REPORT
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF THE EVALUATION OF THE EDUCATIONAL PROGRAMME 7R01116 - "PULMONOLOGY (ADULT, CHILDREN'S)"
FOR COMPLIANCE WITH THE ACCREDITATION STANDARDS FOR POSTGRADUATE PROGRAMMES (SPECIALTY OF RESIDENCY) IN MEDICAL ORGANIZATIONS OF EDUCATION

period of external expert evaluation: 23-25.05.2022

Semey, 2022
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### List of symbols and abbreviations

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<thead>
<tr>
<th>Abbreviation</th>
<th>Interpretation</th>
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<tbody>
<tr>
<td>RoK</td>
<td>Republic of Kazakhstan</td>
</tr>
<tr>
<td>MoH RoK</td>
<td>Ministry of Health of the Republic of Kazakhstan</td>
</tr>
<tr>
<td>MES RoK</td>
<td>Ministry of Education and Science of the Republic of Kazakhstan</td>
</tr>
<tr>
<td>NJSC &quot;SMU&quot;</td>
<td>Non-profit joint-stock company &quot;Semey Medical University&quot;</td>
</tr>
<tr>
<td>BD</td>
<td>Basic disciplines</td>
</tr>
<tr>
<td>EKR</td>
<td>East Kazakhstan region</td>
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<tr>
<td>EEC</td>
<td>External expert commission</td>
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<tr>
<td>SCES</td>
<td>State Compulsory Educational Standard</td>
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<tr>
<td>ECAQA</td>
<td>Eurasian Center for Accreditation</td>
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<tr>
<td>LIS</td>
<td>Library information system</td>
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<tr>
<td>FSA</td>
<td>Final state attestation</td>
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<tr>
<td>Irbis</td>
<td>Library information system</td>
</tr>
<tr>
<td>IMS</td>
<td>Integrated management system</td>
</tr>
<tr>
<td>IEPI</td>
<td>Individual Educational Plan</td>
</tr>
<tr>
<td>CMS</td>
<td>Control and measuring system</td>
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<tr>
<td>KMIS</td>
<td>Kazakhstan Medical Information System</td>
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<tr>
<td>CEP</td>
<td>Educational Programmes Committee</td>
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<tr>
<td>LEB</td>
<td>Local Executive Bodies</td>
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<tr>
<td>MEP</td>
<td>Modular educational programme</td>
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<tr>
<td>MSF</td>
<td>360 Degree Rating</td>
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<tr>
<td>RW</td>
<td>Research work</td>
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<tr>
<td>GM</td>
<td>&quot;General Medicine&quot;</td>
</tr>
<tr>
<td>EP</td>
<td>Educational programme</td>
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<tr>
<td>RO</td>
<td>Registrar's Office</td>
</tr>
<tr>
<td>ATR</td>
<td>Assessment of tolerance rating</td>
</tr>
<tr>
<td>OSPE</td>
<td>Objective structured practical exam</td>
</tr>
<tr>
<td>OSCE</td>
<td>Objective Structured Clinical Exam</td>
</tr>
<tr>
<td>PD</td>
<td>Profiling Disciplines</td>
</tr>
<tr>
<td>TS</td>
<td>Teaching staff</td>
</tr>
<tr>
<td>PD</td>
<td>Profiling Disciplines</td>
</tr>
<tr>
<td>WC</td>
<td>Working Curriculum</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>TEP</td>
<td>Typical educational plan</td>
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<tr>
<td>TBL</td>
<td>Team-based-learning</td>
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<tr>
<td>SPE</td>
<td>School of Postgraduate Education</td>
</tr>
</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 the educational programme of the specialty 7R01116 "Pulmonology (adult, children's)" of NJSC "SMU" in the period of 23-25.05.2022, according to an external assessment, as follows:

<table>
<thead>
<tr>
<th>Order No.</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 Sekerbekova</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>Kazakh 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>Kazakh 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>Kazakh 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>Kazakh 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>Kazakh 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>Kazakh 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 Dialysis Society, International Pediatric Nephrology Association, ISN (International Society of Nephrologists), ERA-EDTA (European Renal Association – Dialysis and Transplantation)</td>
</tr>
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### 2. General part of the final report

#### 2.1 Introduction of NJSC Semey Medical University and the educational programme 7R01116 "Pulmonology (adult, children's)"

<table>
<thead>
<tr>
<th>Organization name, legal form of ownership, BIN</th>
<th>Semey Medical University NJSC, bin: 190240004938</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management body</td>
<td>Board of Directors</td>
</tr>
<tr>
<td>Full name of the chief executive officer</td>
<td>Dyusupov Altai Akhmetkalievich</td>
</tr>
<tr>
<td>Created in</td>
<td>1953</td>
</tr>
<tr>
<td>Location and contact details</td>
<td>071400, East Kazakhstan region, Semey, 103, Abay Kunanbayev str., Tel.: 8(7222)52-22-51 E-mail: <a href="mailto:smu@nao-SMU.kz">smu@nao-SMU.kz</a></td>
</tr>
<tr>
<td>State license for educational activities in the residency (date, number)</td>
<td>June 20, 2019 No. KZ50LAA00016373</td>
</tr>
<tr>
<td>Information on branches, subsidiaries (if any)</td>
<td>Pavlodar and Ust-Kamenogorsk branches</td>
</tr>
<tr>
<td>Year of implementation of the accredited educational programme (EP)</td>
<td>Year 2019</td>
</tr>
</tbody>
</table>
Semey Medical University is one of the largest medical higher education institutions in the Republic of Kazakhstan, which has its own University Hospital, as well as branches in the cities of Pavlodar and Ust-Kamenogorsk. Residency programmes, being part of the educational activities of the university, strive to achieve indicators of the strategic plan of the university. Within the framework of the corporate culture, decisions on the formation of a strategic plan are made collectively in the NJSC "SMU".

High qualification of the teaching staff – 6 full-time teachers had a degree of 66.7%; the availability of the educational process by multidisciplinary medical institutions (including a part of those with an accreditation certificate) for the implementation of the programme "Pulmonology (adult, children's)", drawn up contracts on dual education between the organization of education and the Health Department provide residents with an excellent opportunity to master clinical competencies.

