Comply with 11 standards (including 8 basic, 3 improvement standards): fully - 11, partially - 0, do not comply - 0

Standard 9: CONTINUOUS RENEWAL

The university has planned initiatives aimed at ensuring a rapid response to changing conditions. These initiatives are reflected in the Development Program of NJSC "MUK" for the period 2024–2028, which was approved on December 11, 2023, by the Resolution of the Government of the Republic of Kazakhstan No. 1105.

NJSC "MUK" actively conducts regular monitoring and updates the residency training process to ensure the continuous improvement of the educational process in line with best practices in educational management worldwide and considering the needs of practical healthcare in the Republic of Kazakhstan. As part of this process, in 2019, the final learning outcomes and competencies of residents were reviewed and analyzed in light of the latest trends in oncology diagnostics and treatment.

To systematically improve the educational process, sociological research is conducted, including studies on new integrated interdisciplinary teaching methods. Additionally, literature on postgraduate medical education is analyzed, relevant specialties are examined, and potential universities for developing joint educational programs are considered.

There is also a growing trend of participation in scientific projects, grant-funded research, and scientific-technical programs, both within the framework of grants from the Ministry of Science and Higher Education of the Republic of Kazakhstan and through intra-university grant competitions. Their own experience in scientific research, often involving an in-depth analysis of global scientific literature, serves as a powerful motivational foundation for making changes to the educational program.

Conclusions of the EEC on the criteria. Comply out of 2 standards (including 1 basic, 1 Standard of improvement): fully - 2, partially - 0, do not comply - 0.

CONCLUSION: during the external evaluation of the educational programme, it was found that out of 114 standards (including basic standards - 82 and improvement standards - 32), full

compliance is demonstrated by 112 standards for accreditation, including 80 basic standards and 32 improvement standards. 2 basic standards are partially fulfilled. No non-compliance with standards was found.

5. Recommendations for improvement of the educational programme "Oncology (Adult)" of the NJSC "Medical University of Karaganda":

1. Expand the catalog of elective disciplines, with an emphasis on the scientific work of residents. Deadline: 01.09.2024
2. Consider organizing academic mobility programs for residents in the "Oncology (Adult)" program. Deadline: September 1, 2025.

ECAQA

6. Рекомендация Аккредитационному совету ЕЦА

Члены ВЭК пришли к единогласному мнению рекомендовать Аккредитационному совету аккредитовать образовательную программу 7R01117 «Онкология (взрослая)» НАО «Медицинский Университет Караганды» на период 5 лет.

