REPORT
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF THE EVALUATION OF THE EDUCATIONAL PROGRAMME ANESTHESIOLOGY AND RESUSCITATION (ADULT, CHILDREN'S) FOR COMPLIANCE WITH THE ACCREDITATION STANDARDS OF POSTGRADUATE PROGRAMMES (SPECIALTY RESIDENCY) IN MEDICAL EDUCATIONAL INSTITUTIONS

external expert evaluation period: 29/03/2022 - 31/03/2022

Nur-Sultan, 2022
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List of symbols and abbreviations
1. Composition of the external expert commission

In accordance with the ECAQA Order No. __9__ dated 11.03____2022__, an External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation of the
educational programme in the period 29/03/2022 – 31/03/2022 (date): Anesthesiology and intensive care (adult, children's), in the following composition:

<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>
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<tr>
<td>1</td>
<td>chairperson</td>
<td>Madyarov Valentin Manarbekovich</td>
<td>Doctor of Medical Sciences, Professor of the Department of Surgical Diseases with a course of anesthesiology and resuscitation NEI &quot;Kazakhstan-Russian Medical University&quot;</td>
</tr>
<tr>
<td>2</td>
<td>Foreign Expert</td>
<td>SERGEY ALEXANDROVICH RYZHKIN</td>
<td>Doctor of Medical Sciences, Head of the Department of Radiotherapy and Radiology named after Academician A.S. Pavlov, Head of the Department of Additional Professional Education of the Russian Academy of Continuing Professional Development (Moscow), Scientific Secretary of the Department of Medical and Biological Sciences of the Academy of Sciences of the Republic of Tatarstan, accredited expert of the Federal Service for Supervision of Education and Science (Rosobrnadzor).</td>
</tr>
<tr>
<td>3</td>
<td>Kazakh Academic Expert</td>
<td>MUSTAFIN ALIBEK HAMZENOVICH,</td>
<td>Doctor of Medical Sciences, Professor, Head of Department of Anesthesiology and Resuscitation, NJSC &quot;MUA&quot;</td>
</tr>
<tr>
<td>4</td>
<td>Kazakh Academic Expert</td>
<td>UALIKHAN KOSHKARALIEVICH ZhUMASHEV</td>
<td>Doctor of Medical Sciences, Professor of the Department of Oncology, NJSC &quot;Asfendiyarov Kazakh National Medical University&quot;</td>
</tr>
<tr>
<td>5</td>
<td>Kazakh Academic Expert</td>
<td>ESENKULOVA SAULE ASKEROVNA</td>
<td>Doctor of Medical Sciences, Associate Professor of the Department NJSC &quot;Asfendiyarov Kazakh National Medical University&quot; Member of the Association of Oncologists of the Republic of Kazakhstan</td>
</tr>
<tr>
<td>No.</td>
<td>Category</td>
<td>Name</td>
<td>Role/Details</td>
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</tr>
<tr>
<td>6</td>
<td>Kazakh Academic Expert</td>
<td>TRYNIKIN ALEXEY VIKTOROVICH</td>
<td>Candidate of Medical Sciences, senior lecturer of the Department of Surgical Diseases with the course of anesthesiology and resuscitation of the NEI &quot;Kazakhstan - Russian Medical University&quot;</td>
</tr>
<tr>
<td>7</td>
<td>Kazakh Academic Expert</td>
<td>SLAVKO ELENA ALEKSEEVNA</td>
<td>CMS – Candidate of Medical Sciences associate Professor of the Department of Infectious Diseases NEI &quot;Kazakhstan-Russian Medical University&quot;, Chairperson of PO &quot;Scientific and Practical Society of Gastroenterologists of Almaty&quot;</td>
</tr>
<tr>
<td>8</td>
<td>Kazakh Academic Expert</td>
<td>BAZARBAEVA AIGUL ABAEVNA</td>
<td>Candidate of Medical Sciences, doctor of the highest qualification category in pediatrics, head of Science and Education Scientific Center of Pediatrics and Pediatric Surgery JSC, Distinctive Healthcare Person</td>
</tr>
<tr>
<td>9</td>
<td>Kazakh Academic Expert</td>
<td>Ulanbek ZHANBYRBEK KABLY,</td>
<td>M.D., Candidate of Medical Sciences, Associate Professor, Head of the Department of Urology and Andrology, Medical University of Astana JSC</td>
</tr>
<tr>
<td>10</td>
<td>Employers' representative</td>
<td>MADINA ERALYEVNA OSPANOVA</td>
<td>Head of Cryobiology Department Head of the Department of Cryobiology of the RSE on REM &quot;Scientific and Production Center of Transfusiology&quot; of the Ministry of Health of the Republic of Kazakhstan</td>
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<tr>
<td>11</td>
<td>Resident Representative</td>
<td>BAIMUKHANOV DAUREN SAMARKHANOVICH</td>
<td>Resident of the 4th year of training in the specialty &quot;Neurosurgery, including pediatric&quot; of JSC &quot;National Cambridge School of Medicine&quot;</td>
</tr>
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</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 Angiosurgery educational programme, including children's, for compliance with the Accreditation Standards 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.

**General part of the final report**

**2.1 Presentation of the National Scientific Oncology Center LLP.**

<table>
<thead>
<tr>
<th>Organization name, legal form of ownership, bin</th>
<th>&quot;National Scientific Oncology Center&quot; LLP</th>
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<tbody>
<tr>
<td>Management body</td>
<td>Management Board</td>
</tr>
<tr>
<td>Full name of the chief executive officer</td>
<td>Chairperson – Candidate of Medical Sciences Gulnara Utepergenovna Kulkaeva.</td>
</tr>
</tbody>
</table>

**Created in**

In accordance with the Decree of the Government of the Republic of Kazakhstan dated May 11, 2018 No.255, the National Scientific Cancer Center LLP (hereinafter referred to as the NSOC) was established with 100% participation of the state, which is a subordinate organization of the Ministry of Health of the Republic of Kazakhstan (hereinafter referred to as the Ministry of Health of the Republic of Kazakhstan).

**Location and contact details**

Nur-Sultan, Kerei Zhanibek Khandar str., 3

**State license for educational activities in the residency (date, number)**

The license for educational activities was re-issued from the RSCEMC to the NSOTC, No. KZ81LAA00007958 dated December 13, 2016.

**Information on branches, subsidiaries (if any)**

Not available

**Year of implementation of the accredited educational programme (EP)**

The residency programmes are implemented in accordance with the Rules for the organization of the educational process in the residence of the NSOC, approved by order of the Chairperson of the Board of the NSOC dated July 5, 2019 No.106-OD.