The educational programme in the Specialty "Pulmonology (adult, children's)" has been implemented in NJSC "SMU" since 2019. The first graduation of residents was in 2021. The staff of the Department of Therapy actively participated in the development of a project for the development of pulmonological service in the Republic of Kazakhstan, in the development of clinical protocols on the topics "Multiple myeloma", "Chronic obstructive pulmonary disease", the Standard for Therapeutic Service in the Republic of Kazakhstan. And also participated in the international project TERAVOLT with representation of more than 100 countries of the world. The results of the collaboration on "A definitive prognostication system for patients with thoracic malignancies diagnosed with COVID-19: an update from the TERAVOLT registry" were published in the Journal Thoracic Oncology c IF -16.

The contingent of resident pulmonologists of the Department of Hospital Therapy of NJSC "SMU" is as follows: total - 12 residents, including 4 – 2nd year of study, 8 – 1st year of study, 1 - in the Pavlodar branch; 2 residents – under the state grant, 6 – under the Akimat grant.

The first graduates of the residency are in demand and employed in various cities of Kazakhstan: Petropavlovsk, Nur-Sultan, Ust-Kamenogorsk.

2.2. Information on previous accreditation
The accreditation of the educational programme in the specialty of the residency "Pulmonology (adult, children's)" was carried out within the framework of specialized accreditation by the Independent Agency for Quality Assurance in Education (IQAA) in 2019.

Conclusion on the results of the review of the report on the self-assessment of the specialty 7R01116 "Pulmonology (adult, children's)" for compliance with the Standards of accreditation of postgraduate programmes (specialty of residency) of medical organizations of education and conclusions
The self-assessment report on the educational programme 7R01116 “Pulmonology (adult, children's)" (hereinafter referred to as the report) is presented on 117 pages of the main text, 20-page appendices, copies or electronic versions of 39 documents located at https://drive.google.com/drive/u/1/folders/1xcfyGaCsWHEF1odFfO3Q3A7yJA3P5soq
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

<table>
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<th>Duration of training</th>
<th>2 years</th>
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<tr>
<td>Total number of graduates since the beginning of EP implementation</td>
<td>4</td>
</tr>
<tr>
<td>Number of residents on EP since the beginning of the current year</td>
<td>12</td>
</tr>
<tr>
<td>Full-time trainers/Combiners involved in the implementation of EP, incl. % of degree</td>
<td>6 full-time employees, 66.7% - degree</td>
</tr>
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</table>
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 Head- Chairperson of the Board - Rector A.A. Dyusupov, which confirms the reliability of quantitative information and information included in the self-assessment report.

The report contains a list of 26 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 EP.

The self-assessment of EP 7R01116 "Pulmonology (adult, children's)" was carried out on the basis of the order of the head No. 41 dated 09.02.2022 "On the creation of a working group for conducting a specialized self-assessment and writing a report" On approval of the composition of the working group for conducting a 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 S.N. Urazova, 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 the standards provide real practice for the training of residents in the 7R01116 "Pulmonology (adult, children's)" programme, taking into account the beginning of student admission 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 7R01116 "Pulmonology (adult, children's)" 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 the Director General of ECAQA Sarsenbayeva S.S. and agreed with the Rector of the NJSC "Semey Medical University" A.A. Dyusupov. 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.

The participation of a foreign expert Ripp E.G. is provided on the zoom platform (video recordings are archived in the accreditation body).

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

- interview with management and administrative staff – 4 managers, administrative staff - 9 people;
- interviews with residents - only 10 people,
- study of the website https://semeymedicaluniversity.kz/
- interviewing 18 employees, 18 teachers;
- questionnaires of teachers and residents - 26 and 124, respectively;
- observation of training of residents: attendance at a practical lesson on the topic "Cystic fibrosis", full name of the teacher: Imanmadieva D.M., residents - pulmonologists 2 years of training., group 201
- review of resources in the context of the implementation of accreditation standards: 3 clinical bases were visited: University Hospital (UH) of NJSC "ISMU", Institution Private Multidisciplinary Clinic "Venus", Emergency Medical Hospital, practice/clinical training bases, where training is conducted under the programme "Pulmonology (adult, children's)" with the participation of 6 full-time teachers;
- study of educational and methodological documents in the amount of 39 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>order №</th>
<th>Full name</th>
<th>Position, place of work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zhumagalieva A.N.</td>
<td>Head of the Department of Hospital Therapy</td>
</tr>
<tr>
<td>2</td>
<td>Toktarova Zh.Zh.</td>
<td>Assistant of the Department of Hospital Therapy</td>
</tr>
<tr>
<td>3</td>
<td>S.Yu. Maimysheva</td>
<td>Assistant of the Department of Hospital Therapy</td>
</tr>
<tr>
<td>4</td>
<td>Kapakova M.A.</td>
<td>Assistant of the Department of Hospital Therapy</td>
</tr>
<tr>
<td>5</td>
<td>Abylkhairova A.K.</td>
<td>Assistant of the Department of Hospital Therapy</td>
</tr>
<tr>
<td>6</td>
<td>D.M. Imanmadieva</td>
<td>Assistant of the Department of Paediatrics of the NJSC &quot;SMU&quot;</td>
</tr>
<tr>
<td>7</td>
<td>Kairalinov D.</td>
<td>Resident Pulmonologist 2 years of study.</td>
</tr>
<tr>
<td>8</td>
<td>Nuralina Z.</td>
<td>Resident Pulmonologist 2 years of study.</td>
</tr>
<tr>
<td>9</td>
<td>M. Kashitova</td>
<td>Resident Pulmonologist 2 years of study.</td>
</tr>
<tr>
<td>10</td>
<td>S. Asanova</td>
<td>Resident Pulmonologist 1 year of NJSC &quot;SMU&quot; training.</td>
</tr>
<tr>
<td>11</td>
<td>N. Kizekeeva</td>
<td>Resident Pulmonologist 1 year of NJSC &quot;SMU&quot; training.</td>
</tr>
<tr>
<td>12</td>
<td>D. Sovetskanova</td>
<td>Resident Pulmonologist 1 year of NJSC &quot;SMU&quot; training.</td>
</tr>
<tr>
<td>13</td>
<td>Musaeva M.</td>
<td>Resident Pulmonologist 1 year of NJSC &quot;SMU&quot; training.</td>
</tr>
<tr>
<td>14</td>
<td>Khoshchanov E.</td>
<td>Graduate of the residency 2021 doctor pulmonologist</td>
</tr>
<tr>
<td>15</td>
<td>Aidarkhanova A.</td>
<td>Graduate of the residency 2021 doctor pulmonologist</td>
</tr>
</tbody>
</table>

