

**REPORT**  
**OF THE EXTERNAL EXPERT COMMISSION**  
**ON THE RESULTS OF EVALUATION OF THE EDUCATIONAL**  
**PROGRAMME IN THE SPECIALTY**  
**7R09120 "NEUROSURGERY, INCLUDING CHILDREN'S"**  
**OF ASFENDIYAROV KAZNMU FOR COMPLIANCE WITH**  
**ACCREDITATION STANDARDS FOR POSTGRADUATE EDUCATION**  
**PROGRAMMES (RESIDENTURE SPECIALTIES) OF MEDICAL**  
**EDUCATION ORGANIZATIONS**

**period of external expert evaluation: 18.11.-20.11.2020**

**1. Composition of the External Expert Commission**

In accordance with ECAQA Order No. 18 of 23.10.2020, an External Expert Commission was formed to conduct accreditation of educational programmes of residency specialties of Asfendiyarov KazNMU in the period 18-20.11.2020 in the following composition:



**Chairman of the External Expert Commission**

TURGUNOV ERMEK MEYRAMOVICH,  
Doctor of Medical Sciences, Professor of the  
Department of Surgical Diseases of the NJSC  
"Medical University of Karaganda", President of the  
NGO "Surgical Association of the Karaganda  
Region", a member of the International Surgery  
Society, a member of the "Association of  
Independent Experts of Astana" and the "Union of  
Independent experts of KSMU "



**Foreign expert**

KASHIRSKAYA NATALIA YURIEVNA,  
Doctor of Medical Sciences, Professor, Chief  
Researcher, Laboratory of Genetic Epidemiology,  
Federal State Budgetary Scientific Institution  
"Medical Genetic Research Centre named after  
Academician N.P. Bochkov",  
Moscow, Russian Federation



**National academic expert**

JUMALINA AKMARAL KANASHEVNA,  
Doctor of Medical Sciences, Professor, Head of the  
Department of Pediatric Diseases with Neonatology  
NJSC "West Kazakhstan State Medical University  
named after Marat Ospanov"



**National academic expert**  
RAMAZANOVA RAYGUL  
MUKHANBETOVNA,  
MD, Head of the Hematology Course  
JSC "Kazakh Medical University of Continuing  
Education"



**National academic expert**  
ESENGARAYEVA SAULE DAMIROVNA,  
Ph.D., Head of the Department of Medical  
Rehabilitation with the Course of Sports Medicine  
JSC "Kazakh Medical University of Continuing  
Education"



**National academic expert**  
BEKETOVA BAYAN BEISENGALIEVNA,  
Candidate of Medical Sciences, Assistant of the  
Department of Clinical and  
radiation oncology  
NJSC "Semey Medical University"



**National academic expert**  
AKHMETOVA ALMIRA KALIKAPASOVNA,  
Candidate of Medical Sciences, Associate Professor,  
Head of the Department of Dermatovenereology and  
Cosmetology  
NJSC "Semey Medical University"



**National academic expert**  
URAZOVA SALTANAT NURGOZHAEVNA,  
Doctor of Medical Sciences, Associate Professor of  
the Department of General Medical Practice with a  
course of evidence-based medicine  
NJSC "Astana Medical University"



**National academic expert**

KALIEVA SHOLPAN SABATAEVNA,  
Candidate of Medical Sciences, Associate Professor,  
Head of the Department of Clinical Pharmacology  
and Evidence-Based Medicine  
NJSC "Medical University of Karaganda"



**National academic expert**

ZHANTELIEVA LAZZAT ASANOVNA,  
Doctor of Medical Sciences, Deputy Chairman of  
the Board for Research Work of JSC "Scientific  
Centre of Urology named after B.U.Dzharbusynova  
"



**National academic expert**

MADYAROV VALENTIN MANARBEKOVICH,  
Doctor of Medical Sciences, Head of the  
Department of Surgery with a course of  
anaesthesiology and resuscitation, Non-Profit  
Organization "Kazakhstan-Russian Medical  
University"



