REPORT
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF THE EVALUATION OF THE EDUCATIONAL PROGRAMME 7R01131 "NEONATOLOGY" OF NJSC "SEMEY MEDICAL UNIVERSITY" FOR COMPLIANCE WITH THE ACCREDITATION STANDARDS FOR POSTGRADUATE PROGRAMMES (SPECIALTY OF RESIDENCY) IN MEDICAL EDUCATIONAL INSTITUTIONS

period of external expert evaluation: 23-25.05.2022

Semey, 2022
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<th>Interpretation</th>
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<tr>
<td>AMP</td>
<td>administrative and managerial staff</td>
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<tr>
<td>BD</td>
<td>Basic disciplines</td>
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<tr>
<td>BHE</td>
<td>basic health education</td>
</tr>
<tr>
<td>Blueprint</td>
<td>lesson topic technical specification</td>
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<tr>
<td>EKR</td>
<td>East Kazakhstan region</td>
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<tr>
<td>University</td>
<td>Higher education institution</td>
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<tr>
<td>EEC</td>
<td>External expert commission</td>
</tr>
<tr>
<td>SAC</td>
<td>State Attestation Commission</td>
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<tr>
<td>CSVD</td>
<td>City skin and venereological dispensary</td>
</tr>
<tr>
<td>SCES</td>
<td>State Compulsory Educational Standard</td>
</tr>
<tr>
<td>JD</td>
<td>job description</td>
</tr>
<tr>
<td>DOPS</td>
<td>direct observ of procedural skills</td>
</tr>
<tr>
<td>ESUVO</td>
<td>unified system of accounting for higher education</td>
</tr>
<tr>
<td>ECAQA</td>
<td>Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care</td>
</tr>
<tr>
<td>LIS</td>
<td>library information system</td>
</tr>
<tr>
<td>FSA</td>
<td>final state attestation</td>
</tr>
<tr>
<td>FSE</td>
<td>final state examination</td>
</tr>
<tr>
<td>IL</td>
<td>letter of Instruction</td>
</tr>
<tr>
<td>Irbis</td>
<td>library information system</td>
</tr>
<tr>
<td>IMS</td>
<td>integrated management system</td>
</tr>
<tr>
<td>IEPl</td>
<td>Individual Educational Plan</td>
</tr>
<tr>
<td>CAPM</td>
<td>Confidential audit of perinatal mortality</td>
</tr>
<tr>
<td>CIS</td>
<td>Control and measuring system</td>
</tr>
<tr>
<td>CQAES</td>
<td>Committee for Quality Assurance in Education and Science</td>
</tr>
<tr>
<td>KMIS</td>
<td>kazakhstan Medical Information System</td>
</tr>
<tr>
<td>Committe</td>
<td>integrated discipline</td>
</tr>
<tr>
<td>CEP</td>
<td>Educational Programmes Committee</td>
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<tr>
<td>HCF</td>
<td>health care facility</td>
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<tr>
<td>LMS</td>
<td>learning management system KEYPS</td>
</tr>
<tr>
<td>MoH RoK</td>
<td>Ministry of Health of the Republic of Kazakhstan</td>
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<tr>
<td>LEB</td>
<td>Local Executive Bodies</td>
</tr>
<tr>
<td>MES RoK</td>
<td>Ministry of Education and Science of the Republic of Kazakhstan</td>
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<tr>
<td>MEP</td>
<td>Modular educational programme</td>
</tr>
<tr>
<td>MTE</td>
<td>material and technical equipment</td>
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<tr>
<td>mini-CEX</td>
<td>mini-Clinical Exam</td>
</tr>
<tr>
<td>MSF</td>
<td>360 Degree Rating</td>
</tr>
<tr>
<td>NJSC &quot;SMU&quot;</td>
<td>Non-profit joint-stock company &quot;Semey Medical University&quot;</td>
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<tr>
<td>RW</td>
<td>Research work</td>
</tr>
<tr>
<td>NLA</td>
<td>normative legal act</td>
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<tr>
<td>GED</td>
<td>General educational disciplines</td>
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<tr>
<td>RSVPD</td>
<td>Regional skin and venereological dispensary</td>
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<tr>
<td>DQCME</td>
<td>Department of Quality Control of Medical Education</td>
</tr>
<tr>
<td>GM</td>
<td>&quot;General Medicine&quot;</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<tr>
<td>EP</td>
<td>Educational programme</td>
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<tr>
<td>RO</td>
<td>registrar's Office</td>
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<tr>
<td>ATR</td>
<td>assessment of tolerance rating</td>
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<tr>
<td>OSPE</td>
<td>objective structured practical exam</td>
</tr>
<tr>
<td>OSCE</td>
<td>Objective Structured Clinical Exam</td>
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<tr>
<td>POT</td>
<td>project-oriented training</td>
</tr>
<tr>
<td>PD</td>
<td>Profiling Disciplines</td>
</tr>
<tr>
<td>TS</td>
<td>Teaching staff</td>
</tr>
<tr>
<td>POT</td>
<td>project-oriented training</td>
</tr>
<tr>
<td>PD</td>
<td>Profiling Disciplines</td>
</tr>
<tr>
<td>WC</td>
<td>Working Educational plan</td>
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<tr>
<td>REMC</td>
<td>Republican Educational and Methodological Section</td>
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<tr>
<td>CBL</td>
<td>Case-based- CBL learning</td>
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<tr>
<td>CbD</td>
<td>Case-based-discussion</td>
</tr>
<tr>
<td>CIPP model</td>
<td>c-content programme evaluation model; I - costs, investments; P - process and P – product</td>
</tr>
<tr>
<td>QMS</td>
<td>Quality Management System</td>
</tr>
<tr>
<td>SSS</td>
<td>Student Scientific Society</td>
</tr>
<tr>
<td>SU</td>
<td>Structural unit</td>
</tr>
<tr>
<td>SSG</td>
<td>student self-government</td>
</tr>
<tr>
<td>SP</td>
<td>standardized patients</td>
</tr>
<tr>
<td>SCORM</td>
<td>international standard for e-learning courses</td>
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<tr>
<td>TEP</td>
<td>Typical educational plan</td>
</tr>
<tr>
<td>TBL</td>
<td>Team-based-learning</td>
</tr>
<tr>
<td>TUKMOS</td>
<td>Turkish National Standard of Medical Education</td>
</tr>
<tr>
<td>SC</td>
<td>Scientific Council</td>
</tr>
<tr>
<td>DHC</td>
<td>Health Care Department</td>
</tr>
<tr>
<td>SPE</td>
<td>School of Postgraduate Education</td>
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</tbody>
</table>
1. Composition of the external expert commission

In accordance with the ECAQA Order No. 17 dated 05.05.2022, an External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation of the residency educational programme in the specialty 7R01131 "Neonatology" of the Medical University of Semey NJSC in the period of 23.05-25.05.2022, as follows:

<table>
<thead>
<tr>
<th>Order №</th>
<th>Status as part of EEC</th>
<th>Full name</th>
<th>Regalia, position, place of work/place of study, course, specialty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>chairperson</td>
<td>Zhanalina Bakhyt Sekerbekovna</td>
<td>doctor of Medical Sciences, Professor of the Department of Surgical and Pediatric Dentistry of NJSC &quot;West Kazakhstan Medical University named after Marat Ospanov&quot;</td>
</tr>
<tr>
<td>2</td>
<td>Foreign Expert</td>
<td>Ripp Evgeny Germanovich</td>
<td>candidate of Medical Sciences, Associate Professor, Head of the Accreditation Simulation Center of the Institute of Medical Education FSBI &quot;National Medical Research Center named after V.A. Almazov&quot; of the Ministry of Health of the Russian Federation, Member of the Board of the Russian Society for Simulation Education in Medicine (RSSTM), Member of the Programme Committee of RSSTM, Instructor of the European Council on Resuscitation (ERC)</td>
</tr>
<tr>
<td>3</td>
<td>Academic Expert</td>
<td>Dzhandaev Serik Zhakenovich</td>
<td>doctor of Medical Sciences, Professor of the Department of Otorhinolaryngology, NJSC &quot;Medical University of Astana&quot;, Academician of the &quot;International Academy of Head and Neck Surgery&quot;</td>
</tr>
<tr>
<td>4</td>
<td>Academic Expert</td>
<td>Urazova Saltanat Nurgozhayevna</td>
<td>doctor of Medical Sciences, Head of the Department of Family Medicine No.3 of &quot;Medical University of Astana&quot; NJSC</td>
</tr>
<tr>
<td>5</td>
<td>Academic Expert</td>
<td>Zhumalina Akmaral Kanashevna</td>
<td>doctor of Medical Sciences, Professor, Head of the Department of Children's Diseases with Neonatology of the NJSC &quot;West Kazakhstan State Medical University named after Marat Ospanov&quot;</td>
</tr>
<tr>
<td>6</td>
<td>Academic Expert</td>
<td>Turgunov Yermek Meiramovich</td>
<td>doctor of Medical Sciences, Professor of the Department of Surgical Diseases of the NJSC &quot;Medical University of Karaganda&quot;, President of the OS &quot;Surgical Association of Karaganda Region&quot;, member of the International Surgery Society, member of the &quot;Association of Independent Experts of Astana&quot; and &quot;Union of Independent Experts of KSMU&quot;</td>
</tr>
<tr>
<td>7</td>
<td>Academic Expert</td>
<td>Ligai Zoya Nikolaevna</td>
<td>doctor of Medical Sciences, Head of the Department of General Medical Practice with the course of the AEMC of the NEI &quot;Kazakh-Russian Medical University&quot;</td>
</tr>
<tr>
<td>8</td>
<td>Academic Expert</td>
<td>Chingaeva Gulnar Nurtasovna,</td>
<td>doctor of Medical Sciences, Professor of the Department of Clinical Disciplines of the Higher School of Medicine of NJSC &quot;Kazakh National University named after Al-Farabi&quot;, Member of the Association of Nephrologists of Kazakhstan, Russian</td>
</tr>
</tbody>
</table>
The observer for ECAQA is Umarova Makpal Aldibekovna, Head of Accreditation and Monitoring Department.

The work of the ECAQA was carried out in accordance with the Regulation of EEC (Order of the Director General of ECAQA No. 4 dated February 13, 2017).

The EEC report contains an assessment of the educational programme 7R01131 "Neonatology" for compliance with the Standards of accreditation of postgraduate education programmes (residency specialties) of medical educational organizations and conclusions (hereinafter referred to as Accreditation Standards), recommendations of the EEC on further improvement of approaches and conditions for the implementation of the above–mentioned educational programme and recommendations for the ECAQA Accreditation Council.

2. General part of the final report

2.1. Presentation of the educational programme of residency in the specialty - 7R01131 "Neonatology" of NJSC "Semey Medical University"

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<th>Role</th>
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<th>Position</th>
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</thead>
<tbody>
<tr>
<td>9</td>
<td>Academic Expert</td>
<td>Bozhbanbayeva Nishangul Seitbekovna</td>
<td>Doctor of Medical Sciences, Professor of the Department of Pediatric Diseases with the course of Neonatology of NJSC &quot;Asfendiyarov Kazakh National Medical University&quot;</td>
</tr>
<tr>
<td>10</td>
<td>Academic Expert</td>
<td>Ulzhan Tursunkulovna Beisebaeva</td>
<td>Doctor of Medical Sciences, Professor of the Department of Oncology, NJSC &quot;Asfendiyarov Kazakh National Medical University&quot;</td>
</tr>
<tr>
<td>11</td>
<td>Academic Expert</td>
<td>Doshakanova Assel Baidauletovna</td>
<td>Candidate of Medical Sciences, Senior Lecturer of the Postgraduate Department of the Kazakh Order &quot;Badge of Honor&quot; Research Institute of Eye Diseases LLP</td>
</tr>
<tr>
<td>12</td>
<td>Expert – employer representative</td>
<td>Tuleutaeva Gulnara Esenzhanovna</td>
<td>Organizing physician - social hygienist of the highest category, deputy chief physician of the PSE on the REM &quot;Polyclinic No.1&quot;, Semey, EKR HCD</td>
</tr>
<tr>
<td>13</td>
<td>Resident Representative</td>
<td>Amina Timurovna Izmaeva</td>
<td>Resident of the second year of study in the specialty &quot;Ophthalmology&quot; of NJSC &quot;Medical University of Astana&quot;</td>
</tr>
</tbody>
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| Organization name, legal form of ownership, BIN | Non-profit joint-stock company "Semey Medical University" |
| Management body | Ministry of Health of the Republic of Kazakhstan |
| Full name of the chief executive officer | Dyusupov Altai Akhmetkalievich |
| Created in | 1953 |
| Location and contact details | Region/region: East Kazakhstan region Postal code: 071400 City: Semey |
The implementation of the residency educational programme in the specialty 7R01131 "Neonatology" began at NJSC "Semey Medical University" in 2019, when the first set of students was made. During the period of implementation of this educational programme, the total number of graduates was 11 residents. The contingent of students resident neonatologists by years amounted to: 2019-2020 – 10 students, in 2020-2021 academic year 4 students were accepted. In 2021-22 academic year, 7 were admitted. It is expected that 4 residents will be released this year.

The mission of NJSC Semey Medical University: "Training of outstanding doctors, scientists and leaders in the field of health care to provide high-quality medical care."

The mission of the educational programme in the specialty of residency 7R01131 "Neonatology" is based on the Mission of NJSC "MUS": "Training of qualified, competitive personnel that meet modern requirements for the quality of doctors specialists for independent work in the specialty of neonatology." The acquired knowledge, skills and abilities based on the principle of a patient-centered approach will allow graduates of the residency to work professionally, both independently and as part of a multidisciplinary team in the conditions of the inpatient department of perinatal centers.