Thus, when implementing the activities of the programme, namely, according to the results of the interview with the management of NJSC "SMU" Chairperson of the Board - Rector and Deputy Chairperson of the Board (for academic and educational work, science and strategic development, organizational and economic work), heads of structural units: the dean and employees of the school of
postgraduate education, the chairperson and members of the CEP residency, the head of the department of employment of graduates and the Medical Foundation, the head of the department of the clinic, the head of the department of science, the head of the department of personnel management. Interviews were conducted with heads of residency programmes, residents, teachers, employers and residency graduates. As a result of meetings and conversations, compliance with the criteria of Standard 1 was established.

All participants in the educational process know the mission of the organization, took part in the formation of proposals for the formulation of the mission, while the mission was brought to the attention of potential residents through the website, social networks, information letters to medical organizations. The strategic plan of the organization for the period of 5 years has been reviewed, 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 educational 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. Having attended a practical lesson on the topic of "Cystic fibrosis", the 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 developing clinical thinking. The organization ensures compliance with ethical aspects in the implementation of the educational programme, as experts have studied the Code of Ethics of 21.11.2019 and during the interview, residents replied that they were informed about the contents of this document.

In an interview 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 EP EMCD and syllabuses, and teachers apply them in classes.

The study of control and measuring tools (tests in the disciplines of EP, clinical tasks, portfolio, checklists for skills assessment) showed that the organization has introduced an appropriate evaluation policy that allows a comprehensive assessment of the educational achievements of residents. During the interview, the residents told about the evaluation forms, for example, the "360-degree evaluation, Caselog, MCQ, CbD, MiniCEX" and that they were satisfied with everything. They also receive regular feedback from teachers. The system of appealing the results of the assessment is reflected in the document "Regulations on residency" dated May 12, 2022, and during the period of work of the organization of education, there were no precedents for appeal. Thus, compliance with standard 3 has been established.

During the visit to the organization and during the interview with the Dean of the School of Postgraduate Education Manatova A.M., the commission made sure that there is a documentation system that is transparent and accessible to all teachers and employees, and includes such documents as the individual curriculum of residents, annual reports, regulations of divisions, contracts with teachers and residents, contracts with clinical bases, and educational and methodological documentation (educational programme, working curricula, syllabuses), assessment tools (checklists, sheets), and certificates. The review of the website showed that its pages contain the necessary documents for residents: information about the university, the list of specialties of the residence, the programme of entrance examinations, the list of documents, and there is information that is regularly updated. This information was obtained during an interview with the Chairperson of the CEP Residence Zhanaspaev M.A.
The conversation with G.T. Nurgaliyeva, the head of the department of the clinic, included such issues as cooperation with clinical bases, the Regulation on clinical bases, the Regulation on clinical mentors, the rules for admission to the residency and allowed experts to learn about approaches to attracting clinical base staff for teaching. Interviews with teachers of the department showed that there are both successes and problems in managing education, depending on the specific base (admission of residents to the equipment, a sufficient number of thematic patients, time for maintaining 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 personnel policy and approaches to the development of teachers' pedagogical competence, motivation to work with residents, and mentoring. Experts have found that teachers initiate research topics for residents, stimulate the need for additional training and independent work with literature, medical documentation.

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. The experts asked questions about satisfaction with the training, enough time for patient supervision, work in DAMUMED with medical documentation, satisfaction with teaching methods and qualifications of teachers, social and moral support for residents in need, participation in “Journal Clubs”, accessibility of international databases of professional literature, scientific works. In general, residents are satisfied with the training, assessment methods, and purposefully entered this organization, as they believe that the organization of education has good resources, image and international relations.

Residents showed their commitment to the organization of education, were active in answering the questions of external experts, demonstrated their judgment in the organization of training, assessment of their skills, advisory support, the opportunity to participate in R&D. 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, 3 clinical bases were visited - the University Hospital (UH) of the Medical University of Semey, the Private Multidisciplinary Clinic "Venus" in Semey, the Emergency Medical Care Hospital. Also, residents work on the basis of a phthisis-pulmonological center, which, due to the compressed time, could not be visited.

The employees of the organization of education provide collegial and ethical relations with the medical personnel, the management of the clinical base to achieve the final results of residents. 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. 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 educational programme 7R01116 "Pulmonology (adult, children's)" 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 of 5 years.

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.

Thus, the external evaluation and the visit of the members of the EEC allowed to verify and validate the data of the report on the self-assessment of the educational programme of the residency 7R01116 "Pulmonology (adult, children's)" in full in accordance with the Regulation on the External Expert Commission, the Guidelines for the external evaluation of the medical organization of education of the ECAQA.

4. 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 /.

Resident survey results:
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 electronic educational resources and 6.45% believe that partially.

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 88.71% 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. 91.13% are completely satisfied that they study at the university, 8.06% are partially satisfied, -0.81% of respondents are disappointed. The university allows you to improve or acquire the necessary knowledge and skills in the chosen specialty, 94.35% are confident, 0.81% are not sure, 3.23% cannot give an answer, 0.81% would like
to believe it, 0.81% began to doubt it. Fully (94.5%) and partially (93.55%) satisfied with the organization of teaching in 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 carry out 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%. There is an opportunity for career growth and competence development for teachers in the organization - 88.46 % fully agree, 11.54% partially agree.

