

To the Accreditation Council of the  
Eurasian Center for Accreditation and  
Quality Assurance in Education and Health Care  
17.05.2024

**REPORT  
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF THE  
EVALUATION OF THE EDUCATIONAL PROGRAMME  
7R01114 "NEONATOLOGY"  
OF THE NJSC "MEDICAL UNIVERSITY OF KARAGANDA" FOR  
COMPLIANCE WITH THE STANDARDS FOR ACCREDITATION OF  
POSTGRADUATE EDUCATION PROGRAMMES (RESIDENTIAL  
SPECIALTIES) OF MEDICAL EDUCATIONAL ORGANIZATIONS**

**Period of external expert evaluation: May 15 - May 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
HEI	Higher Education Institution
SCES	State Compulsory Education Standard
DAA	Department of Academic Affairs
DET	Distance Educational Technologies
DI & ID	Department of Informatization and Infrastructure Development
DHRM	Department of Human Resources Management
USHEM	Unified Higher Education Management System
FCC	Final Certification Commission
IA	End-of-course assessment
IEP	Individual Educational Plan
IWP	Individual Work Plan
EC	Elective Component
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 Centre for Independent Examination
SC	Scientific Center
RI	Research institute
RW	Research work
RCCH	Regional Children's Clinical Hospital
RCH	Regional Clinical Hospital
EP	Educational programme
CPS	Certification of practical skills
ICU	Intensive care unit
AAR	Assessment of admission rating
OSCE	Objective structured clinical examination
SS	Secondary school
MD	Major disciplines
MC	Major competencies
PHC	Primary health care
Academic Staff	Academic staff
RK	Republic of Kazakhstan
LO	Learning outcome
WC	Working curriculum

SSS	Student support service
IWR	Independent work of residents
IWRT	Independent work of residents with teachers
PMS	Employee performance management system
SS	Secondary school
SS	Secondary school
TB	Terabyte
TVET	Technical and vocational education
LLP	Limited liability partnership
TC	Typical curriculum
EMC	Educational and methodological complex
PHD KO	Public Health Department of the Karaganda region
FAT	Faculty of advanced training
CSET	Centre simulation and educational technologies
PSC	Practical skills center
CAT	Center for advanced training
SR & PD	School of residency and professional development
AMEE	An international association medical education
CBL	Cased – based learning
ECTS	European Credit Transfer System
GPA	Grade point average
PBL	Problem-based learning
RBL	Research-based learning
TBL	Team-based learning
LO	Learning outcome

### 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 residency in the specialty 7R01114 "Neonatology" of the NJSC "Medical University of Karaganda" in the period from May 15 to 17, 2024, consisting of the following members:

<b>№</b>	<b>Status in the EEC</b>	<b>Full name</b>	<b>Academic degree, academic title, position, place of work/place of study, year, specialty.</b>
1	Chairman	Zhanalina Bakhyt Sekerbekovna	Doctor of Medical Sciences/Associate Professor, Professor of the Department of Surgical and Paediatric Dentistry of the 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 Pediatric 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 Educational and Training Affairs of the Armenian-Russian International University "Mkhitar Gosh", translator of medical literature - Logosfera Publishing House.
4	Academic Expert	Zhumalina Akmaral Kanashevna	Doctor of Medical Sciences, Professor, Head of the Department of Pediatric Diseases with Neonatology of the 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 the Course of anaesthesiology and resuscitation of the NJSC "Kazakh-Russian Medical University"
6	Academic Expert	Nugmanova Aigul Maratovna	Doctor of Medical Sciences, Head of the Department of Paediatrics with the Course of 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 of the NJSC "Kazakh National Medical University named after S.D. Asfendiyarov"
9	Academic Expert	Sadykova Ainur	Candidate of Medical Sciences, Associate

		Maralovna	Professor of the Department of Infectious and Tropical Diseases of the 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 NCE "ATAMEKEN", for institutional accreditation.
10	Academic Expert	Tuksanbaeva Gulfariza Usenbaevna	Candidate of Medical Sciences, Associate Professor, 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 of the NJSC "West Kazakhstan Medical University named after Marat Ospanov", internal auditor of the management service.
12	Academic Expert	Pak Laura Alekseevna	MD, PhD, Associate Professor, Head of the Department of Clinical Oncology and Nuclear Medicine of the NJSC "Semey Medical University".
13	Academic Expert	Kamhen Vitaly Bronislavovich	PhD, Associate Professor, Associate Professor of the Department of "Health Policy and Organization" of the NJSC "Al-Farabi Kazakh National University".
14	Employer Expert	Daniyarova Bayan Lashinovna	Deputy Director for Strategic Development of the MSE "Regional Clinical Hospital" of the Public Health Department of the Karaganda Region.
15	Student Expert	Dyusembek Nazira Askerbekkyzy	Resident of the second year of study in the specialty "Neurology for Adults, Children" of the NJSC "Astana Medical University".
16.	ECAQA Observer	Umarova Makpal Aldibekovna	Head of the Accreditation and Monitoring Department of the NI "Eurasian Center 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 of the specialty 7R01114 "Neonatology" for compliance with the Standards for accreditation of postgraduate education programmes (residency specialty) 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 the specialty 7R01114 "Neonatology" 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)	Year of commencement - 2010. Total number of graduates since the beginning of the residency programs - 39
Duration of training	2 years
Number of residents in the current academic year	1st year - 6 residents 2nd year - 5 residents
Quality indicators in residency	Number of residents in the Neonatology program expelled over a period of 5 years - 12, including 1 person for academic failure.  Employment rate, % in dynamics over 5 years: 2019 -100% 2020 -83.4% (2 went on maternity leave) 2021 - 100% 2022 - 90% (1 resident went on maternity leave) 2023 - 90% (1 resident went on maternity leave)
Full-time teachers/part-time workers involved in the implementation of the EP, incl. % of Sedateness	Total number of teachers - 6, including full-time - 6, part-time - 0.  Sedateness - 100% Categorization, % - 100%

The educational programme (hereinafter referred to as the EP) in the specialty 7R01114 "Neonatology" was first developed at NJSC "MUK" in 2010 (No. 0137360 series AB dated 07.04.2010) based on the State Educational Standards of the Republic of Kazakhstan - 2009, the Typical Curriculum (Astana, 2010), the Regulation of KSMU on residency dated 20.01.2011, developed on the basis of the Resolution of the Government of the Republic of Kazakhstan dated 24.04.2006 No. 317 "On the concept of reforming medical and pharmaceutical education in the Republic of Kazakhstan" and the order of the Ministry of Health of the Republic of Kazakhstan dated 31.01.2008. No 28 "On approval of the Regulation on residency", Instructional letter No. 8 "On the

development of educational and methodological documentation in medical education and science organizations of the Republic of Kazakhstan that train residents”.

According to the AC NJSC "MUK" (approved by the decision of the Senate on August 27, 2021, protocol No. 1 (<https://www.qmu.edu.kz/media/qmudoc/AcademPolitika.pdf>) the university has autonomy and, in accordance with the license for the right to conduct educational activities (<https://cloud.mail.ru/public/m8JN/T6ZeUXCVD>) within the framework of the EP groups according to the classifier of training areas, develops an EP based on the current State Compulsory Educational Standard and TC.

In 2010, KSMU, in accordance with the license (No. 0137360 series AB dated April 7, 2010), in the specialty "Neonatology" carried out the first admission on the basis of a grant, a business contract order, and based on the results of the entrance exams, 3 residency students were enrolled.

Duration of study is 2 years. Year of the first graduation was 2013. In 2019, the educational programme was accredited by the IAAR (certificate registration number: AB 2591/1, educational programme accreditation validity period: 13.06.202). The educational programme "Neonatology" was developed and registered in the EHEA register, registration number 7R09100252, on 13.08.2020 and updated on 05.05.2023 in accordance with the new State Compulsory Educational Standard, order No. 63 of 04.07.2022.

Over the past 5 years, the number of residents has amounted to 39: in the 2019-2020 academic year, 8 residents completed their training, of which (8 by state order); in the 2020-2021 academic year - 12 residents (12 - state order), in the 2021-2022 academic year - 4 residents (4 state order), in 2022-2023 - 10 residents (10 state order) in 2023-2024 - 5 residents (5 state order).

The head of the EP until the 2019 academic year was Associate Professor: Zhumakanova K.S., since the 2019-2020 academic year, Professor Kizatova S.T. Deputy Chairman of the Committee of Educational programmes in the specialty "Neonatology".

The mission of the EP was developed in accordance with the institutional (university-wide) Mission and is aimed at training highly qualified specialists capable of meeting the needs of society in providing medical care to new-born children, applying and developing advanced innovative technologies in medicine, science and practice, using the achievements of information and communication technologies, and strengthening the health of new-born children.

The EP of the residency "Neonatology" and its Mission were reviewed and discussed with the participation of all stakeholders: students, employers and the faculty (hereinafter referred to as the Academic Staff) at a meeting of the Academic Committee (hereinafter referred to as AC) of the School of Education and Research (minutes No. 4 of 06/07/2019), approved by the Academic Council (minutes No. 7 of 06/18/2019 (<https://cloud.mail.ru/public/TGb5/HoFg4etSH>), approved at a meeting of the Academic Council and the Chairman of the Board - Rector of the NJSC "MUK" (06/27/2019, minutes No. 10).

In 2020, the EP "Neonatology" was included in the register of the Unified System of Higher Education Management (hereinafter referred to as USHEM) of the Ministry of Higher Education of the Republic of Kazakhstan (date of registration 13.08.2020). In 2022, the EP "Neonatology" was updated, during which the mission of the EP was again discussed at a meeting of the Council of the School of Residency and Professional Development with the participation of employers and students (minutes No. 11 of July 7, 2022 <https://cloud.mail.ru/public/6XZg/zDexQJYDC>, subsequently approved at a meeting of the Quality Assurance Commission of the School of Residency and Professional Development (hereinafter referred to as the QACS) (minutes No. 3 of July 5, 2022), and approved by the decision of the Board of NJSC "MUK" (minutes No. 16 of July 13, 2022). Included in the list of EPs by the decision of the Board of Directors of NJSC "MUK" dated May 27, 2022. (<https://cloud.mail.ru/public/6TVS/eYXm83TXp>).

The EP "Neonatology" was updated in the register of the EHEA MSHE RK from 05.05.23 and is available to the public and all interested parties in the healthcare sector ([http://esuvo.platonus.kz/#/register/education\\_program/application/31236](http://esuvo.platonus.kz/#/register/education_program/application/31236)).



The distribution of resident doctors among residency bases is carried out by the educational organization independently in accordance with the IWP of the resident doctor, in accordance with the Regulation on the residency of NJSC "MUK" approved. By the Decision of the Board of 08.23.2022, protocol No. 18. (<https://cloud.mail.ru/public/JkFC/vRPVY5oLU>).

## **2.2 Information on previous accreditation**

In 2019, the EP was accredited by IAAR (certificate registration number: AB 2591/1, EP accreditation validity period: 13.06.202).

## **2.3 Brief description of the results of the analysis of the self-assessment report of the educational programme 7R01114 "Neonatology" of the NJSC "Medical University of Karaganda" and conclusions on the completion**

The report on the self-assessment of the educational programme 7R01114 "Neonatology" of the NJSC "Medical University of Karaganda" (hereinafter referred to as the report) is presented on 127 pages of the main text, electronic versions of 75 documents located at the link <https://cloud.mail.ru/public/VuG6/E3kaivWs4>.

The report is characterized by the completeness of answers to all 9 main standards for accreditation and criteria, structured taking into account the recommendations of the Guide to conducting self-assessment of the educational programme provided to the educational organization by the accreditation centre - ECAQA, as well as the internal unity of information. A cover letter signed by the Chairman of the Board - Rector Turmukhambetova Anar Akylbekovna is attached to the report, which confirms the reliability of the quantitative information and data included in the self-assessment report. The report contains a list of 9 members of the internal self-assessment commission indicating the responsibility of each employee, information about the representative of the organization responsible for conducting the self-assessment of the educational programme - chief specialist of the strategic development and quality management department, Yernazarova Madina Ainullaevna.

Self-assessment of the educational programme "Neonatology" was carried out on the basis of the order of the rector of the university No. 274 dated September 16, 2022 "On approval of the composition of the working group for conducting self-assessment of educational programmes".

All standards provide the University's actual practice of training residents in the specialty "Neonatology" taking into account the start of admission of students in 2010, substantiated data, examples of the implementation of the objectives of the educational programme, national and international events, methodological support, confirming compliance with the requirements of standards for accreditation. The description in the self-assessment report is quite complete and updated in terms of the number of residents, teachers, administration, information on selection and admission, training results, results of knowledge and skills assessment, the material and technical base of the university and clinical sites, contractual obligations with partners (universities, associations, and bases), financial information, plans for development and improvement.

The report is submitted to the ECAQA in its final form, with data adjustments according to the above recommendations, written in competent language, the wording for each standard is clear and understandable, and described in accordance with the criteria of the standards, the tables contain references in the text and have continuous numbering.