The programme of study in the specialty 7R01131 "Neonatology" includes the study of the main current problems of neonatology, issues of differential diagnosis, diagnosis and modern methods of treatment according to clinical protocols. The educational programme also includes clinical training of the resident under the guidance of a clinical mentor (teacher) and independent work of the resident. Based on the principle of the trinity of education, science and clinics, neonatologists will be able to plan, conduct scientific research with further publication of the results, and transfer their experience to the medical community. All teachers in the specialty of the residency "Neonatology" regularly improve their competencies by studying at refresher training cycles (the responsibilities and duties of employees are reflected in job descriptions).

The employees of the department have certificates of advanced training in such competencies as effective teaching in a medical university, communication skills. All teachers have certificates of a
specialist of the highest category in the specialty "Neonatology". To date, the degree of settling of the department is 62%.

Graduates who have completed training under this educational programme are 100% employed and successfully work in the medical and preventive organizations of East Kazakhstan region and other regions of the Republic. During the entire period of training, residents were actively involved in scientific work and scientific projects carried out at the Department of Pediatrics and Medical Rehabilitation named after D.M. Tusupov. As a result of this activity, participation in scientific and practical conferences with oral, poster presentations, co-authorship in publications of theses and articles, including in journals recognized by CQAES of the Ministry of Education and Science of the Republic of Kazakhstan. In total, graduates of the specialty "Neonatology" published 17 theses, took part in 6 scientific and practical conferences. The participation of resident neonatologists in the work of the Journal Club of Neonatologists of the Republic of Kazakhstan contributes to the expansion of horizons and awareness of the latest modern clinical recommendations in the diagnosis and treatment of various conditions and diseases of newborns. Resident Neonatologists are given the opportunity to participate in a Confidential Perinatal Mortality Audit (CAPM). At the meetings of the CAPM, anonymous systematic multidisciplinary studies of cases of perinatal death are carried out, residents learn to identify the causes of death and its preventable factors.

2.2. Information on previous accreditation
The initial accreditation of the specialty "Neonatology" was carried out by the "Independent Agency for Quality Assurance in Education". A certificate of conformity was received with an accreditation period of 1 year from 25.02.21 to 24.01.2022 (IS-A No. 003/1 dated 25.01.2021).

2.3. Conclusion on the results of the review of the report on the self-assessment of the educational programme of the residency specialty 7R01131 "Neonatology" of SMU for compliance with the Standards of accreditation of postgraduate programmes (residency specialty) of medical organizations of education and conclusions

The self-assessment report on the educational programme in the specialty 7R01131 "Neonatology" (hereinafter referred to as the report) is presented on 47 pages of the main text, attachments on 15 pages, copies or electronic versions of 97 documents located at https://drive.google.com/drive/u/1/folders/1L9FwzBnUPRF5B-6z8qbygyDwT2ZPPX5i.

The report is characterized by the completeness of responses to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for the self-assessment of the educational programme provided to the organization of education by the accreditation center - ECAQA, as well as the internal unity of information. The report is accompanied by a cover letter signed by the Rector prof. A.A. Dyusupov, which confirms the reliability of quantitative information and information included in the self-assessment report. The report contains a list of 17 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 – A.B. Zhunusova, Director of the Department of Academic Work, Candidate of Medical Sciences.

The self-assessment of the educational programme 77R01131 "Neonatology" was carried out on the basis of the order of the head No. 41 dated February 9, 2022 "On approval of the composition of the Working Group for self-assessment and preparation for accreditation of educational programmes of the residency for compliance with the standards of specialized accreditation of educational programmes of the Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care (ECAQA)".

The report was reviewed by Bozhbanbayeva N.S., an accreditation expert, and the review noted strengths and areas for improvement, as well as recommendations for additions and changes. Thus, in
the process of feedback from the representative of the educational organization, experts received answers to the questions that arose and the self-assessment report was amended accordingly and additions were made to the recommendations of the reviewers.

All standards include the real practice of NJSC "Medical University of Semey" for the training of residents in the specialty 7R01131 "Neonatology", taking into account the beginning of admission of students in 2019, reasoned data, examples of the implementation of the tasks of the educational programme, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. The description in the self-assessment report is sufficiently complete and updated in terms of the number of residents, teachers, administration, information on selection and admission, learning outcomes, results of knowledge and skills assessment, material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, plans for development and improvement.

The report is submitted to ECAQA in a completed form, with correction of the data on the above recommendations, written in a competent language, the wording for each standard is clear and understandable and described in accordance with the criterion of standards, tables and contain references in the text and have end-to-end numbering.

The quality of the self-assessment report served as the basis for moving to the next stage of the accreditation procedure, the external assessment. The experts plan to validate the report data, compare the information from the report with the information that will be obtained during the visit to the educational institution, i.e. verification of quantitative and qualitative indicators.

3. External expert evaluation assessment

External expert work in the framework of the evaluation of the educational programme 7R01131 "Neonatology" was organized in accordance with the Guidelines for the External Evaluation of Educational Organizations and Educational Programmes of ECAQA (approved by the order of the Director General of the "Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care" No.5 dated February 17, 2017) and in accordance with the programme approved by order No. 17 dated May 5, 2022 by the Director General of ECAQA Sarsenbayeva S.S. and agreed with the Chairperson of the Board - Rector of NJSC "MUS" Dyusupov A.A. Dates of the visit to the organization: May 23-25, 2022.

The external evaluation is aimed at validating the data of the self-assessment report and verifying the indicators indicating the degree of compliance with the criteria of accreditation standards.

The sequence of the visit within 3 days is presented in detail in the Visit Programme (hereinafter referred to as the Programme), which is contained in the documentation of the accreditation center and in Attachment 3 to this report. The programme is evidence of the implementation of all planned activities within the framework of an external expert evaluation.

To obtain objective information, the EEC members used the following methods and their results:
- interview with management and administrative staff – 17 people in total;
- interviews with residents – 19 students;
- study of the website https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/rezidentura/;
- interviewing 20 employers, 18 teachers;
- questionnaires of teachers and residents - 26 and 124, respectively;
- observation of the training of residents: attending a practical lesson on the topic "Parenteral nutrition in the newborn". Teacher Alibekova Bakytzhan, Master of Medical Sciences. 4
resident neonatologists took part. Venue: "Perinatal Center" PSE on the REM (100 Zhamakaev str., Semey);

- overview of resources: visited the practice/clinical training base of the Perinatal Center, Semey, where there is a training room 1, where 3 full-time teachers work;
- study of educational and methodological documents in the amount of 97 units both before the visit to the organization and during the visit to the units (the list of studied documents is in Attachment 2).

The staff of the accredited organization ensures the presence of all persons indicated in the visiting programme and according to the lists of interviews and interviews (Table 1).

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

<table>
<thead>
<tr>
<th>№</th>
<th>Full name</th>
<th>Job Title</th>
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<tbody>
<tr>
<td>1</td>
<td>Altai Akhmetkalievich Dyusupov</td>
<td>Chairperson of the Management Board – Rector</td>
</tr>
<tr>
<td>2</td>
<td>Tanatarova Gulnaz Nursultanovna</td>
<td>Acting Deputy Chairperson of the Management Board for Academic and Educational Work</td>
</tr>
<tr>
<td>3</td>
<td>Omarov Nazarbek Bakhytbehovich</td>
<td>Deputy Chairperson of the Board for Science and Strategic Development</td>
</tr>
<tr>
<td>4</td>
<td>Turarova Elmira Merkhatovna</td>
<td>Head of Graduate Employment (Residency)</td>
</tr>
<tr>
<td>5</td>
<td>Manatova Almira Manatkyzy</td>
<td>Dean of the School of Postgraduate Education (residency)</td>
</tr>
<tr>
<td>6</td>
<td>Kusainova Gulnara Zhomartovna</td>
<td>Head of Training Department</td>
</tr>
<tr>
<td>7</td>
<td>Bekbolatova Mariya Adletkyzy</td>
<td>Deputy Dean of SPE</td>
</tr>
<tr>
<td>8</td>
<td>Dzhobalayeva Bagym Sasanoanovna</td>
<td>residency methodologist</td>
</tr>
<tr>
<td>9</td>
<td>Krykpayeva Saltanat Sayatovna</td>
<td>Head of Research Institute</td>
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<td>Dzhameddinova Ulzhan Slamovna</td>
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<td>Yerkezhan Sayatovna Tursinkanbetova</td>
<td>Deputy Chairperson of the Management Board for Organizational and Economic Work</td>
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<td>Kadirova Elmira Asylbekovna</td>
<td>Head of Human Resources Department</td>
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<td>Balashkevich Natalia Aleksandrovna</td>
<td>Acting Head of the Department of Medical Education</td>
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<td>15</td>
<td>Gulnara Tursyngazyevna Nurgaliyeva</td>
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<td>Malchenko Victoria Valerievna</td>
<td>Specialist of the Clinic Department</td>
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<td>Masabaeva Meruert Ravilievna</td>
<td>Chief Researcher, JESL</td>
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<td>1</td>
<td>Zhanaspaev M.A.</td>
<td>chairperson of the CEP residency</td>
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<td>2</td>
<td>A.K. Akhmetova</td>
<td>head of the Department of Dermatovenerology and Cosmetology</td>
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<td>3</td>
<td>Semenova Yu.M.</td>
<td>head of the Department of Neurology, Ophthalmology and Otorhinolaryngology</td>
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<td>G.A. Berekenova</td>
<td>head of the Department of Maxillofacial and Plastic Surgery</td>
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<td>F.F. Yagofarov</td>
<td>associate Professor of the Department of Infectious Diseases and Immunology of NJSC &quot;MUS&quot;</td>
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<td>Adilgozhina S.M.</td>
<td>assistant of the Department of Family Medicine</td>
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<td>7</td>
<td>Alibekova B.A.</td>
<td>assistant of the Department of Perinatology</td>
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<td>Kapakova M.A.</td>
<td>Assistant of the Department of Hospital Therapy</td>
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<td>Shakhanova A.T.</td>
<td>assistant of the Department of Faculty Therapy</td>
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<td>Toktarova Zh.Zh.</td>
<td>Assistant of the Department of Hospital Therapy</td>
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<td>11</td>
<td>Kazymov E.M.</td>
<td>assistant of the Department of Cardiovascular and Thoracic Surgery</td>
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Employers
1. Raushan Kusainovna Kikimbayeva, deputy Director for the Medical Part of NJSC "MUS" UH, Semey
2. Zhanara Degelenva Zhunusova, Head of the Polyclinic of the Skin and Venereology Department of the City Hospital No.2 of Semey
3. Kairat Salimbekovich Mausymbayev, doctor of the polyclinic of the skin and venereal medicine department of the city hospital No.2 in Semey (clinical mentor of residents)
4. Sandybaeva Mensulu Yexanovna, director of the SEMEYOFTUM Ophthalmology Clinic
5. Buleukhanova Roza Tusupzhanovna, candidate of Medical Sciences, Director of the "Zhan-Er" MC
6. Bekbayev Marat Kozhakhmetovich, Chief Physician of the State Enterprise on the Right of Economic Management "Polyclinic No.4 of Semey" of the DHC of East Kazakhstan region
7. Almenova Nailia Sapanovna, Chief physician of the polyclinic No. 3 in Semey
8. Zhanat Tursyngaliyeva Moldagaliyeva, Head of Polyclinic No.7 in Semey
9. Baltakaeva Almagul Kabiyevna, chief Doctor of the Central Hospital of the Abai District, village of Guard
11. Abeshova Asiya Mukhametkarimovna, head of the Department of Neonatal Pathology of PC, Semey
12. Galiya Aytchanovna Alibekova, Deputy Director for Medical Work, EMH
13. Popov Sergey Alexandrovich, Chief Physician, "City Hospital No. 4" PSE on the REM, Ust-Kamenogorsk
14. Abdieva Zagripa Tokenovna, freelance chief pulmonologist of the Department of Health care (DHC) of East Kazakhstan region
15. Azimbaeva Indira Muslimkhanovna, director of MC Hippocrates, Semey
16. Duman Medeuov, Director of the Renal Center in Semey
17. Nail Sergaliyevich Smailov, Head of the Neurosurgical Department of NJSC "MUS"

Thus, when implementing the activities of the programme, namely, according to the results of the interview with the first head of the organization, the Chairperson of the Board, the Acting Deputy Chairperson of the Board for Academic and Educational Work, the Deputy Chairperson of the Board for Science and Strategic Development, the Deputy Chairperson of the Board for Organizational and Economic Work, the Head of the Department of Employment of Graduates and MF, the Dean of the School of Postgraduate Education, the Head of the Training Department, the Head of the Research Institute, the Head of the Department of Personnel Management, the employees of the units and the Head of the Department of Employment of Graduates and the Medical Foundation, the Head of the Department of the Clinic, the employees of the JESL, members of the advisory bodies: the CEP of the Residency, in interviews with residents and teachers, compliance with the criteria of Standard 1 was established. The Programme for the development of NJSC "ICC" for 2020-2024 was reviewed, which includes such areas as "Promotion of public health" and "Entry into the top-700 universities of the world according to the QS version", which confirms the implementation of the accreditation standard and demonstrates the goals, objectives and prospects of the organization. From interviews with residents, it was established that before the beginning of classes, teachers inform about the mission, work plans of the organization of education, tell where to get the necessary information about the educational programme, teachers, training bases. This indicates compliance with Standard 2 in terms of adapting training to the needs of residents.

The organization's documents contain work programmes, EMCD, which define the goal, take into account the integration of practical and theoretical components, independent work. Compliance with the SCES and standard requirements has been established. Attending a practical lesson on the topic of "Parenteral nutrition of the newborn" (1 academic hour), and a practical lesson at the perinatal center, experts received convincing data that the training is carried out according to the plan, before
the beginning of the lesson, residents respond to tests, receive feedback from the teacher, have the opportunity to improve their skills in neonatology. The organization ensures compliance with ethical aspects in the implementation of the educational programme, since the experts studied the code of ethics G 041.03/04.05.01-2019 dated 01.04.2019 and during the interview the residents replied that they were informed about the content of this document.