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% are fully agree that they can be implemented as professionals, and 7.69% - partially. Unfortunately, 7.69% did not answer the question of whether the university supports the teacher in participating in international and national events, and 30.77% did not address this to the management or the relevant administrative staff of the university. The majority of respondents (96.15%) fully agree, and 3.85% partially agree that students have free access to patients at the clinical bases of the university and to the resources of the practice bases. 26.92% do not know about the implementation of social programmes to support teachers and 3.85% of respondents doubt their availability. The management and administration systematically listen to the opinion of teachers -76.92%, sometimes -0% of the respondents. Various teaching methods are used in the education of students, but more often - analysis of situational problems (88.46%), work in small groups (61.54%), oral surveys and topic analysis (50%), also problem-oriented learning (34.62%), test solution (73.08%), case analysis (88.46%), less often - written completion 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.

5. Analysis for compliance with accreditation standards based on the results of an external evaluation of the educational programme 7R01116 "Pulmonology (adult, children's) " of NJSC "Semy Medical University"

**Standard 1: MISSION AND END OUTCOMES**

**Evidence of compliance:**

**1.1 Mission statement and deliverables**

The mission of the specialty 7R01116 "Pulmonology (adult, children's)" is: "Training of highly qualified competitive doctors of a new generation in the specialty "Pulmonology (adult, children's)", focused on the protection of public health, the ability to provide full medical care, capable and ready for independent professional activity, continuous improvement and integration of scientific knowledge in accordance with the requirements of the world community."

**1.2 Professionalism and professional autonomy**

Experts received convincing data that the university is autonomous in making decisions in the development of the educational programme in terms of the component of choice, the assessment policy (current and final), including the choice of assessment methods (testing, oral survey, clinical examination), selection and admission of residents, personnel policy for teachers under the accredited educational programme, as well as the allocation of resources (classroom fund of clinical bases according to contracts).
When working with residents, training is carried out using updated protocols, treatment recommendations, own and borrowed implementations in clinical practice. Residents are required to participate (including on-line) in conferences and seminars, training seminars, symposiums, master classes.

1.3 Learning outcomes

EMCD determines the final results of training in accordance with the qualification requirements for the specialty of residency. The end results include knowledge, skills, analysis, communication skills and continuous learning of the resident, which form the basis of the knowledge and skills of the allergist-immunologist. EP by its structure and methods of training forms the need to be aware of modern trends in medicine, to use evidence-based medicine data for diagnosis and effective practice of diseases, thus developing the skills of residents to lifelong learning.

1.4 Participation in the formulation of the mission and final results

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. The purpose of the specialty 7R01116 "Pulmonology (adult, children's)" is the training of qualified competitive specialists in the field of pulmonology, who have a system of universal and professional competencies, capable and ready for independent professional activity.

In the process of creating and implementing educational programmes in the specialty, feedback from teaching staff, residents and employers is regularly carried out.

Conclusions of the EEC on the criteria. Compliant with 17 standards: full – 17.
Standard 1: Implemented
Recommendations for improvement identified during the external visit: none

Standard 2: EDUCATIONAL PROGRAMME
Evidence of compliance:

2.1 Postgraduate programme framework

In NJSC "SMU", an integrated model of EP is implemented, in which the continuity of basic and postgraduate medical education is provided, when the subsequent educational level is impossible without the full assimilation of the previous one. All blocks of modular EP are logically connected to each other and are aimed at the formation of a competence approach in the training of a residency listener. The term of mastering the specialty 7R01116 - "Pulmonology (adult, children's)" is 2 years.

The process of management and monitoring of the quality of the formation of the EP, all documentation relating to the residency in the NJSC "SMU" is carried out by the Department of Academic Work (DAW) and its educational department (DE) and the Department of Quality Control of Medical Education (DQCME). A major role in this process is played by the School of Postgraduate Education, the Department of Strategic Development, as well as the specialized department of hospital therapy.

2.2 Scientific method

During the examination of the educational programme, it was established that the scientific foundations and methodology of medical research, evidence-based medicine are applied. Involvement of residents for the implementation of small research projects and participation in the implementation of research of the department performed as part of the mastering of EP, develops the merits (qualities) of the researcher in students, teaches research methods and skills used in modern scientific practice. The implementation of these strategies is provided by a whole range of measures implemented within the framework of the classroom and extracurricular components of the EP when studying both mandatory and elective disciplines. Thus, the CED includes such disciplines as "Management of scientific research", "Biostatistics".

In addition to attracting residents to the theoretical study of modern achievements of evidence-based medicine, residents are actively involved in the description of clinical cases, the analysis of statistical material initiated by doctors of clinical bases or employees of the department. 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 content, scope and sequence of specialty 7R01116 EP - "Pulmonology (adult, children's)" strictly correspond to the SCES. At the heart of the achievement of training tasks in the specialty is the acquisition by residents of the necessary knowledge and key competencies that profiling disciplines of the main component and the component of choice (CC). The educational programme for training residents in this specialty is designed for 144 credits: core disciplines - 132 credits, a component of choice - 8 credits, interim certification - 2 credits, final certification – 2 credits. The model of competencies of residents in accordance with the qualification requirements for the specialty has been introduced. The structure, content and duration of the programme are clearly defined. The mechanism for the development and approval of the residency programme is clearly defined and regulated by the CEP.

2.4 Programme structure, content and duration

The structure of the EP of the Residency in the specialty 7R01116 – "Pulmonology (adult, children's)" is formed from various types of educational, scientific, clinical activities and practices that determine the content of education, reflects their ratio, measurement and accounting. The EP is implemented in accordance with the SCES of 2020 and provides the necessary level of training of residents, includes the relevant specialized disciplines.

Profiling disciplines (on 33 credits Pulmonology in hospitals of the adult and pediatric and outpatient and polyclinic: Pulmonology in a polyclinic, pediatric pulmonology in a polyclinic – 33 credits each) make - 132 credits. The EP ensures the consistency of the study of disciplines, is based on their continuity, the rational distribution of disciplines by semester from the standpoint of the uniformity of the academic work of the resident.

At the same time, during interviews with university staff and residents, experts of the EEC revealed that when choosing elective disciplines, all residents are persistently offered electives relating to the management of scientific research and biostatistics. Thus, choosing only these disciplines, residents do not have the right to choose.