## **3. Description of the external expert evaluation**

The external expert work within the framework of the evaluation of the educational programme 7R01114 "Neonatology" was organized in accordance with the Guidelines for the external evaluation of educational organizations and educational programmes of the ECAQA / Dates of the visit to the organization: May 15-17, 2024. The sequence of the visit over 3 days is presented in detail in Annex 3 to this report

To obtain objective information, the EEC members used the following methods and their results:

- interviews with the management and administrative staff - 6 people;

- interviews with residents - 5 people
  - study of the website muk.qmu.kz/ru/ob-universitete;
  - interviews with 5 employees, 3 teachers, 2 mentors;
  - questionnaires of teachers and residents - 25 and 39, respectively;
  - observation of the training of residents: attendance at 1 practical lesson at the clinical base of the MRCH, st. Shakhterov 83 in the training room, assistant professor is Yerimbetova Nazim Abylaevna conducted a practical lesson with 1-year residents on the subject of "Outpatient Neonatology" on the topic of "Organization and work of the follow-up room".
1. Review of resources in the context of fulfilling standards for accreditation: 2 practice/clinical engagement bases were visited, including MSE "RCH" Perinatal Centre No. 2 at the address st. Lunacharskogo 6a, MRCH str. Shakhterov 83, where training is conducted under the educational programme with the participation of 4 full-time teachers;
- Study of educational and methodological documents in the amount of 48 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 conversations (Table 1).

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

<b>№</b>	<b>Position</b>	<b>Quantity</b>
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 program, residency)	6
6.	Teachers	35
7.	Students	47
8.	Employers	17
9.	Graduates	24
	<b>Total</b>	<b>156</b>

On the last day of the visit to NJSC "MUK", a meeting of the EEC members was held on the results of the external evaluation. A final discussion of the results of the external evaluation of the educational programme, examination of documents, interview results, and questionnaires was held. The EEC members began drafting the final report of the EEC. Generalizations of the external evaluation results were made. The experts individually filled out the "Quality Profile and Criteria for External Evaluation of the Educational programme "Neonatology" for Compliance with the ECAQA Standards for accreditation". The EEC members made no comments. Recommendations for improving the educational programme were discussed and the chairperson, B.S. Zhanalina, held a final open vote on the recommendations for the ECAQA Accreditation Council.

Comfortable conditions were created for the work of the EEC; access to all necessary information and material resources was organized. The Commission notes the high level of the University's corporate culture, the high degree of openness of the team in providing information to the ECAQA members.

*While conducting a survey of residents, 80% rated the work of the External Expert Commission for Accreditation as positive, 20% as satisfactory. The majority of respondents (79.4%) believe that it is necessary to conduct accreditation of an educational organization or educational programmes.*

*According to 64% 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 evaluation as part of the specialized accreditation.

#### **4. Analysis of compliance with standards for accreditation based on the results of external evaluation of the educational programme 7R01114 "Neonatology" of the NJSC "Medical University of Karaganda"**

##### **Standard 1: MISSION AND FINAL OUTCOMES**

###### **1.1 Mission statement**

During the implementation of the program activities, namely, following the interview with the first head of the organization, members of the Board of NJSC "MUK", in interviews with residents and teachers, compliance with the criteria of **Standard 1** was established. All participants in the educational process know the mission of the educational programme, took part in the formation of proposals for formulating the mission, while the mission was communicated to potential residents through the website, social networks, information letters to medical organizations. The strategic plan of the organization for a period of 5 years was reviewed, including such areas as educational, scientific, clinical, which confirms the fulfilment of the standards for accreditation and demonstrates the goals, objectives and prospects of the organization. From interviews with residents it was established that before the start of classes, teachers inform about the mission, work plans of the educational organization, tell where to get the necessary information about the educational programme, teachers, training bases.

During the visit to the divisions of NJSC "MUK", the experts noted the strengths of the educational organization in relation to the accredited educational programme, including: a division directly related to the educational programme operates - the School of Residency and Professional Development; there are procedures for the development and adoption of LSI and their management; conditions for mastering the necessary competencies have been created; EPs are developed on the basis of a competency-oriented model of a residency graduate, in accordance with the needs of the labour market; highly qualified staff of teachers and mentors; sufficient material and technical base, high quality of training confirmed by the results of an independent assessment of the knowledge and skills of NCIE graduates,

In the NJSC "MUK" there are divisions that are directly related to the educational programme 7R01114 "Neonatology", DAA, SR and PD, which determine the main directions of the introduction and application of innovative teaching technologies in the educational process.

The results of the study of the documentation demonstrate that the mission of the organization and the mission of the educational programme 7R01114 "Neonatology", and the educational process are built in accordance with the State Compulsory Educational Standard and current LSI in postgraduate education and health care.

JSC "MUK" conducts training of residents at the following clinical sites and departments: MSE "RCH" PC No. 1 and PC No. 2, which include perinatal centres No. 1 and 2; delivery room, neonatal departments, clinical and biochemical, immunological, bacteriological laboratories, functional and ultrasound, radiation diagnostics rooms with the appropriate modern equipment and the necessary conditions for high-quality training of residents, where it provides a patient-oriented approach through the achievement of learning results aimed at mastering the knowledge of the basics of anatomy and physiology, skills of general medical manipulations, collecting anamnesis, somatic examination of patients, identifying clinical symptoms and syndromes, making a diagnosis with differential

diagnostics, providing emergency specialized medical care in life-threatening conditions, rehabilitation, prevention of pathology, health education work to promote a healthy lifestyle. The educational organization pays due attention to the safety and autonomy of patients by creating conditions for residents during training at clinical sites.

Experts have found that residents have appropriate working conditions to support their own health, since the clinical sites of NJSC "MUK" carry out organizational and technical measures for the safety and labour protection of students provide them with the personal protective equipment necessary for work. Before starting work, residents undergo training and sign a safety familiarization sheet.

Basic competencies of residents in the accredited specialty, such as a practicing physician, a specialist physician of the relevant profile with an interdisciplinary approach, as well as special competencies, including "Clinical Skills", PC2 "Communications", PC3 "Professionalism", PC5 "Research", PC6 "Personal and Professional Development" help NJSC "MUK" of education to apply innovative forms of training. This will allow residents to develop such skills and qualities as the skills of a researcher, a medical expert, a manager.

The educational organization encourages residents to strive to participate in research in their chosen specialty through the study and analysis of scientific material, best practices, international guidelines for diagnosis and treatment (PubMed, Elsevier, Cochrane Library, Clinical Trials), access to which is provided by the university, and also ensures the participation of residents in such academic events as current issues of neonatology at online sessions of the journal club at the Congress of Obstetricians-Gynaecologists and Neonatologists of the Republic of Kazakhstan.

## **1.2 Professionalism and Professional Autonomy**

Experts have determined that the formation of professionalism includes the ability to demonstrate the qualities necessary to maintain continuous personal and professional growth, continuous improvement of patient care based on ongoing self-assessment and lifelong learning, as well as commitment to the performance of professional duties, compliance with ethical principles and the use of the most effective methods to ensure a high level of safety and quality of medical care. The educational organization promotes the professional autonomy of residents by providing them with independent patient reception, night shifts, and holiday shifts (4 shifts per month, according to the Regulations on Residency).

The experts found that NJSC "MUK" fully exercises autonomy in the selection of residents for accredited specialties (according to the AC NJSC "MUK" approved by the decision of the Senate on August 27, 2021, protocol No. 1), development of an educational programme, determination of approaches to resident assessment (Regulations on the management of the EP (Decision of the Board of NJSC "MUK" dated September 9, 2020, protocol No. 14)), since the university has autonomy and in accordance with the license for the right to conduct educational activities (<https://cloud.mail.ru/public/m8JN/T6ZeUXCVD>). The responsible employees demonstrated to the experts a document defining the requirements for teachers of the residency program (Residency Regulations of NJSC "MUK" (<https://cloud.mail.ru/public/JkFC/vRPVY5oLU>)). Employment of residents is regulated through the portal of the Electronic Labour Exchange (<https://www.enbek.kz>) and the rate is 98%.

To verify **Standard 1** a meeting was held with the head of the organization, Turmukhambetova A. A. During the conversation, the experts asked the following questions: about the involvement of teachers and students in the work of the methodological commission, the involvement of employers and all interested parties in the formation of proposals for the choice of programs, to improve the material and technical base, the main directions of strategic planning, as well as approaches to attracting employees of clinical sites for teaching, the strategy and tactics of recruiting residents, information support for education and problems of managing and developing human resources. During the answers, the rector of the NJSC "MUK" Turmukhambetova A.A confirmed the personnel potential of the NJSC "MUK" currently consists of highly professional specialists in the field of paediatrics, neonatology, neurology, it is planned to attract other specialists from other universities and expand

international relations with partners. During the answers, the rector confirmed and voiced the vision and key activities for the implementation of the development strategy, the integration of clinical, scientific and educational activities, the experts also reviewed the strategic plan for 5 years, some financial documents, the annual plan for 2024 and the report for 2023, interviews were conducted with employees of the human resources management department and the department of economics and finance, which made it possible to validate the **standards for accreditation 8**.

Academic freedom of residents is manifested in participation in the organization of the curriculum of the specialty during the direct discussion and approval of the EP, at the level of developing the IEP and EC at meetings of the Council of HR and PD, and is ensured by the organization of education through such mechanisms as residents are members of the Council of HR and PD and a member of the QACS and is described in the document (<https://cloud.mail.ru/public/6z5p/maW1JuhPu>), (<https://cloud.mail.ru/public/SUAj/FQ5DZeTaB>).

*While conducting a survey of 39 residents (on the resource <https://webanketa.com/>), out of 24 questions, a number were devoted to the quality of the educational process and the educational programme. It was found that 89.4% of residents would recommend studying in this educational organization to their acquaintances, friends, relatives. And 97.4% of respondents believe that the heads of the educational programme and teachers are aware of the problems of students related to training. To the question "Do you think this educational organization allows you to acquire the necessary knowledge and skills in your chosen specialty?", 97.4% of residents answered positively, 2.6% are not sure about this, 0% could not yet answer this question and 0% would like to believe it.*

*The 25 teachers surveyed (24 survey questions) also answered that 80% are satisfied with the organization of work and the workplace in this educational organization, and 20% partially agree with this statement. The experts determined that the organization has a healthy microclimate, since the manager is quite accessible to both residents and employees, responds promptly to applications and requests. In the questionnaire, 92% of teachers are satisfied with the microclimate of the organization, and 8% are partially satisfied. According to 88%, a teacher has the opportunity to realize himself as a professional in his specialty in the educational organization. For information, a total of 25 people responded (there are 25 on staff in total), while teaching experience of up to 5 years - 0%, up to 10 years - 16%, over 10 years - 84%.*

### **1.3 Final learning outcomes**

The final learning outcomes are defined and included in the document of the EP "Neonatology", which was developed by representatives of NJSC "MUK", employers and approved by the decision of the Board of Directors, protocol 16 dated 13.07.22. Informing interested parties about the final results of training of residents in the specialty 7R01114 "Neonatology" is carried out by posting in the register of the UHEA RK ([https://epvo.kz/#/register/education\\_program](https://epvo.kz/#/register/education_program)). The experts were convinced that the professional behavior and communication skills of residents are formed through compliance with the business ethics of deontology and are reflected in the relevant document - the Code of Business Ethics of NJSC "MUK" (Annex 8 to the decision of the Board of Directors dated August 24, 2019, protocol No. 4). Teachers and residents are informed about the code of ethics. You can familiarize yourself with the content of the code of ethics on the website of the University (<http://www.qmu.edu.kz/media/qmudoc/kodeks.pdf>).

While determining the final learning outcomes, the staff of the School of Residency and Professional Development took into account the previous learning outcomes in the bachelor's and internship programs, as well as the goals and objectives of subsequent continuous professional development in the chosen specialty. The educational organization conducts training in additional and informal education (continuous professional development), including programs in the specialty of the accredited educational programme. For example, additional education programs have been developed in the specialty of "Neonatology": "Innovative Technologies in Diagnostics and Treatment of Pathology of New-borns" for 4 credits / 120 hours; "Innovative Technologies in Outpatient

Neonatology" for 2 credits / 60 hours; "Neonatal Jaundice" for 2 credits / 60 hours; Pathology of Prematurity for 2 credits / 60 hours.

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

*The experts 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. NJSC "MUK" has developed 4 programs of additional education for the specialty "Neonatology". Residents are informed about this.*

*80% of the teachers-respondents believe that students of this educational organization have a high level of knowledge and practical skills after completing the training program, and 20% partially agree with this.*

#### **1.4 Participation in formulating the mission and final results**

While developing the goals and objectives of the educational programme 7R01114 "Neonatology", administrative and managerial personnel, Academic staff, students, employers took part, which is confirmed by the document of the AC of the school and professional development and residency. Such proposals were made as including the approved Standard for the organization of neonatal care in the Republic of Kazakhstan. While updated regulations and orders in education and healthcare are issued, the developers of the educational programme take into account the opinions of employers and make appropriate changes. For example, order No. 52 of the Ministry of Health of the Republic of Kazakhstan (<https://cloud.mail.ru/public/fg9v/qDSao35GH>) prompted teachers to add the following to the curriculum: This year, the approved Standard for the Organization of Neonatal Care in the Republic of Kazakhstan dated March 31, 2023, was included in the subject plan of the discipline "Healthy Full-Term New-borns".

At the same time, when talking with residents and employers, experts did not receive a clear answer to the question "Do you participate in formulating the mission and goals of the organization, educational programme?", "What is the personal contribution of residents to improving the educational programme?" Residents answered these questions, Residents and employers answered that they are members of the Council of the SR and PD.

**Conclusions of the EEC on the criteria.** Comply with 14 standards (including 9 basic, 5 improvement standards): fully - 14.