**National academic expert**

SADIEVA ZHANAR ZAMANKHANOVNA,  
anaesthesiologist-resuscitator, head of the  
postgraduate education department of the South  
Kazakhstan Medical Academy JSC



**National academic expert**

LOVINSKAYA ANNA VLADIMIROVNA,  
Senior Lecturer of the Department of Molecular  
Biology and Genetics, Al-Farabi Kazakh National  
University, Senior Researcher of the Research  
Institute of Biology and Biotechnology Problems of  
the RSE "Al -Farabi Kazakh National University"



**Expert Representative of Practical Health**  
ZHOLDASBAYEVA KYRMYZY  
ZHUMABEKOVNA,  
Deputy Chief Physician for Childhood  
PSE on REM "City polyclinic No. 1", Almaty



**Expert Representative of Practical Health**  
NARTPAEVA ASELE TARASOVNA,  
acting Deputy Chief Medical Officer  
PSE on REM "City polyclinic No. 30", Almaty



**Expert - resident representative**  
BAYASHOV ERDOS NURIDINULY,  
resident physician for 3 years of training in the  
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**Expert - resident representative**  
TARASYUKOV ALEXANDER ANDREEVICH,  
resident physician for 3 years of training in the  
specialty  
"Anaesthesiology and resuscitation, including  
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Non-Profit Organization "Kazakhstan-Russian  
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**ECAQA Observer**  
UMAROVA MAKPAL ALDIBEKOVNA  
Head of Accreditation and Monitoring Department

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

The EEC report contains an assessment of the educational programme of residency in the specialty 7R09120 - "Neurosurgery, including children's" of KazNMU for compliance with the Accreditation Standards programmes of postgraduate education (specialty residency) of medical educational institutions of ECAQA, recommendations of the EEC on the further improvement of the educational activities of the university in the field of postgraduate education.

## **2. General part of the final report of the EEC**

### **2.1 Presentation of Asfendiyarov KazNMU and the educational residency programme in the specialty 7R09120 - "Neurosurgery, including children's"**

In 2020, KazNMU turns 90 and in 2018 the university was reorganized into a non-profit joint-stock company (hereinafter - NJSC) by the Resolution of the Government of the Republic of Kazakhstan dated April 5, 2018 No. 166 and received the status of a research university (resolution of the Ministry of Health of the Republic of Kazakhstan dated 12.11.2018).

In accordance with the Strategy of KazNMU for 2019-2023, the basis of KazNMU's activities is the trinity - the integration of academic, scientific and clinical activities in order to provide high-quality and modern medical care to the population and training of professional personnel. In this regard, by 2018, the university included 5 republican state enterprises, including: JSC Scientific Center for Obstetrics, Gynecology and Perinatology, JSC Scientific Center for Pediatrics and Pediatric Surgery, JSC Scientific Research Institute of Cardiology and Internal Medicine, JSC "Kazakh Research Institute of Oncology and Radiology", JSC "Scientific Center of Surgery named after A.N. Syzganov".

KazNMU is one of the founders of the Academic Demanding League, which aims to improve the quality of education by implementing and promoting the principles of academic honesty. The international information and analytical platform Web of Science in November 2019 awarded KazNMU an independent award "Leader in publication activity in the Web of Science Core Collection over the past 5 years among medical universities of the Republic of Kazakhstan."

KazNMU cooperates with 102 universities, medical and scientific organizations of the near and far abroad, including with TOP-500 universities, implementing joint scientific, research and educational projects.

KazNMU is a full member of international Associations: International Association for Medical Education in Europe (AMEE), European Association of Dental Education (ADEE), World Federation of Dentists (FDI), European Federation of Dentists (EROFDI), European Association of Universities (EUA), International Association of Universities (IUA), the Association of Higher Schools of Management (GSM Barcelona), the World Federation of Pharmacists, the Association for Distance Education "Siberian Open University", the Association of Schools of Public Health in Europe (ASPHER). In 2015, KazNMU became a member of the Association of European Medical Schools (AMSE) and the Organization of PhD Education in Biomedicine and Health Sciences in the European System (ORPHEUS).