2.5 Organization of training

The personnel of the department has the necessary competencies for training residents. Teachers of departments use various methods of active (business games, brainstorming, clinical debriefing, case-studies, etc.) and traditional (oral debriefing, mini-lectures) training, according to which staff members periodically study within the university, less often in other organizations. The Residency Department and the Postgraduate Education of CEP constantly monitor this process and train newly recruited employees through the School of Young Teachers.

At the clinical sites, the resident can get the maximum access to patients according to his profile of the residency educational programme. When drawing up the staffing table for the new academic year, for conducting classes for residents, the mandatory requirement for teachers is the presence of an academic degree, academic title and work experience. A clinical mentor is appointed from among qualified specialized specialists with at least five years of experience in the main activity.

2.6 Relationship between postgraduate medical education and health care

Teachers of the Department of Hospital Therapy, together with clinical mentors, make maximum use of the capabilities of all clinical bases to achieve the goals of training in the residency. For example, residents in hospitals master clinical and practical competencies to provide emergency and planned medical care to patients with respiratory problems, using all the possibilities of the clinical base. Residents take part in general rounds with the head of the department Zhumagaliyeva A.N., at her advisory examinations of patients with complex pathologies worthy of attention, at general rounds of heads of departments, at clinical debriefings, consultations, morning medical conferences.

Due to the spread of the COVID 19 virus, residents of the second year of study, during the period of high occupancy of the covid department in an infectious disease hospital, enter the "red"
zone, where their help significantly reduces the load on existing medical personnel, which favourably affects the results of treatment of patients with covid.

**Conclusions of the EEC on the criteria.** Compliant with 30 standards: fully - 29, partially – 1.

**Standard 2: Implemented**

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

1) To provide residents with an alternative choice of elective disciplines in the specialty of the educational programme (2.4.2).

**Standard 3: ASSESSMENT OF STUDENTS**

**Evidence of compliance:**

3.1 **Methods of evaluation**

The policy and procedure for assessing the results of training within the framework of the EP is carried out using criteria developed in accordance with the goals and objectives set for the implementation of the EP and the qualifications assigned within the framework of the current point-rating system for assessing knowledge and monitoring the educational process in accordance with policy, regulatory and internal documents.

The general policy, principles, methods of assessment of residents in the specialty 7R01116 – "Pulmonology (adult, children's)" in NJSC "SMU" are reflected in the "Academic Policy for 2021-2022" dated 31.08.2021. The responsibility for the implementation of the policy on assessing the educational achievements of residents is borne by the faculty of the department, the head of the department (modules), the registrar's office.

To ensure maximum objectivity and transparency of the evaluation process, the department has developed checklists for conducting current, intermediate and final control of the discipline (Mini-cEX, CbD, OSCE). As an additional method of evaluating residents, portfolios are used, which experts familiarized themselves with at the departments supervising the residency programme.

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 7R01116 "Pulmonology (adult, children's)" 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 and a large volume of surgical interventions on 3 specialized clinical bases, 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:** none

**Standard 4: STUDENTS**

**Evidence of compliance:**

4.1 **Admission and Selection Policy**

During the visit, the EEC experts established that admission to the residency in NJSC "SMU" is carried out in accordance with the Order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 "On approval of the Standard Rules for admission to training in educational institutions that implement educational programmes of higher and postgraduate education". The conditions for admission of students are prescribed in the "Regulations on admission of students to higher and postgraduate education in NJSC "SMU". The criteria for applicants entering
the residency are determined by the requirements of the State Standard of Education and Training of the Republic of Kazakhstan, according to which the previous level of education of persons wishing to master the educational programmes of the residency: basic medical education, higher medical education, internship.

Questions about admission to residency educational programmes are posted on the university's website https://semeymedicaluniversity.kz/postuplenie/pravila-priema/ and in the admission commission.

4.2 Number of residents

EEC experts confirmed that the procedure for determining the number of admitted students of the residency in the specialty "Pulmonology (adult, children's)" is regulated by the State Order of the Ministry of Health of the Republic of Kazakhstan for the training of medical personnel and taking into account the possibilities of clinical, practical training, the maximum permissible load on curators, the availability of educational, methodological and scientific literature, the capacity of clinical bases, as well as material and technical resources of the university.

At the university there is a practice of organizing targeted training in residency. Medical organizations of East Kazakhstan and Pavlodar regions have the opportunity to send targeted grants to the university for the education of specific residents.

The contingent of resident pulmonologists of the Department of Hospital Therapy of NJSC "SMU" is as follows: 12 residents, including 4 – 2nd year of study, 8 – 1st year of study, 1 - in the Pavlodar branch (PB), 4 – in the Ustkamenogorsk branch; 3- Semey.

The first graduation of residents in the specialty "Pulmonology (adult, children's)" was in 2021, 4 residents successfully completed the residency, all are employed.

4.3 Resident support and advice

In NJSC "SMU", a system of academic consulting of residents is built, when each resident is assigned a curator from among the faculty members of the department. In addition, the resident is assigned a clinical mentor in the medical organization where the resident is trained. Its function is to direct the resident to master the practical skills and competencies necessary for the resident in the process of his training, which is reflected in the Academic Policy of NJSC "SMU".

In the event of a professional crisis or disagreement in principle with the supervisor or colleagues, the resident is supported by the Resident Council.

The university has a department of youth policy, which is able to provide socio-psychological support through resident colleagues, as well as professional advice from a sociologist-psychologist who provides assistance in cases of professional crisis, as well as other emergency situations with residents.

4.4 Representation of residents

EEC experts confirmed that residents participate in the meetings of collegial bodies where they are official members and express their opinions and proposals for improvement. 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. EEC experts also confirmed that the participation of students at all levels in the quality of the educational process is regulated by the Academic Policy of the National Academy of Sciences "SMU" dated August 31, 2021. The Department of Hospital Therapy collects feedback from residents at the stage of mastering the taught discipline (at the end of the study of the discipline), as well as on issues related to study/work conditions, problem situations.