## **Standard 2: EDUCATIONAL PROGRAMME**

### **2.1 Framework parameters of the postgraduate medical education program**

The model of the educational programme for the specialty 7R01114 "Neonatology" is determined on the basis of the final learning outcomes of residents; therefore it includes the development of 6 key competencies by residents (<https://cloud.mail.ru/public/KCyF/jpGQuPXMC>). Duration of training is 2 years. The systematicity and transparency of training is guaranteed by the fact that the process of training residents, including methods, training tools and assessments, are implemented through information on the university website, the AIS "Platonus", the procedure for reviewing the EP, monitoring the learning outcomes.

To implement the educational programme in the specialty 7R01114 "Neonatology" in the organization's documents there are educational and methodological complexes, which define the goal, take into account the integration of practical and theoretical components, independent work. The experts established compliance with the State Compulsory Educational Standard and standard requirements.

Attending a practical lesson at the clinical base of the MRCH str. Shakhtyorov 83 assistant professor Yerimbetova Nazim Abylayevna with 1-year residents on the subject "Outpatient Neonatology" on the topic: "Organization and work of the follow-up room" volume of hours 2, the experts received convincing data that the training is carried out according to plan, before the start of the lesson, residents answer tests, receive feedback from the teacher, have the opportunity to improve

their skills in the specialty. The organization ensures compliance with ethical aspects in the implementation of the educational programme, since the experts studied the code of business ethics of NJSC "MUK" (08/24/2019, protocol No. 4) and during the interview, the residents responded that they were informed about the content of this document.

The analysis of educational activities showed that the scientific basis and all scientific achievements in the relevant disciplines are taken into account, additions are made to the bibliography of the teaching and methodological complex and syllabuses, and teachers use them in the classroom.

The mentoring system, which is described in the "Residency Regulations" approved by the Decision of the Board of NJSC MUK Protocol No. 18, dated August 23, 2022 (<https://cloud.mail.ru/public/JkFC/vRPVY5oLU>) was evaluated. Only 2 mentors, whose tasks are clinical training of students, ensuring continuity between medical education and practical training "at the patient's bedside" in real practice in order to prepare a specialist for independent work. The procedure for informing residents about their rights and responsibilities is reflected in the "AP" (<https://cloud.mail.ru/public/Mj4P/NkDxWtVet>).

***The qualification obtained as a result of mastering the educational programme in the specialty "Neonatology" corresponds to level 8 of the national qualification framework (ESG1.2) and has the code 7R01114.***

The teachers of the EP use such methods of teaching residents, which include both traditional (training "at the patient's bedside", clinical analysis of thematic patients, solving situational problems, discussing issues on the topic of the lesson in accordance with the thematic plan) and active teaching methods CBL, the MOODLE platform (<https://e-learning.qmu.edu.kz/moodle/course/index.php?categoryid=259>), a journal club (<https://cloud.mail.ru/public/HHo1/odeKSMYcu>), simulation training (<https://cloud.mail.ru/public/JkFC/vRPVY5oLU>), including training on emergency conditions in the CSET (<https://cloud.mail.ru/public/4v3b/EVox1fS5j>).

The list of teaching methods is described in the syllabi of disciplines <https://cloud.mail.ru/public/5mOr/vhbwG2vMT>.

Thanks to these methods, residents can participate in providing medical care to patients. Teachers can provide a resident with supervision of approximately 5 thematic patients per day and 15 per month. For example, residents of the educational programme in the specialty "Neonatology" upon completion of training can perform such manipulations as: assessing the general condition of a newborn child at birth, providing qualified primary resuscitation care (stabilization) to new-born children in the maternity ward, conducting treatment measures in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols).

Experts have established that the principles of academic honesty and anti-plagiarism are fully implemented in the educational organization. This is reflected in the document Code of Academic Integrity (<https://cloud.mail.ru/public/a7zY/KifTjorBx>), included in the content of the AP NJSC "MUK", approved by the Board on 08/31/2023, protocol No. 8 (<https://cloud.mail.ru/public/Mj4P/NkDxWtVet>).

Academic integrity is applicable at such stages of resident training as integrated practical classes, mini practical exam. And anti-plagiarism is applicable in the case when residents pass the final control upon completion of the discipline in writing the resident's answers for originality using the PlagiatPL service to detect borrowings in them in educational and scientific works with the formation of a report and an indication of the percentage of similarity. Residents are trained to promptly collect informed consent from patients for any diagnostic and treatment procedures. Experts noted that the medical records contain a corresponding document signed by the patient.

Thus, by the end of 2 years of training, residents will acquire the basic skills and abilities in the profession of a neonatologist (qualification according to unified rating and skills guides, QS and other typical qualification characteristics: ***7.2 Doctor (specialist in the field), who provides neonatal care aimed at prevention, early diagnosis, treatment, maintenance and restoration of vital functions of***

***the body in life-threatening conditions in new-borns, which will allow working in institutions such as level 2 perinatal centres, with a shortage of personnel in level 3 institutions (ESG 1.2).***

Experts have not found any violations regarding the principle of equality in postgraduate education and continuous professional development, since the educational organization complies with the Constitution of the Republic of Kazakhstan, the Law on the Languages of the Peoples of the Republic of Kazakhstan and other LSI in the field of education and health care. For example, in NJSC "MUK" the total number of staff, including administrative and managerial personnel (excluding auxiliary) is 1082 people, of which 803 (74.2%) women and 279 (25.8%) men.

In NJSC "MUK" there is a mechanism for regular adaptation of teaching and training methods to the requirements of modern science and education, as well as to the current needs of practical health care. This mechanism includes an optimal combination of clinical competence with high-quality training of residents on public health issues, continuous professional development, the ability to adapt to various adverse conditions, including epidemiological ones.

This indicates compliance with Standard 2 in terms of adapting training to the needs of residents.

## **2.2 Scientific method**

During the meeting with the Vice-Rector for Research and Clinical Affairs Ye.M Turgunov, it was established that along with the development of clinical skills, the residency programme provides for the involvement of students throughout the entire period of study in the implementation of scientific activities. The teachers said that they teach residents methods of critical evaluation of literature, articles and scientific data, the application of scientific developments. While interviewing residents, the experts learned that they use scientific data in their training, but the educational programme does not include scientific foundations and methodology of medical research in the form of disciplines, including clinical research and clinical epidemiology. The experts were presented with a CED, where the above-mentioned disciplines were not included.

*While surveying residents, it was found that the educational organization has access to the participation of students in research work and 80% of people are fully satisfied with this, 20% are partially satisfied, 0% are not satisfied. Residents should engage in R&D and in response to the questionnaire, 87.1% wrote that they are already engaged in R&D, % plan to start, 5.1% are looking for a R&D topic, 5.1% are not engaged.*

## **2.3 Structure, content and duration of the residency program**

There are documents containing requirements for the structure and content of educational programmes, in that the content, volume and sequence of courses of the residency program 7R01114 "Neonatology" strictly comply with the State Compulsory Educational Standards of 2022 and the Technical Regulations of 2023 of the specialty and are reflected in the WC (<https://cloud.mail.ru/public/PJcS/1nKJ8Ds8Y>). Responsibility for the selection and implementation of innovations in the educational process is borne by V.B. Tashkenbaeva.

The content of the work programs and the catalogue of elective disciplines reflect the needs of the healthcare system, including the consistent acquisition by residents of clinical skills, clinical decision-making skills, communication skills, patient safety issues, medical ethics, which are considered both during the development of skills in practical classes and during the joint work of residents with clinical mentors, practicing doctors of clinical bases, as well as the specifics of R&D and scientific achievements of teachers. These include the following: to participate in clinical trials based on a modern approach, the co-investigator physician must have the relevant experience and competence (Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No RK MOH-310/2020, Annex 1 of the Minister of Health of the Republic of Kazakhstan dated December 11, 2020 No RK MOH-248/2020 in accordance with paragraph 6 of Article 238 of the Code of the Republic of Kazakhstan dated July 7, 2020 "On the Health of the People and the Healthcare System").

For the successful implementation of the educational programme in the specialty "Neonatology", the organization has resources for organizing the assessment of the practical skills of residents (at multidisciplinary trainings within the framework of the school of young internists (forum



"Complex clinical cases in the practice of a resident physician" on April 11, 2023 (<https://cloud.mail.ru/public/4v3b/EVox1fS5i>), "Assessment forms of independent work of a student in a medical university (scientific work).

The planning procedure for the EP is determined by the "Regulations on the management of the educational programme of NJSC "MUK" (Decision of the Board of September 9, 2020, pr. 14) (Annex 3) (<https://cloud.mail.ru/public/PaCd/RU8ZoTShz>). To develop the EP, a working group is created, the composition of which is approved by the dean of the SR and PD. The working group may include: the head of the EP and the coordinator of the residency EP, module coordinators, teachers, employer representatives and students (<https://cloud.mail.ru/public/EGh9/QCqup4j6L>). When planning and developing the EP, the results of the student survey and the opinion of employers are taken into account (<https://cloud.mail.ru/public/6XZg/zDexQJYDC>).

The organizational management of the EP is carried out by the DAA, heads of departments and the DHRM. The theoretical component of the educational programme is 20% of the hours, including the disciplines of the compulsory component and the EC. The practical component of the educational programme consists of 80% of the EP hours in the form of IWRT and IWR. Possible future roles of a residency graduate, namely, a medical expert, a manager are formed through disciplines (or topics) of basic higher medical education in the form of various forms of independent work, participation in SSS, in student scientific conferences. Legal aspects of the physician's activities are discussed in the Module: Neonatology in a hospital, the discipline "Healthy full-term new-borns" in the 1st year of study. The scientific component in the training of residents is formed during the study of the disciplines of the EP within the framework of the implementation of the IWR, it is envisaged to teach residents the skills of critical evaluation of literature, articles and scientific data by preparing presentations in accordance with the subject plan of the discipline on current problems of diagnosis and treatment of neonatal diseases.

The organization of education guarantees the adjustment of the structure, content and duration of the educational programme in the event of any changes in various sciences, demographic, as well as in response to the needs of the healthcare system. For this purpose, there is a mechanism for monitoring educational programmes.

*Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes, in which 92.3% are fully satisfied, 7.69% are partially satisfied, 0% are not satisfied.*

*The organization has 3 of its own clinics (University Clinic, Professional Health Clinic, Dental Clinic) and has also concluded an agreement with 60 medical organizations, and to the question of the questionnaire "Is there sufficient time for practical training (patient supervision, etc.)", 97.4% of residents answered with full agreement, 2.56% partially agree, 0% disagree. 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, and works on mistakes).*

89.7% of the surveyed residents are completely satisfied with the schedule of classes.

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

The management of the educational process, reflected in the self-assessment report (**Standard 2**) and general approaches to management were confirmed during a visit to the organization and a conversation with the manager and employees. The experts got acquainted with the work of the divisions, including the departments, a total of 3 meetings were held and during the cross-interview it was established that there is a documentation system that is transparent and accessible to all teachers and employees, and includes such documents as annual operational plans, annual reports, department regulations, agreements with teachers and residents and educational and methodological documentation (work program, working curricula, syllabuses, journals), assessment tools (checklists, statements), certificates and verifications, conversations with the head and employees. During the visit, the experts saw that NJSC "MUK" promotes the development of practical competencies of residents, including on simulation equipment.

Thus, the responsibility for choosing the base of clinical training and practice of a resident in the specialty "Neonatology" is assigned to the departments of NJSC "MUK". The experts analysed the information on the accreditation of clinical sites and concluded that residents have the opportunity to study directly in the clinic, while complying with all its requirements and contributing to the provision of medical care to the population in their specialty. The experts analysed the information on the accreditation of clinical sites and concluded that residents have the opportunity to study directly in the clinic, while complying with all its requirements and contributing to the provision of medical care to the population in their specialty. The department interacts with health authorities through the conclusion of a joint activity agreement between the NJSC "MUK" and the clinical site, thereby providing residents with the opportunity to study directly in the clinic, while complying with all its requirements and contributing to the provision of medical care to the population in their specialty (<https://cloud.mail.ru/public/vW2S/dD2dSJJJoX>). Resident neonatologists of the 2nd year of training are employed as resident doctors in the perinatal centres of the Regional Clinical Hospital of Karaganda, in the perinatal centre of the MPH of Balkhash, Zhezkazgan and Rudny (<https://cloud.mail.ru/public/dprh/DhCLy2Wcg>).

According to the State Compulsory Educational Standard of 2022 and the TC of 2023, the EP states that a resident neonatologist supervises patients of various profiles: healthy full-term new-borns, full-term new-borns, premature babies with somatic pathology, with neurological, surgical pathology, new-borns in need of resuscitation care,

Therefore, NJSC "MUK" is a specialized institution in the field of neonatological care and provides a lot of opportunities and conditions for qualified training of specialists in residency. Thus, during a conversation with the organization's management, experts received information that the training of residents, and teachers confirmed, is carried out directly in the clinical departments of the neonatology profile. Residents of this specialty can supervise patients with diseases such as neonatal jaundice, RDS, neonatal pneumonia, etc. This is facilitated by mentoring, which is carried out in the organization.

When visiting a practical lesson on the topic: "Organization and work of the follow-up room", lasting 2 hours and talking with residents, experts saw that the organization promotes the development of practical competencies of residents, including on simulation equipment. At the same time, residents deepen their theoretical knowledge, develop communication skills.

Integration between training and provision of medical care (on-the-job training) is carried out by residents studying the protocols for diagnosis and treatment of the most common diseases of the neonatal period, approved by the Ministry of Health of the Republic of Kazakhstan, standards for the provision of medical care, participation in interdisciplinary consultations, with the definition of diagnostic and treatment tactics, providing emergency care to patients with various pathologies, mastering practical skills in providing medical care under the guidance of Academic staff, clinical mentors at the clinical bases of the departments. Training is conducted in accordance with clinical protocols.