**Duration of training**

3 years

**Total number of graduates since the beginning of EP implementation**

36

**Number of residents on EP since the beginning of the current year**

The Center trains 10 residents in the specialty of anesthesiology and resuscitation adult, including children’s.

**Full-time trainers/Combiners involved in the implementation of EP, incl. % of degree**

5 faculty members (1 Candidate of Medical Sciences) are involved in work with residents, 4 have the highest qualification category in the specialty.
Note: The Center has introduced elements of institutional autonomy. Academic freedom implies the independence of the development and implementation of the EP, within the framework of the standard curricula, of the SCES (21.02.20). Freedom in drawing up the EP is achieved when describing the syllabuses, CED, IEP, WEPL, the form, structure and procedure for the development of which is determined by the organization independently. The EP is considered at the meetings of the PDO department and the Academic Council.

Assessment of academic achievements of residents is carried out by various forms of control, which are determined by the Center independently "Academic Policy 03.07.2021". Instrumentation, training methods, and monitoring of residents' achievements, approved at the meeting of the department, are subject to further review and approval by the SC. Specialty 7R091111 "Anesthesiology and intensive care (adult, children)" - new, compiled in accordance with the requirements of the State Committee on Education and Science (21.02.2020), entered into the Republican Register of Educational Programmes.

Admission of persons to the residency is carried out on a competitive basis on the basis of the results of the entrance examination. The admission commission is organized from the teaching staff of the NSOC with the participation of the administration. Persons who have scored at least 75 out of 100 on the examination are enrolled in the residency. Persons who scored the highest points on the exam (Order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020 No. KR DSM-270/2020. Registered in the Ministry of Justice of the Republic of Kazakhstan on December 15, 2020 No. 21802 "On approval of the rules for placing a state order, admission to education and training of medical personnel in the residency").

The selection/selection of teachers is carried out in accordance with the "Human Resources Management Programme of LLP (NSOC)", personnel autonomy follows from the possibility of internal and external search for candidates for a vacant position. Internal search provides the ability to use the personnel reserve in the first place. The further multi-level system of selection of candidates contributes to the effective selection of personnel by professional, business, moral qualities using modern technologies. The NSOC has an EP that meets the requirements of the SCES (21.02.2020), is staffed with employees with clinical experience and scientific titles, training is carried out on the basis of the Scientific Center, where there are sufficient resources for training resident oncologists. Persons who have completed training in the educational programme of the residency and successfully passed the final certification are awarded the qualification "doctor" in the relevant specialty of the residency and a certificate of completion of residency is issued.

The EP of the residence meets the international requirements and the 8th level of the national framework of qualifications in medical education and the Structure of qualifications in the European Higher Education Area.

Training of resident anesthesiologists-resuscitators is carried out at the Center with personal participation in the treatment process, both in class time and during independent work. Conditions and means have been created for the personal participation of residents in the provision of medical care at the level of PHC and hospital. Practical training is carried out through the daily personal participation of a young specialist in medical activities using methods of diagnosis and treatment based on evidence-based medicine, the acquisition of practical skills provided for in the curriculum, and work to promote a healthy lifestyle. The department of anesthesia, resuscitation and intensive care for adults, where residents are trained, has 12 beds. Anesthesia is performed in:

- Operating - 10
- Center for Interventional X-Ray Surgery - 2 halls
- Center of expert endoscopy – 1 hall
- Awakening room for 6 beds

The main work of the center is to ensure the safety of patients in
perioperative period, qualitative anesthesia, prevention of complications and adverse reactions, creation of favorable conditions for the surgeon's work. We believe that the availability of such a training base is sufficient.

Methods of training residents include: seminars, webinars, conferences, case-studies, training, team-oriented training (TBL); training based on simulation technologies, role-playing games, brainstorming method, group discussion method, portfolio, combined survey, small group training method, simulation technologies, presentations.

The material and technical equipment of the NSOC makes it possible to effectively implement active methods of training (analysis of clinical cases, maintenance of medical records, examination of the quality of medical care, management of patients, training in a clinic with the participation of a real patient, training in primary health care, attendance at medical conferences, consultations, teaching using web-technologies); training through research (participation in the NSC).

The analysis of teaching methods, the examination of the quality of educational programmes is carried out regularly by the Department of postgraduate education, through mutual attendance of classes, participation of teaching staff in scientific and methodological seminars, conferences.

2.2. Information on previous accreditation
In 2019, NSOC LLP underwent institutional accreditation of postgraduate and additional education organizations (continuing professional development), certificate No. IA00021 dated 04.10.2019. This educational programme is accredited for the first time.

2.3 Conclusion on the results of the review of the report on the self-assessment of the educational programme in the specialty "Anesthesiology and intensive care" of the National Scientific Oncology Center LLP for compliance with the Standards of accreditation of postgraduate programmes (specialty of residency) of medical organizations of education and conclusions.

The report on the self-assessment of the educational programme "Anesthesiology and intensive care (adult, children)" (hereinafter – the report) is presented on 132 pages of the main text, 41 tables, copies or electronic versions of 30 documents located at rezidentura2010@mail.ru

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. Attached to the report is a cover letter signed by the Chairperson of the Board, Candidate of Medical Sciences G.U. Kulkaeva, which confirms the reliability of quantitative information and information included in the self-assessment report.

The report contains a list of 25 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 – Zhukubayeva A.A., Head of the Education Department.

The self-assessment of the educational programme Anesthesiology and intensive care (adult, children), was carried out on the basis of the order of the head No. 324-OD dated 09.12.2021 "On the creation of a working group for conducting a specialized self-assessment and writing a report"

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.

In all standards, the real practice of "National Scientific Oncology Center" LLP for the training of residents in the specialty "Anesthesiology and Resuscitation, Adult, including Pediatric" is given, taking into account the beginning of admission of students in 2022, reasoned data, examples of 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 Urology and adult andrology, including 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 Chairperson of the Board of "NSOC" LLP Kulkaeva G.U. Dates of the visit to the organization: 29/03/2022-31/03/2022.

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 2 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 – 15 people in total;
• interviews with residents – 14 people;
• study of the website http://cancercenter.kz;
• interviewing 15 employees, 15 teachers;
• questionnaires of teachers and residents - 6 and 11, respectively;
• observation of the training of residents: attendance at 1 practical lesson (Subject: Sepsis, septic shock "surname, name and patronymic of the teacher Umbetzhano E.U., the contingent of students: residents of 2 years of training, venue: classroom, lectures);
• review of resources in the context of the implementation of accreditation standards: 5 departments of the practice/clinical training bases of the National Scientific Oncology Center LLP were visited, where training is carried out on 1 educational programme with the participation of 6 full-time teachers/ part-time employees;
• study of educational and methodological documents in the amount of 10 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).