Residency was introduced in accordance with the Law "On Education". The first admission to residency was held in 2008. The first issue of residents was carried out in 2010.

For 2020, residency is being implemented in 44 specialties, including 19 educational programmes being accredited for the first time. 605 residents studied at KazNMU from 2017 to 2020. The University trains residents on the basis of 104 clinics, polyclinics, research institutes, and scientific centers. University clinics are: clinic "Aksai", clinic of internal diseases of KazNMU, professorial clinic of KazNMU, dental clinic.

Thus, KazNMU is an innovation-oriented and socially responsible university, a leader in the Republic of Kazakhstan and Central Asia in multi-level training of competitive healthcare and pharmacy specialists through the implementation of a competence-based model of medical and pharmaceutical education with the wide involvement of domestic and foreign scientists and a constant increase in scientific research. potential.

The main educational, scientific and clinical structural unit of the University, which coordinates training at the second stage of medical education in one or more related specialties, is the Dean's Office of Internship and Residency, renamed from August 3, 2020 to the Faculty of Postgraduate Education. The dean's office unites all the departments related to the specialties included in the internship and residency, as well as those general scientific and fundamental departments that, in terms of the content of their work, are closest to the profile of the second level of higher medical education.

## **2.2 Information on previous accreditation**

Accreditation of the educational programme of residency in the specialty 7R09120 - "Neurosurgery, including children's " has not yet been carried out.

## **2.3 Analysis of the report on self-assessment of the educational programme of residency in the specialty 7R09120 - "Neurosurgery, including children's "**

Self-assessment report educational programme presented on 113 pages of main text, attachments on 4 pages.

The report is characterized by the completeness of answers to all 9 accreditation standards, structuredness, taking into account the recommendations of the ECAQA Self-Assessment Guidelines, as well as the internal unity of the information provided to the accredited educational programme. The report is accompanied by an accompanying letter signed by the rector prof. T.S. Nurgozhin confirming the accuracy of the information and data contained in the report.

The report contains information about the representative of KazNMU, responsible for the self-assessment of educational programmes, Ph.D. Zhankalova Zulfiya Meirkhanovna, Dean of the Faculty of Postgraduate Education.

Self-assessment of educational residency programmes carried out on the basis of the order on the basis of the order dated 04.08.2020 No. 337 "On approval of the composition of the working group for preparation for accreditation educational programmes of specialties of residency ".

The working group on the preparation of the self-assessment report has done a certain amount of work: the content of the accredited educational programme, the conditions for its implementation, staffing, educational resources have been analysed, the necessary information has been collected in accordance with Accreditation standards for postgraduate education programmes (residency specialties) of medical educational organizations (hereinafter referred to as accreditation standards); a thorough analysis, updating and addition of methodological and educational materials was carried out, their content is reflected in the report. The content of the Self-Assessment Report is structured in accordance with the ECAQA Accreditation Standards and includes a description of strengths, areas for improvement for each of the 9 standards.

## **2.4 General assessment of the educational programme of residency of the specialty 7R09120 - "Neurosurgery, including children's" for compliance with the Standards of accreditation of postgraduate education programmes (specialty residency) of medical educational organizations.**

Based on the analysis of the self-assessment report by external experts, it was found that the content of the self-assessment report is structured in accordance with the ECAQA accreditation standards and the recommendations of the Self-Assessment Manual, at the same time, based on the results of the expert evaluation, recommendations for adjustments were made, which were taken into account by the working group.

The report is written consistently in compliance with the logic in the description of the standards, the wording for each standard is clear and understandable, the tables contain references in the text and are numbered consecutively. There are links to regulations, model rules, regulations, educational documents, website pages <https://kaznmk.kz/rus/postupajushhim/postdiplomnoe-obrazovanie/rezidentura/>

The self-assessment and description were carried out in accordance with the criteria of the ECAQA accreditation standards and the questions formulated in the Self-Assessment Guidelines were

answered. All standards show actual practice of KazNMU for training residents in the specialty 7R09120 - "Neurosurgery, including children's" taking into account the beginning of the admission of residents, 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. Self-assessment report description fairly complete and updated in terms of the number of residents, teachers, administration, information on the selection and admission, the results of training, the results of the assessment of knowledge and skills, the material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, development plans and improvement, etc.