When attending the practical lesson "Parenteral nutrition of the newborn" in the amount of 1 academic hour, and the practical lesson in the perinatal center and in conversation 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.

The analysis of educational activities showed that the scientific basis and all the achievements of science in advisory disciplines are taken into account, additions are made to the bibliography of the EMCD and syllabuses, and teachers apply them in classes.

The study of control and measuring tools (600 tests of the database of test tasks, 100 KEYPS tests, 50 clinical tasks) showed that the organization has implemented a proper evaluation policy that allows a comprehensive assessment of the educational achievements of residents. During the interview, the residents spoke about the forms of assessment, for example, assessment sheets for solving situational problems, assessment sheets for performing practical skills and that they are satisfied with everything. They also receive regular feedback from teachers. The system of appealing the results of the assessment is reflected in the "Regulation on the conduct of the appeal" G-041.03.23-2020 dated May 29, 2020, and during the period of work of the organization of education, there were no precedents for the appeal. Thus, compliance with **standard 3 has been established.**

During the visit to the organization and during the interview with the head of the Department of Pediatrics and Medical Rehabilitation named after Tusupova D.M. Alimbayeva Aliya, the commission was convinced 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, regulations of divisions, contracts with teachers and residents, individual plans of teachers and educational and methodological documentation (work programme, work curricula, syllabuses, journals), evaluation tools (checklists, statements), certificates and certificates, portfolio of residents. A review of the website showed that its pages contain the necessary documents for residents "Regulations on the portfolio", "Regulations on residency" of NJSC "Semey Medical University", "Academic Policy" of NJSC "Semey Medical University", "Policy of academic honesty", etc., and there is up-to-date information that is regularly updated.

The conversation with the teachers of the department included such issues as the content of the educational programme, the formation of a catalog of elective disciplines, methods for evaluating residents, the sufficiency of clinical bases and their material and technical equipment, the amount of hours for academic mentors, requirements for clinical mentors, scientific research and publication activity of resident neonatologists, the implementation of academic mobility of teachers and residents, etc., and allowed experts to learn about approaches to attracting employees of clinical bases for teaching (3 people in total), about the strategy and tactics of recruitment of residents, the information security of the educational programme, as well as to identify problems in the management and development of human resources, since most clinical mentors do not have sufficient knowledge of teaching and evaluation methods.

An interview with 3 teachers showed that there are both successes and problems in the management of education, depending on the specific base (admission of residents to equipment, a sufficient number of thematic patients, time to maintain medical records, independent work). Experts received answers about the programme of professional development of teachers, financing of this training, availability at teachers of certification on methods of teaching.
On the same day, experts studied materials on the admission of residents and the selection of teachers and established compliance with **standard 4**.

In order to verify the data of **standard 5**, external experts received an opinion on the personnel policy and approaches to the development of pedagogical and professional competence of teachers, motivation to work with residents, so, according to the results of the 2021-2022 academic year, Alibekova Bakhytzhan and Mukapova Zhanna were recognized as "The best mentors in residency"; mentoring; implementation of academic mobility of teachers, mainly with Russia (Ryazan). Experts were acquainted with the assessment indicators of the educational programme, evaluation criteria, individual work plans of teachers, individual plans of residents. A demonstration of the work of teachers in the KEYPS system was held, the results of the survey of residents and employers were familiarized with. Experts found that teachers initiate research topics for residents, stimulate the need for additional training and independent work with literature, work with medical documents, the implementation of an individual plan, the implementation of sanitary and educational work among the population, academic mobility of residents. The experts also made sure that there are certificates of clinical mentors, publications of teachers together with residents.

During the visit to clinical bases, a survey of resources was carried out, their compliance with training programmes, accessibility for teachers and residents, as far as this equipment is modern and meets the needs of students and practical health care. Experts obtained evidence of compliance with Standard 6, as well as validation of the information in the self-assessment report.

In order to validate the implementation of the self-assessment report and to obtain evidence on the quality of the programmes, interviews were conducted with residents in the specialty. Experts asked questions about satisfaction with the training; availability of necessary literature and equipment; sufficiency of time for the supervision of patients and the presence of sick newborns with various pathologies, as well as premature babies with extremely low body weight, work in medical information systems (Damumed) with medical documentation; satisfaction with teaching methods and qualifications of teachers; social and moral support for residents in need, participation in the "Online Journal Club of Neonatologists of Kazakhstan" and at meetings of confidential perinatal audit, accessibility of international databases of professional specialized literature. In general, residents are satisfied with the training, assessment methods, and purposefully entered this organization for the accredited specialty, as they believe that the organization of education has good resources, image and international relations, at the same time, residents would like more independence in the management of patients, encouraging the achievements of residents through the mechanism of a flexible system of tuition fees.

Residents showed their commitment to the organization of education, were active in answering the questions of external experts, demonstrated their judgments on the organization of training, the formation of a catalog of elective disciplines, assessment of their skills, advisory support, the ability to participate in research, support for publications, financing participation in scientific and practical conferences. Members of the External Expert Commission (EEC) Experts studied the documents of residents (portfolio, results of assessment of residents - checklists, results of questionnaire of residents).

Interviews with 16 employers were conducted online and included such questions as: knowledge of the university's mission, participation in the development of the mission and proposals to the strategic plan, participation in the work of advisory bodies, satisfaction with the basic knowledge and skills of residents, participation in the training of residents through mentoring, providing the department and residents with the necessary resources for practical training and formation clinical thinking, interaction with departments and the university as a whole, 100% employment of residency graduates, etc.

The review of resources showed that they correspond to the goals and objectives of educational activities, for example, a clinical base was visited – a level 3 maternity support institution on the
Perinatal Center, Semey, with a 24-hour inpatient hospital for 100 beds (9 ORITN beds, 31 surgical beds, 60 beds - Mother and Child), and employees of the organization of education provide collegial and ethical relations with medical personnel, the management of the clinical base to achieve the final results of residents. Clinical mentors of residents are heads of neonatal intensive care units, neonatal pathology, have extensive practical experience in neonatology, and have been trained at the School of Clinical Mentors. A sufficient number of thematic patients, modern equipment and demonstrates accessibility to students are provided, and employees who simultaneously perform the roles of teachers and mentors (mentors) provide high-quality training in compliance with ethics and deontology. 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.

During the visit, residents demonstrated the skills of providing primary intensive care in the maternity unit, the skill of calculating parenteral nutrition for a 4-day-old premature child with RDS. The mini-library of the Department of Pediatrics and Medical Rehabilitation named after D.M. Tusupov with rare editions in the specialty "Neonatology", both in Kazakh, Russian and English languages, was demonstrated. During the open class, residents demonstrated discussion skills, ability to make independent decisions, sufficiency of the theoretical knowledge, actively discussed clinical cases. Teachers of the department demonstrated on the KEYPS platform test tasks, the formation of formative and summative assessment of residents.

On the last day of the visit to the organization, a meeting of EEC members was held on the results of the external evaluation. The final discussion of the results of the external evaluation of the educational programme, the study of documents, the results of the interview, questionnaires was held. EEC members started designing the final EEC report. The results of the external evaluation are summarized. Experts individually completed the "Quality Profile and Criteria for External Evaluation of the Residency Educational Programme in the Specialty 7R01131" Neonatology " for Compliance with the ECAQA Accreditation Standards". No comments were made by the EEC members. Recommendations for improving the educational programme were discussed and the Chairperson Zhanalina B.S. held a final open vote on recommendations for the ECAQA Accreditation Council for the accreditation period.

For the work of the EEC, comfortable conditions were created, access to all the necessary information and material resources was organized. The Commission notes the high level of corporate culture of the NJSC "SMU", the high degree of openness of the team in providing information to the members of the EEC.

At the end of the programme of the visit, the chairperson of the EEC for the management and employees of the organization of education announced recommendations on the results of an external assessment within the framework of specialized accreditation.

**Results of the survey**

An observer from the ECAQA conducted an online survey on the resource in the period 23-25.05.2022 https://webanketa.com/.

**Results of the resident survey:** total number of respondents – 124.

This university will be recommended as an organization of education – 87.9% fully agree, partially -8.87%. 83.06% of respondents fully agree and 15.32% partially agree that programme managers and teaching staff are aware of their learning problems. Fully (75%) and partially (18.55%) satisfied with the conditions and equipment of the teaching rooms, classrooms of the university. According to 83.6% (fully) and 12.1% (partially) of office equipment is available for use on the basis of practice. Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes - fully agree 83.6%, partially – 14.52%. Fully (86.29%) and partially (8.87%) satisfied with the library collection and resources. 91.94% of respondents have access to e-learning resources and 6.45% believe that this is a partial access.
According to 81.45%, the organization of clinical training fully satisfies them, and 16.13% partially. Satisfied completely (88.71%) and partially (10.48%) with the methods of teaching. There is sufficient time for practical training (patient supervision, etc.) – 94.35% fully agree, 5.65% partially. Satisfied with the methods of assessing my knowledge and skills – 92.74% completely agree, partially 7.26%. According to 84.71% of teachers in the classroom use active and interactive teaching methods regularly, and according to 0.81% - rarely.

According to 91.94% of respondents, teachers constantly provide feedback after completing classes, but according to 4.03% - sometimes and 1.61% - rarely. Fully satisfied that they study at the university 91.13%, partially 8.06%, disappointed-0.81% of respondents. The university allows you to improve or acquire the necessary knowledge and skills in the chosen specialty confidently 94.35%, not sure 0.81%, can not give an answer 3.23%, would like to believe in this 0.81%, began to doubt this – 0.81%. Completely (94.5 per cent) and partially (93.55 per cent) satisfied with the organization of teaching at the NJSC "SMU".

According to 85.48% of respondents, accreditation is a necessary mechanism for improving educational programmes, but 8.06% believe that it is not necessary to conduct and 5.65% doubt the answer. The work of the EEC was assessed as positive – 92.74%, satisfactory -4.84%.

**Results of the survey of teachers of resident programmes:**

The total number of teachers on the list is 26. The total number of respondents is 26, including those with up to 5 years of experience - 15.38%, up to 10 years - 7.69%, over 10 years - 76.92%. Satisfied with the organization of the educational process completely 88.46%, partially –11.54%. The university observes ethics and subordination completely agree 88.46%, partially –11.54%. The organization of work and workplace is fully satisfied with 73.08% of respondents, partially 23.08%. In the organization there is an opportunity for career growth and competence development to teachers-88.46% completely agree, partially –11.54%.

In this educational institution, teachers have the opportunity to engage in scientific work and publish the results of research – fully agree 80.77%, partly 19.23%. 88.46% of respondents are completely satisfied with work of personnel service, partially –7.69%. The majority of those surveyed have undergone refresher training over the past 5 years. Only 92.31% fully agree that they can be implemented as professionals, and 7.69% - partially. Unfortunately, 7.69% did not answer the question whether the university supports the teacher in participating in international and republican events, and 30.77% did not address this to the management or relevant administrative employees of the university. The majority of respondents (96.15%) completely agree, and 3.85% partially agree that students have free access to patients on the clinical bases of the university and to the resources of the practice bases. 26.92% are unaware of the implementation of social programmes to support teachers and 3.85% of respondents are doubtful about their availability. The management and administration systematically listen to the opinion of teachers-76.92%, sometimes -0% of respondents. Various methods of teaching are used in the teaching of students, but more often work - analysis of situational problems (88.46%), work in small groups (61.54%), oral surveys and analysis of the topic (50%), also problem-oriented teaching (34.62%), solution of tests (73.08%), cases are solved (88.46%), less often written performance of tasks (7.69%). Completely according to 73.08% that this questionnaire will be useful for the development of recommendations for improving the university and educational programmes of the residency, 19.23% partially agree with this.

**Conclusions:** the results of the survey as a whole demonstrate the satisfaction of both residents and teachers with the educational process, the resources of clinical bases, the competencies of teachers, and also indicate the existence of centralized management of the educational programme, at the same time identifying areas for improvement:

a) Social support programmes for teachers;

b) support for the participation of teachers in international and national events.
Analysis of compliance with accreditation standards based on the results of an external assessment of the educational programme of the residency specialty 7R01131 "Neonatology"

Standard 1: MISSION AND END OUTCOMES

Evidence of compliance:

1.1 Mission statement and deliverables

The mission of the educational programme of the residency in the specialty 7R01131 "Neonatology" is based on the mission of the NJSC "Medical University of Semey" - "Training of outstanding doctors, scientists and leaders in the field of health care for the provision of high-quality medical care" (https://semeymedicaluniversity.kz/o-nas/). The mission of the educational programme in the specialty of residency 7R01131 "Neonatology" is based on the Mission of NJSC "MUS": "Training of qualified, competitive personnel that meet modern requirements for the quality of doctors specialists for independent work in the specialty of neonatology."

As a result of meetings and interviews with teachers, employers, residents and graduates of the educational programme, it was possible to establish that, based on the principle of the trinity of education, science and clinics, neonatologist graduates, taking into account the patient-centered approach, will be able to work professionally independently in maternity institutions. The educational programme was discussed with employers, positive feedback was received from the head of the neonatal service of Semey Dyusekenova G.K. EP in the specialty of residency 7R01131 "Neonatology" is published on the website of the university (https://semeymedicaluniversity.kz/obuchenie/obrazovatelnaye-programmy/rezidentura/).

The study of the documentation showed that the content of the mission of the educational programme of the residence in the specialty 7R01131 "Neonatology" is based on the analysis of the needs of public health and the medical care system. Within the framework of the existing need for qualified specialists in the field of dermatovenerology both in the East Kazakhstan region and throughout the Republic of Kazakhstan, this Mission was formulated. The content of the mission and the educational programme in general were presented to external stakeholders, discussed at an enlarged meeting of the department (Minutes No. 1 of 28.08.2021).