*Of the 39 residents surveyed, 89.7% responded that teachers use active and interactive teaching methods in classes quite often, 7.69% believe that they rarely or sometimes.*

The following employees took part in the planning, discussion, approval and review of the educational programme in the specialty "Neonatology": prof. Kizatova S.T., ass. prof. Yerimbetova N.A., chairman of PMT Zhubanysheva K.B.

***Conclusions of the EEC on the criteria.*** Of the 18 standards that comply (including 15 basic, 3 Standards of improvement): fully - 17, partially - 1, do not comply - 0.

**Recommendations for improvement:**

1) To expand the CED taking into account the need to ensure competencies in the scientific foundations and methodology of medical research, including the disciplines of clinical research and clinical epidemiology (2.2.1).

## Standard 3: ASSESSMENT OF RESIDENTS

### 3.1 Assessment methods

The study of the assessment tools (100 tests, MCQs of 2 and 3 difficulty levels in a 50% to 50% ratio, in the amount of 100) showed that the organization has implemented an appropriate assessment policy that allows for a comprehensive assessment of the academic achievements of residents. During the interview, residents talked about the forms of assessment, for example, current control is carried out by oral questioning, written control, tests, comprehensive control, solving cases, homework presentations, assessment at the "workplace", mastering practical skills in the CSET, assessment of assignments on the Moodle platform, and that they are satisfied with everything. They also receive regular feedback from teachers. The system of appealing the assessment results is reflected in the document Regulation on the rating system for assessing the academic performance of students of the NJSC "MUK", (<https://cloud.mail.ru/public/Mj4P/NkDxWtVet>), "Regulation on the residency of NJSC "MUK" (Annex 2) (<https://cloud.mail.ru/public/JkFC/vRPVY5oLU>), approved by the decision of the Board on August 26, 2019 and during the period of operation of the educational organization, there were no precedents of appeal. The assessment covers not only knowledge and skills, but also professional behaviour and communication skills, which is confirmed by the following: in Chapter 4 (clause 95) "Requirements for the level of training of students in educational programmes of postgraduate education in the field of health care (<https://adilet.zan.kz/rus/docs/V2200028716>). The criteria for admission to the final certification are an admission rating of 50% or higher. This is documented in the "Regulations on the rating system for assessing the academic performance of students in NJSC "MUK", if the admission rating is less than 50%, the entry "not admitted" is made in the examination report opposite the student's name.

Admission for independent examination of residents is the admission rating. In the practice of NJSC "MUK" education, residents (including other specialties) pass an independent examination in 100% of cases. All years, 100% of residents in the specialty "Neonatology" successfully passed the independent examination on the first try. The average score of the final certification of 34 graduates for 2019-2023 was 89.8% (38% - "excellent", 62% - "good")

Validation and reliability assessment of resident assessment methods (tests, tasks, cases) is carried out as follows: The university's information systems calculate the distribution of grades and compare it with the standards proposed by the League of Academic Integrity to ensure that the assessment complies with the normal distribution law, indicating the absence of limiting factors in assessment - teachers must use the full range of grades and the grades must actually correspond to the knowledge of students.

The educational organization has a practice of involving external examiners in assessing residents, which is documented by the order of 21.12.23 No. 4 "On approval of the composition of the AC for the 2023-2024 academic year". This ensures the independence and objectivity of the assessment results.

Thus, to verify the **Standard 3** data, the experts asked the following questions: How is the assessment of residents carried out? What documentation system is used in the assessment? to the head of the School of Residency and PD Tashkenbaeva V. B and checked the documents and methods for assessing residents. During the visit to the organization and during the interview, the commission received comprehensive answers and supporting documents that there is a documentation system that is transparent and accessible to all teachers and staff, and includes documents such as annual plans, annual reports, department regulations, agreements with teachers and residents, and educational and methodological documentation (work program, working curricula, syllabuses, journals), assessment tools (checklists, statements), certificates, and credentials.

The organization has standardized tests and extended clinical tasks for the written exam in the amount of 100, which are compiled in accordance with the State Compulsory Educational Standard, TC, EP, and syllabus and approved at a meeting of the specialized methodological commissions. (minutes No. 9 of 12.05.22). The control and measuring tools have been reviewed by the regional

freelance neonatologist Galieva G.K. (minutes No. 1 of 31.08.2023. The head of the SR&PD responded that it is planned to make 30% of additions and updates to the control and measuring tools.

The results of the assessment of residents are documented in electronic statements in the "Platon" system. At the same time, 34 people, according to the results of the final exam for 2019-2023, amounted to 89.8% received "excellent" - 38%, 62% "good", "satisfactory" - 0%.

A review of the website showed that its pages contain the documents necessary for residents - a syllabus, sample tests, tasks, tickets, recommended literature, a schedule of practical classes, thematic plans for seminars and there is information about upcoming events in the organization, which is regularly updated.

### **3.2 Relationship between assessment and learning**

While interviewing 3 teachers regarding assessment methods, experts received convincing information that the results of students' academic achievements are recorded in the electronic academic journal through the educational and methodological office and the AIS "Platonus" program, which automatically generates examination reports. The electronic academic journal is filled in accordance with the calendar-thematic plan, in accordance with the schedule and the dates of the current, midterm and end-of-course assessment reflected in the syllabus.

Residents also shared their opinions on the timeliness of providing tests, conducting consultations before exams, the clarity of the entire assessment procedure and its fairness. For example, residents said that they were generally satisfied with the training, assessment methods, but at the same time they would like more independent work with patients.

The experts inspected the resources for organizing the assessment of knowledge and practical skills; there was a visit to the simulation centre. Considering the capabilities of the simulation centre, an integrated format for assessing the knowledge of students in the EP should be provided.

Experts have determined that the choice of resident assessment methods is based on the final LO and acquired competencies, since the practical part of training is the main one. For example, such current assessment methods as: oral survey, written control, tests, comprehensive control, case solving, homework presentations, assessment at the "workplace", mastering practical skills in the CSET, assessment of assignments on the Moodle platform, contribute to inter-professional learning. And such a method as mastering practical skills using simulation technologies, patient management, duty at clinical sites demonstrates the integration of training and an emphasis on clinical skills. The established assessment methods guarantee that the resident has mastered all sections of the educational programme and acquired the necessary practical skills.

Feedback from residents based on the results of their assessment is collected both orally (frontal survey, comments on students' answers) and in writing and indicates the mistakes made and gives Recommendations for improving preparation for classes, filling in knowledge gaps. In the interview, the residents confirmed that they receive feedback after completing their training.

The 2 employers interviewed also indicated that the training of graduates corresponds to the modern development of medical practice and science, since they participate in the development of the mission and the EP. The employers said that they themselves participate in the assessment of residents, since they are included in the independent examination of residents. Employers believe that such skills in residency graduates as the desire to learn, dedication, and activity are the ones they would like to see the strongest.

*The conclusions of the EEC according to the criteria* correspond out of 9 standards (including 6 basic, 3 Standard improvements): completely -9.

## **Standard 4: RESIDENTS**

### **4.1 Admission policy and selection**

The educational organization has a policy for the admission of residents, which is called the policy for admission to residency, approved by the decision of the Board of Directors No. 49 dated 08.06. 2023. Approaches to the admission of residents are based on the requirements of the country and internal regulations, namely in accordance with the Model Rules for training in educational

organizations implementing higher and postgraduate education programs (Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 dated October 31, 2018) and the Rules for placing a state order, admission to training and training of medical personnel in residency (Order of the Ministry of Health of the Republic of Kazakhstan No RK MOH-270/2020 dated December 15, 2020). Transparency of the selection procedure and equal access to residency programs are achieved through the website of NJSC “MUK” (<https://www.qmu.edu.kz/ru/contents/list/1608>), which is confirmed in paragraph 6-1 of the document "Academic Policy" and in conversations with residents.

The document reflects approaches to the admission of residents with disabilities, for example, in the paragraph "Regulations on inclusive education in NJSC “MUK”".

The document takes into account the requirements for residency applicants in terms of their previous achievements in undergraduate and internship (for example, entrance scores, but not less than 75).

The educational organization has created a barrier-free learning environment, including ramps, call buttons, elevators, and toilets for the disabled.

Approaches to the admission and transfer of residents from other educational organizations are reflected in paragraph 6-1 in the Academic Policy. At the same time, the leading points are taken into account - this is the academic difference in the disciplines of the working curricula studied by them in previous academic periods.

The appeal procedure for the results of admission to residency is prescribed in the "Policy for the admission of applicants to postgraduate educational programmes" of NJSC “MUK”. To date, there are no precedents for appeal.

Representatives of students who are members of the Council of the School of Residency and PD, the Senate of the NJSC “MUK” are included in the process of developing the policy for admission and selection of residents.

Feedback is provided to residents on this issue, and the following changes have recently occurred in the approaches to the admission of residents: in 2022, additional criteria were included in the rules for admission to residency: experience in the field of healthcare, research work in the profile of the EP (Program of the entrance exam for educational programmes of residency, approved by the Chairman of the Board, the Rector on 12.05.22). Comprehensive testing was introduced into the program of the entrance exam in 2023, including questions of biomedical and clinical sciences in the profile of the specialty.

Review of the admission and selection policy, the number of residents is carried out annually, the School of Residency and PD is responsible for this. Thus, experts validated the data according to **Standard 4**. In general, all criteria are met. The experts reviewed the documentation on the admission of residents, including the "Policy for the Admission of Applicants to Postgraduate Educational programmes".

#### **4.2. Number of Residents**

During the period 2019-2023, 39 residents were admitted to the program in the specialty "Neonatology". The total number of residents graduating on the dates of the start of admission to residency in all specialties was 310 people, including 23 in the accredited educational programme "Neonatology". The educational organization analysed the need of practical healthcare for neonatologists and determined that the annual admission to the educational programme in the specialty "Neonatology" will be 6-7 people. This figure corresponds to resource capabilities. The sources of information on the need for neonatology specialists are the regional freelance neonatologist of the PHD KO and the state order.

#### **4.3 Resident support and counselling**

The practice of academic counselling, personal support for residents and the development of not only professional skills were assessed by experts through the compliance officer and the Student Support Service, which operates at the university on the basis of the Regulation on the Student Support Service of NJSC “MUK” (PP NJSC “MUK” 19-2, version 1 of 07/08/2019 with amendments from

10/23/2020, p. 20) and are structural divisions implementing state youth policy, civic-patriotic, legal, moral, professional, aesthetic, ethno- and multicultural education of residents.

During interviews with residents and graduates, the following information was obtained: that work is regularly carried out to improve communicative competence, prevent conflicts in practical medical activity and prevent burnout syndrome, financial support consists of providing residents studying on a grant with a monthly stipend, and those in need are provided with a hostel on a first-come, first-served basis.

NJSC "MUK" has a resident development program, which includes, in order revealing the creative potential of residents, great attention is paid to socio-cultural, educational, scientific work with students. An effective form of revealing the creative potential of residents is cultural and mass work, which is carried out by creative circles. Currently, NJSC "MUK" has 27 circles. Financial support for residents is carried out through the issuance of a stipend in the amount of 110 thousand. Residents are included in such advisory bodies as the Council of the SR and PD and the Senate. Thus, resident neonatologist of group 9001 Ybrai A.A. has been a member of the Council of the SR and PD since 2023-2024 (<https://cloud.mail.ru/public/6z5p/maW1JuhPu>), resident Omirzak A.A. is a member of the QACS. For example, for the purpose of social support for residents, a compliance officer, a SSS and additional financial support for residents have been organized and are working, enshrined in the document "Regulations on sending students of the NJSC "MUK" on a trip, approved on 04/05/2021, version 2, which also regulates issues related to the financial support of their trips. Psychological support for residents is provided through consultations with full-time psychologists, which is conducted confidentially.

To plan the career of graduates working with youth, the Career Development Centre operates, which promotes the employment of graduates together with the health departments of various regions of the Republic of Kazakhstan, organizing and holding a job fair for graduates on employment issues ([https://t.me/ac\\_qmu/500](https://t.me/ac_qmu/500)). The employment rate of graduates of all residency programs in 2022 was 98%.

#### **4.4 Representation of residents**

The following consultative and advisory bodies operate in the educational organization: the Academic Committee of the Senate, the School of Residency and PD, in the work of which residents take part - specialty "Neonatology". Mechanisms for encouraging residents for community work include letters of thanks, Rector's scholarships. While interviewing residents, experts found that 2-year residents Yerniyazov R. and Omirzak A.A. were awarded letters of gratitude for their active life position from the Dean of the School of Public Administration and Research (<https://cloud.mail.ru/public/CEZz/9RyNtJcdZ>, <https://cloud.mail.ru/public/9P4P/uAVSYfiuq>), and residents Myrzagulov M.T. and Ybrai A.A. were sent for academic mobility to Kazan State Medical University (<https://cloud.mail.ru/public/HrEL/MW6wfhh3D>).