Thus, when implementing the activities of the programme, namely, based on the results of the interview with the first head of the organization, members of the advisory body – the SC, in interviews with residents and teachers, compliance with the criteria of Standard 1 was established.
All participants in the educational process know the mission of the 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 (2021-2025) was reviewed, including such areas as the development of human resources and research activities, the redistribution of the source of income for the economic development of the NSOC, the allocation of monetary assets to academic potential, information support and digitalization of processes, increasing the satisfaction of employees with their work, employers, students - the conditions and process of training, which confirms the fulfillment 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 practical classes on the topic of "Sepsis, septic shock" in the classroom, and "Sepsis" in the amount of 2 hours, the experts received convincing data that the training is carried out according to the plan, before the beginning of the lesson, the residents respond to tests, receive feedback from the teacher, have the opportunity to improve the skill in the diagnosis and intensive therapy of sepsis, septic shock. The organization ensures compliance with ethical aspects in the implementation of the educational programme, since the experts studied the code of ethics and during the interview, the residents replied that they were informed about the content of this document.

While attending a practical lesson and seminar on the topic "Sepsis, septic shock" in the classroom, and on the topic "Sepsis" in the amount of 2 hours, and talking with residents, experts saw that the organization contributes to the development of practical competencies of residents. 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.

Table 1 -Information about the number and category of participants in meetings, interviews, interviews with members of the EEC
A review of the monitoring and measurement tools (tests, situational tasks, written examinations) showed that the organization has implemented an appropriate evaluation policy that allows for a multifaceted assessment of the learning achievements of residents. During the interview, the residents spoke about the forms of assessment, in addition to the traditional sections of knowledge (testing, written exam), for example, in the morning when discussing patients before the operation, teachers ask residents theoretical questions about the patient's disease, regarding the diagnosis of this nosology, and tactical approaches to treatment, if the resident did not demonstrate a sufficient level of theoretical readiness should be punished in the form of suspension from participation in the operation. According to the residents, it is established that this type of knowledge assessment strongly motivates the residents to prepare for surgical intervention both theoretically and practically, and the residents are satisfied with the fairness of this type of assessment. And also this rating system allows you to get instant feedback from the teacher. The system of appealing the results of the assessment is reflected in the document (according to the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600. Registered with the Ministry of Justice of the Republic of Kazakhstan).
Kazakhstan on October 31, 2018 No. 17650 "On approval of the Standard Rules for admission to training in educational organizations that implement educational programmes of higher and postgraduate education", the Rules for admission to the residency for 2020-2021 academic year, approved by the Board, Protocol No. 6 dated January 15, 2020.) and during the work of the organization of education there were no precedents of appeal. Thus, compliance with standard 3 has been established.

During the visit to the organization and during the interview with the Head of the Education Department A.A. Zhukubayeva, the commission made sure that there is a system and documentation that is transparent and accessible to all teachers and employees, and includes such documents as annual operating plans, annual reports, regulations of departments, contracts with teachers and residents and educational and methodological documentation (work programme, work curricula, syllabuses, journal, evaluation tools (checklists, sheets), certificates and certificates. A review of the website showed that its pages contain the necessary calendar and thematic lesson plans for residents, schedules of the semi-annual assessment, rotation schedules of residents by office, approval of supervisors, and Rupa, which is regularly updated. This information was obtained during an interview with residents and with the head of the department of education Zhukubayeva A.A.

The conversation with A.A. Zhukubayeva, Head of the Department of Education, included such questions as "How many practical health care doctors are involved as mentors of residents?" "How is the selection of applicants for the residency carried out?" "Are scientific achievements or results of other student activity taken into account in the selection of applicants for admission to the residency?" and allowed experts to learn about approaches to attracting staff of clinical bases for teaching (a total of 6 such teachers), about the strategy and tactics of recruitment of residents, information security of the educational programme, as well as to identify problems in the management and development of human resources. The National Research Center has not approved a plan for improving the qualifications of teaching staff in pedagogy for the next 5 years, but all teachers have certificates for improving the qualifications in pedagogy with a statute of limitations of no more than 5 years.

Interviews with 5 teachers, including 4 full-time teachers, showed that there are both successes and problems in educational management, depending on the specific base (admission of residents to the equipment, sufficient number of thematic patients, time for maintaining medical records, independent work). The main clinical base in the NSOC does not provide emergency anesthesia and intensive care within the framework of the GVFMC, therefore, there is a certain shortage of training for residents to provide emergency care. 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 found that there is a sufficient number of teachers to implement the educational programme. 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 number of teachers at the Centre holding a degree or/and academic rank is more than 76 %. From 2017 to 2019, the PGE Department organized training for teaching staff on the following topics: Management in Health Care - 216, Methodology of Teaching in Medicine - 108, Technology of Evidence-Based Medicine in Clinical and Management Practice - 54, Communication skills of team work - 108, Quality management system in the organization of health care - 216, Management of scientific research in clinical and management practice – 216.

Teachers have enough time for teaching, mentoring, stimulate the need for additional training and independent work with literature.

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 with medical documentation, satisfaction with teaching methods and qualifications of teachers, social and moral support for residents in need, participation in "Morning medical conferences with reports", the availability of resources of international databases of professional literature. In general, residents are satisfied with the training, assessment methods, and purposefully entered this organization, since they believe that the organization of education has good resources, image and international relations, at the same time, residents have a fairly high level of independence in the management of patients. Residents are interested in more active participation in academic mobility programmes abroad, and participation in international conferences and symposia.

Residents showed their commitment to the organization of education, were active in answering the questions of external experts, demonstrated their judgment on the organization of training, assessment of their skills, advisory support, opportunities to participate in research, funding, demonstrated proficiency in English when answering the questions of foreign expert Ryzhkin S.A. Experts studied the documents of residents (portfolio, results of assessment of residents checklists, results of questionnaire of residents).

Interviews with 3 employers were conducted online and included such issues as: knowledge of the mission of the NSOC, participation in the development of the mission and proposals in 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 Center and residents with the necessary resources for practical training and the formation of clinical thinking about the problems of interaction with the teaching staff of the Center. The percentage of employment of graduates of the educational programme implemented in the NSOC was 80 %. In general, during the interview with employers, positive feedback was received about the quality of training of specialists and their competence as angiosurgeons.

A review of the resources showed that they correspond to the goals and objectives of educational activities, for example, clinical bases were visited: departments of NSOC, and employees of the educational organization provide collegial and ethical relations with medical staff, 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.