The educational programme of the residency 7R01131 "Neonatology" has in its structure the module "Research in Medicine", which includes the disciplines "Management of scientific research" and "Biostatistics". Residents demonstrated the results of independent work prescribed in the EP: to date, resident neonatologists have published 17 abstracts (Special Issue, "Science and Health", Astana medical magazines №2(104), 2020) and 1 article in the journal "Anesthesiology and Resuscitation of Kazakhstan №1(18) 2021.

The participation of resident neonatologists in the work of the Journal Club of Neonatologists of the Republic of Kazakhstan contributes to the expansion of horizons and awareness of the latest modern clinical recommendations in the diagnosis and treatment of various conditions and diseases of newborns. The Journal Club, which includes all neonatologist residents of NJSC "MUS", is attended by doctors from both the Republic of Kazakhstan and other countries. Thus, among the last classes of the club, the resident neonatologist of 2 years of training Dautbekov S.T. analyzed the scientific article "Consensus protocol for the assessment and monitoring of EEG and amplitude-integrated EEG in newborns" (18.01.2022), the resident neonatologist of 2 years of training Omargaliyeva A.A. made a detailed analysis of the article "Neonatal encephalopathy", published on the CochraneLibrary platform (25.01.2022). Such a format of practical training for residents makes it possible for them to receive additional education, as an essential component of the system of continuing education through access to distance learning, online conferences, participation in various international conferences and congresses, where modern methods of diagnosing and treating diseases are highlighted. In 2021, resident neonatologists completed a 14-day course in Emergency Medicine
at Ryazan State Medical University named after academician I.P. Pavlov in an online format with obtaining certificates.

Also, resident neonatologists actively participate in CAPM meetings.

1.2 Professionalism and professional autonomy

Visiting the clinical base, attending an open class, meetings with teachers and residents allowed us to see that, following a patient-centered approach in the clinical process, while maintaining the need for assistance, each resident develops an individual level of such quality as professionalism. The formation of professionalism is formed on the basis of direct on-the-job training, where residents face clinical situations of various levels of complexity, learning from the experience of senior colleagues, and thereby building their own model of behavior.

Based on the Law on Education of the Republic of Kazakhstan, where the autonomy of higher and postgraduate education organizations is enshrined, which gives the right, on the basis of standard rules, orders, etc. The university determines independently the development of the educational programme, assessment, selection and admission of residents, selection/selection of teachers, employment conditions and allocation of resources.

The Regulations on Residency reflect the rights of residents, the implementation of which is facilitated by the department. Freedom of expression of the resident's opinions on their education is usually ensured through anonymous questionnaires, which are carried out centrally, under the supervision of the DQCME. Analysis of feedback on training satisfaction is reported at the departmental meeting.

In the course of interviews with residents, it was established that the freedom of practical and research activities is realized through the work of residents, where under the guidance of a department employee, work is carried out in research work, subsequent analysis and interpretation of data, and then writing an article or thesis.

Feedback is systemic. Thus, in the lobby of the main building, an urn is installed to collect information (proposals, complaints, recommendations) from students addressed to the rector, the chairperson of the Anti-Corruption Committee (https://semeymedicaluniversity.kz/o-nas/obshhestvennyj-sovet-po-protivodejstviyu-korrupcii-v-mediczinskom-universitete-semej/), the SSU. Each month, the contents of the urn are examined and analyzed by a commission. Based on the results of the commission's work, a plan of measures to eliminate complaints is being developed.

1.3 Learning outcomes

The final training results presented in the specialty 7R01131 "Neonatology" are aimed at the formation of a qualified specialist in the field of neonatology, able to work as a neonatologist and provide specialized neonatal care at the hospital level.

The final results of training in the specialty 7R01131 "Neonatology" were formed on the basis of the SRS of 2020 and the provisions of Tucmos on competencies in the residency of the university partner of the University of Bashkent (Turkey). When formulating the final results of training, the Key Competencies of the SCES were taken as the basis (Appendix – 1.7 EP KC 1-6), Levels of knowledge of clinical competencies (PD, DT, E, P, etc.) and Levels of knowledge of practical skills, manipulations, procedures (1-4). Each of these items is prescribed and applied to nosologies (ICD-10) studied in the residency in priority training of a specialist.

For example, KC-1 - (DT - Able to diagnose and treat patients without the help of a team (team work), DTT - Able to diagnose and treat, working together with a team (team), E - Able to identify an emergency situation and provide emergency care, P - Able to apply preventive measures (primary, secondary, tertiary prevention).

The skills of professional behavior; proper behavior and attitude to patients and their relatives, resident colleagues, teachers, other health care workers (KC-2) are formed on an ongoing basis by conducting conversations, participating in trainings conducted by the staff of the department, a 360-degree questionnaire.
The Code of Ethics for Students, adopted by the NJSC ICC on 15.04.2019, prescribes the principles of the corporate behavior of students, the relationship of students with teachers and among themselves, the relationship of students with doctors, etc. ([https://drive.google.com/file/d/17_CHtm8nfJZOHHu7niPivOsU01qlqt3q/view?usp=sharing](https://drive.google.com/file/d/17_CHtm8nfJZOHHu7niPivOsU01qlqt3q/view?usp=sharing)).

Employee responsible for compliance with ethical standards of conduct in the residency in the specialty 7R01131 "Neonatology" - Master of Medical Sciences Alibekova B.A.

Informing the medical community about the established final results of studying at the residency programme in the specialty 7R01131 "Neonatology" is carried out by discussing the educational programme at the department, providing the EP to the heads of healthcare organizations and receiving feedback, publishing the EP approved by the Academic Committee on the university website.

Since the EP is focused on the expectation of the employer and the needs of the labor market, coordination of the elements of the EP, CED is carried out with employers. Employers, members of professional associations are involved in the review of EP, participation in the discussion of the results at the meetings of the commission on quality assurance of EP.

1.4 Participation in the formulation of the mission and final results

All interested parties (university employees, graduates of the residency, health and education authorities, healthcare organizations, employers, professional medical associations, the public) participate in the formation of the mission and final results of training, taking into account their proposals.

The mission and final results of training in the specialty 7R01131 "Neonatology" are formulated on the basis of the Standard for the organization of paediatric care in the Republic of Kazakhstan. Representatives of the main stakeholders are involved in the formulation of the mission of the EP by discussing the draft mission of the EP at the level of: students, at an enlarged meeting of the Department of Faculty Therapy, the Academic Committee, which includes representatives of employers/representatives of practical health care, students and representatives of various clinical specialties.

**Conclusions of the EEC on the criteria.** Compliant with 17 standards: full – 17.

**Standard 1: Implemented**

**Recommendations for improvement identified during the external visit:**

**Standard 2: EDUCATIONAL PROGRAMME**

**Evidence of compliance:**

2.1 Postgraduate programme framework

The educational programme in the specialty 7R01131 "Neonatology" was developed in accordance with the State Mandatory Standard (SRS) and the Standard Professional Curriculum (TPUP) for medical and pharmaceutical specialties (Order of the Ministry of Health of the Republic of Kazakhstan No.647 dated July 31, 2015 with additions and amendments dated February 21, 2020 No. 20071.) and the qualification characteristics of a neonatologist.

The standard curriculum provides for 2-year training in the residency, with the total minimum amount of hours 4200 (140 credits) and obtaining a qualification - a neonatologists, which also meets the requirements of the State Standard of the Ministry of Health of the Republic of Kazakhstan No. 647 dated 21.02.2020. Mandatory disciplines/modules reflected in the EP, as well as the university component are optionally included in the educational programme in the specialty in 4 modules.

Also, as a mandatory requirement, the programme includes 2 loans of the "Interim Certification" and 2 loans of the "Final Certification". In total, the educational programme of the residency in the specialty 7R01131 "Neonatology" consists of 144 credits.
The list of the most common diseases and conditions to be diagnosed and treated by neonatologists, given in the Standard Curriculum for the specialty 7R01131 "Neonatology" is fully covered by the list of nosologies and conditions to be mastered by the resident according to the programme 7R01131 "Neonatology", developed on the basis of the study of the requirements of regulatory documents, the TUKMOS programme of the partner's university and the needs of practical health care. The peculiarity of this list is the level of mastery for each state/nosology (E, PD, D, DT, DTT, P), which is the result of strategic cooperation with Bashkent University.

A working curriculum and an educational programme are developed, providing for modular study of disciplines in compliance with the logical sequence of study of disciplines (for the entire period of study on the basis of the standard curricula of the specialty and approved by the chairperson of the academic committee on the basis of the decision of the Academic Council. The work plan contains a complete list of academic subjects grouped into modules with disciplines, indicating the complexity of each academic subject in credits and academic hours. The programme is included in the register of ESUVO of the Ministry of Education and Science (MES RK).

Given the practical orientation of resident training, clinical mentoring occupies an important place, both from the point of view of regulatory documents and from the point of view of the university. Since 2018-2019, the School of Clinical Mentor has been operating in NJSC "MUS". Since 2020-2021, the training of mentors by practical health care at this school is mandatory. As mentors for resident neonatologists, only specialists with extensive clinical experience, who have the highest and first qualification category, are involved. For the effective transfer of knowledge to neonatologist residents, experienced specialists from practical healthcare are involved in the work:

1. Dyusekenova G. K. – Head of the Neonatal Service of the Perinatal Center of Semey, Freelance Chief Neonatologist of the Semey Region, 35 years of experience, has the highest qualification category. She completed training and internship in the specialty in the Republic of Kazakhstan, Belarus, Minsk 2011, Russia, St. Petersburg 2016, United Kingdom, London 2017.
2. Zhumadilov Zh. S. – Head of the Department of Resuscitation and Intensive Care of Neonates of the Perinatal Center of Semey, 9 years of experience. He completed an internship in neonatology in the Republic of Kazakhstan, Russia, Ekaterinburg 2016, Austria 2019, Israel 2021.
3. Druhova T. N. - neonatologist of the highest category, head of the Department of Pathology, 41 years of work experience.

Mentors are assigned to a certain resident during the rotation of the resident in this department of the clinical base, which allows you to accompany the practical training of the resident.

The educational programme 7R01131 "Neonatology" is composed in such a way that the entire list of mandatory disciplines is formed logically and in relation to the future specialty in the future. The 6 key competencies (KC-1 - Patient Care, KC-2 - Communication and Collaboration, KC-3 - Safety and Quality, KC-4 - Public Health, KC-5 - Research, KC-6 - Training and Development) in general, reflect the current trends towards the trinity of medical professionals. With the successful completion of the training programme, the resident neonatologists will be able to effectively provide qualified dermatological care to the adult and pediatric population, successfully interact with others, carrying out its activities in compliance with the principles of safety and quality.

2.2 Scientific method

Resident neonatologists simultaneously with clinical work, under the guidance of a teacher, conduct active research activities. In the 7R01131 "Neonatology" programme, 8 credits have been allocated to strengthen the skills of medical research methodology, which finds practical application in the ability to develop a research protocol, perform it and document the results in the form of an article or protection of a scientific project. The disciplines "Management of scientific research" and "Biostatistics", combined in the module "Research in medicine", are only auxiliary, while the resident will use and improve the acquired skills throughout the residency programme, as well as in his further
professional activities. These disciplines instill in residents the principles of scientific approach and evidence-based medicine and form their ability to analytical and critical thinking.

In the process of training, resident neonatologists carry out tasks to draw up individual programmes for diagnosis, treatment, rehabilitation for various diseases of newborns in accordance with clinical protocols and the principles of evidence-based medicine.

The results of residents' research activities are regularly published in the form of abstracts, articles, and reports at conferences.

Teaching the basics of working with scientific literature, the formation of primary skills of critical assessment of literature, writing scientific articles is carried out in the disciplines of basic higher medical education in the form of various forms of independent work, participation in the SSS, student scientific conferences.

In the course of training in specialized disciplines, resident neonatologists develop the skills of critical evaluation of literature, articles and scientific data within the framework of classes of the "Journal club" type.

At the end of the study of the 7R01131 "Neonatology" programme, the resident demonstrates knowledge of evidence-based medicine in relation to his/her specialty, masters the skills of conducting an expert assessment of a scientific article, medical history, examination and treatment standards based on the principles of evidence-based medicine. The EP provides for training of residents in critical assessment of literature, articles and scientific data through the writing of abstracts, presentations in accordance with the thematic plan of the discipline, essays on current problems of diagnosis and treatment of the most common diseases.

2.3 Content of the residency programme

The specialized disciplines of the 7R01131 "Neonatology" programme are aimed at theoretical and practical training of residents in the field of clinical sciences and preventive medicine, clinical decision-making, communication skills, patient safety issues. Improvement of knowledge and skills in the field of medical ethics, public health, responsibility for one's own health, laid down at the undergraduate level, is carried out directly during practical training with the help of mentors. More complex issues of medical jurisprudence and forensic medicine, knowledge of complementary and alternative medicine develop in the course of discussing various approaches to non-standard situations in the course of discussing clinical cases, analyzing situations, studying the experience of other colleagues.

The development of clinical skills and professional attitude to work is facilitated by the participation of residents in the real activities of the doctor: supervision of patients at the inpatient level, outpatient reception, medical conferences, registration of medical documentation, work in medical information systems (KMIS, AIS), work with regulations, duty, preparation of reports, presentations, formation of a portfolio that provides a visual example of a professional attitude to work in a medical organization and interprofessional communications of specialists of various profiles and levels.

The content of the programme 7R01131 "Neonatology" changes depending on the results of the evaluation of the programme, the requirements of legislation, the needs of practical health care, the study of international experience, including the experience of the partner's university. In 2019, the project of the SCES Residence was published, in 2020, it was approved by the SCES Residence, in connection with which the residency programme was revised. These changes in the legislation coincided with the study of experience at the University of Bashkent. The result of these processes was a modular residency programme 7R01131 "Neonatology".