#### **4.5 Working conditions**

Residents receive a monthly stipend in accordance with the document Decree of the Government of the Republic of Kazakhstan No. 799 dated 10.10.2022. "Rules for the appointment, payment and amount of state scholarships", Residents are given the opportunity to work outside of school hours, which is reflected in the document - Order of the Ministry of Health of the Republic of Kazakhstan dated December 21, 2020 No RK MOH-305/2020 "On approval of the nomenclature of specialties and specializations in the field of health care, the nomenclature and qualification characteristics of positions of health workers. Such residents currently account for 80%. In total, NJSC "MUK" has 14 clinical bases for training residents, and each hosts various events in which residents participate. For example, they participate in conferences, examine healthy and sick new-borns, provide consultations, diagnostic and therapeutic procedures, fill out documentation in IMIS carry out preventive measures, informational and explanatory work, are on duty at the clinical bases of NJSC "MUK" at least four times a month. As a rule, residents supervise 5-6 people per day, 15-20 people per month. Residents make thematic reports, such as premature babies, jaundice in new-borns. They participate in health education work, including events dedicated to the World Prematurity Day, in

order to inform society about the dangers and consequences of premature birth, to declare the need to solve the existing problems faced by families with premature babies, to help find support and understanding in society. The educational organization has implemented elements of distance learning for residents, for example, the Microsoft Teams platform is used, and since 2022 - Webex.

In special circumstances (for example, during pregnancy, childbirth, parental leave, long-term illness, military service or business trips, academic leave is granted to students), an individual training program for residents is applied, which includes a full training programme. This is enshrined in the document - Rules for granting academic leaves to students in technical and vocational organizations, after secondary education Order of the Ministry of Education and Science of the Republic of Kazakhstan dated December 4, 2014 No. 506 "On approval of the Rules for granting academic leaves to students in technical and vocational organizations, after secondary education" and the Academic Policy of NJSC "MUK" (<https://cloud.mail.ru/public/Mj4P/NkDxWtVet>).

Experts have established that in this case the duration of training is observed and is 2 years.

**Conclusions of the EEC on the criteria.** Comply out of 20 standards (including 14 basic, 6 improvement standards): fully - 20.

## **Standard 5: ACADEMIC TAFF**

### **5.1 Hiring and selection policy**

Total employees are 4, of which full-time teachers are 4, part-time is 0. The requirements for teachers of the residency program take into account, with an emphasis on the presence of a degree and the development of such key indicators as - publication activity in international ranking journals indexed by Web of Science or Scopus; the Hirsch index; experience in participating in research projects (grants, STP).

The degree rate is 66.6%, the highest category is held by 4 people (100%). The training of residents in the specialty "Neonatology" is carried out by the following employees: Vinogradskaya Ye.V. MSE "RCH PC№1", head of the intensive care unit department, neonatologist of the highest category; Panibratets L.G. - MSE "RCH PC№2", head of the intensive care unit department, neonatologist, highest category; Yasnaya L.M. – MSE "RCH PC№1", head of the neonatal pathology department, neonatologist of the highest category.

The experts familiarized themselves with the job descriptions of clinical mentors and the regulations on mentors.

The experts familiarized themselves with (approved by the decision of the Board, Minutes No. 1 of 01/11/2021), the Regulation on mentors (Requirements for Academic staff and clinical mentors are regulated by the Regulation on the residency of NJSC "MUK" (<https://cloud.mail.ru/public/QKZ7/RMAeGTB5K>)) and the average workload (Senate Decision of 04/28/2022, Minutes No. 7). The ratio of teachers to residents is -1:3.

The motivation system for teachers and clinical mentors includes the following incentives for the teaching staff, according to the "Regulations on Remuneration" of NJSC "MUK" (approved by the Rector of NJSC "MUK" on 08/16/2021), additional payments are made to the author's team for publishing an article with an impact factor of more than 1, in international peer-reviewed scientific journals (indexed in Web of Knowledge; Scopus), benefits for services in the dental clinic of the University, a discount on tuition at the University for Children of employees, free gifts for children of employees for the New Year.

The principles of ethics and academic integrity of teachers are reflected in the document - the Code of Business Ethics of NJSC "MUK" (08/24/2019, protocol No. 4) and the Code of Academic Integrity (<https://cloud.mail.ru/public/a7zY/KifTjorBx>), approved by the Board on 08/31/2023, protocol No. 8. During the conversation with the teachers, they confirmed their awareness of this issue by answering that they were familiar with it.

In order to verify the Standard 5 data, external experts received the opinion of the teachers on the personnel policy, approaches to developing the pedagogical competence of teachers, motivation to

work with residents, and mentoring. The conversation with Kravtsov Ye.A., Director of the Department of Human Resources Management, included such questions as how often do teachers undergo advanced training?, how is the pedagogical competence of clinical mentors improved?, do they have training certificates? and allowed the experts to learn about approaches to attracting clinical base employees for teaching, the strategy and tactics of recruiting residents, information support for the educational programme, and to identify problems in managing and developing human resources. Teachers' certificates were presented. A contract is concluded with clinical mentors for 1 year.

*While questioning the teachers, it was found that the majority (80%) are completely satisfied with the organization of work and the workplace in this educational organization, but 20% are partially satisfied. In this educational organization, teachers have the opportunity to engage in scientific work and publish the results of R&D - 84% completely agree, 16% partially. Satisfied with the work of the HR service - 80% completely agree, 20% partially. Satisfied with the salary - 56% completely agree, 32% partially, 12% no answer.*

## **5.2 Commitments and development of teachers**

In order to verify the Standard 5 data, at a meeting with the head of the human resources management department and during interviews with teachers, experts obtained an opinion on approaches to the development of pedagogical competence of teachers, motivation to work with residents, and mentoring, which at the university is ensured by a balance of distribution between the teacher's areas and is determined by the IWPT.

The experts determined that teachers and residents have enough time for teaching, mentoring and training. The work schedule of teachers is established in the Personnel Policy of NJSC "MUK" (11.01.2021). Working hours: 7 hours. Teachers conduct weekly seminars lasting 2 hours. Time for clinical reviews, clinical rounds - 5 hours. Residents are on duty 4.

Experts received responses about the teacher training program, which is held annually and 506 teachers participating in the implementation of the educational programme were trained in 2023, 4 teachers of the accredited educational programme in the specialty "Neonatology" participating in the implementation of the educational programme were trained over the past 5 years.

These activities are funded by the educational organization. The expert checked the teachers' certificates on the following topics: Educational technologies in teaching clinical disciplines, Professional, leader and organizer.

The salary fund of teachers consists of a salary, which is a permanent part of the remuneration and other additional payments and allowances, which are a variable part.

Mentors are financed in accordance with the regulations on mentors

Experts have found that teachers initiate research topics for residents stimulate the need for additional training and independent work with literature, medical documentation.

*The educational organization has an opportunity for career growth and development of teacher competencies - 84% of surveyed teachers answered, and 16% partially agree with this. Studied in programs for improving professional qualifications - 84% during the current year, 16% more than 3 years ago.*

*The organization implements social support programs for teachers - 64% answered that "yes, such programs exist", 4% "I have already used this", and 28% of respondents do not know about this, 4% doubt the answer.*

**Conclusions of the EEC on the criteria.** Comply out of 8 standards (including 7 basic, 1 Standard of improvement): fully -8.

## **Standard 6: EDUCATIONAL RESOURCES**

### **6.1 Material and technical support and equipment**

Training of residents of the accredited educational programme in the specialty "Neonatology" takes place on the basis of MSE "RCH" PC No. 1 and PC No. 2. Total: The bed fund of MSE "RCH" is 200 neonatal beds. In the perinatal centre No. 1 of MSE "RCH": NICU - 12 beds, pathology



department - 35 beds, physiology department - 80 beds; PC No. 2 of MSE "RCH": NICU - 9 beds, pathology department - 25 beds, physiology department - 40 beds; There are 5 classrooms, 2 conference halls for seminars and journal clubs, 2 laboratories. Library total area is 1526 sq. m, a computer class for 113 seats.

The experts visited the library, which provides residents and staff with access to world-famous databases containing global arrays on medicine. To implement the educational process in the specialty "Neonatology", the book supply of primary and secondary literature is 100%. Of these, the total number of textbooks, including in the Kazakh language, is 312 copies, scientific literature - 291 copies, periodicals - 8, electronic publications - 9. The main monographs in the specialty "Neonatology" are the following: "Neonatology" by Shabalov N.P., and they are available in the library.

There is access to international databases: "Cochrane Library", "EBSCO", "BMJ Best Practice", "BMJ Learning", "CBS eBooks". The number of electronic resources is 8491, including in the Kazakh language - 1715. Residents are aware of this.

Before starting the relevant discipline of the educational programme, the resident receives a syllabus from the teacher and knows what skills he must acquire and develop during the training. To achieve the training goals, residents have access to the electronic patient database Damumed, which is provided by the clinical base. Individual logins and passwords for access to IMIS are issued to residents employed by resident doctors in medical and preventive institutions.

Updating the material and technical base, including the library background, is carried out annually. Thus, over 5 years, the update affected the following: new books on training specialties were purchased.

## **6.2 Clinical bases**

A review of resources showed that they correspond to the goals and objectives of educational activities, for example, the clinical bases visited were MSE "RCH" PC No. 1, which has 10 neonatal beds (5 somatic neonatal beds and 5 surgical beds) and "RCH" PC No. 2, where medical care is provided to new-born children with somatic and surgical care. The employees of the educational organization ensure collegial and ethical relationships with the medical staff, the management of the clinical base to achieve the final results of residents. The clinic has (accreditation certificate dated 11/29/23) For the implementation of the EP and residency training, NJSC "MUK" concludes an agreement on joint activities with clinical bases (<https://cloud.mail.ru/public/Qh36/9aNhKjC1x>) in accordance with the order of the Ministry of Health of the Republic of Kazakhstan dated December 21, 2020 No RK MOH-304/2020 "On approval of the provisions on the clinical base, clinic of the organization of education in the field of health care, university hospital, residency base, integrated academic medical centre and the requirements imposed on them" (<https://adilet.zan.kz/rus/docs/V2000021848>).

A sufficient number of thematic patients (for example, with intrauterine infection, jaundice, RDS) are provided, modern equipment is demonstrated and is accessible to students, and teachers provide high-quality education in compliance with ethics and deontology. During the visit to the clinical sites, the experts conducted a survey of the resources, their compliance with the training programs, and accessibility for teachers and residents, how modern this equipment is and how it meets the needs of students and practical health care.

In order to validate the implementation of the self-assessment report data and obtain evidence of the quality of the programs, interviews were conducted with residents. The experts asked questions about satisfaction with training, sufficiency of time for patient supervision, work with medical documentation, satisfaction with teaching methods and qualifications of teachers, social and moral support for residents in need, participation in "Journal Clubs", availability of resources of international databases of professional literature. In general, residents are satisfied with training, assessment methods, and purposefully entered this organization, since they believe that the educational organization has good resources, image and international connections, at the same time, residents would like more independence in patient management, and for example, Resident neonatologists

annually provide practical assistance to the regions with a shortage of personnel at the local level. Resident neonatologists regularly go to the medical hospitals of Balkhash, Zhezkazgan, and Temirtau. So, this year, the 2-year resident of group 9001 Yerniyazov R.A. carried out an on-site residency at the Balkhash MPH from 10.09.2023 to 06.12.2023; Resident neonatologist of group 9001 Omirzak A.A. at the Zhezkazgan MPH from 10.09.202 to 19.01.2024; Resident neonatologist of group 9001 Bapina G.S. at the Temirtau MPH from 15.11.2023 to 01.04.2024. During this period, a clinical mentor from among the heads of departments assigned to the workplace works with the residents on the road.

The CSET is a structural subdivision of the MUK, which carries out preclinical work on practicing and passing practical skills by residents on mannequins and virtual simulators. All disciplines in the specialty "Neonatology" provide for hours of independent work for simulation training both in the CSET and in simulation rooms in perinatal centres. The disciplines "Resuscitation and intensive care of new-borns", "Neonatal surgery", "Neonatal neurology" provide for the study of issues on providing emergency care for various conditions and diseases in new-borns, and the consolidation of skills in the CSET.

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

### **6.3 Information technology**

Experts assessed residents' and teachers' access to educational and scientific information resources: Wiley Online Library <https://onlinelibrary.wiley.com/>, WebofScience (Clarivate), ScopusElsevier<https://www.scopus.com/search/form.uri?display=basic>, ScienceDirect, ClinicalKeyElsevier, STATdx<https://app.statdx.com>, CochraneLibrary<https://www.cochranelibrary.com/>, as well as access to electronic means of posting information on the MUK website, the MUK Portal, the MUK Student Portal, the Instagram page and the Telegram messenger <https://t.me/muklibrary/> Residents confirmed that they can use all resources, including when preparing for classes.

The MUK website has a "Library" section in 3 languages. Feedback from the library to readers is also provided on the Student Portal and the Telegram bot @MUKLibrarybot, where students can ask questions; view the calendar of events, documents, instructions and videos on working with electronic resources, etc. Consultations on the IWRT for students are conducted remotely on the Webex electronic platform, where all MUK teachers are users and have the opportunity to hold meetings, consultations, lectures with students in real time, share content; for posting training courses. For the purpose of conducting the IWR, the LMSMoodle platform is used with specific tasks, assessment criteria and assignment submission schedule. We work remotely with residents who carry out mobile residency in the regions according to the needs of practical healthcare. For the purpose of conducting the IWR, the LMSMoodle platform is used with specific tasks, assessment criteria and assignment submission schedule.

### **6.4 Clinical teams**

In order to develop teamwork experience among residents, the educational organization conducts such events as the multidisciplinary principle of work. Residents of the specialty "Neonatology" take an active part in holding interdisciplinary consultations with subsequent entry of the results of the interdisciplinary consultation into the IMIS, participate in pathological conferences as attending physicians and opponents: take an active part in holding interdisciplinary trainings within the framework of key competencies of residents. Residents - neonatologists participate in multidisciplinary trainings at the CPN ("Territory of emergency conditions").(<https://cloud.mail.ru/public/4v3b/EVox1fS5i>).