4.5 Working conditions

EEC experts confirmed that the amount of scholarship of residents studying on the basis of the state grant is 87,609 thousand tenge. When the work is combined, residents of the 1st year of study at the department receive 30 thousand

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
A resident pulmonologist Yerzhan Khoshchanov, a graduate of 2021, worked at Ridder City Hospital. At present, Muratbekov Dias Bolatuly, a resident of 1 year of study in the specialty - 7R01116 "Pulmonology (adult, children's)" in the Regional Hospital of Taldykorgan, has been extended during the period from 31.01 to 31.05.2022 according to the application No.038 dated 17.01.2022. SPE on the REM

**Conclusions of the EEC on the criteria.** Compliant with 30 standards: full – 30.

**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 University has developed and approved the "Personnel Policy of the NJSC SMU", approved on 10.03.2018 and updated the Regulation on the Personnel Policy of the NJSC "SMU" dated 30.09.2019, which reflects the priorities for the formation of human resources and selection criteria, including the scientific, pedagogical and clinical merits of candidates.

The University pays great attention to the selection and recruitment of qualified personnel, as well as their training. The selection and recruitment of employees is carried out by competitive selection in accordance with the established requirements.

The faculty is formed on the basis of the requirements for the effective implementation of educational programmes, as well as on the basis of the total amount of study load. The faculty members of the department are constantly improving their qualifications.

The University improves the selection of personnel to achieve its mission and goals, incentives for personnel, taking into account their scientific, clinical and pedagogical merits, promotions, awards and rewards.

5.2 Teachers’ obligations and development

When visiting the experts of the Department and during the conversation with the faculty, it was confirmed that the management of NJSC "SMU" in accordance with the needs to improve the level of teaching, improve the final results of training, increases the material and technical base for improving the qualification level and scientific potential of faculty conducting training in the residency. To carry out this task, the University has the following units: the School of the Young Teacher, the Department of Additional and Non-Formal Education, which contribute to the formation and enhancement of the competencies and potential of the teaching staff.

When studying the documentation and during the interview, the experts of the EEC found that mentors improve their qualifications at the "School of Clinical Mentor". However, it turned out that the proposed topics relate only to communication skills. There was no confirmation of the training of pedagogical competencies, given that clinical mentors are mainly representatives of practical health care.

**Conclusions of the EEC on the criteria.** Compliant with 7 standards: fully – 6, partially – 1, non-compliant – 0

**Standard 5: Implemented**

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

1) Provide an advanced training programme at the "School of clinical mentor" with basic pedagogical competencies (5.2.2)

**Standard 6: EDUCATIONAL RESOURCES**

**Evidence of compliance:**

6.1 Logistics and equipment

During the visit and interview, EEC experts made sure that NJSC "SMU" has sufficient infrastructure necessary for the successful implementation of the OP Residence "7R01116- Pulmonology (adult, children's)" with the use of material and technical base, information resources and technologies, resources for clinical training.
The material and technical base of the university includes: lecture halls, study rooms, the Center for Research Laboratory, library, clinical bases of East Kazakhstan region and Pavlodar. Ensuring the working environment conditions is carried out in accordance with the accepted sanitary norms and safety rules of the Republic of Kazakhstan. The study rooms are equipped with multimedia equipment, educational material in electronic form, methodological developments for each discipline. This makes it possible to ensure that the educational process is conducted in accordance with educational standards.

In addition, mini-libraries with access to international databases (UptoDate, Pubmed, Cochrain, etc.) are opened at each department.

6.2 Clinical Bases

Experts visited the clinical base of the EP "Pulmonology (adult, children's)" - the Emergency Hospital of Semey. The hospital has 14 clinical departments and 8 support units. Clinical bases of the specialty "Pulmonology (adult, children's)" are also the University Hospital "SMU". It is a modern multidisciplinary clinic with 15 in-patient departments for 500 beds, 160 children's beds and -340 adults beds. The hospital has a consultation and diagnostic polyclinic. In addition, experts visited the clinic "Venus", where residents have the opportunity to undergo an internship in the module of pediatric pulmonology, since this hospital is a specialized children's center.

In addition, the Regional Center for Phthisiopulmonology and Rehabilitation of Semey is the clinical base for resident pulmonologists, although it was not possible to visit this base due to time constraints and because residents on the accreditation days underwent a component on pediatric pulmonology and were in the "Venus" Clinic and University Hospital. The hospital is designed for 300 beds, there are 20 resuscitation wards.

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

EEC experts confirm that NJSC Semey Medical University has its own website https://semeymedicaluniversity.kz/, where students and university staff can find information of interest to them. On the basis of the Department of Hospital Therapy, there is a sufficient number of computers with high-speed Internet connection. Students and university faculty have free access to the Internet, including Wi-Fi in the department, mini library and reading room of the main building. Residents at any time can add knowledge in modern databases in the field of fundamental and applied medicine: Cochrane, Scopus, Rubmed, RINC, UptoDate, Medline, Academic Journals, etc.

In addition, the experts were convinced that the PR department provides information to students and employees of NJSC "SMU" on events held at the university, and important events in Kazakhstan and the world. On the university's website, the event calendar provides information about the date and venue of upcoming events. Residents are included in the WhatsApp chats, through which students keep in touch with the dean's office of the SPE and the department, and can also quickly receive the necessary information.


Students have access to Book-Up, Epigraph, Aknur Press, University Electronic Library, UpToDate Clinical Database, and Cochrane.org Evidence-Based Medicine Database.

6.4 Clinical Teams

During the interviews and the visit to the clinical base, the experts of the EEC made sure that the experience of working in a team of resident pulmonologists is acquired in the process of training under the guidance of a clinical mentor, who instills the skills of proper communication with the patient and
his relatives. Residents seek advice from more experienced department residents, work in close cooperation with other medical specialists, with nursing and paramedical staff. Residents of the first year of study are attached to the residents of the senior year, which helps to improve the relationship within the team, and the residents of the last year of study develop effective management skills.

Interdisciplinary master classes, olympiads with the involvement of several departments, in which residents take an active part, as well as have the opportunity to make presentations and study, are held at NJSC "SMU".

Residents - pulmonologists develop the skills of leadership and training of healthcare workers through the joint choice of the right tactics for further patient management, lecturing, conducting sanitary and educational work among the population.