The duration of the training remains 2 years, 6 core competencies (KC 1-6) remain unchanged. However, according to the new TEP, the composition and scope of disciplines have been changed. The concepts of "level of knowledge of clinical competencies (E, PD, D, DT, DTT, P) and "level of knowledge of practical skills, manipulations, procedures" (I, II, III, IV), "list of nosologies and conditions that must be mastered by the resident", "List of practical skills, manipulations, procedures
that must be possessed by the resident" are introduced. The latter is the result of strategic cooperation with Bashkent University, Ankara, Turkey. The approach to training in the residency of the partner university is taken as the basis, however, the final results of training in the residency of NJSC "MUS" are based on the demands of practical health care and the requirements of regulatory documents of the Republic of Kazakhstan. In addition, changes to the EP are made taking into account the needs of employers and practical health care, respectively, employers can make changes that affect the introduction of additional disciplines of the component of choice.

2.4 Programme structure, content and duration

The educational programme consists of 144 credits. The programme includes 7 modules of the mandatory component: "Neonatology in the hospital", "Pathology of newborns", "Care of premature children", "Resuscitation and intensive care of newborns", "Outpatient neonatology", "Neonatal neurology", "Neonatal surgery".

Module 8 of the "Research in Medicine" component, consisting of the disciplines: Management of Scientific Research and Biostatistics.

The principle of building a modular educational programme is based on the logic and consistency of studying disciplines. Prerequisites are strictly observed. The principle of rotation and separation of the main disciplines "Neonatology in the hospital" and "Outpatient neonatology" allow you to consistently deepen the level of mastering the most important nosological units and medical manipulations.

The ratio of classroom classes and independent work under the guidance of a mentor and independent work of a resident is 10%-75% - 15%.

The content of the academic disciplines of the mandatory component is strictly regulated by the State Committee on Standardization and Metrology of 21.02.2020, and the standard curriculum already defines a list of disciplines/modules included in the mandatory component. The educational programme 7R01131 "Neonatology" allows residents during the entire training to plan and implement an individual, directed learning path, preparing for work in the chosen specialty. The number of study hours for two years of study is 4,200, which corresponds to 140 credits, 4 of which are in CC – elective disciplines. The division of disciplines by hours and semesters is carried out by the department of academic work. All academic disciplines and disciplines of the specialty are closely interconnected. The formation of the content of disciplines is structured into logically completed methodological blocks. Interdisciplinary communication can be clearly seen in the syllabuses of academic disciplines, compiled taking into account the development of prerequisites and postrequisites, as well as taking into account the specifics of the specialty.

The list of disciplines of the component by choice is compiled in accordance with the CED, formed and approved annually at the university. At the same time, during the study of the provided documentation and interviews with focus groups, it was found that 100% of residents study the disciplines of the component of the choice "Research in Medicine".

2.5 Organization of training

NJSC ICC has adequate representation of staff, trainees and other stakeholders in the planning of the educational programme. For example, the Academic Committee with a subcommittee on residency includes heads of departments, professors, associate professors, teachers of departments that provide the educational process in the relevant specialty of the residency, leading specialists in practical health care, employers, and representatives of the student population. The Academic Committee includes teachers of the programme in neonatology Alimbaeva A.R., Alibekova B.A. Residents studying under the 7R01131 "Neonatology" programme undergo training at clinical facilities that provide training both inpatient and outpatient settings. In the presented clinical databases, planning and implementation of innovations in teaching methods and evaluation of students are provided.
Clinical bases are selected by the department for clinical work, the assessment of the capabilities of a particular base in achieving the final results of training, is carried out by experienced neonatologists from among practical health care and staff of the department, taking into account the requirements of the educational programme. The department, headed by the head of the department, determines the clinical bases where the resident will be able to get access to patients in their profile of the residency educational programme at all levels of medical care. Clinical bases of the Department of Pediatrics and Medical Rehabilitation named after D.M. Tusupov are third-level maternity support institutions: the Regional Perinatal Center of Pavlodar and the Perinatal Center of Semey. The university has concluded agreements with the above clinical bases, and these institutions are included by the Decree of the Government of the Republic of Kazakhstan as clinical bases of the University. Compliance of clinical bases with accreditation requirements is carried out by specialized accreditation agencies and reflected in the relevant documents.

2.6 Relationship between postgraduate medical education and health care

The "Regulations on the Resident Clinical Mentor" are adopted in the NJSC "ICC". This provision defines the priority goals of the mentor's work as assistance in acquiring, improving the professional theoretical and practical competencies of residents, mastering the norms of medical ethics and deontology, and educating them to be demanding and interested in the results of work in the process of joint clinical activities. Up to 3 residents are assigned to each mentor, if possible, the presence of a resident of the first and second years of study is provided for the purpose of continuity and "mini-mentoring" of the senior over the junior. The principle of rotation is also observed, in which the resident's clinical mentor changes depending on the department or clinical base on which the resident is located. The objectives of mentoring are achieved by providing the resident with sufficient freedom to carry out practical activities on the one hand, demonstrating the role model, ensuring a relevant level of observation, providing appropriate assistance, providing constructive feedback on the other.

In addition to the mentor, in order to implement the training plan and the quality of the EP, residents are assigned a curator who participates in the preparation of the resident and is personally responsible for the implementation of the training plan, carries out measures for personal and psychological support of the resident during the stages of education. The curator is appointed from among the teaching staff of the course, who have the academic degree of doctor, candidate of medical sciences, as well as the highest qualification category. Curators and mentors in the course of daily work give specific recommendations for further improving professional skills, mastering the standards of medical ethics and deontology, improving the general education and cultural level.

The share of practical training in the educational programme provides for 90%, with the direct participation of a clinical mentor.


Standard 2: Implemented

Recommendations for improvement identified during the external visit:

1) Use the capabilities of the simulation center in training residents on emergency conditions (2.3.2);
2) To provide residents with the choice of alternative disciplines in the specialty of the educational programme of the residency "Neonatology" (2.4.2).

Standard 3: ASSESSMENT OF STUDENTS

Evidence of compliance:

3.1 Methods of evaluation
When analyzing the documentation, the EEC experts established that the methods of evaluation of residents in the university for all specialties of the residency there is a unified policy of evaluation of residents, including in the specialty 7R01131 "Neonatology", the evaluation policy is reflected in the Regulation on Residence, Academic Policy of the University, the educational programme and syllabuses of disciplines. Also, the resident assessment policy is presented in electronic format on the Platonus and Keyps platforms and on the official website of the university.

The university has introduced an integrated assessment system that takes into account both formative assessment (FA) and summary assessment (SA), covering the theoretical knowledge and practical skills necessary for the future profession.

Current monitoring is performed by an academic or clinical mentor. Line supervision evaluates the results of training upon completion of disciplines.

The EEC experts confirmed that the criteria for passing exams or other types of assessment, including the procedure for retaking in residency, are reflected in the "Regulations on Residency". An underachieving resident re-acquires the discipline in the summer semester on a paid basis. There were no such cases during the training on this EP.

A student of the residency who has completed the training programme and completed the individual curriculum is allowed to the Final Assessment. The final assessment is carried out in accordance with the final results of training and includes two stages:

1) knowledge assessment (computer testing); 2) skills assessment.

If the results of the assessment of knowledge and skills under the programme are positive, the resident is issued with a residency certificate. Also, this data is the basis for issuing a specialist certificate. This provision is described in the educational programme in the specialty 7R01131 "Neonatology".

According to the Regulations on Independent Examination, teachers from other universities with an academic degree, as well as employers – the most experienced specialists from among the doctors of practical health care who have the highest qualification category and who were not clinical mentors in the process of training residents, are involved in summative assessment as members of the examination commission.

Appeal of the results of the assessment of residents is carried out in accordance with the Academic Policy and the Residence Regulations. If the resident disagrees with the assessment of the final assessment, the resident has the right to appeal the assessment, the rules of appeal are described in the Regulation on the conduct of the appeal.

In the specialty 7R01131 "Neonatology", the final certification was passed, a total of 7 residents are studying in the 1st year and 4 residents in the 2nd year.

To ensure the objectivity and transparency of the assessment process, the Department of Pediatrics and Medical Rehabilitation named after D.M.Tusupova developed checklists for conducting current, midterm and final control in the discipline (Mini-CEX, OSCE). Also, the department carries out the formation of a portfolio by each resident individually, in which all the achievements of the resident during the period of study in the residency are recorded. The portfolio serves as a basis for forming the characteristics of a resident and obtaining recommendations for further employment. Portfolio evaluation is carried out according to checklists developed by the department employees.

The compliance of control and measuring instruments with teaching methods and the specifics of the curriculum is monitored by a committee of educational programmes (CEP), which includes experienced methodologists and expert testologists.

Also, the experts of the Higher Educational Institution confirmed that there is a permanent Student Assessment Committee at the university, the main tasks of which are the examination of the examination material of the FA and SA, the analysis and approval of tests uploaded to the KEYPS
Residents pass testing on the KEYPS electronic platform, as well as the analysis and approval of the format and number of stations during the practical skills examination.

Residents pass testing on the KEYPS electronic platform, while at the stage of formative testing at least 20 test questions of MCQ, MSQ format are issued, at the stage of summary testing at least 30 questions of MCQ, MSQ format are issued. All tests before the start of testing undergo a review procedure, after evaluating the test results in the keys program, the tests are tested for validity and reliability. The procedure of this inspection was demonstrated by the registrar's office during the visit of the ECC members to this subdivision.

The results of students' academic achievements are recorded in the electronic educational journal through the office-recorder system and the AIS Platonus programme, which automatically generates examination sheets, which is confirmed by experts when viewing 3 electronic journals.

3.2 Relationship between evaluation and training

During the visit to the university, the EEC members confirmed that the methods of assessing residents are comparable with the methods of teaching and learning and cover the assessment of all the competencies of students both during practical classes and during examinations. Differentiated assessment methods are used to assess different learning outcomes, so theoretical knowledge is mainly assessed by testing, and practical skills are assessed using assessment sheets for each section of the practical work.

During the conversation with residents in the specialty 7R01131 «Neonatology" it was established that the achievement of the results of training stated in the EP is carried out due to a significant number of thematic patients in the maternity unit, in the "Mother and Child" department, in the neonatal intensive care unit and in the neonatal pathology department, as well as constant advice from a clinical mentor or teacher. Residents are provided with the necessary access to both the management of patients and participation in operations, manipulations, all types of medical documentation, participation in consultations and clinical debriefings with colleagues of related specialties, work in a multidisciplinary team.

The conclusions of the EEC meet the criteria of 11 standards: 11 in full.

Standard 3: Implemented

Recommendations for improvement identified during the external visit:

Standard 4: STUDENTS

Evidence of compliance:

4.1 Admission and Selection Policy

During the visit, EEC experts established that the Mission of the educational programme in the specialty "7R01131 - Neonatology" corresponds to the Mission of NJSC "MUS" and forms the final set of residents in the specialty 7R01131 "Neonatology".

When visiting the university, the experts of the EEC confirmed that the admission of resident neonatologists to the NJSC "MUS" is carried out in accordance with the "Standard Rules for Admission to Education in the Organization of Education Implementing Educational Programmes of Postgraduate Education", approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 with additions and amendments made on May 24, 2021 (No. 241) and the Regulations on the Admission of Students to Higher and Postgraduate Education in the NJSC "MUS" dated September 16, 2021. The Regulations on the Admission of Students to Higher and Postgraduate Education in the NJSC "MUS" (version 06 dated September 15, 21) are posted on the website of the university and are available to all interested parties. Section 8 of the Regulation regulates the procedure for admission of students to postgraduate educational programmes.
Ensuring a balance between the available capacity and opportunities for training and recruitment of residents is achieved by monitoring the availability of REP resources in preparation for the new academic year at NJSC "ICC". Every year in March-April, on the basis of a request from the Ministry of Health of the Republic of Kazakhstan, a request is formed for a certain number of places for each specialty of the residency in accordance with the applications of the state license, analysis of concluded contracts for clinical training, qualification of teaching staff, material and technical resources.

During the conversation of the experts of the EEC with the teachers, it was established that the "Open Days" are actually held in the NJSC "MUS" in different areas and levels of training. Thus, in February 2022, the Department of Pediatrics and Medical Rehabilitation named after D.M. Tusupova held an Open Day in pediatric specialties. All information about the events is actively published on the Semey medical university page in Instagram.

Since the beginning of February 2022, meetings with employers for graduates of residency have been organized in NJSC "MUS", which are held with the participation of representatives of city and district hospitals of East Kazakhstan and Pavlodar regions. During the meetings, the issues of personnel shortages, working conditions, measures of social support for young professionals, such as the payment of salaries in employment, are discussed.

The NJSC "MUS" has developed and implemented a standard operating procedure (SOP) "Algorithm for admission of applicants" (Order of the Ministry of Education and Science of the Republic of Kazakhstan 600 dated October 31, 2018) of all levels, which contains a procedure/methodology for the admission of students of all levels of training.

Also experts of EEC confirmed that reception of resident neonatologists is carried out on a paid basis on the results of entrance examinations by anonymous independent assessment on results of entrance examination. For admission to the residency, GPA in the internship and bachelor's degree, a summary assessment based on the results of two stages of the final state certification of the 7th year, as well as an entrance exam in a test format are taken into account.

The entrance examinations of resident venereal dermatologists are held in one stage. Examination questions for each specialty of the residency are posted on the website of university. Tickets are designed in 3 variants. The ticket with the set of questions is distributed randomly (randomly). The attendants randomize the tickets. When evaluating the applicant's response, the examiner uses a checklist for 5 or 10 steps. Additional points are 20 points for work experience in rural areas for a year or more (the supporting document is a work book) and the resident's portfolio (the Portfolio Regulation). Independent examiners are involved in the monitoring of examinations: a representative of the Anti-Corruption Agency of the Republic of Kazakhstan in Semey, the chairperson of the anti-corruption committee "ICC", representatives of the public.

There were no applicants for admission to the residency and transfer of residents from other national or international neonatology programmes.

The transparency of the procedure for the selection of resident neonatologists, as well as equal conditions for all applicants, is guaranteed by strict compliance by examiners with the Regulations on the independent examination dated April 22, 2019.