*In the questionnaire, teachers 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, 0% found it difficult to answer.*

## **6.5 Medical scientific research and achievements**

The educational organization carries out research work in the following areas: preventive environment as the basis of public health, a personalized approach to the management of a number of significant diseases, comprehensive research, medical and social problems of new-borns, research in the field of medical education.

The 1st year residents are developing research on the topic of "Features of early adaptation and risk factors for the birth of large new-borns for gestational age". The 2nd year residents have implemented research on the topic of "Risk factors for the development and features of adaptation of low-weight new-borns". The results of research for 2019-2024 by residents of the EP "Neonatology" were 71 publications, 51 of which were in the RSCI publications, 51 in the Proceedings of International and Republican Conferences, 15 presentations were prepared for international and republican conferences. Residents' research work is a mandatory component of the educational process. They perform such types of work as initiative research and are part of temporary research teams. All information about the research work is included in the resident's portfolio, the structure of which is based on the Portfolio Assessment Sheet.

The educational programme includes topics where residents study research methods in medicine, evidence-based medicine.

If residents perform scientific and practical research, they are provided with access to instrumental and laboratory equipment.

One of the competencies of a resident graduate is achieving the skill of scientific research based on the results of research with an assessment of mastering in the portfolio during the midterm certification and completion of training. The resident's competencies include PC5 "Research" "capable of researching and evaluating the results of treatment of their patients, evaluating and implementing treatment principles based on scientific data." The EP provides for mandatory mastery of R&D skills. The introduction of scientific foundations and methodology of medical research in the EP is carried out on the basis of the Law of the Republic of Kazakhstan "On Science", "Development Program of the NJSC "MUK" for 2024-2028", one of the areas of which is Leadership in Research. This information was obtained during interviews with teachers of the specialty "Neonatology". An interview with 4 teachers showed that there are problems in education management that depend on a specific base (admission of residents to equipment, a sufficient number of subject patients, time for maintaining medical records).

## **6.6 Expertise in the field of education**

Expertise in education includes the following areas: analysis of results, analysis of dynamics, which are designed in the form of research, including questionnaires.

The educational organization participates in such educational projects as conducting research in the field of medical education. As a result of the implementation of these projects, publications in this area have been introduced, the teaching staff implementing the EP have publications on the role of mentoring in the preparation of residents, speeches on the assessment of the effectiveness of teaching and assessment methods.

The expertise of the Concept of the EP is carried out by the AC of the Senate of the NJSC "MUK". EPs undergo internal examination in the QACS at the SR and PD.

Sociological surveys, including issues of education quality, could become one of the mechanisms for the expertise of education.

The examination is carried out in the form of an analysis of the needs for specialists, an analysis of the methods of training residents, and the results allow us to draw conclusions about the quality of innovative changes in postgraduate education. For example, with the introduction of the AIS "Platonus" program into the educational process, given the capabilities of this information system, there is a real opportunity to implement high-quality monitoring of the analysis of key indicators of educational activities. The mechanisms for motivating and developing the interest of employees and teachers in conducting research in the field of postgraduate education are the availability of publications in this area as an indicator of the department's activities. Since the 2020-2021 academic

year, the QACS was created at the SR&PD, the main function of which is to monitor the implementation of the EP and assess the satisfaction of all stakeholders. The educational programme undergoes quality monitoring at least once every 3 years, in the case of preparation for specialized accreditation of the EP, quality monitoring is carried out unscheduled.

Resources for clinical training are updated annually and in 2023 the residency program in the specialty "Neonatology" is provided with the following: the training rooms are equipped with Internet and are equipped with cabinet furniture.

### **6.7 Training in other institutions**

The academic policy for training residents includes the possibility of studying in alternative organizations if the existing clinical sites do not cover all the topics of the educational programme. The development plan of the EP "Neonatology" provides for incoming and outgoing academic mobility of residents to partner universities, visiting professors, which are implemented according to the academic mobility plan.

In March 2019, as part of the academic mobility program, 1-year residents visited Tyumen State Medical University, Head of the Department of Paediatrics of the Institute of Continuous Development A.D. Petrushina.

From 02/17/2020 to 02/28/2020 and 03/02/2020 to 03/13/2020, from 04/04/2022 to 04/15/2022 (excluding the pandemic period) residents of the specialty "Neonatology" of the NJSC "MUK" underwent training at the Department of Neonatology of the NJSC "AMU" within the framework of academic mobility. In May 2024, internal academic mobility is planned for 1-year residents at the Department of Neonatology of the NJSC "AMU" for the discipline "Outpatient Neonatology". External academic mobility was implemented at the Federal State Budgetary Educational Institution of Higher Education of the Ministry of Health of the Russian Federation Kazan State Medical University at the Department of Hospital Paediatrics in March-April 2024. As part of the "Visiting of a Foreign Professor" program and joint work with a partner university, in 2023 a lecture course was held by prof. Dilmuradova K.R. with a foreign partner - Samarkand State Medical University of the Ministry of Health of the Republic of Uzbekistan and prof. Ustinovich Yu.A from the Institute for Advanced Training and Retraining of Healthcare Personnel of the Belarusian State Medical University.

There is a document on the transfer and offsetting of learning outcomes between educational organizations: Transfer and offsetting of educational credits is carried out in accordance with the procedure for organizing the educational process using credit technology of education, approved by the order of the Ministry of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152; The rules for sending for study abroad, including within the framework of academic mobility, are carried out on the basis of the order of the Ministry of Education and Science of the Republic of Kazakhstan dated November 19, 2008 No. 613, the order of the Ministry of Education and Science of the Republic of Kazakhstan dated December 30, 2011 No. 549 (with amendments and additions as of 01/04/2019). The university has appointed a coordinator of academic mobility programs. After completing their studies at the host university, students submit a transcript to the DAA. Work continued with the Institute for Advanced Training and Retraining of Healthcare Personnel of the "Belarusian State Medical University", Department of Neonatology, represented by Acting Head of the Department Yu. I. Lemeshko (Memorandum No. 2). An online visit was conducted for professors in November 2023.

***Conclusions of the EEC on the criteria.*** Comply with 18 Standards (including 11 basic, 7 improvement standards): fully - 18.

## **Standard 7: ASSESSMENT OF THE EDUCATIONAL PROGRAMME**

### **7.1 Monitoring and evaluation mechanisms**

At NJSC "MUK", the assessment and monitoring of the educational programme is carried out in accordance with the regulation on the Academic Policy (approved by the Senate on August 27, 2021), the Regulation on the management of the educational programme (dated September 9, 2020, amended

on January 11, 21, amended on January 11, 2021). The monitoring system is a continuous multi-level process that covers the assessment of all areas affecting the quality of the educational programme.

Monitoring of the educational programme includes several stages: planning, data collection, analysis/conclusions, necessary improvements with subsequent monitoring of changes, which ensures transparency of the process and results. Annual analysis of the educational programme will allow the educational organization to make adjustments and improve the content. Since the 2020-2021 academic year, the Quality Assurance Commission of the Educational programme has been created, the main function of which is to monitor the implementation of the educational programme and evaluate the satisfaction of all stakeholders.

Initially, the educational programme was reviewed by the department staff, discussed at the Residency and PD School (No. 11 of 07.07.22), approved by the Quality Assurance Commission of the Residency and PD School No. 3 of 05.07.22 and noted to comply with regulatory documents. Subsequently, the residency program was approved by the Board Decision (minutes No. 16, dated 13.07.22). The Department of Strategic Development and Quality Management regularly assesses the quality of the educational programme, taking into account the goals and objectives of training, the final learning outcomes (through resident assessment, independent examination). The process of implementing the educational programme is evaluated through feedback from residents and teachers and the achievements of graduates. For example, a survey of 22-23 year old residents in the specialty "Neonatology" demonstrated the following: satisfaction of 87.18%. Based on the results of the survey of neonatology residents, a new elective discipline was introduced into the catalogue of elective disciplines for 2023-2024 "Visual Diagnostics in Neonatology". The overall share of employer satisfaction with the level of residency training in all specialties for the 2022-2023 academic year was 95%. Based on the results of the survey, employers' feedback on satisfaction with the competencies of graduates in the EP, it can be concluded that the respondents are satisfied with the training of graduates of NJSC "MUK", graduates of NJSC "MUK" have sufficient knowledge, skills and competencies. The assessment of approaches to the admission of residents is carried out by taking into account the need of practical healthcare for specialists at the request of health departments. Admission to training is carried out in accordance with the Order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020 No RK MOH-270/2020 On approval of the rules for placing a state order, admission to training and training of medical personnel in residency (with amendments and additions as of 04/07/2023).

The selection and compliance of teachers and teaching methods is also carried out through feedback from residents. Residents are surveyed after completing each discipline. The results obtained are discussed at meetings of the department, Schools, meetings, AC, and the University Senate. Based on the results of this data, the EP strategy is adjusted.

Evaluation of methods for assessing the knowledge and skills of residents is carried out using intermediate and final independent certification in the form of a comprehensive exam with the involvement of external examiners. The results of the independent examination of the NCIE discussed annually at a meeting of the department, the Council of the SR and PD, the Senate and determine the need to improve the EP.

In order to control and improve the quality of the EP, the following are carried out: internal and external quality assessment procedures in accordance with the documented procedure of "Organization of preparation for institutional and specialized accreditation of NJSC "MUK" and other external inspections by authorized bodies.

An external assessment of the EP was carried out by independent agencies IAAR AB 2591 for a period of 5 years, from 14.06.2019 to 13.06.2024, including through participation in ratings, which showed that the university and department consistently occupy leading positions.

The EP in the specialty "Neonatology" is included in the register of EPs of the EHEA, ([https://epvo.kz/#/register/education\\_program](https://epvo.kz/#/register/education_program)) which proves its positive assessment by external experts.

The adequacy of educational resources is characterized by the capabilities of the educational system, ensuring the implementation of educational opportunities for residents, the needs of society and the satisfaction of students, teachers with the material and technical support of the educational process, which is analysed annually based on the results of the questionnaire.

### **7.2 Feedback from teachers and residents**

The educational organization regularly collects feedback from teachers, residents, employers. Questionnaires are sent to employers annually. The questionnaire contains 30 questions and they are devoted to the quality of the EP and the training of residents. The results of the employer survey conducted in 2022 and 2023 showed that 90% are satisfied with the training of residents.

A questionnaire was developed for the survey of teachers, including 10 questions, including on the EP. The results of the survey of teachers conducted in 2022 and 2023 showed that 84% are satisfied with the training.

The survey of residents is conducted once a year and is devoted to topics such as satisfaction with the EP and teachers.

The use of feedback from stakeholders is systemic when making changes to the EP: the list and content of disciplines from the point of view of the competency-based approach, improvement of teaching methods, systems of final control and assessment of students' knowledge.

### **7.3 Results of residents and graduates**

The results of residents and graduates are indicators of the quality of educational programmes. The final results of the assessment of residents in all years in the specialty "Neonatology" showed that 100% of residents successfully passed the independent examination on the first try. The average score of the final certification of 34 graduates for 2019-2023 was 89.8% (38% - "excellent", 62% - "good")

SR and PD together with the head of the EP in the specialty "Neonatology" conducts annual monitoring of the employment of residency graduates. The percentage of employment of graduates in the specialty "Neonatology" in 2023 was 90% (1 resident Ayaganova S, a child of 5 months, went on maternity leave).

In 2023, 7 employers were surveyed (response rate 89%). The level of achievement of the required competencies by graduates was 4.5 points out of 5; 100% of employers noted that graduates have a sufficient level of knowledge and skills for high-quality and effective performance of their duties; the level of satisfaction with the quality of training of graduates in the specialty "Neonatology" is 100%, not a single employer rated the quality of training as low.

### **7.4 Involvement of stakeholders**

The educational organization has approaches to the involvement of teachers and residents in the evaluation of the educational programme and monitoring of its implementation. Direct management of the training of residents is carried out by the head of the EP in the specialty of residency "Neonatology" - professor of the Department of Paediatrics and Neonatology Kizatova S.T. At the stage of development and approval of the EP, syllabi for the discipline, it is agreed with leading specialists in the direction of residency from practical health care. After their positive feedback, an internal examination of the EP QACS SR and PD is carried out. Thus, neonatology residents are included in the advisory body "SR and PD" and participate in the discussion of all issues of the educational process. The feedback results are analysed, discussed at meetings of the SR and PD, departments, and the Senate. The feedback results are taken into account when planning work to improve the educational programme. The results of the educational programme assessment are announced at a meeting of the SR and PD in September at the end of the academic year.

*An interview with 3 employers was 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, about the problems of interaction with departments and universities in general, During the conversation, complete answers were received, for example, an employer of the specialty*

"Neonatology" Tusupbekov S.D. voiced the mission of the educational programme "Neonatology", which demonstrates their good awareness of the educational process carried out at NJSC "MUK", 100% employment of residency graduates, are mentors. *All employers 100% noted the high level of training and demand for graduates in the labour market.*

### **7.5 Procedure for approval of educational programmes**

The assessment of educational programmes is carried out through an examination of programs at the stage of planning development, discussion, approval and monitoring of implementation.