The educational programme ensures the compliance of the content of the residency programme with the requirements of the State Standard of the Republic of Kazakhstan, and the training of residents is carried out in accordance with the principles reflected in the State Standard of the Republic of Kazakhstan.

Teaching and learning methods correspond to the ultimate learning objectives. Residents actively participate in the provision of medical care, applying the acquired theoretical knowledge and thereby developing the ability to assume responsibility in various clinical situations. The implementation of the educational programme is carried out using the principles of quality, academic honesty, and the "Anti-plagiarism" programme is also introduced and applied. The organization provides a student-centered approach, and this is confirmed in the report. The principle of mentoring of residents is implemented in the NSOC, and this activity is regulated in the Regulation on mentoring developed and approved by the Academic Council. In addition to obtaining academic knowledge, residents acquire other useful skills through the implementation of socially important activities (sanitary education, work in general education institutions, etc.). The introduction of a competency-based approach to the educational
process ensures the development of knowledge, skills and professional attitude corresponding to different roles of the doctor. The educational programme can be adjusted in accordance with the expectations and requests of employers and the wishes of residents, as demonstrated in the report (feedback study). The self-assessment report describes in detail the structure, composition and duration of the educational programme, clearly defining the mandatory component and the component of choice. The training of urologists is carried out on the basis of an analysis of the needs of the regional health system. The programme takes into account the final results of training, clearly describes the minimum number of procedures and surgical interventions that a resident doctor must perform in each year of his training. When planning the educational programme, equal representation is ensured and the needs of all stakeholders are taken into account. LLP (NSOC) has all the accreditation requirements, in which they provide a planned anesthetic benefit, including in operations of a highly specialized nature.

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. The experts individually completed the "Quality profile and criteria for external evaluation of the educational programme: " Anesthesiology and intensive care (adult, children)" 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 of Turgunov E.M. held a final open vote on the recommendations for the ECAQA Accreditation Council on the accreditation period – 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 NSOC, 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.

4. Results of the survey.

The ECAQA observer conducted an online questionnaire on 29-31.03.2022 at https://webanketa.com/.

The resident survey includes 24 questions. In total 58 people (in total 70 residents for the current year) answered. Residents of the 2nd year of study – 55.2%, 1 year – 24%, 4 years of study - 12.2% and 1 year - 8.6% predominated out of the total number of respondents.

This university will be recommended as an educational organization – about 78% fully agree, 17% partially. Fully agree 93% of those surveyed and 7% partially agree that programme managers and faculty are aware of their learning challenges. Fully (79%) and partially (10%) satisfied with the conditions and equipment of the teaching rooms, classrooms of the university. According to 85% (fully) and 5% (partially) office equipment is available for residents on the basis of practice. Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes - fully agree 83%, partially – 14%. Fully (57 per cent) and partially (16 per cent) satisfied with the library collection and resources. 52% of the respondents are engaged in scientific work under the guidance of their teacher or mentor and 21% believe that they are partially engaged. According to 88%, the organization of clinical training for residents fully satisfies them, and 9% partially. Satisfied completely (94%) and partially (3%) with the schedule and sufficient time for practical training (patient supervision, etc.). Satisfied with the methods of assessing my knowledge and skills – more than 90% fully agree, partly 9%. According to 84% of teachers in the classroom use active and interactive teaching methods regularly, and according to 2% - rarely.
According to 97% of respondents, teachers constantly provide feedback after completing classes and only "sometimes" and "rarely" by 2%. 48% of residents say that seminars are held once a week, and 31% 2-3 times a week and 10% daily. Completely satisfied that 98% study at a higher education institution, can not answer – 2%. Fully (78%) rated the organization of clinical training as "excellent" and "good" (22%). 97% of residents are proud of their clinical mentors. According to 88% of respondents, accreditation is a necessary mechanism for improving educational programmes, but 5% believe that it is not necessary to conduct and 7% doubt the answer. The most important tool of external expert assessment, which allows to draw conclusions about the quality of educational programmes, 57% of residents consider interviews with residents, 45% attendance at practical classes and seminars, 57% interviews with mentors.

The survey of teachers included 23 questions of the questionnaire. In total 9 people answered, thus pedagogical experience till 5 years – at 22%, till 10-and years - 44%, more than 10 years - 33%

77.78% are completely satisfied with the organization of the educational process, and 11% are partially satisfied. The university observes ethics and subordination completely agree 88%, partially – 11%. Fully satisfied with the organization of work and workplace 88% of respondents, partially 11%. In the organization there is an opportunity for career growth and competence development to teachers - 77% completely agree, partially – 22%

In this educational institution, teachers have the opportunity to do scientific work and publish the results of research – 88% completely agree, partially disagree - 11%. 44% of respondents are completely satisfied with a salary, partially -33%, not satisfied – 11%. The majority of those surveyed in the last 5 years have undergone advanced training, so 66% have completed training in the last year. The majority of 88% fully agree that can be realized as professionals, and 11% - partially. When asked whether the university supports the teacher in participation in international and republican events, 77% answered positively, and 11% did not address this to the management or relevant administrative employees of the university. The majority of respondents (77%) fully agree, and 22% partially agree that residents have free access to patients and clinic resources. At the practical lesson, teachers provide residents primarily with syllabuses (100%), control and measuring tools (77%), cases (88%). The level of prior training of residents upon admission to training programmes is fully satisfactory to 33% of respondents, and partially – to 33%. About implementation of social programmes of support of teachers 33% don't know and doubt about their existence 22% of respondents. The management and administration systematically listen to the opinion of teachers – 88%, there is no answer – 11% of respondents. Various training methods are used in the training of residents, but more often oral surveys and analysis of the topic (77% respectively), analysis of situational problems (77%), work in small groups (44%), practical classes in clinical skills at the training and clinical center – 55%, also problem-oriented training (44%), test solution (55%), less often perform projects (22%). Completely according to 77% that this questionnaire will be useful for the development of recommendations for improving the university and educational programmes of the residency, 22% partially agree with this.

The results of the survey in general demonstrate satisfaction with the educational process, the resources of the clinical base, the competencies of teachers, and also indicate the existence of centralized management of educational programmes.

5. Analysis for compliance with accreditation standards based on the results of an external evaluation of the educational programme of the residency in the specialty "Anesthesiology and Resuscitation" of "National Scientific Oncology Center" LLP

Standard 1: MISSION AND END OUTCOMES
Evidence of compliance:
1.1 Mission statement and deliverables
The mission of the educational programme is defined and subsequently updated in 2021, the public and the health sector are widely informed about the mission of the educational programme through the website of the center and various events. The mission takes into account the needs of practical health care, and the recruitment and training of specialists is carried out on the basis of monitoring the needs of specialists in health care organizations in the Republic of Kazakhstan.