Conclusion on each of the 9 accreditation standards includes a description of the strengths and areas for improvement identified in the course of introspection and development prospects for the specialty.

Thus, the self-assessment report of the accredited educational residency programme of KazNMU contains objective, detailed, structured information on all types of activities in accordance with the ECAQA accreditation standards, and the university made the appropriate corrections in the report at the expert evaluation stage.

### 3. Description of external expert evaluation

External expert work on the assessment of the educational programme of residency 7R09120 - "Neurosurgery, including children's" of KazNMU was organized in accordance with the Guidelines for the external assessment of educational organizations and educational programmes of ECAQA (approved by order of the Director General of the "Eurasian Centre for Accreditation and Quality Assurance in Higher Education and Healthcare" No. 5 2017) and according to the programme and schedule approved on 08.11.2020 by the Director General of ECAQA Sarsenbayeva S.S. and agreed with the rector T.S. Nurgozhin.

To obtain objective information on the expert assessment of the accredited educational programme, the members of the EEC used the following methods: interviews with management and administrative staff, interviews with residents, observation, study of the website, interviewing employees of various structural units, teachers, questionnaires of teachers and residents, review of resources in the context of the implementation of accreditation standards, the study of 24 educational and methodological documents both before the visit to the university and during the visit.

The KazNMU staff ensured the presence of all persons indicated in the visit programme and according to the lists of interview sites (Table 1).

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

No.	FULL NAME.	Position
1.	Bayldinova Clara Zhenisovna	Vice-rector for academic affairs
2.	Zhankalova Zulfiya Meirkhanovna	Dean of the Faculty of Postgraduate Education
3.	Tashetova Aigul Balabekovna	And about. Director of the Department of Academic Affairs
4.	Nagasbekova Bayan Serikkanovna	Head of Human Development Department resources
5.	Kulzhakhanova Samal Sagatovna	Head of the Alumni Career Centre
6.	Tulepbaeva Gulzhan Sovetovna	Head of Clinical Department
7.	Tuleyev Bakhyt Izidinovich	And about. director of the university clinic
8.	Saliev Timur Muydinovich	Head of the B.A. Atchabarova
9.	Syzdykova Aigul Temirbulatovna	Deputy CFO
10.	Modovov Nurbol Alimbaevich	Library manager
11.	Zhanbolatova Gulnara Abzhanovna	Deputy library manager

12.	Nurmakhanova Zhanna Makhmutovna	Head chair
13.	Israilova Venera Karypbekovna	Head chair
14.	Akhmetova Gulsim Zhumagalievna	Head chair
15.	Rakhimov Kairolla Duisembaevich	Head chair
16.	Nersesov Alexander Vitalievich	Head chair
17.	Talkimbaeva Naylya Anuarovna	Head of the simulation centre
18.	Nurmakhanova Zhanat Makhmutovna	Committee of educational programmes
19.	Ensegenova Zoya Zharbulatovna	Committee of educational programmes
20.	Kaliev Meruert	Secretary Academician committee
21.	Sugraliev Akhmetzhan Begalievich	Associate Professor of the Department of Internal Medicine
22.	Mominkulov Aydar Ordabekovich	Associate Professor of Pediatric Surgery
23.	Medeubekov Ulugbek Shalkharovich	Head of the Department of General Surgery
24.	Israilova Venera Karypbekovna	Head of the Department of Resuscitation
25.	Habizhanov Askar Bolatovich	Associate Professor at the Department of Dermatovenereology
26.	Salimbaeva Damilya Nurgazyevna	Associate Professor of the Department of Medical Genetics
27.	Nadyrov Momunzhan Talgatovich	Head of the Department of Plastic Surgery
28.	Kalmanova Ayman	Resident
29.	Ali Sultan	Resident

The sequence of the visit within 3 days is detailed in the Visit Programme, which is in the documentation of the accreditation centre and in the annex to this report.