The procedure for approving the EP is carried out in accordance with the "Regulations on the management of the EP NJSC "MUK", process map "Development, coordination and approval of the educational programme". The EP is being coordinated with representatives of practical healthcare, examined by the QACS SR and PD (protocol No. 3 "05" 07/07/2022), discussed at a meeting of the SR and PR (protocol No. 11 of 07/07/2022) and approved at a meeting of the Board of the NJSC "MUK" (protocol No. 37 of 05/27/2022), undergoes external examination for inclusion in the Register of EP EHEA. During the visit, it was documented that the educational programme in the specialty "Neonatology" was reviewed and discussed with the participation of all interested parties: students, employers and faculty (hereinafter referred to as the Academic Staff) at a meeting of the Academic Committee (hereinafter referred to as AC) of the SR&PD (minutes No. 4 of 06/07/2019), approved by the Academic Council (minutes No. 7 of 06/18/2019, approved at a meeting of the Academic Council and the Chairman of the Board - Rector of the NJSC MUK (06/27/2019, minutes No. 10).

In 2020, the educational programme "Neonatology" was included in the register of the Unified System of Higher Education Management (hereinafter referred to as EHEA) of the Ministry of Higher Education of the Republic of Kazakhstan (registration date 08/13/2020).

***Conclusions of the EEC on the criteria.*** Compliant with 10 standards (including 7 basic, 3 Standard improvements): fully -10.

## **Standard 8: MANAGEMENT AND ADMINISTRATION**

### **8.1 Management**

Residency training is conducted in accordance with the requirements of such regulatory rules regarding the admission of residents as the Academic Policy of NJSC "MUK". Knowledge and skills are assessed based on independent examination. To implement the educational programme, the educational organization has an organizational structure in which the educational sector is represented by the SR&PD, the DAA, and departments. The experts reviewed the documents on completion of resident training, including in accordance with Art. 39 of the Law of the Republic of Kazakhstan "On Education" and the Order of the Ministry of Education and Science of the Republic of Kazakhstan dated January 28, 2015 No. 39 "On approval of types of education documents, forms of state-issued education documents and rules for their registration and issuance, basic requirements for the content of education documents of their own sample and rules for their registration and issuance, as well as the form of a certificate issued to persons who have not completed education in educational organizations." A state-issued certificate of completion of residency is issued to residents upon completion of postgraduate training programs with the award of the qualification of a neonatologist.

The policy in the field of ensuring the quality of the educational process of NJSC "MUK" is presented in the Academic Policy, which was discussed and approved at a meeting of the Senate of the university on August 31, 2023 (pr. 1)

The dean of the SR&PD, the head of the educational programme, the head of the department and the Academic staff took part in the development of the program.

All interested parties are informed about the program through the university website (<https://muk.qmu.kz/ru/obrazovatelnye-programmy/rezidentura/neonatologiya/>).

### **8.2 Academic Leadership**

The educational process is managed in accordance with the organizational structure of NJSC "MUK" (approved by the Board of Directors, minutes No. 40 dated October 30, 2022). The

responsibilities and duties of the management and employees for postgraduate medical education are defined, which are assigned to the general management of the School, carried out by a collegial representative body - the School Council (Regulations on the School Council dated 08/26/2019, pr. 8 of the Board), Transparency of management and decision-making in the educational process is ensured through the organization, planning, provision, monitoring, control and analysis of the educational process, which is reflected in the document "Regulations on the management of the EP in NJSC "MUK" approved by the decision of the Board, protocol 14 dated 09/09/20".

The principles and approaches to periodic assessment of the activities of the university's teaching staff have been developed in the AP NJSC "MUK" OE AP/1 (Version No. 1) and in the HR Policy of the university (<https://www.qmu.kz/ru/contents/view/379>; <https://www.qmu.kz/media/qmudoc/AcademPolitika.pdf>; <https://www.qmu.kz/media/qmudoc/KadrPolit.pdf>). The activities of the Academic staff are monitored annually at all levels, starting with the department, which is noted in the Personal Growth of the Academic Staff of the NJSC "MUK", at meetings of departments, the School Council and the Senate.

The university's divisions, including departments and schools, analyse the results of the implementation of the KPI indicators of the relevant divisions, including indicators of training, teaching and research activities for the reporting period (academic, calendar year). Issues on the EP are submitted for discussion to the School Council and the Senate. The university has also implemented an employee performance management system (EPMS), the "Best in Profession" competition, and the "Best University Lecturer" competition for teachers of NJSC "MUK".

*To the question in the questionnaire "Do the organization's managers listen to your opinion regarding issues related to the educational process, research, and clinical work?", 72% of teachers answered that they do so systematically, and 24% answered "sometimes".*

### **8.3 Training budget and resource allocation**

The department responsible for planning and distributing finances in residency programs is the Department of Economics and Finance. The scope of duties, responsibilities, and powers are reflected in the job descriptions "Regulations on the Department of Economics and Finance", approved on April 28, 2021. Determination of the financial and economic policy of NJSC "MUK" and the university's management structure is the function of the governing body - the Board of Directors. The Board manages the current activities of the university, implements financial and economic policies within the established powers. Structural divisions form the needs for resources, including for the implementation of the educational process, as well as resources for the development of the university and university clinics, based on these needs, the University Development Plan is formed, which is reviewed by the Management Board and approved by the Board of Directors for 5 years. The Development Plan is adjusted annually depending on changes in the needs of the divisions and the University. The financial activities of the University are also reviewed at a meeting of the Board of Directors. At the same time, financial activities are assessed using specific financial indicators. The process of planning and distributing finances in residency programs is prescribed in the "Regulations on the management of the educational programme in NJSC "MUK". The department receives basically everything it requests as needed.

A financial plan is drawn up annually, including a target budget for training, which is approximately 40-50 million tenge. The financial plan is in line with the strategic plan for the period up to 2029. The share of funding for residency programs, taking into account the expansion of residency specialties, has increased from 728,873 thousand tenge in 2021 to 926,568 thousand tenge in 2023. Most of the funds are spent on the purchase of equipment. During a meeting with employees of the financial sector, experts found out that the cost of each EP is formed taking into account the full coverage of costs: i.e. salaries, taxes, internship expenses, academic mobility, visiting professors, equipping the educational process (equipping the CSET, equipping the library fund), as well as the costs of maintaining educational buildings. Targeted financing is carried out: under the budget program (006 "Training specialists with higher, postgraduate education and providing social support to students"), at the expense of the state educational grant, at the expense of own funds or the LEA. This



academic year, expenses are planned for external academic mobility to Kazan in KSMU for three residents, two online visits of professors.

The salary fund is 6,368,708.89 thousand tenge, for educational activities 908,076.98 tenge. A financial report is submitted annually, which is approved by the Board of Directors and demonstrates, among other things, the distribution of educational resources in accordance with needs and coverage of all types of expenses (926,568 thousand tenge) for the implementation and development of the residency program.

#### **8.4 Administration and management**

Organizational management of the EP is carried out by the SR and PD, heads of departments. During the visit, the following were familiarized: with the regulations of the educational process (academic calendar, number of academic groups, volume of academic work, teaching load of the PS), calculation of hours, schedules agreed upon by the WC, classroom fund, contingent of students, accounting of educational achievements of students (portfolio, statements, etc.).

The NJSC "MUK" has an internal quality assurance system, which includes consideration of needs for improvement, its regular review and analysis of compliance with the Mission of the NJSC "MUK".

The policy in the field of quality assurance of the educational process of NJSC "MUK" is presented in the Academic Policy, which was discussed and approved at a meeting of the Senate of the University on August 31, 2023 (pr. 1).

The University has developed and approved regulations on structural divisions (school, department) and job descriptions of the university's teaching staff. Organizational management of the EP is carried out by the DAA, DHRM, deans of schools and heads of departments. The university staffing table is approved by the University Board of Directors, and the annual academic workload of the university and departments is approved by the Senate upon the submission of the Department of Academic Work.

The total number of faculty members is formed based on the average ratio of students to teachers: master's degree - 1:6, doctoral degree - 1:4, residency - 1:3. The policy in the field of quality assurance of the educational process has been developed within the framework of the Quality Management System of NJSC "MUK" (ISO 9001:2015). All procedures for the development and implementation of the quality assurance policy are regulated by the "Guidelines for the Internal Quality Assurance System of NJSC "MUK", approved by the decision of the Board (Minutes No. 22 dated August 16, 2022).

#### **8.5 Requirements and regulations**

The educational organization complies with the recommendations of national authorized bodies, including the Ministry of Science and Higher Education of the Republic of Kazakhstan and the Ministry of Health of the Republic of Kazakhstan. Thus, in accordance with the classifier of residency specialties (On approval of the Classifier of areas of training personnel with higher and postgraduate education; Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 13, 2018 No. 569), at the beginning of the 2023-2024 academic year, the educational organization provides training in 5 specialties. All educational programmes are provided with relevant educational and methodological documents and teachers. An external independent accreditation body carries out the accreditation procedure of the clinic, which evaluates the content of training, the quality of training of specialists, the conditions for the implementation of the educational process; independent control of the quality of knowledge of graduates is carried out by the national centre for independent examinations (NCIE). Information has been received and confirmed by documents that the department employees are members of professional societies, participate in visiting medical and health-improving republican programs, take part in the work of specialized and permanent commissions of healthcare organizations and local authorized bodies.

*Conclusions of the EEC on the criteria.* Compliance with 11 standards (including 8 basic, 3 Standard improvements): fully -11.

### **Standard 9: CONTINUOUS RENEWAL**

The activities planned at the University aimed at ensuring the University's timely response to changing conditions are reflected in the Development Program of the NJSC "Medical University of Karaganda" for 2024-2028, approved on December 11, 2023 by the Decree of the Government of the Republic of Kazakhstan No. 1105 (<https://adilet.zan.kz/rus/docs/P2300001105>).

Continuous renewal of the quality of the EP occurs through a revision of the process of monitoring and evaluating programs, educational technologies, innovative educational environment, methods, principles and criteria for assessing academic achievements in accordance with the final RO. Based on the analysis of the results of internal and external monitoring, adjustments are made to the EP development plan (approved at the Council of the SR and PD, minutes No. 2, dated 10/15/2020). No. 12 dated 09/15/2023). The EP undergoes quality monitoring at least once every 3 years; in case of preparation for specialized accreditation of the EP, quality monitoring is carried out unscheduled.

The procedure for updating the organizational structure is carried out taking into account the wishes of stakeholders (employers and residents), adapted to the changing needs of all stakeholders, and in 2019, when developing the EP, the final outcomes and competencies of residents were revised and analysed, taking into account modern trends in the development of diagnostics and treatment in neonatology. The EP "Neonatology" was revised and registered in the USHEM register, registration number 7R09100252, on 13.08.2020 and updated on 05.05.2023 in accordance with State Compulsory Educational Standard No. 63 dated 04.07.2022, taking into account the recommendations of external experts.

Continuous improvement of the quality of the residency EP in the specialty "Neonatology" is carried out through the introduction of modern educational technologies; ensuring an innovative educational environment; continuous professional development of the Academic staff;

In the 2019-2020 academic year, the EP in residency was completely revised. As a result, the core competencies and final learning outcomes necessary to achieve a certain level in the learning process were revised.

While improving the EP, the department took into account the postgraduate training environment, modified the final results and adapted them according to modern views of theory and practice, made adjustments according to the requirements of new LSI, new methods for assessing residents, forms of examinations were developed (a clinical exam was introduced), teaching methods changed, the process of monitoring and evaluating the EP changed, stakeholders are widely involved.

In terms of both relative and absolute indicators, the university has normal financial stability and successful development potential, including for updating resources for continuous improvement (resources of the library and publishing centre, the CSET, an office for providing emergency care to new-borns is planned). A project has been developed and a Memorandum of Cooperation in the field of healthcare, academic, scientific and cultural cooperation with the corporate fund "Universitymedicalcenter", which is a level 4 institution according to the regionalization of perinatal care, is at the signing stage.

*Conclusions of the EEC on the criteria.* Compliant with 2 standards (including 1 basic, 1 improvement Standard): fully -2.

**CONCLUSION:** during the external evaluation of the educational programme, it was found that out of 114 standards (including 82 basic standards and 32 improvement standards), 113 standards for accreditation demonstrate full compliance, including 81 basic standards and 32 improvement standards. Partially fulfilled is 1 basic standard and 0 improvement standards. Non-compliance with standards was not found.

**5. Recommendations for improvement of the educational programme 7R01114 "Neonatology" of the NJSC "MUK"**

- 1) To expand the catalogue of elective disciplines taking into account the need to ensure competencies in the scientific foundations and methodology of medical research, including the disciplines "clinical research" and "clinical epidemiology" (2.2.1).

**6. Recommendation to the Accreditation Council of the ECAQA**

The members of the EEC established the compliance of the educational programme of the residency in the specialty 7R01114 "Neonatology" of the NJSC "Medical University of Karaganda" with the Standards for Accreditation and came to a unanimous opinion to recommend the Accreditation Council of the ECAQA to accredit this program for a period of 5 years.