1.2 **Professionalism and professional autonomy**
Mandatory duty of residents (48 hours) in an urgent clinic allows to form professional skills and professional autonomy during independent clinical decisions. The self-report fully reflects the autonomy of the medical organization in the formation of the educational programme, assessment and admission to the residency, selection of personnel for the educational process. Academic freedom of students is reflected in the Rules on the Organization of the Educational Process and the Control of Success. The self-assessment report details the final results of training in the residency, details all the skills, abilities and competencies that a graduate of the residency in the Educational Programme Anesthesiology and Resuscitation, including adult and pediatric, should have.

1.3 **Learning outcomes**
The EP pays great attention to the formation of practical skills, the solution of diagnostic and clinical situations in patients with concomitant pathology. The main result of the training is the formation of an independent highly qualified doctor, with the need for continuous improvement of his qualifications and professional skills.

1.4 **Participation in the formulation of the mission and final results**
All stakeholders involved in the process of forming the mission of the EP, and residents, faculty members, clinical mentors, administrative staff, patients, employers, other support staff and graduates.

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

**Standard 1: Implemented**

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

1. Improvement of the educational process - development and implementation of effective innovative technologies in the educational process;
2. Search for partners and create joint educational programmes;
3. Activation of resident participation in the implementation of the Institute's STP;
4. Participation of residents in master classes, improvement cycles with the participation of leading foreign specialists;
5. Increasing the social responsibility of not only the teaching staff, but also the residents themselves for the quality of mastering the educational programme;
6. Improvement of pedagogical skills of teaching staff;
7. Strategic partnership with foreign partners in the specialty of Anesthesiology and Resuscitation;
8. Increase in the number of clinical bases.

**Standard 2: EDUCATIONAL PROGRAMME**

**Evidence of compliance:**

**2.1 Postgraduate programme framework**
The report on the self-assessment of the educational programme Anesthesiology and Resuscitation Adult, including the children's LLP "National Scientific Oncology Center" determined the model of the educational programme on the basis of the established learning outcomes of residents and their qualifications, which ensures the systematic and transparent learning. The report provides convincing evidence with references to regulatory documents.
2.2 Scientific method
In the process of training, residents master the basics of evidence-based medicine and use scientific data in their practice.
There is practically no integration of the Department of Anesthesiology and Resuscitation in the scientific research of the Center and therefore residents in this specialty do not participate in them and do not use such knowledge in the process of their training.

2.3 Content of the residency programme
The organization provides a student-centered approach, and this is confirmed in the report. The principle of mentoring of residents is implemented in the NSOC, and this activity is regulated in the Regulation on mentoring developed and approved by the Academic Council.

2.4 Programme structure, content and duration
The division of disciplines by hours and semesters is carried out by the PGE. 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. The self-assessment report describes in detail the structure, composition and duration of the educational programme, clearly defining the mandatory component and the component of choice. The training of urologists is carried out on the basis of an analysis of the needs of the regional health system. In these students for Pavlodar region. The programme takes into account the final results of training, clearly describes the minimum number of procedures and surgical interventions that a resident doctor must perform in each year of his training. When planning the educational programme, equal representation is ensured and the needs of all stakeholders are taken into account.

2.5 Organization of training
The main clinical base is the LLP (NSOC) for 12 beds of the Department of Anesthesiology and Resuscitation and 20 operating rooms, where anesthetic aids are provided - these are patients who are oncological, vascular, urological, general surgery aimed at scheduled surgery. For training in emergency anesthesiology and intensive care discipline, residents are rotated to emergency hospitals of the city of Nur-Sultan. LLP (NSOC) has all the accreditation requirements, in which it provides planned anesthetic care and intensive therapy.
Teachers with experience of work - insufficient degree of teaching staff (one candidate of sciences working in another medical institution) should participate in the process of studying with doctors resident anesthesiologists-resuscitators. Academicity implies the experience and knowledge gained by the teacher in the process of teaching at the university, the research institute, and the teachers in the subject of anesthesiology and resuscitation, it is insufficient;

2.6 Relationship between postgraduate medical education and health care
On clinical bases, residents are distributed to their mentors – doctors from practical health care, with at least 5 years of experience, who have the highest qualification category. Under the guidance of a mentor, residents acquire practical skills in diagnosis and treatment from performing simple manipulations to assisting and independently performing anesthesia, central vein catheterization manipulation, and various types of blockades. Feedback is regularly exchanged between the mentor and the resident, since daily interaction in the clinic implies an analysis of clinical thinking, an assessment of the resident's communication skills.

Conclusions of the EEC on the criteria. Compliance with 31 standards: fully -29 (20/9), partially -2 (2/0), non-compliant - 0.
Standard 2: Implemented
Recommendations for improvement identified during the external visit:
1. Increase the involvement of residents in the implementation of scientific projects with results in the form of publications and speeches at conferences;
2. To document the representation of residents in the development and updating of the educational programme through inclusion in the academic advisory body or the creation of a council of residents;
3. Ensure that the process of developing, approving and regularly updating elective discipline programmes is documented and that the views of residents are taken into account based on regular feedback.

Standard 3: ASSESSMENT OF STUDENTS

Evidence of compliance:

3.1 Methods of evaluation
Assessment of knowledge of residents is carried out through current, milestone and final control. The assessment is based on an oral survey of topics, testing, a written examination and demonstration of practical skills. In order to objectify the evaluation process, independent experts are involved. When conducting the final state certification to assess the educational achievements of residents, the commission includes practitioners of health care, external examiners are involved. The results of students' academic achievements are recorded in the electronic and paper educational journal and form examination sheets. Training logs are filled in accordance with the calendar and thematic plan, in accordance with the schedule and the dates of the current, milestone and final control reflected in the syllabus.

3.2 Relationship between evaluation and training
The methods used to assess the competencies of students at NSOC LLP are defined in syllabuses for disciplines that are discussed and approved by the PGE department. The evaluation criteria are announced in the first lesson for each discipline, and are also presented in the syllabus on the NSOC website. Confirmation of the effectiveness of the education received is based on the results of feedback from the resident – an anonymous questionnaire, very acceptable to the resident, fair, adequate to the skills and corresponds to their future specialty. Evaluation of reports according to the rotation schedule allows to assess the development of the resident's competencies: personal interest, professional competence, communicative, personal qualities, scientific interest.