In order to ensure the transparency of the examination procedure, an annual live broadcast is held on Facebook, with the possibility of viewing the video again.

During the conversation with residents, the EEC experts confirmed that applicants who actively participated in scientific circles, conferences, mastered the internship programme, have good practical skills, clinical thinking and are constantly working to develop and improve their competencies (from interviews with residents, teachers, vice-rector for academic activities) have advantages when enrolling in residency in the specialty 7R01131 «Neonatology". The selection of potential residents for study in the specialty 7R01131 «Neonatology" is made from among graduates who have completed an internship, have a high level of understanding of biomedical sciences, achieved at the postgraduate
level.

4.2 Number of residents

Experts of the EEC confirmed that the NJSC "ICC" complies with the established by the Order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 606. and paragraph 8 of Article 52 of the Law of the Republic of Kazakhstan dated July 27, 2007 "On Education", the number of residents for each specialty per teacher is 1:3. The authorized body – the Ministry of Health of the Republic of Kazakhstan – makes adjustments to the figures of admission.

One of the mechanisms for reviewing the number of residents enrolled for training is the annual Employers' Congress held at NJSC "MUS", at which representatives of the university negotiate the placement of targeted grants for residency by organizations.

Enrollment of residents in the specialty "Neonatology" has begun since the 2019-2020 academic year. All enrolled residents were citizens of the Republic of Kazakhstan. There were no foreign nationals. In total, 11 residents were accepted, including 7 residents studying in the first year, 4 residents – in the second year. In the 2021-2022 academic year, 4 residents are expected to graduate.

During the conversation of the experts of the EEC with the representatives of the AMP, it was confirmed that the data on the demand in the personnel of neonatologists are provided to the university by the Department of Health of the region and the Department of Science and Human Resources of the Ministry of Health of the Republic of Kazakhstan, published on the website of the university. The Dean's Office of the SPE together with the educational department responsible for the specialty 7R01131 "Neonatology" conducts an analysis of the availability of the educational programme with teaching staff, including curators and mentors, clinical bases. At the end of the collection of applications, the data are processed and presented at a meeting of the CEP and the Academic Committee, at which the admission policy for the current year is approved. Applicants can consult on available vacancies in SPE and the Republic from the employment specialist of the SPE: the applicant can take the contact details of the medical institution, which requires doctors in the chosen specialty of the residency.

On the SMU website there is a module "To Employers", which contains information on the expected release of residents of the current year.

Also, the experts confirmed that the university annually creates and works a commission on the distribution of graduates, which includes representatives of the Ministry of Health of Kazakhstan, the DHC of East Kazakhstan region, the Council of Employers, the university. The Dean's Office of the School of Postgraduate Education, departments analyze the employment of graduates and the need for medical personnel.

Starting from 2019, data on students on the basis of a state educational order for monitoring the employment of university graduates and mandatory 3-year training of young specialists are entered into the "ICC" programme "Accounting of Young Specialists" of JSC "Financial Center". The university also annually submits a report on the results of the distribution of young specialists with personalized lists (protocols) to the observatory (working body) for monitoring and analysis.

The policy of recruitment and admission of residents from small groups of peoples, from among practitioners (doctors) from rural areas and special groups of the population (for example, persons with disabilities) complies with the norms and requirements adopted in the Republic of Kazakhstan.

4.3 Resident support and advice

In the course of the conversation of the EEC experts with resident neonatologists, it was established that the "ICC" created and provided safe conditions for the training of residents. To protect the interests of residents, assist them in educational, scientific, and non-curricular activities, the ICC provides various services for the organization of counselling, psychological, social, and medical support for students. During the conversation with residents, it was revealed that the university provides financial support to residents in need of material assistance. Residents in the
regions of Ust-Kamenogorsk, Pavlodar, if necessary, are provided with a hostel.

The system of academic counseling of residents in NJSC "MUS" is represented by the School of Postgraduate Education, resident curators, the head of legal and passport and visa work, a psychologist. Residents have the opportunity to receive legal advice from the head of the legal support department. The resident can get psychological support from a regular teacher-psychologist.

All necessary consultations at certain stages of training of resident neonatologists are organized by the teachers of the department, including those based on the results of monitoring the academic progress of residents, including unforeseen incidents. In this process, curators and mentors are especially actively involved.

The University finances the participation of students at all levels in scientific and practical conferences, congresses, symposia (confirmed from a conversation with the vice-rector for research, teachers, residents).

Students also have the opportunity to report problems or corruption anonymously by contacting the director of a medical school or vice-rectors' blog. On the website of the university there are blogs of the rector, vice-rectors.

To form the clinical thinking of residents, clinical reviews of patients are carried out. Since the last academic year, in order to improve the effectiveness of training, clinical reviews of complex therapeutic and diagnostic cases have been carried out once a month in extracurricular hours, including using the zoom platform.

In the NJSC "MUS", the teaching staff of the profile department use a variety of ways to disseminate information: the university's website, chat rooms on the WhatsApp network, participation in briefings held by management, open days, job fairs at the university, round tables with heads of medical institutions and organizations, exhibitions of achievements. All information received is brought to the attention of residents.

Residents of neonatologists are involved in the work of student self-government, where emerging problems are also solved.

4.4 Representation of residents

EEC experts confirmed that residents participate in meetings of collegial bodies of SMU, where they are official members and express their opinions and suggestions for improvement (during the interview it was found out that the resident neonatologist of the second year of study is part of the CEP for higher postgraduate education). A feedback analysis is carried out in the form of a survey of graduates of the residency and employers, on the basis of which the process of policy development and selection of residents in the specialties of the residency is improved.

The participation of residency students in the development of the residency programme is also carried out through the choice of elective disciplines. Residents have the right to make a proposal, to include in the catalogue of new elective disciplines, in their opinion, necessary for study and contributing to the improvement of the educational programme as a whole. Proposals submitted orally or in writing from residents are necessarily taken into account and taken into account.

During the visit of the experts of the EEC department, it was confirmed that the Department of Pediatrics and Medical Rehabilitation named after D.M.Tusupova collects feedback from residents at the stage of mastering the taught discipline (at the end of studying the discipline), as well as on issues related to training / work conditions, problem situations.

The EEC experts also confirmed that the issues of participation of students of all levels in the quality of the educational process are regulated by the Academic Policy. The participation of residents in the discussion of key issues of the quality of the educational process is regulated by their inclusion in the Academic Council, Academic Committee, CEPs in accordance with the provisions on all these collegial bodies. The Academic Committee and the CEP of Residence specialties for 2021-2022 academic year include 3 residents in clinical specialties (however, there are no residents in neonatology).
4.5 Working conditions

EEC experts confirmed that when combining work, residents of the 1st year of study at the department receive 15 thousand rubles at 0.25 rates. It was also confirmed that students of the residency have the opportunity to work in their free time for 0.25 (in the second year of study – 0.5) of the rate as a doctor in healthcare organizations, laboratory assistant, trainee teacher of the department. Residents with the corresponding specialist certificate have an opportunity to work part-time. Currently, 2 residents of the 2nd year of study work in the Perinatal Center of Semey for 0.5 hours as a neonatologist.

During the visit to the clinical base, the experts of the EEC established that resident neonatologist have unlimited access to newborns, all types of medical equipment and to all neonatal departments of the Semey Perinatal Center. The department has an office for mastering theoretical knowledge by residents, there is a separate room for changing clothes, for eating, etc.

During the training of resident neonatologists, the YouTube information platform is actively used, where there is a university channel where video lectures are posted for independent study by residents, including in case of forced breaks in training, in case of pregnancy (including pregnancy and childbirth/paternity leave), illness.

Experts of EEC made sure that an individual plan is drawn up for residents (according to the order) transferred from other Universities, reinstated, remaining for the second year of study, returned from academic leave, on the basis of the WEPI approved for the relevant academic year, taking into account the difference in the curriculum or academic debt.

In order to maintain the optimal balance of time spent by the resident on training and medical care, in the "ICC" in accordance with the SCES of the resident's residence, the training day is 9 hours, 3 hours of which are allocated for classroom classes, 3 hours for IWRT, 3 hours for IWR.

In connection with the Regulations on Residency, it is regulated to plan the study load of the resident based on this time; night and day duty, as well as other types of work are included in the specified study load. The duty of residents on a clinical basis is one of the types of independent work and is aimed at mastering the tasks of training. Shift planning is reflected in the discipline syllabus.

EEC experts also confirmed that the residency provides a system for recounting academic hours in disciplines completed by students before enrolling in the residency. In addition, the resident is exempt from duty at the clinical base, provided that he/she has experience in departments of this type. In case of pregnancy, the resident is released from duty at the clinical base at night. Tuition on an individual schedule in the residency is allowed only if there are appropriate medical recommendations. Provided that the resident provides the relevant certificate by the decision of the SPE, he is provided with the opportunity to study according to an individual schedule.


Standard 4: Implemented

Recommendations for improvement identified during the external visit: none

Standard 5: FACULTY

Evidence of compliance:

5.1 Recruitment and Selection Policy

The experts of the EEC studied the University Development Programme, which was approved at the meeting of the Board of Directors (02.12.2020, Minutes No. 8). According to the development programme of the university, the personnel policy of the university is being implemented.

The regulation on the personnel policy of the university was approved on March 10, 2018. Additions and changes to the Regulations were made on September 30, 2019.

During the conversation of the experts of the EEC with the representatives of the management
personnel, it was established that the university developed and approved the standards for the selection of teaching staff on a competitive basis "On approval of the Rules for competitive replacement of the positions of faculty and researchers of higher educational institutions", the order of the Minister of Education and Science of the Republic of Kazakhstan dated April 23, 2015 No.230 and the order of the rector of the university No.394 dated August 2, 2018.

According to the competitive substitution of the positions of the teaching staff (teaching staff), the composition of the competitive commission for the substitution and re-election of vacant positions of teaching staff has been approved. All information about the upcoming competition for vacancies is posted on the website of the university and in the city newspaper. The meeting of the competition commission is held annually at the beginning of the academic year and is broadcast online on the university's page. The university takes into account the balance between teaching, scientific research of clinical departments. The developed job descriptions and regulations establish the responsibilities and duties of teachers and clinical mentors. When forming the staff of departments, the ratio of teachers and residents is taken into account, which is sufficient for effective teaching and learning.

Much attention is paid to the availability of candidates with the appropriate education, clinical experience, qualification category in the relevant specialty and discipline profile. The staff of the Department of Pediatrics and Medical Rehabilitation named after D.M. Tusupova includes 2 candidates of medical sciences, 1 PhD, 2 teachers without a degree. The personnel policy of the university ensures that residency teachers are practicing specialists in pediatrics and neonatology.

For the motivational purpose, a competition for the title of the best clinical mentor is held every year, participants are given letters of thanks. In 2020, 3 clinical mentors in neonatology received letters of thanks from the Rector of the University.

5.2 Teachers' obligations and development

When visiting the department's experts and during the conversation with teachers, it was confirmed that the duties between the department's employees are reflected in the department's annual work plan. At the beginning of the academic year, the head of the department, at the first meeting of the department, distributes duties to the staff of the department. In the individual work plan (IWP), the teachers of the department plan their activities for the entire academic year. IWP is considered at the meeting of the department and approved by the Dean of the School of Postgraduate Education.

When compiling the workload and schedule of teachers, a uniform workload of teachers is ensured for all types of activities, the department strives to ensure a balance between teaching and other types of work to enable teachers and clinical mentors to effectively engage in research, teaching and educational work. The workload for all types of activities is evenly distributed among teachers, observing the principle of the trinity of education, science and practice. From 2020-2021 academic year, the volume of teaching load in the residency is 650 hours, for head teachers - 600 hours, for the head of the department – 500 hours.

The EEC experts also confirmed that all university employees are actively involved in the implementation of new educational technologies of teaching and evaluation introduced at the university: the Turkish Catalog, Caselog, milestones, MCQ in accordance with ACGME criteria. Employees of the department hold monthly seminars, conferences for doctors of the clinical base of the perinatal center of Semey and doctors of neonatologists of East Kazakhstan region. Teachers of the department contribute to the development and improvement of programmes, the definition of educational goals and results. The staff of the department developed an educational programme of the residency in the specialty 7R01131 "Neonatology" syllabuses in all disciplines of the programme, as well as control and measuring tools, including scorecards of the mini-clinical exam and practical skills.

Periodic assessment of teachers is carried out in accordance with the Regulations on the certification of university employees (May 27, 2019).
Evaluation and recognition of worthy academic activities of teachers, supervisors and mentors is carried out through awarding in accordance with the Regulations on awards adopted at the university, awarding employees (for holidays and anniversaries), KPIs and research work (R&D rating), participation in the contests "The best teacher", "The best curator". The University has developed and approved the "Regulations on holding the contest "Best Teacher" of the University dated 30.09.2019.

According to clause 3 – Criteria and form for selection of a mentor of the Regulation on a clinical mentor dated 14.10.2020, a mentor is appointed from among qualified practitioners of health care, with at least 5 years of experience in the relevant specialty. It is preferable to have a certificate confirming the completion of the cycle of the School of Clinical Mentors.

During the conversation with the clinical mentors of the experts of the EEC, it was confirmed that the mentors are trained at the school of the clinical mentor in accordance with the established procedure on the basis of an appeal from the head of the department and the applicant for mentors. The Mentoring School programme has topics on communication skills, but there are no hours on pedagogical competencies.

According to the "Regulations on the professional development and retraining of medical and pharmaceutical personnel", teachers of the department undergo professional development once every 5 years.

EEC experts confirmed that the motivational tool for teachers and employees is the annual rating of incentives and motivation of employees, which is revised taking into account new requirements and opportunities, is in constant dynamics. The presented KPI system assumes the possibility of receiving up to 800-900 thousand tenge or more per year by one employee.

To improve language competencies there is an opportunity to learn English. Professional development is carried out through training at seminars or master classes with the involvement of foreign specialists, as well as with the participation in republican and international conferences, symposia, etc.