	Full name	Signature
Chairman	Zhanalina Bakhyt Sekerbekovna	
International Expert	Nasyrov Ruslan Abdullaevich	
International Expert	Troinich Yana Nikolaevna	
Academic Expert	Zhumalina Akmaral Kanashevna	
Academic Expert	Madyarov Valentin Manarbekovich	
Academic Expert	Nugmanova Aigul Maratovna	
Academic Expert	Apbasova Saulesh Akhatovna	
Academic Expert	Yesetova Gulstan Utegenovna	
Academic Expert	Sadykova Ainur Maralovna	
Academic Expert	Tuksanbaeva Gulfariza Usenbaevna	
Academic Expert	Iztleuov Yerbolat Maratovich	
Academic Expert	Pak Laura Alekseevna	
Academic Expert	Kamhen Vitaly Bronislavovich	
Employer Expert	Daniyarova Bayan Lashinovna	
Student Expert	Dyusembek Nazira Askerbekkyzy	

Профиль качества и критерии внешней оценки образовательной программы (обобщение)

Standard	Критерии оценки	Количество стандартов	БС*/СУ	Оценка		
				Полностью соответствует	Частично соответствует	Не соответствует
1.	<b>МИССИЯ И КОНЕЧНЫЕ РЕЗУЛЬТАТЫ</b>	14	9/5	9/5		
2.	<b>ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА</b>	22	19/3	18/3	1\0	
3.	<b>ОЦЕНКА РЕЗИДЕНТОВ</b>	9	6/3	6/3		
4.	<b>РЕЗИДЕНТЫ</b>	20	14/6	14/6		
5.	<b>АКАДЕМИЧЕСКИЙ ШТАТ/ПРЕПОДАВАТЕЛИ</b>	8	7/1	7/1		
6.	<b>ОБРАЗОВАТЕЛЬНЫЕ РЕСУРСЫ</b>	18	11/7	11/7		
7.	<b>ОЦЕНКА ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММЫ</b>	10	7/3	7/3		
8.	<b>УПРАВЛЕНИЕ И АДМИНИСТРИРОВАНИЕ</b>	11	8/3	8/3		
9.	<b>НЕПРЕРЫВНОЕ УЛУЧШЕНИЕ</b>	2	1/1	1/1		
		114	82/32	81/32	1\0	
				114		

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

<b>№</b>	<b>Наименования документов/дата утверждения</b>	<b>Количество</b>
1.	1. ПОЛОЖЕНИЕ О РЕЗИДЕНТУРЕ НАО «МУК» «23» _августа_ 2022 г. Протокол №18	1
2.	План развития 7R01114 «Неонатология» на 2023-2026г.г. от 15.09.2023г.	1
3.	Договор о совместной деятельности между НАО МУК и КГП «ОКБ» ПЦ№1 и ПЦ№2 от 01.09.2023г.	1
4.	Рецензия внешняя на ОП 7R 01114 «Неонатология» от 21.09.2023г.	1
5.	Рецензия внешняя на КИС и силлабусы по всем дисциплинам ОП 7R 01114 «Неонатология» от 31.08.2023г.	1
6.	Рецензия внутренняя на КИС и силлабусы по всем дисциплинам ОП 7R 01114 «Неонатология» от 31.08.2023г.	1
7.	ОТЧЕТ по результатам оценки удовлетворенности работодателей выпускниками НАО «МУК» за 2022–2023 учебный год Утвержден Решением Сената НАО «МУК» «30» 11.2023г. Протокол №4	1
8.	ОТЧЕТ по результатам оценки удовлетворенности обучающихся качеством образовательного процесса НАО «МУК» Лигой академической честности (ЛАЧ) за 2022 – 2023 учебный год Утвержден Решением Сената НАО «МУК» «30» 11. 2023г. Протокол №4	1
9.	Силлабус по модулю «Неонатология в стационаре» для резидентов 1,2 года обучения	1
10.	Силлабус по дисциплине «Выхаживание недоношенных» для резидентов 2 года обучения	1
11.	ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА «НЕОНАТОЛОГИЯ» уровень образования: резидентура Шифр 7R01114 Версия 2 УТВЕРЖДЕН Решением Правления Протокол №16 «13» 07. 2022 г.	1
12.	Меморандум о сотрудничестве с зарубежным партнером – Самаркандским государственным медицинским университетом МЗ Республики Узбекистан	1
13.	Меморандума о сотрудничестве с АО НЦАГиП (Алматы) от 2024г.	1
14.	Соглашение о создании международного научно-образовательного консорциума с Федеральным государственным бюджетным образовательным учреждением высшего образования МЗ РФ Казанским государственным медицинским университетом от 18.05.2023г.	1
15.	КАЛЕНДАРНО-ТЕМАТИЧЕСКИЙ ПЛАН занятий доктора медицинских наук, доцента Дильмурадовой К.Р., заведующей курсом неонатологии факультета последипломного образования Самаркандского государственного медицинского университета для резидентов ОП 7R01114 Неонатология в период с 10.05.2023г. по 23.05.2023г.	1
16.	КАЛЕНДАРНО-ТЕМАТИЧЕСКИЙ ПЛАН занятий доктора медицинских наук, профессора кафедры неонатологии Устиновича Ю.А., института повышения квалификации и переподготовки кадров	1

	здравоохранения учреждений образования «Белорусский государственный медицинский университет» для резидентов ОП 7R01114 Неонатология в период с 13.11.2023г. по 24.11.2023г.	
17.	Политика приёма обучающихся в НАО «МУК» АП НАО МУК ОЕ/2 Версия 4 от 08.06.2023г.	1
18.	ПОЛОЖЕНИЕ ОБ УПРАВЛЕНИИ ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММОЙ В НАО УТВЕРЖДЕН Решением Правления 09.09.2020 г. Протокол №14	1
19.	ПОЛОЖЕНИЕ ОБ ИНДИВИДУАЛЬНОМ ПЛАНЕ РАБОТЫ ПРЕПОДАВАТЕЛЯ НАО «МУК» «16» ноября 2022г.Протокол №29	1
20.	ПРАВИЛА КОНКУРСНОГО ЗАМЕЩЕНИЯ ВАКАНТНЫХ ДОЛЖНОСТЕЙ НЕКОММЕРЧЕСКОГО АКЦИОНЕРНОГО ОБЩЕСТВА «МЕДИЦИНСКИЙ УНИВЕРСИТЕТ КАРАГАНДЫ». Протокол №5 «05» апреля 2022 г.	1
21.	УСТАВ НЕКОММЕРЧЕСКОГО АКЦИОНЕРНОГО ОБЩЕСТВА «МЕДИЦИНСКИЙ УНИВЕРСИТЕТ КАРАГАНДЫ» от 25.01.2019г.	1
22.	Кодекс деловой этики НАО МУК от 24.08.2019г.	1
23.	Академическая политика НАО «МУК». От 31.08.2023г.	1
24.	Нормы времени для расчета объема учебной работы на 2023-2024 учебный год от 05.04.2023г.	1
25.	Должностная инструкция профессора кафедры УТВЕРЖДЕН Решением Правления «26» августа 2019 г. Протокол № 8	1
26.	Должностная инструкция ассистента-профессора кафедры УТВЕРЖДЕН Решением Правления«26» августа 2019 г. Протокол № 8	1
27.	Должностная инструкция клинического наставника УТВЕРЖДЕН Решением Правления «26» августа 2019 г. Протокол № 8	1
28.	Выписки из протоколов кафедры педиатрии и неонатологии	1
29.	Выписки из протоколов заседания совета ШРиПР	1
30.	Выписки из протоколов академического комитета ШРиПР	1
31.	Выписки из протокола заседания Совета директоров НАО МУК	1
32.	Сертификаты ППС по педагогическим компетенциям за последние 5 лет	1
33.	Сертификаты клинических наставников по педагогическим компетенциям за последние 5 лет.	1
34.	Сертификаты ППС по повышению квалификации за последние 5 лет.	1
35.	Сертификаты клинических наставников по повышению квалификации за последние 5 лет.	1
36.	Транскрипт резидента 2 года обучения Мырзагулова М.Т. с Казанского государственного медицинского университета от 12.04.2024г.	1
37.	Транскрипт резидента 2 года обучения Ыбрай А.А. с Казанского государственного медицинского университета от 12.04.2024г.	1
38.	Каталог элективных дисциплин ОП 7R 01114 «Неонатология» за 2023г.	1
39.	Каталог элективных дисциплин ОП 7R 01114 «Неонатология» за 2024г.	1
40.	Каталог элективных дисциплин ОП 7R 01114 «Неонатология» за	1

	2022г.	
41.	Расписание практических занятий и график СРОП для резидентов неонатологов 1 года обучения на 2023-2024г.г. ОП 7R 01114 «Неонатология».	1
42.	Расписание экзаменов на 2023/2024 учебного года для резидентов 2 курса, обучающихся по образовательной программе 7R01114 «Неонатология»	1
43.	Список статей по педагогическим компетенциям преподавателей программы 7R 01114 «Неонатология» за последние 5 лет.	1
44.	Ходатайства резидентов 2022-2024г.г. о приеме на работу по завершению обучения.	1
45.	Списки научных публикации резидентов программы 7R 01114 «Неонатология» за последние 5 лет.	1
46.	Сканы научных публикаций резидентов программы 7R 01114 «Неонатология» за последние 5 лет.	1
47.	Презентации научных проектов резидентов программы 7R 01114 «Неонатология» за последние 5 лет.	1
48.	Дипломы и сертификаты участия резидентов программы 7R 01114 «Неонатология» за последние 5 лет в научно- практических конференциях.	1
49.	Презентации научных докладов резидентов программы 7R 01114 «Неонатология» за последние 5 лет в научно- практических конференциях.	1
50.	Постерные доклады резидентов программы 7R 01114 «Неонатология» за последние 5 лет в научно- практических конференциях.	1
51.	Программы научно- практических конференций с темой докладов резидентов программы 7R 01114 «Неонатология» за последние 5 лет.	1
52.	Программа вебинара от 26 апреля 2024г. «ВАЖНОЕ О ВАКЦИНАЦИИ: ЧТО НУЖНО ЗНАТЬ МОЛОДОМУ СПЕЦИАЛИСТУ И СТУДЕНТУ-МЕДИКУ», организованное кафедрой педиатрии и неонатологии НАО МУК в рамках Европейской недели иммунизации 21-27 апреля 2024 г. и презентация доклада «Отношение и информированность матерей по вопросам вакцинопрофилактики».	1
53.	Программа Круглого стола на тему: «Безопасная среда для детей», посвященный 35-летию Конвенции о правах ребёнка и 30-летию ее ратификации Республикой Казахстан на базе МОДБ к. Караганды от 15 апреля 2024 года и презентация доклада «Грудное вскармливание как важный фактор безопасной среды».	1
54.	Сертификаты резидентов программы 7R 01114 «Неонатология» об участии в вебинаре «ВАЖНОЕ О ВАКЦИНАЦИИ: ЧТО НУЖНО ЗНАТЬ МОЛОДОМУ СПЕЦИАЛИСТУ И СТУДЕНТУ-МЕДИКУ» 26 апреля 2024г.	1
55.	Сертификаты резидентов программы 7R 01114 «Неонатология» в форуме «Сложные клинические случаи в практике врача-резидента» от 11.04.2023г.	1
56.	Формы резидентуры, оценочные листы по СРС, СРСП, портфолио, Утвержденная форма.	1
57.	. АНКЕТА № 6: ПРЕПОДАВАТЕЛЬ ГЛАЗАМИ ОБУЧАЮЩЕГОСЯ	1
58.	Техническая спецификация манекенов по ОП 7R 01114	1

	«Неонатология» в ЦСОТ.	
59.	Об утверждении типовых учебных программ по медицинским и фармацевтическим Специальностям Приказ Министра здравоохранения Республики Казахстан от 9 января 2023 года № 4. Зарегистрирован в Министерстве юстиции Республики Казахстан 11 января 2023 года № 31672.	1
60.	Анализ результатов анкетирования в 2022-2023 учебном году: обучающихся и работодателей, выпускников в разрезе программы «Неонатология»	1
61.	Аналитическая справка по результатам анкетирования «Удовлетворенность ППС НАО МУК за 2023г.	1
62.	Журнал инструктажа резидентов по технике безопасности за 2023-2024г.	1
63.	ИПР резидента на 2023-2024г.г.	1
64.	Карта книго обеспеченности по дисциплине «Здоровые доношенные новорожденные» за 2023г.	1
65.	ПОЛОЖЕНИЕ О ШКОЛЕ УТВЕРЖДЕН Решением Правления «11» января 2021 г. Протокол № 1	1
66.	ПОЛОЖЕНИЕ ОБ ОРГАНИЗАЦИИ ИНКЛЮЗИВНОГО ОБРАЗОВАНИЯ В НАО «МУК» УТВЕРЖДЕН Решением Правления «09» декабря 2020г. Протокол № 26	1
67.	РУП программы 7R 01114 «Неонатология» за 2023-2024г.г.	1
68.	Свидетельство об окончании резидентуры НАО Мук	1
69.	Список клинических наставников ОП 7R 01114 «Неонатология» за последние 5 лет.	1
70.	Список ППС программы 7R 01114 «Неонатология» за последние 5 лет.	1
71.	Свидетельство об интеллектуальной собственности № 33675 по дисциплине «Неонатальная нефрология» о 17 марта 2023года	1
72.	Благодарственные письма от работодателей ректору НАО МУК на резидентов программы 7R 01114 «Неонатология» за последние 5 лет.	1
73.	Сертификаты резидентов программы 7R 01114 «Неонатология» активное участие в онлайн сессии и вклад в проведении Журнального Клуба при ОФ «Конгресс акушеров-гинекологов и неонатологов Казахстана».	1
74.	Похвальные грамоты резидентов программы 7R 01114 «Неонатология» от декана ШРиПР Ташкенбаевой В.Б. за высокие достижения в области освоения клинических и научных компетенций, хорошую успеваемость и активную общественную работу.	1
75.	Дипломы резидентов программы 7R 01114 «Неонатология» за активное участие в конкурсе «Территория неотложных состояний», организованного ЦСОТ НАО МУК.	1