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

Recommendations for improvement identified during the external visit:
1. Develop a system for assessing the performance of scientific work and the formation of a portfolio of residents.
2. Develop a procedure for assessing the resident's independent work on simulation simulators in the simulation room, improve it with the necessary equipment for training resident anesthesiologists
3. Implement the use of electronic systems (Platonus, Sirius, etc.) and the registrar's office for digitalization and transparency of resident assessment methods.
4. Activate the publications of resident anesthesiologists-resuscitators (3.1.4).
5. Qualitative questionnaires, careful analysis of questionnaires, changes in plans for further work to improve the quality of the educational process

Standard 4: STUDENTS

Evidence of compliance:

4.1 Admission and Selection Policy
Those wishing to enter the residency can submit documents according to the approved schedule. All the necessary information regarding admission to the residency is available on the website. Applicants for admission to the residency can get advice from the education department. Also, during the examination, it was established that the procedure for conducting examinations was worked out, during which an examination commission is formed, which includes the most experienced, qualified teachers of the NSOC who have an academic degree. There is a list of questions for the entrance exam. Also, when admitting to the residency, in addition to assessing the level of knowledge, the personal achievements of the applicant, the results of previously performed research work are also taken into account. The transparency of the selection of applicants for the residency is ensured by the video recording of the examination.

4.2 Number of residents
The number of residents admitted within the framework of the state order is regulated by the DPHR of the Ministry of Health and Social Development of the Republic of Kazakhstan and depends on the demand for specialists in the country as a whole. Residents are also trained within the order from local executive bodies, on the basis of the emerging need of specialists. There is also a limited recruitment of residents for training on a fee basis based on the needs of the center. The organization monitors the needs of specialists in the regions, collects feedback from LEB and the number of selected residents varies from year to year depending on the needs of practical health care.

4.3 Resident support and advice
Each resident has a clinical mentor with whom they have a close business relationship. In case of difficulties or any difficulties in the educational process or work, the information from the resident comes first to the clinical mentor, who can solve the issues at his level or, if necessary, inform and involve the rest of the faculty members and the center management in solving the problem.

4.4 Representation of residents
Residents take part in the formation of the educational process and evaluation methods. The NSOC LLP has introduced surveys, questionnaires, including questions on the schedule, methods of training and assessment, conditions of training in clinics, the availability of methodological and information and communication materials, relations with teachers. Based on the results of the survey of residents, plans for corrective and preventive measures were developed, a proposal was made for the EP to provide greater autonomy and require greater activity during duty and during daily activities at the clinical base.

4.5 Working conditions
The center has all the conditions for comfortable work of residents (there is a wardrobe, a place for eating, residents are provided with personal protective equipment, there is protection against X-rays during X-ray control operations).

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

**Standard 4: Implemented**

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

1. Inclusion of resident students in associations and organizations of postgraduate education in the process of developing the policy of admission and selection of students for postgraduate education programmes.
2. Enabling systematic planning, execution and documentation of practice-based learning
3. Actively involve students in the residency in the work of the collegial bodies of the NSOC, professional associations and public associations.
4. Residents' wishes: to reward residents for achievements in scientific and by reducing the cost of training or awarding scholarships.
5. Development of social partnership of the Center with professional associations of employers in the direction of expanding the range of educational programmes and increasing competitiveness in the labor market;
6. Design of competent-oriented educational programmes for residents of anesthesiologists and resuscitators in accordance with the requirements of the labor market

Standard 5: FACULTY
Evidence of compliance:
5.1 Recruitment and Selection Policy
Systematic work on the training and retraining of scientific and pedagogical personnel is carried out in the NSOC. The personnel policy of the center is carried out by concluding employment contracts, as well as competitive filling of vacant positions in accordance with the rules of the current legislation. Effective and open criteria for recruitment and appointment of teachers are applied by the management, which guarantees equal employment opportunities. The teaching staff is provided with all the necessary means and resources for the effective implementation of the educational programme. There is free access to computers and the Internet.

5.2 Teachers' obligations and development
The scope of activities of the teaching staff and the criteria for training and evaluation are adjusted in accordance with the latest achievements of medical science, correlate with changes in the Mission of the educational programme for residency. Pas is provided with equal opportunities for continuous professional training, which are consistent and contribute to the achievement of the mission and final results of the training. The activities of the teaching staff are planned in accordance with an individual plan, includes educational and methodological, clinical, research work. In accordance with this, appropriate refresher training cycles are organized for teaching staff, confirming certificates of advanced training of teaching staff are filed in the personal files of employees.

Conclusions of the EEC on the criteria. Compliant with 7 standards: fully -6(5/1), partially – 1 (1/0), non-compliant – 0.

Standard 5: Implemented
Recommendations for improvement identified during the external visit:
1. Involvement of foreign professors in the educational process.
2. Targeted financing and recruitment of teaching staff to the administrative and managerial staff of the Center.
3. Improvement of pedagogical skills of teaching staff in the specialty of anesthesiology and resuscitation. Programmes for the development of teachers and mentors in the specialty of Anaesthesiology and Resuscitation, including children's

4. Involvement in the pedagogical process of teachers with academic experience in universities - candidates, doctors of sciences, doctoral students in the specialty of anesthesiology and resuscitation
5. 5) Organization of cooperation with leading foreign centers and organization of exchange programmes for residents with an appropriate level of knowledge of English and high academic achievements to the educational process.
6. Organization of joint research projects with foreign scientific centers.
7. Expand the range of innovative teaching and learning methods used in the educational process and provide teachers and mentors with regular improvement in teaching methods with
documented confirmation of results (certificates).

8. Draw up and implement a plan for improving the professional and pedagogical competencies of teachers of departments and include training on improving communication skills and psychology.

**Standard 6: EDUCATIONAL RESOURCES**

**Evidence of compliance:**

**6.1 Logistics and equipment**

NSOC LLP has a fairly extensive material and technical support, during the expert assessment a sufficient number of lecture halls, study rooms, a simulation classroom, a library was demonstrated. The existing material and technical base makes it possible to effectively implement the educational programme. A study of the operating unit was also conducted, where practical skills are directly acquired by residents. The department of anesthesia, resuscitation and intensive care for adults, where residents are trained, has 12 beds.

Anesthesia is performed in:

- Operating -10
- Center for Interventional X-Ray Surgery - 2 halls
- Center of expert endoscopy – 1 hall
- Awakening room for 6 beds

The main work of the center is to ensure the safety of patients in the perioperative period, high-quality anesthesia, prevention of complications and adverse reactions, creating favorable conditions for the work of the surgeon. The availability of such a training base is considered sufficient for the training of residents of the specialty of anesthesiology and resuscitation.