**6.5 Medical Research and Advances**

Experts have obtained evidence that all resident pulmonologists are involved in the research work of the department. They can independently carry out some stages of clinical research: questioning patients, conducting some diagnostic manipulations, etc. Curators, clinical mentors of the specialized department support residents in their research and practical activities. To encourage residents to participate in medical research and to improve the quality of health services, the University funds the publication of scientific articles in research journals and participation in national and international conferences. At the end of the 2nd year of study, each resident either publishes an article on his scientific project, or defends his project before a commission. At the end of the residency, each graduate has skills in working with scientific literature, research skills and publication skills.

**6.6 Education expertise**

The procedure of educational expertise on the quality of planning, implementation and evaluation of EP is the prerogative of the CEPs and the commission created at the CEP, which checks the compliance of teaching methods with the methods of control and the final results of training formed in the Sillabuses. In addition, the university has developed a Regulation on the procedure for the development, approval and examination of educational programmes dated March 29, 2019.

One of the mechanisms for motivating and developing the interest of employees and faculty in active participation in improving the educational process is the annual rating.

At the same time, EEC experts noted that the innovative teaching methods being implemented were not reflected in the submitted documents in the form of formalized acts on their introduction into the educational process.

**6.7 Training in other institutions**

Experts of EEC found that the organization and implementation of academic mobility in the University is carried out by the Department of Strategic Development and International Cooperation, which is actively working to establish partnerships with Kazakh and foreign universities. The university defines the procedure for organizing academic mobility, which is formulated in the "Regulations on the academic mobility of students, teachers and employees".

Distance cycles have been announced for residents of the Semey Medical University within the framework of the academic mobility programme at the Ryazan State Medical University named after Academician I.P. Pavlov.

**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) It is necessary to document the innovative teaching methods used in the educational process (6.6.2)

**Standard 7: PROGRAMME EVALUATION**

**Evidence of compliance:**

**7.1 Monitoring and evaluation mechanisms**

Monitoring and evaluation of EP includes the following stages: discussion, review, revision taking into account proposals and comments made by employers and other stakeholders,
recommendation for approval, approval procedure.

Improvement of the procedure for evaluating the programme at the level of the university, the School of Postgraduate Education, departments is carried out through discussion of the context of the programme and special disciplines at the meetings of the CEP Residency and the Academic Committee. One of the important conditions for continuous monitoring and improving the quality of the educational process is the correction of EP on the basis of feedback with the participation of stakeholders (teachers, students, employers and other stakeholders).

The process of continuous improvement of teaching staff is implemented on the basis of: improving the qualification of teaching staff every 5 years, the participation of teaching staff at student events (seminars, master classes, conferences), understanding of their own experience in the introduction of pedagogical technologies in the educational process, the exchange of experience in the introduction of pedagogical technologies, management processes of teaching staff.

7.2 Feedback from teachers and residents

Teachers and residents have the opportunity to participate in the assessment and subsequent improvement of EP on a regular basis through various channels of feedback (through questionnaires (LMS keys, Google forms), organization of focus groups, constant monitoring of appeals to the blog of the chairperson of the board – the rector, his deputies, deans, opening the box for written appeals). Confirmation of the effectiveness of the education received is also based on the results of feedback - an annual survey of students to assess the level of satisfaction with educational programmes. As a result of the questionnaire analysis, changes and additions are made to the EP.

7.3 Results of Residents and Graduates

Information on the employment of graduates has been studied and is available in the relevant section of the website. This section has three categories: "Employers", "Graduates" and "Vacancies". The section "Employers" contains information on the planned graduation at the end of the current academic year with the number, in terms of educational levels and specialties, as well as by mode of study. The section "graduates" contains information about the need for personnel according to the currently available information. The section "Graduate" contains information from employers (by year) - https://semeysalgar.tulparov.az/trudoustroystvo-vypusknikov/vypuskniku/

Also, the website contains data on the planned graduation for the current academic year and the need for medical personnel based on the available information from the medical and prophylactic organization and the available vacancy in the SMU with qualification requirements for applicants for the position.

Graduates - pulmonologists after graduation are employed: Khoshchanov E.- studies in the master's programme of NJSC "SMU", Amerkhanova A. works as a pulmonologist in the Respiratory Center of Ust-Kamenogorsk and Smakov K.- in the PSE on the REM "Multidisciplinary regional hospital " HCD of North Kazakhstan region Akimat" by a pulmonologist.

7.4 Stakeholder Engagement

Following accreditation, identification of any weaknesses and shortcomings during the feedback and examination, plans are made to implement the recommendations and address the observations. The head of the department, responsible for the specialty, responsible for the process collegial bodies or structural units monitor reports on the implementation of these plans. Reports on the implementation of measures based on the results of accreditation and post-accreditation control are transmitted and monitored by the relevant agencies.

The participation of external stakeholders in the processes of monitoring and evaluation of EP is achieved through their inclusion in the composition of the collegial bodies of NJSC "SMU" and involvement in meetings. After graduates of the residency, the dean's office of the SPE collects feedback on the assessment of their competencies and on the whole on the "Pulmonology (adult, children's)". Every year, the heads of medical organizations in which graduates are employed provide feedback on the competence of doctors. Based on these feedbacks, decisions are made to improve the EP. Thus, on the Facebook page there are video reviews on the quality of the acquired skills of residents-pulmonologists of the 1st year of training from pulmonologists of the highest category.
Bogacheva E.B. and Alpyspaeva A., who noted a good level of general and clinical training of residents.

The maintenance and development of the corporate spirit in NJSC "SMU", including personal participation in the processes of improving educational, scientific, educational, clinical processes is the main direction of the work of all departments, services and divisions. According to the Code of Corporate Ethics of NJSC "SMU" dated June 21, 2019, the Code of Ethics of Students dated September 1, 2019, the Internal Regulations of NJSC "SMU" dated May 4, 2019, all faculty, employees and students take an active part in the life of the university.

7.5 Procedure for Approval of Educational Programmes

A mechanism for the approval of educational programmes has been developed at NJSC "SMU". The CEP carries out a systematic study and comprehensive assessment of EP in order to improve and guarantee quality (determining the value of the programme, achieving the goal, achieving tasks, the degree of compliance with the needs of society, the requirements of employers, the effectiveness of the training methodology), as well as an assessment of the educational and methodological support and support of the educational process. The EP is approved at the meeting of the Chair, the CEP and the Academic Council.