In order to constantly improve the new model of teaching specialized disciplines, teachers are constantly trained in pedagogical technologies used in the world educational environment. For example, teachers of the department together with residents underwent online training in the basics of statistics in 2021 (St. Petersburg, Institute of Biostatistics). Experts got acquainted with certificates.

To stimulate and support talented young specialists, a system has been developed for forming a talent pool of managerial staff - the "Hope" talent pool. The developed Regulation on the personnel reserve "Hope" dated May 24, 2021 contains the regulations for the selection of candidates, requirements for the development of competencies, the regulations for training the composition of the reserve.

Thus, according to the recommendations of the EEC based on the results of accreditation of the educational programme "Neonatology" in 2019, it is necessary to prepare a personnel reserve of teaching staff for the training of residents of neonatologists from their own reserves, young specialists, graduates. To this end, M.K. Aralbayeva, who completed her PhD, was hired to the department. To train residents in elective disciplines, doctoral students of 2 years of study Tayorazova G.B., Ailbaeva N.M. are invited.

Experts of EEC confirmed that teachers of the department together with residents take part in international peer-reviewed journals, participate in international conferences and publish the results of ongoing research. In 2019-2020 academic year - 4 publications, including 3 abstracts, 1 article. In 2020-2021 academic year: 11 abstracts, 4 oral reports, 4 poster reports, certificates are available.

Calculation of the mentor's workload is 3.5 hours per resident per day. One mentor is relied on by 4 residents, which is stipulated in the "Regulation on the resident clinical mentor" dated May 19, 2022. Compliance with this parameter guarantees individual effective interaction of the mentor and
the resident neonatologists, as well as the possibility of high-quality monitoring of academic and professional achievements of residents.

**Conclusions of the EEC on the criteria.** Compliant with 7 standards: fully – 6, partially – 1.

**Standard 5: Implemented**

**Recommendations for improvement identified during the external visit:**

1) Include topics on the development of pedagogical competencies for clinical mentors in the curriculum of the school of mentoring.

**Standard 6: EDUCATIONAL RESOURCES**

**Evidence of compliance:**

**6.1 Logistics and equipment**

The Department of Pediatrics and Medical Rehabilitation named after D.M. Tusupova has a sufficient material and technical base for the training of residents in the specialty 7R01131 "Neonatology", which is represented by:

1) "Perinatal Center" PSE on the REM, Semey, having 2 buildings. The clinical base is accredited (November 19, 2014 for a period of 4 years according to the requirements of the RK standard ISO 9001-2009 "Sapa management zhuyeleri. Talaptar" June 25, 2015) Currently, a re-accreditation is planned in September 2022. The bed fund of the perinatal center is 200.

2) "Regional Perinatal Center" PSE on the REM, Pavlodar. The auditorium fund is 120 sq.m.

Residents are provided with conditions and opportunities for practical training, management of patients at different levels of medical care: outpatient unit, day and night hospital, operating unit, equipped with modern diagnostic and therapeutic equipment.

Library of NJSC "MUS" with a total area of 1362m². In the library reading room there are 177 seats, 54 computers, a Wi-Fi zone, places to work on your laptop or tablet. For individual and group work, there are 6 separate rooms equipped with multimedia equipment (Regulation on the discussion rooms of NJSC "MUS").

The library's book collection is annually updated and as of 01.07.2021 it amounted to 1144 literary sources related to the accredited specialty "Neonatology".

For residents studying in Pavlodar, there is a library of the Pavlodar branch of the University, with a total area of 70.4 square meters and 12 seats (Appendix to the self-report).

Purchase of necessary literature is carried out taking into account applications and within the framework of a centralized survey of both residents and teachers, doctoral students and master's students

**6.2 Clinical Bases**

Residents have access to all diagnostic rooms and laboratories, with a sufficient number of patients of various severity categories, to provide qualified care and develop practical skills using the possibilities of outpatient, inpatient care and night duty.

Practical skills are mastered under the guidance of a clinical mentor, using checklists for their assessment

**6.3 Information technology**

The training of resident neonatologists takes place in person, the elements of the distance learning method are used in webinars, some lectures and in participation in conferences.

Unlimited access to the Internet is provided on the territory of the university, its clinical bases and directly in the study rooms of the department, for free use of the necessary web resources and electronic media.

The library offers free access to the following databases: Cochrane.org, the database "Legendary Books" of the publishing house "Urait", Elsevier "ScienceDirect", "Scopus"; CyberLeninka, the
When training, working on clinical bases, residents have access to the information systems of medical organizations: KMIS, Medelement (through the password of the head of the department or the clinical mentor), filling in medical documentation, appointment sheets, etc., under the control of their clinical mentor.

The teaching staff of the department contact neonatologists of the first and second years of study through the created working chats in WhatsApp, to solve both work and personal (social) issues.

6.4 Clinical Teams

Preparation of residents for teamwork skills and effective interaction with other health care specialists includes direct work of residents together with employees of various clinical units: work in outpatient and polyclinic and reception departments, supervision of patients at the level of a day hospital, a round-the-clock hospital, participation in advisory examinations of patients of other medical institutions (under the guidance of a clinical mentor), in workshops and scientific and practical conferences. Working in multidisciplinary teams provides residents with sufficient experience in the team, including with specialists from other healthcare areas.

Skills of coordinated work with colleagues develop during examination, treatment of newborns with various pathologies. The resident is present during the consultations, fulfills the orders of senior colleagues within his competence. The result of the resident's activity is controlled by the mentor and documented in the resident's portfolio (electronic portfolio at the implementation stage). The interaction of the resident neonatologists with other team members is estimated to be "360 degrees".

Within the framework of the academic mobility programme, on 05.11.2020-11.11.2020, resident neonatologists and assistants of the department took an online course of lectures on neonatology of the department of children's diseases with a course of hospital pediatrics of the Federal State Budgetary Educational Institution of Higher Education of the Ryazan State Medical University and received participant certificates. In the period from 10.12.2020 to 10.02.2021, she participated in the training of a resident neonatologist of the 2nd year of study; in the period from 01.04.21 to 30.05.21, S.T. Dautbekov, a resident neonatologist of the 1st year of study from the Ridder City Hospital, took part; in the period from 22.11.21 to 10.12.21, she studied Imasheva Nazgul, a resident of the Ust-Kamenogorsk branch of the University.

In the period from 05.11.2020 to 11.11.2020, within the framework of the academic mobility programme, neonatologist residents took an online course of lectures on neonatology, which was conducted by employees of the Department of Children's Diseases with a course of hospital pediatrics of the Ryazan State Medical University.

6.5 Medical Research and Advances

As a result of the study of the submitted documentation, it was established that university residents necessarily study the disciplines "Management of scientific research" (4 credits) and "Biostatistics" (4 credits) in the 1st and 2nd years of residency, included in the Catalog of elective disciplines. Thus, all resident neonatologists are involved in the research work of the department, represented mainly by work on the follow-up room, on the problems of coronavirus infection. According to the schedule, once a week from 16.00 to 18.00 hours in the above disciplines, residents analyze their data using various methods of statistical processing under the guidance of a teacher. Resident neonatologists can independently carry out some stages of clinical research: questionnaires of patients, conducting some diagnostic manipulations, etc.

A distance training seminar was held for residents on the current problems of neonatology:

1. Artificial lung ventilation and intensive care for newborns. 02.02-25.03.2021, Chelyabinsk, Russia. Certificates are available.

2. Minimally invasive administration of a surfactant - LiSA technique. 06-15.04.2021 Certificates are available.
3. Participation in the work of the online teleconference “Eurasian teleconference “Covid-19” - about the important” (7 credit hours) 21.01.2021 Kiev, Ukraine. Certificates are available.

The study of clinical cases of patients, medical records, literature data, work in the library enable resident neonatologists to analyze, describe and publish their data in national and international scientific journals. The result of 2 years of study in the residency in the specialty "Neonatology" is the publication of scientific work, which is necessarily taken into account when entering the next stage of postgraduate education - in doctoral studies.

6.6 Education expertise

The examination of the quality of the educational programme is systematic and carried out in stages. The educational programme of the residency in the specialty "Neonatology" is based on the SCES 2020 and approaches to the training of the university partner of the University "Bashkent" (Turkey) in the specialty "Neonatology". The person responsible for residency draws up an educational programme, which, after discussion at the departmental meeting, is transferred to the Academic Committee for evaluation and examination. After agreement with the Deputy Chairperson of the Board of NJSC "MUS" for academic work, the programme is entered in the Register of EP of the Ministry of Education and Science of the Republic of Kazakhstan, where after an independent external examination, the programme is applied in the educational process.

The Strategy for ensuring the quality of the educational process has been developed and implemented, which defines the algorithm for monitoring the educational programme (EP): systematic discussion of the EP at meetings of collegial bodies (AC), updating the EP in connection with the needs of the labor market and taking into account the wishes of stakeholders, systematic receipt and analysis of feedback on the quality of the educational process from all stakeholders, planning of improvement measures.

Monitoring of the implementation of the EP of the residency programmes is carried out on the basis of the principle of collective solidarity of all interested parties: the specialized department, SPE, the Academic Committee, residents, representatives of practical health care, potential employers and the Ministry of Health of the Republic of Kazakhstan.

Feedback from residents is carried out through the SPE, DQCME to determine the degree of satisfaction with the content of the educational programme and the organization of the educational process, which are carried out in the form of questionnaires, focus groups, constant monitoring of appeals to the blog of the dean's office, Deputy Chairperson of the Board for Academic Work, Deputy Chairperson of the Board for Scientific and Clinical Work, Chairperson of the Board. In addition, the school of postgraduate education collects feedback from graduates of residency and their employers.

The Academic Committee annually organizes events to improve the educational programmes of the residency: forms working groups, on expert evaluation, working curricula, methods of training and evaluation in the residency, development and monitoring of the resident portfolio, examination of the catalog of elective disciplines, planning of measures to improve the content and the process of implementing the educational programme. Profiling departments update the content of curricula in accordance with the development of medical science and education. This process should be documented in the case of the introduction of innovative teaching methods in the educational process, for subsequent monitoring during implementation at specialized departments.

The faculty will study the results of the implementation of the updated educational programme on the basis of an analysis of the success of its graduates according to an independent examination and feedback from employers.

6.7 Training in other institutions

The mechanism for the implementation of the academic mobility programme for teaching staff and residents was developed and approved in the "Regulation on academic mobility of students, teachers and employees" (March 18, 2019), including the Regulation "On the organization of academic mobility within the framework of the Kazakhstan credit recounting system", to facilitate the
procedure for academic recognition of diplomas and qualifications, ensuring transparency of educational programmes and curricula.

The search for a partner university, the development of an academic mobility programme, organizational issues of training and accommodation is carried out by an academic mobility specialist together with the supervising department and the SPE.

The coordinator for academic mobility organizes the work of the commission for conducting a competition among students and faculty. As a result of winning such a competition, in 2021, she implemented academic mobility in Universidad Católica de Valencia "San Visente Martín" (Valencia, Spain) under the Erasmus+ Chair programme, teacher Alibekova B.A. is responsible for the "Neonatology" residency.

Among residents, the programme of academic (internal and external) mobility in a distance format on various topics is gaining activity: neonatologists were trained in a distance format with the Ryazan State Medical University named after academician I.P. Pavlov on the topic "Epidemiological methods of research", "Emergency medicine" (order No.12-C of 13.01.2022, order No. 519-C of 14.12.2021, order No. 505-C of 26.11.2021).

Conclusions of the EEC on the criteria. Compliant with 21 standards: fully -20, partially - 1.

Standard 6: Implemented Recommendations for improvement identified during the external visit:

1) Document all stages of introducing innovative teaching methods into the educational process (6.6.2).

Standard 7: PROGRAMME EVALUATION

Evidence of compliance:

7.1 Monitoring and evaluation mechanisms

Having analyzed the educational programme in the specialty 7R01131 "Neonatology", the experts of the EEC established that the monitoring and evaluation of the implementation of the educational programme of the residency is carried out on the basis of the collective solidarity of all stakeholders and employees of the university. At the stage of planning the educational process in the specialty of residency, the responsibility for checking the working curricula for compliance with the requirements of state educational standards, drawing up a schedule is assigned to the departments. Responsibility for the selection of the composition of teachers meeting the qualification requirements, the profile of the specialty is assigned to the Human Resources Management Department.

Verification of the quality of the EMCD and monitoring of the educational and methodological documentation of the departments of residency is carried out by the committee of educational programmes of postgraduate education (CEP PGE). The training and clinical center is a structural unit responsible for the provision and maintenance of simulators necessary to develop the practical skills of residents and at the stage of final certification.

Provision of the residency's educational programme with the necessary clinical bases is carried out by the research center, whose functions include monitoring and selection of clinics existing in the cities of Semey, Ust-Kamenogorsk for subsequent conclusion of contracts.

The Registrar's office registers and stores examination records, which are documentary evidence of the recognition of academic achievements of residents.

The peculiarity of the analysis of the formation of the competence of residents of NJSC "MUS" is a comprehensive assessment of the resident by the teacher through formal, summary control over the discipline, by the mentor - through portfolio management, control over the mastery of practical skills and research competencies, by the PGE school through the analysis of reports provided by
residents, by practical health care (potential employer) through participation in an independent examination of residents.

The applied system of assessment of knowledge, skills, abilities and competencies in the specialty of residency "7R01131- Neonatology" corresponds to the State Standard of the RoK.

7.2 Feedback from teachers and residents

In order to ensure the transparency of the process and evaluation results for management and stakeholders, the process of collecting feedback from students is automated and carried out in keyps, in order to avoid correction or distortion of feedback data. In addition, the results of the feedback are published on the university's website in the "Feedback" section in order for all interested parties to have an opportunity to read it. The School of Postgraduate Education collects feedback from residents to determine the level of satisfaction of residents with the content of the educational programme, the organization of the educational process in the form of questionnaires, focus groups, monitoring of appeals to the school's blog. Schools have a feedback box where residents can incognito leave their suggestions, wishes and complaints. An important role in the evaluation of the educational programme is played by monitoring the achievement by residents of the final learning goals. Therefore, the school collects feedback from residency graduates and their employers.