Председатель ВЭК

ЖАНАЛИНА БАХЫТ СЕКЕРБЕКОВНА

Международный эксперт

НАСЫРОВ РУСЛАН АБДУЛЛАЕВИЧ

Международный эксперт

ТРОЙНИЧ ЯНА НИКОЛАЕВНА

Академический эксперт

ЖУМАЛИНА АКМАРАЛ КАНАШЕВНА

Академический эксперт

МАДЬЯРОВ ВАЛЕНТИН МАНАРБЕКОВИЧ

Академический эксперт

НУГМАНОВА АЙГУЛЬ МАРАТОВНА

Академический эксперт

АПБАСОВА САУЛЕШ АХАТОВНА

Академический эксперт

ЕСЕТОВА ГУЛЬСТАН УТЕГЕНОВНА

Академический эксперт

САДЫКОВА АЙНУР МАРАЛОВНА

Академический эксперт

ТУКСАНБАЕВА ГУЛЬФАРИЗА УСЕНБАЕВНА

Академический эксперт

ИЗТЛЕУОВ ЕРБОЛАТ МАРАТОВИЧ

Академический эксперт

ПАК ЛАУРА АЛЕКСЕЕВНА

Академический эксперт

КАМХЕН ВИТАЛИЙ БРОНИСЛАВОВИЧ

Эксперт-работодатель

ДАНИЯРОВА БАЯН ЛАШИНОВНА

Эксперт-обучающийся

ДЮСЕМБЕК НЭЗИРА ӘСКЕРБЕКҚЫЗЫ

The image shows a vertical list of 18 handwritten signatures in blue ink, each written on a horizontal line. The signatures correspond to the names of the experts listed on the left side of the page. The signatures vary in style, with some being more stylized and others more legible. The names of the signatories are: ЖАНАЛИНА БАХЫТ СЕКЕРБЕКОВНА, НАСЫРОВ РУСЛАН АБДУЛЛАЕВИЧ, ТРОЙНИЧ ЯНА НИКОЛАЕВНА, ЖУМАЛИНА АКМАРАЛ КАНАШЕВНА, МАДЬЯРОВ ВАЛЕНТИН МАНАРБЕКОВИЧ, НУГМАНОВА АЙГУЛЬ МАРАТОВНА, АПБАСОВА САУЛЕШ АХАТОВНА, ЕСЕТОВА ГУЛЬСТАН УТЕГЕНОВНА, САДЫКОВА АЙНУР МАРАЛОВНА, ТУКСАНБАЕВА ГУЛЬФАРИЗА УСЕНБАЕВНА, ИЗТЛЕУОВ ЕРБОЛАТ МАРАТОВИЧ, ПАК ЛАУРА АЛЕКСЕЕВНА, КАМХЕН ВИТАЛИЙ БРОНИСЛАВОВИЧ, ДАНИЯРОВА БАЯН ЛАШИНОВНА, and ДЮСЕМБЕК НЭЗИРА ӘСКЕРБЕКҚЫЗЫ.

Профиль качества и критерии внешней оценки образовательной программы резидентуры по специальности «Онкология (взрослая)» НАО «Медицинский университет Караганды» (обобщение)

Стандарт	Критерии оценки	Количество стандартов	БС*/СУ	Оценка		
				Полностью соответствует	Частично соответствует	Не соответствует
1.	МИССИЯ И КОНЕЧНЫЕ РЕЗУЛЬТАТЫ	14	9/5	9/5	0/0	0/0
2.	ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА	22	19/3	17/3	2/0	0/0
3.	ОЦЕНКА РЕЗИДЕНТОВ	9	6/3	6/3	0/0	0/0
4.	РЕЗИДЕНТЫ	20	14/6	14/6	0/0	0/0
5.	АКАДЕМИЧЕСКИЙ ШТАТ/ПРЕПОДАВАТЕЛИ	8	7/1	7/1	0/0	0/0
6.	ОБРАЗОВАТЕЛЬНЫЕ РЕСУРСЫ	18	11/7	10/7	1/0	0/0
7.	ОЦЕНКА ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММЫ	10	7/3	7/3	0/0	0/0
8.	УПРАВЛЕНИЕ И АДМИНИСТРИРОВАНИЕ	11	8/3	8/3	0/0	0/0
9.	НЕПРЕРЫВНОЕ УЛУЧШЕНИЕ	2	1/1	1/1	0/0	0/0
		114	82/32	112	2	
				114		

Список документов, изученных членами ВЭЖ в рамках проведения внешней оценки образовательной программы резидентуры

№	Наименования документов/дата утверждения	Количество
1.	План развития НАО «МУК»	1
2.	Академическая политика	1
3.	Политика приема обучающихся в НАО «МУК»	1
4.	Правила внутреннего распорядка для обучающихся	1
5.	ОП «Онкология взрослая»	1
6.	Протокол заседания кафедры	8
7.	Договор о совместной деятельности №370	1
8.	Аттестация резидентов 2 года обучения по учебным годам	1
9.	Договор №544 Возмездного оказания услуг	1
10.	Штатное расписание ППС, обучающихся резидентов по специальности: Онкология (взрослая)	1
11.	Силлабусы	4
12.	Список публикации штатных ППС по специальности «Онкология (взрослая)»	1
13.	Повышение профессиональной и педагогической квалификации штатных преподавателей по специальности: онкология (взрослая)	1
14.	Повышение педагогической квалификации клинических наставников по специальности «Онкология (взрослая)»	7
15.	Укомплектованность научной и учебной литературы НАО «МУК»	1
16.	Список опубликованных работ резидентами по специальности: «Онкология (взрослая)» за период 2020 по 2023 гг	1
17.	Трудоустройство резидентов по специальности: онкология (взрослая)	1
18.	Сведения о финансировании и основных расходах на обучение (к Стандарту 8 «Управление и администрирование», п.8.3)	1