Standard 7: Implemented

Recommendations for improvement identified during the external visit:

Standard 8: GOVERNANCE AND ADMINISTRATION

Evidence of compliance:

8.1 Management

In the implementation of postgraduate education, NJSC "SMU" is guided by the Laws of the Republic of Kazakhstan "On Education", "On approval of the state educational order for the training of specialists with higher and postgraduate education", the order of the Ministry of Health of the Republic of Kazakhstan "On approval of the rules for placing a state order, admission to training and training of medical personnel in residency", Standard rules for admission to training in educational organizations, state residencies, which regulate the number of state educational orders for the training of residents in the field of healthcare.

8.2 Academic Leadership

The Academic Policy, which regulates in detail the rights, obligations and responsibilities of students and the University administration, the procedure for organizing the educational process, is annually reviewed and approved in the NJSC "SMU". These rules stipulate the officials responsible for the proper implementation of the Rules and the scope of their responsibility.

8.3 Training budget and resource allocation

The budget of NJSC "SMU" is formed from two sources: the republican budget (state order for training of personnel of higher and postgraduate education, advanced training of medical workers, development of scientific research, transfers) and provision of paid educational services.

NJSC "SMU" manages the budget of the EP "7R01116 - Pulmonology (adult, children's)" 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. This supports the necessary assistance to practical health care from the academic community.

8.4 Administration and Management

Every year, changes and additions are made to the organizational structure of NJSC "SMU". The staffing table of departments providing educational programmes of the residency is approved annually taking into account changes in the number of students. According to Art.52 of the Law of the Republic of Kazakhstan "On Education" dated 27.07.2007. No. 319-SH, the total number of faculty members is formed on the basis of an average ratio of residents and teachers – 3:1. The University has defined the general strategy, main directions, priorities and objectives of the University's policy in the field of
improving the quality of education in accordance with the University's mission, vision and development programme.

8.5 Requirements and regulations

The Regulation on Residency was developed in accordance with the Law of the Republic of Kazakhstan "On Education", the Concept for the Development of Medical Education and determines the procedure for training medical personnel in the Residency in the organizations of medical education and science of the Republic of Kazakhstan, regardless of the forms of ownership, having a license for this type of educational activity and clinical bases.

On the issues of training of residents, NJSC "SMU" closely cooperates with the Department of Science and Human Resources of the Ministry of Health of the Republic of Kazakhstan, the Republican Center for Health Development of the Ministry of Health of the Republic of Kazakhstan.

Quality control of the educational programmes of the residence of NJSC "SMU" by the authorized body (Ministry of Health of the Republic of Kazakhstan) is carried out at the time of audits, during which the degree of compliance of the learning process in the residence with the requirements of the NLA is revealed.

The process of high-quality implementation of the specialty "Pulmonology (adult, children's)" is facilitated by the constructive dialogue established by the management of the Department of Hospital Therapy with the management of clinical bases identified by NJSC "SMU" as training bases for resident pulmonologists. Thus, Muratbekov Diaz is a resident of Taldykorgan for 1 year and currently works as the head of the infectious diseases department of CVI-1, State Enterprise on the Right of Economic Management "Regional Hospital of Taldykorgan".


Standard 8: Implemented

Recommendations for improvement identified during the external visit: none

Standard 9: CONTINUOUS RENEWAL

Evidence of compliance:

In order to continuously improve the postgraduate educational process in accordance with the best practice of world educational management, taking into account the needs of practical health care of the Republic of Kazakhstan, NJSC "SMU" regularly initiates the review and updating of processes. The school of postgraduate education and the quality control department of medical education constantly monitor the implementation of EP on the basis of collecting and analyzing feedback from graduates of the residency and from employers through questionnaires; organizing "focus groups"; collecting and analyzing feedback from residents. Based on the results of feedback from the DQCME on the satisfaction with the quality of the educational process and the assessment of disciplines, a plan of measures is drawn up to improve the results.

As a result of updating and continuous adjustment, in order to harmonize the projected learning outcomes and actually formed competencies, the needs of society, the economy, the labor market, the results of educational activities and feedback from stakeholders, the content of both mandatory and elective disciplines is annually adjusted, the results of teacher training are introduced. Regularly reviewed taking into account changes in the external environment and the requirements of the labor market of the CED. Elective disciplines of the profiling cycle take into account the latest changes in the labor market, reflect the interests of the employer, and together with all types of practices are aimed at preparing for professional activity.

Conclusions of the EEC on the criteria. Compliant with 4 standards: fully - 4.

Standard 9: Implemented

Recommendations for improvement identified during the external visit: none

6. Recommendations for the improvement of the educational programme of the specialty 7R01116 "Pulmonology (adult, children's)":
1. To provide residents with an alternative choice of elective disciplines in the specialty of the educational programme (2.4.2).

2. Provide an advanced training programme at the "School of clinical mentor" with basic pedagogical competencies (5.2.2)

3. It is necessary to document the innovative teaching methods used in the educational process (6.6.2)
7. Recommendation to the ECAQA Accreditation Council

The members of the EEC came to a unanimous opinion to recommend to the Accreditation Council to accredit the educational programme 7R01116 "Pulmonology (adult, children's)" of the Non-profit Joint Stock Company "SEMEY MEDICAL UNIVERSITY", which meets the Standards of accreditation of educational programmes of the residency of medical educational organizations for a period of 5 years.

Chairperson of the External Expert Commission
Zhanalina Bakhyt Sekerbekovna
Foreign expert (online)
Ripp Evgeny Germanovich
National Academic Expert
Zhumalina Akmaral Kanashevna
National Academic Expert
Turgunov Ermerk 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
Beisebayeva Ulzhan Tursunkulovna
National Academic Expert
Doshakanova Asel Baidauletovna
Expert - representative of employers
Tuleutaeva Gulnara Yesenzhanovna
Resident representative Expert
(online)
Izmayeva Amina Timurovnna
### Quality profile and criteria for external evaluation of the educational programme (generalization)

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