The basic departments collect feedback from residents, representatives of practical health care, teachers of related disciplines on the assessment and optimization of the content of the educational programme in the form of reviews, focus groups, questionnaires, etc.

The results of the study of feedback from stakeholders are voiced at the meetings of the departments, the Academic Council and the CEP of the PGE.

Feedback analysis is provided for discussion at meetings of departments, the Committee of educational programmes and the Academic Council, which include teachers, residents and members of the Employers' Council. During these meetings, plans are being developed to further improve the quality of graduate training. In 2020 and in 2021, feedback was received from employers on the educational programme "Neonatology".

The university has identified and used feedback mechanisms, as well as tools for training a medical specialist through continuous communication with medical practice and the health care system. As such tools, feedback from employers on the level of training of graduates, carried out in the form of a questionnaire, is used. The developed questionnaire allows to determine the level of satisfaction of the employer with the competencies of the graduate, professional, special and extra functional (mobility, sociability, teamwork skills, leadership skills, analytical abilities, etc.), to identify areas for improvement in the training of specialists. In this case, the educational trajectory of the graduate is taken into account. So, if the resident works as a teacher at the department, the employer is sent a questionnaire with questions that allow to assess the competencies of the teacher and researcher. In the case of a resident's employment in practical health care, the assessment of the clinician's and manager's competencies becomes a priority.

7.3 Results of Residents and Graduates

An important role in the evaluation of the educational programme is played by the results of the final certification of residents carried out at the testing stage by the National Center for Independent Examination, as well as the results of certification examinations conducted by the Committee for Control of Medical and Pharmaceutical Activities of the Ministry of Health and Social Development of the Republic of Kazakhstan. The final state certification of residents in the 2020-2021 academic year was carried out in accordance with the standard of the State Standard of the Residence and was carried out in the following stages: determination of the level of theoretical training in the disciplines in the form of testing; certification of practical skills with a standardized patient. The results of these examinations are discussed annually at the meeting of the Academic Council. The results of the examinations are discussed annually at the meeting of the Academic Council.

In the 2020-2021 academic year, 10 residents passed the final certification in the specialty
"7R01131 - Neonatology", the final assessment of residents was 86.5%. Employers took part in the interim certification of residents: Chief Physician of the "Perinatal Center" PSE on the REM, Semey, Head of the Neonatal Service G.K. Dyusekenova, Head of the Department of Neonatal Resuscitation and Intensive Care Zhumadilov.

7.4 Stakeholder Engagement

EEC experts confirmed that the university provides the following mechanisms for involving stakeholders in the process of monitoring and evaluating the educational programme:

1) surveying residents for satisfaction with the results of training in the discipline;
2) questioning residents for satisfaction with the quality of the organization of the educational process;
3) questionnaire of independent experts to assess the training of residents, review of training programmes by representatives of practical health care;
4) surveying employers for satisfaction with the training of graduates of the residency of NJSC "MUS";
5) organization of focus groups with the participation of residents to optimize the process and content of training;
6) organization of focus groups with representatives of practical health care on the content of training and methods of assessment of residents;
7) discussion of the results of monitoring the performance of residents and feedback from interested parties at meetings of the CEP of the PGE, the Academic Council of the SPDO, the EMC, the Academic Council of the NJSC "SMU".

At NJSC SMU, due representation of stakeholders in the assessment of the processes and final results of resident training programmes is observed. For example, the CEP of postgraduate and additional education includes heads of department, professors, associate professors, teachers of departments that provide the educational process in the relevant specialty, leading specialists in practical health care, employers, and representatives of the student population. The composition of the EMC, the CEP is approved by the Rector of the University.

Representatives of practical health care, employers are obligatory members of the examination commission of the state certification of graduates. Representatives of practical health care, who have extensive experience, are part-time employees in the departments, which also makes it possible for other stakeholders to participate in the implementation of the educational programme 7R01131 "Neonatology".

Stakeholders' access to the results of the evaluation of educational programmes is ensured by publishing relevant analytical references and feedback analysis on the website of NJSC "SMU". In addition, the discussion of the feedback results is carried out at the meetings of the Academic Council of the SPGE, the CEP of the PGE, which includes representatives of all interested parties, as well as at the meetings of the department.

7.5 Procedure for Approval of Educational Programmes

EEC confirmed that the educational programme 7R01131 "Neonatology" was approved at the meeting of the chair and the meeting of the subcommittee of the residency of the Academic Committee through the voting procedure. After all the necessary conditions are met, it is entered in the register of educational programmes. The School of Postgraduate Education collects feedback from residents to determine the level of satisfaction of residents with the content of the educational programme, the organization of the educational process in the form of questionnaires, focus groups, monitoring of appeals to the school's blog. Schools have a feedback box where residents can incognito leave their suggestions, wishes and complaints. An important role in the evaluation of the educational programme is played by monitoring the achievement by residents of the final learning goals. Therefore, the school collects feedback from residency graduates and their employers.
The EEC criteria of 15 standards: 15 in full.

Recommendations for improvement identified during the external visit: none

Standard 8: GOVERNANCE AND ADMINISTRATION

Evidence of compliance:

8.1 Management

The guarantee of the implementation of the 7R01131 "Neonatology" educational programme is its strict compliance with the requirements of regulatory rules regarding the admission of residents (selection criteria and number), the learning process, assessment of knowledge and skills, established learning outcomes, programme management, which are regulated in the Republic of Kazakhstan by regulatory legal acts of the Ministry of Health of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan. Internal documents of the university are developed on the basis of republican normative acts.

Thus, the Regulation on the admission of students to higher and postgraduate education in the Non-Profit Joint Stock Company "Medical University Semey" was developed in accordance with the "Standard Rules for Admission to Education Organizations Implementing Educational Programmes of Higher Education", approved by Order of the Minister of Education and Science of the Republic of Kazakhstan No. 600 dated October 31, 2018.

The process of training, assessment of knowledge and skills is regulated by the Regulations on residency.

8.2 Academic Leadership

Control and monitoring of planning, organization of coordination, provision of the educational process, introduction of innovations in the educational programme, educational and methodological activities of the department is carried out by the Department of Academic Work (DAW), which works under the direct supervision of the Deputy Chairperson of the Board for Academic Work.

The work on the organization and monitoring of the postgraduate level of study at the university is carried out by the School of Postgraduate Education (SPE), which coordinates the organization of the educational process: the schedule, the appointment of a curator, the choice of a clinical base, the formation of an individual work curriculum, enrollment in elective disciplines, sending to a conference, participation in competitions, solving issues of academic mobility of employment.

A great deal of organizational and methodological work is carried out by the Committee of Educational Programmes of Postgraduate Education (PGE), where the compliance of teaching methods with control methods and final learning outcomes formed in Syllabuses is checked and approved. Methods of final control: OSCE and OSPE.

The regulatory role of the collegial bodies of NJSC "ICC" - the Academic Committee, the Academic Council is also important and relevant. Thus, the results of the final certification of graduates are regularly discussed at the Academic Council of NJSC "MUS". The chairpersons of the State Attestation Commissions conduct a report with an analysis of the average score, make recommendations for improving both the educational process as a whole and the final attestation procedure itself. The main educational, educational-methodical, scientific-clinical load on the undergraduate training of students – residents is implemented by specialized departments

8.3 Training budget and resource allocation

The main sources of formation of financial resources of the educational process at the university are: funds of the republican budget; funds under contracts of study on a reimbursable basis; funds from the provision of educational and other paid services.
The solution of key issues of the distribution of financial resources of the university (the university budget) is carried out in three stages: at the first stage at a meeting of the Economic Council, at the second – the Academic Council, at the third the Board of Directors, which ensures collegiality, involvement of all categories of university employees, as well as the exclusion of conflicts of interest.

Information on the results of the financial and economic activities of the university and the implementation of the cost estimates are heard annually at the Academic Council of the university, which is broadcast online on the university's Facebook page.

The educational programme of the Residence 7R01131 "Neonatology" is financed from the republican budget. In addition, there is a possibility of training at the expense of own funds, targeted training at the expense of medical organizations, and a grant from regional akims. Funds allocated for the training of residents are spent on the purchase of necessary equipment on a competitive basis, library resources, payment for information resources and other items of expenditure established by regulatory legal acts.

The Department of Economics and Finance clearly regulates all financial revenues for the introduction and implementation of the training programme in the specialty 7R01131 "Neonatology". Educational resources are allocated according to needs.

Experts have established that the budget management of the educational programme 7R01131 "Neonatology" is carried out on the principles of transparency, accountability, objectivity and legality. The University fulfills all obligations to pay employees and scholarships of residents, to create the necessary conditions at the bases, to purchase the necessary equipment, consumables, and other resources.

8.4 Administration and Management

The academic leader of effective management and allocation of resources for the educational programmes implemented at the university is the Deputy Chairperson of the Board for Academic Work.

At the level of specialized and general education departments – heads of departments, the activities of which are regulated by the Job Descriptions.

The overall management of the university is carried out through collegiate bodies, which include representatives of the SSG, employers, and other stakeholders, which ensures their participation in all areas of the university's activities. The collegial bodies are: Academic Council; Educational and Methodological Council; Dissertation Council; Clinical Council; Economic Council; Committees of Educational Programmes; Academic Councils of Faculties; Public Council on Anti-Corruption; Trade Union Committee of TS, Employees and Students; Student Self-Government.

The powers, responsibilities and relationships between these bodies of the university, administration, teachers and employees are described and defined by the relevant regulations.

The University has developed and successfully implemented, and repeatedly certified the quality management system by the authorized certification bodies of the Republic of Kazakhstan. Currently, the quality management system is certified according to ST RK ISO 9001-2016. A strategic planning and quality management system department has been established. The Quality Manual, documented procedures, internal instructions, regulations, SOPs have been developed. The Academic Council annually approves the University Quality Policy and the University Quality Objectives developed with the participation of stakeholders, on the basis of which each department sets its annual goals. The Quality Policy and Objectives are available for review on the website of the university in the section "Quality Management System".

8.5 Requirements and regulations

The activities of the EP management in the specialty 7R01131 "Neonatology” are based on the strict fulfillment of the requirements established by the regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan and the Ministry of Health of the Republic of Kazakhstan in the field of the educational process.
The recommendations of the national authorized bodies on determining the number and types of recognized medical specialties of the residency for which approved educational programmes are being developed are being followed.

The university's governance system involves all stakeholders, including the health sector, and reflects the responsibility of academic leadership. Representatives of practical health care, employers are obligatory members of the examination commission of the state certification of graduates. Doctors with extensive work experience are part-time employees in the departments of senior courses, which also makes it possible for other stakeholders to participate in the implementation of the university curriculum. Chief physicians of clinical bases are officially included in the Scientific Council, Academic Committee, CEP.

The process of high-quality implementation of the educational programme 7R01131 "Neonatology" is facilitated by the collegial relationship between the management of the department and the heads of clinical bases for the training of resident neonatologists.


Standard 8: Implemented
Recommendations for improvement identified during the external visit:

Standard 9: CONTINUOUS RENEWAL
Evidence of compliance:
Taking into account the tendency of "trinity" regarding medical specialists, the university made a collegial decision to include in the educational programme of the residency a component of choice on the topic "Research in Medicine". The mandatory requirement for mastering this elective is that the resident performs his own research with the subsequent registration of the research result in the form of an article and/or a report at the conference. Pedagogical competencies are developed by actively involving residents in the process of formal and non-formal education of undergraduate, internship and junior year students.

The University implements the "Strategy for ensuring the quality of the educational process" (23.11.2020), which includes a system for assessing the quality of education and monitoring the educational process.

To regulate the mechanisms for assessing and monitoring the educational process, there are relevant internal regulatory documents.

The conclusions of the EEC meet the criteria of 4 standards: 4 in full.

Standard 9: Implemented
Recommendations for improvement identified during the external visit: none

6. Recommendations for the improvement of the educational programme of the residency of the specialty 7R01131 "Neonatology"
1) Use the capabilities of the simulation center in training residents on emergency conditions (2.3.2);
2) Provide residents with the choice of alternative disciplines of the educational programme of residency in the specialty "Neonatology" (2.4.2);
3) Include topics on the development of pedagogical competencies for clinical mentors in the programme of the School of Mentoring (5.2.2);
4) Document all stages of introducing innovative teaching methods into the educational process (6.6.2).
7. **Recommendation to the ECAQA Accreditation Council**

Members of the EEC came to a unanimous opinion to recommend to the Accreditation Council to accredit the educational programme 7R01131 "Neonatology" of the Non-Profit Joint Stock Company "SEMEY MEDICAL UNIVERSITY", corresponding to the Standards of accreditation of educational programmes of the residency of the medical organization of education for a period of 5 years.

Chairperson of the External Expert Commission
Zhanalina Bakhyt Sekerbekovna
Foreign expert
Ripp Evgeny Germanovich
National Academic Expert
Zhumalina Akmaral Kanashevna
National Academic Expert
Turgunov Yermek Meiramovich
National Academic Expert
Dzhandaev Serik Zhakenovich
National Academic Expert
Urazova Saltanat Nurgozhayevna
National Academic Expert
Ligai Zoya Nikolaevna
National Academic Expert
Chingaeva Gulnar Nurtasovna,
National Academic Expert
Bozhbanbayeva Nishangul Seitbekovna
National Academic Expert
Beisembayev Askhat Ulzhan Tursunkulovna
National Academic Expert
Doshakanova Assel Baidauletovna
Expert – employer representative
Tuleutaeva Gulkara Esenzhanovna
Expert – resident representative
Amina Timurovna Izmaeva


### Quality profile and criteria for external evaluation of the educational programme (generalization)

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**150**