**6.2 Clinical Bases**

The NSOC has a sufficient bed capacity, there are highly specialized departments in which residents acquire practical skills in conducting anesthesia and intensive therapy and for training in the discipline "Emergency Anesthesiology", residents are rotated in the organization, where emergency anesthesia benefits are provided around the clock at a modern level.

Residents attend a simulation class to practice their skills.

**6.3 Information technology**

A unified information space has been built in NSOC LLP, the therapeutic process is carried out using an electronic system. Modern information and telecommunication technologies have been introduced, and thanks to this, the teaching staff has access to relevant electronic educational resources.

**6.4 Clinical Teams**

Residents from the first days join the teams of NSOC, where they acquire skills to work in a team and learn to effectively interact with other health care professionals. Also, in addition to medical work, residents together with the staff of clinical departments participate in scientific and practical conferences, and work in multidisciplinary teams. Working in multidisciplinary teams when choosing the tactics of managing the most complex patients increases the responsibility of residents when they see that performance depends on the correct organization of teamwork. In such situations, the resident performs all work within his competence.

**6.5 Medical Research and Advances**

Residents carry out research work within the framework of independent work of residents under the guidance of a mentor-teacher, and this helps to consolidate the acquired theoretical knowledge, practical skills and use them in their daily routine practice.

**6.6 Education expertise**
The Department of Education of NSOC LLP demonstrated that continuous work is carried out to assess the quality of the educational programme being implemented in the residency (planning, development, evaluation, implementation and monitoring of EP), teaching staff, employers and students by residents, the Quality Management System Department.

6.7 Training in other institutions
NSOC LLP has all the necessary documentation to ensure the academic mobility of residents and their training in other organizations of Kazakhstan and countries near and far abroad. No documents confirming outgoing academic mobility were provided, justified by the severe epidemics in the world and quarantine restrictions.

Conclusions of the EEC on the criteria. Compliance with 21 standards: fully -20 (10/10), partially – 1(1/0), non-compliant - 0

**Standard 6: Implemented**

**Recommendations for improvement identified during the external visit:**
1. Continue to equip the simulation room with simulation simulators to develop practical skills of central vein catheterization, puncture and catheterization of the epidural space, spinal anesthesia, various types of blockades.
2. Develop a mechanism for motivating and attracting residents to research activities in the specialty being studied.

**Standard 7: PROGRAMME EVALUATION**

**Evidence of compliance:**

7.1 Monitoring and evaluation mechanisms
During the expert assessment, the management of NSOC LLP demonstrated the measures and supporting documents of these measures aimed at continuous monitoring of the educational programme. Evaluation tools and results of evaluation during interim and final certification are provided. The document "Regulations on the organization of the educational process and monitoring the performance of residents, dated 24.04.2020" is presented.

7.2 Feedback from teachers and residents
Opportunities have been created for teachers and residents to participate in the evaluation and subsequent improvement of the educational programme on a regular basis. Also, on a systematic basis, feedback from consumers of medical services provided at the NSOC, where resident doctors are participants and executors of the treatment process, is assessed and the questionnaire of patients clearly demonstrates the competence of residents and the development of their communication skills.
To assess the feedback from teachers and residents, the blog of the Chairperson of the Board is also used, where it is possible to directly receive answers from the first head of the NSOC.
In general, the use of feedback contributes to a better understanding of the current needs of students and teachers and is systematic when making changes to the educational programme.

7.3 Results of Residents and Graduates
In the process of external expert evaluation of the activities of the NSOC, it was established that 100% of residents received a specialist certificate and were employed in medical institutions of the Republic of Kazakhstan in a specialty. Also, during the conversation with employers, positive feedback was received about the graduates of the EP Anesthesiology and Resuscitation of Students in the walls of the NSOC.

7.4 Stakeholder Engagement
During the evaluation of the implementation of the EP in the NSOC, the education department demonstrated evidence of the involvement of all stakeholders in improving the educational programme.

### 7.5 Procedure for Approval of Educational Programmes

The procedure for approval of the educational programme is structured as follows. The PGE Department carries out an assessment for compliance with the SCES. Further, the catalog of elective disciplines is approved on the basis of the needs of residents, employers' requests, and according to the trajectories of specialist training, taking into account pre- and post-requisites. Also, the teaching staff of NSOC demonstrated the systematic study and comprehensive assessment of EP in order to improve it. A competent representative of practical health care is also involved in the assessment. The Center has developed mechanisms for the approval of educational programmes, which provide for the evaluation of programmes at the stages of planning, implementation, analysis of results and implementation of changes, which allows monitoring the process of implementation of educational programmes and the progress of residents, and ensures the identification and timely solution of emerging problems.

According to Order No.157 of the Ministry of Health and Social Development, the center uses medical and preventive institutions of the city as a clinical base on the basis of contracts. According to these agreements, clinical bases are jointly responsible for the quality of training of future specialists, the provision of high-quality educational facilities, ensuring access to patients and modern diagnostic equipment.

**Conclusions of the EEC on the criteria. Compliant from** 15 standards: fully -15, partially -0, non-compliant - 0

**Standard 7: Implemented**

**Recommendations for improvement identified during the external visit:**
1. Specify the method of evaluation of training programmes in the specialty "Anesthesiology and resuscitation, including children’s.
2. Strengthen feedback to graduates, residents and employers to improve educational programmes.
3. Carry out regular monitoring of the educational process and the activities of the department of postgraduate education by developing and implementing an annual plan, including open classes, mutual attendance of classes and examination of educational and methodological documentation. Results of all activities and document.
4. To optimize the conduct, processing and analysis of the results of feedback from residents, teachers, mentors and employers through the introduction of electronic questionnaires, followed by informing all participants of the educational process about the results and making improvements to the educational programme.

**Standard 8: GOVERNANCE AND ADMINISTRATION**

**Evidence of compliance**

**8.1 Resource Management**

**8.2 Academic Leadership**

The following documents were provided during the expert review of the EEC:

1. Tripartite agreements for residents enrolled in grants at the expense of the LEB "Center – Health Department or Healthcare Institution – Residence Student".
2. Standard rules for admission to education, implementing educational programmes of higher and postgraduate education, which determine the procedure for admission of citizens to the residency. Procedures for admission and selection of residents.
3. The developed and approved main internal document "NSOC", which defines the scope of duties and powers of the Center in relation to the EP residency.

4. "Academic Policy" (decision of the Board, Minutes No.5 dated August 28, 2019).

5. The results of the assessment of residents and the achievements of the final results of training under the residency programme.

6. Annual orders of the chairperson of the board on the conduct of the FSA and the composition of the attestation commission.

The implementation of EP by residency is carried out in accordance with the regulations approved by the Ministry of Health of the Republic of Kazakhstan and the Government of the Republic of Kazakhstan, as well as the internal rules for the organization of the educational process in the residency.

8.3 Training budget and resource allocation
The management of the NSOC clearly demonstrates the distribution of funds allocated to support the educational process. From the self-assessment report and the documentation provided, it was noted that the center did not finance academic mobility for the period from 2019 to 2021, the acquisition of fixed assets was last carried out in 2018. No supporting documentation was provided on the availability of mentor rates in the staff list of the NSOC.

8.4 Administration and Management
NSOC LLP has an appropriate administrative and academic staff according to the staff schedule, the functional responsibilities of which include support and implementation of the educational programme. Also, the PGE department of LLP NSOC demonstrated the developed quality management programme, including regular internal and external reviews and audits.

8.5 Requirements and regulations
The NSOC LLP follows the definition of the national authorized bodies of the number and recognized medical specialties and other functions of medical experts, for the training of which postgraduate training programmes are developed.

The educational programme of the residency, specialty 7R09126 "Anaesthesiology and Resuscitation (Adult, children's)", is implemented in the NSOC. In addition, the Center conducts training seminars for practicing anesthesiologists, specialized chief freelance specialists of the Republic of Kazakhstan, medical experts on the application of clinical protocols for the diagnosis and treatment of urological diseases in practical health care.

Conclusions of the EEC on the criteria. Compliant from 15 standards: fully -15, partially -0, non-compliant - 0

Standard 8: Implemented

Recommendations for improvement identified during the external visit:
1. Identify competitive positions in the labor market in the specialty of anesthesiology and resuscitation, including adult and paediatric, take into account the high need of the country as a whole for personnel in anesthesiology and resuscitation;
2. Preparation of educational activities in accordance with the needs of employers;
3. Strategic partnership with practical healthcare for the development of a competency model for a graduate, the development and implementation of educational programmes;
4. Provide in the programme for the development of education in the residency funding: training of residents on alternative bases, where this is justified; mobility of teachers; participation of residents and teachers in national and international professional events.

Standard 9: CONTINUOUS RENEWAL
Evidence of compliance:
The developed personnel policy of the NSOC, which reflects the priorities for the formation of human resources and criteria for the selection of personnel, including scientific, pedagogical and clinical merits of candidates.

Cycles of advanced training of teaching staff not only in the specialty, but also in the acquisition and possession of pedagogical competencies.

Plans for further training of teaching staff in accordance with the changing needs for postgraduate medical education.

Developed refresher courses for doctors of practical health care taking into account modern requirements and the development of medical science and technology. Purchase and equipping of the Urology Center with modern medical equipment. Application of simulation technologies in the educational process.

**Conclusions of the EEC on the criteria.** Compliant with 4 standards: fully -4(1/3) partially - 0, non-compliant – 0.

**Standard 9: Implemented**

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

1. Digitalization, active implementation of paperless document management and office management;
2. Increased funding for academic mobility programmes for residents and faculty, participation of the center's staff in conducting multicenter clinical studies;
3. Further improvement of the material and technical base of the Center.

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6. **Recommendations for the improvement of the educational programme "Anesthesiology and Resuscitation (Adult, children's)":**

<table>
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<tr>
<th>Standards</th>
<th>C. Recommendations</th>
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<tr>
<td>1</td>
<td>- When updating the mission of the educational programme, take into account the needs of the NSOC in the provision of medical care and issues of social responsibility of the organization implementing postgraduate education.</td>
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<tr>
<td>2</td>
<td>- Include in the educational programme the training of residents in the management of scientific research and medical statistics in the form of a component of choice as a pre-requisite for further admission to the master's and doctoral programmes of PhD. Include in the thematic plan the implementation and protection of scientific projects to strengthen the scientific component of resident learning. Increase the involvement of residents in the implementation of scientific projects with results in the form of publications and speeches at conferences;</td>
</tr>
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<td>3</td>
<td>- To develop a system for assessing the performance of scientific work and the formation of a portfolio of residents. - Develop a procedure for assessing the resident's independent work on simulation simulators in the simulation room.</td>
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<tr>
<td>5</td>
<td>- Develop and approve annually a plan for improving the professional and pedagogical competencies of teachers, including abroad, and include training in improving communication skills and psychology</td>
</tr>
<tr>
<td>7</td>
<td>To optimize the conduct, processing and analysis of the results of feedback from residents, teachers, mentors and employers through the introduction of electronic questionnaires, followed by informing all participants of the educational process about the results and making improvements to the educational programme.</td>
</tr>
</tbody>
</table>
7. Recommendation to the ECAQA Accreditation Council
Members of the EEC have established the compliance of the educational programme "Anesthesiology and intensive care (adult, children)". Accreditation standards and agreed unanimously to recommend to the ECAQA Accreditation Board that the programme be accredited for a period of 5 years.

Chairperson of the External Expert Commission
Magyarov Valentin Manarbekovich

Foreign Expert
Ryzhkin Sergey Alexandrovich

National Academic Expert
Mustafin Alibek Khamzenovich

National Academic Expert
Zhumashev Ualikhan Koshkaralievich

National Academic Expert
Yesenkulova Saule Askerovna

National Academic Expert
Trynkin Alexey Viktorovich

National Academic Expert
Slavko Elena Alekseevna

National Academic Expert
Bazarbayeva Aigul Abayevna

National Academic Expert
Ulanbek Zhanbyrbekuly

Expert - Representative Of Employers
Ospanovamadinaeralyevna

Expert - Resident Representative
Baymukhanov Dauren Samarkhanovich
### Quality profile and criteria for external evaluation of the educational programme

*(generalization)*

<table>
<thead>
<tr>
<th>Standard</th>
<th>Evaluation Criteria</th>
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<th>Partially compliant</th>
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| Total: | 151 | 147 | 4 | 151 |
List of documents studied by EEC members within the framework of the accreditation of the educational programme: Oncology (adult)

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<thead>
<tr>
<th>№</th>
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<tr>
<td>1</td>
<td>State license of the Committee for Control in the Sphere of Education and Science of the Republic of Kazakhstan dated December 13, 2016 No.KZ81LAA00007958</td>
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<td>&quot;Rules for the organization of the educational process in the residence of the NSOC&quot;, approved by the order of the Chairperson of the Board of the NSOC</td>
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<td>July 5, 2019 No.106-OD.</td>
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<td>Educational (working) programme, approved by EMC NSOC.</td>
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<td>Concepts for the development of NSOC</td>
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<td>August 1, 2019 No.420.</td>
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<td>Provisions on &quot;Temporary scientific collectives&quot;</td>
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<td>Regulations on the Academic Council</td>
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