**The first day of the visit is 11/18/2020.**

An interview with the management and key employees of KazNMU made it possible to determine the fulfillment of most of the criteria of accreditation standards 1, 2, 5, 7, 8, 9, namely, to identify approaches in developing the mission of the educational programme and its compliance with the strategic goals of the university, the role and place of postgraduate education in clinical direction in the strategy of the university (plan), mechanisms in determining the appropriate specialty of residency of clinical sites and qualified teachers, guaranteeing the adequacy of educational resources through planning public procurements and concluding agreements with country and international partners (more than 100 contracts). Realizing that the accredited residency programme is relatively new, since the first enrollment of the student took place in 2019-2020, the experts studied the documentation in detail,

The experts found that KazNMU strictly adheres to the requirements of regulatory legal acts and SCES in the implementation of educational programmes, and the management systematically monitors this process during internal audits (QMS, mutual control, control of the vice-rector for academic work, reporting, etc.).

The basis for effective management is the Quality Assurance Policy of KazNMU and the "Policies of the Chairs" developed at the departments of residency, as well as adherence to the Quality Guidelines when documenting the educational process (QMS has been constantly supported and certified since 2012).

Conversation with the Dean of the Faculty of Postgraduate Education Zhankalova Z.M. allowed experts to learn about approaches to attracting employees of clinical bases for teaching residents, about the strategy and tactics of recruiting residents for different specialties, information security of postgraduate education, as well as identifying problems in the management and development of human resources, since most practicing doctors do not know the teaching methodology.



The conversation with the head of the Neurosurgery Department made it possible to find out about the teaching staff involved in the preparation of residents of the accredited educational programme, about the clinical bases where residents are trained, about the appointment of clinical mentors, the development and implementation of the accredited educational programme, methods of its assessment.

### **The second day of the visit is 11/19/2020**

This day was devoted to visiting clinical bases for the implementation of residency programmes, including scientific centres and research institutes affiliated with KazNMU (Research Institute of Internal Diseases, Scientific Centre of Obstetrics, Gynecology and Perinatology, Scientific Centre of Oncology). At clinical sites, experts surveyed the resources of the accredited educational programme, their compliance with residency training courses, accessibility for teachers and residents, how modern this equipment is and meets the needs of students and practical health care.

The experts obtained evidence of compliance with accreditation standards 2 and 6, as well as validation of the information in the self-assessment report of the educational programme.

On the same day, interviews with teachers, residents and employers (representatives of practical health care) took place. It is necessary to take into account the fact that there was no graduation under the accredited educational programme, therefore it was not possible to interview graduates, however, the experience and authority of KazNMU in training residents (since 2007) shows a high percentage of employment (> 90%) of graduates of other programmes residencies and their demand by medical organisations in all regions of Kazakhstan.

Interviews with teachers, as providers of the residency programme, showed that there are both successes and problems in the management of the educational programme, depending on the specific clinical base (access of residents to equipment, a sufficient number of thematic patients, time for maintaining medical records, independent work of residents). The experts received answers about the teacher training programme, the financing of this training, the availability of certification in teaching methods for teachers.

On the same day, experts studied materials on the admission of residents and the selection of teachers.

Residents were interviewed to validate the performance of the self-assessment report data and to obtain evidence of the quality of the programmes. 154 residents attended. The experts asked questions about satisfaction with studying at the university, sufficient time for practical training, supervision of patients and work with medical records, as well as satisfaction with teaching methods and qualifications of teachers. In general, residents are satisfied with the training, assessment methods, and purposefully entered this university, since they believe that KazNMU has excellent clinical bases and experience in teaching residents, at the same time, residents would like more independent work with patients, especially prompt assistance and more modern literature and interactive teaching methods when dealing with complex cases. Residents believe

Residents showed their commitment to the organisation of education, were active in answering questions from external experts, demonstrated their judgment on organizing training, assessing their skills, consulting support, opportunities to participate in research and development, funding, etc.). The experts studied the documents of residents (portfolio, results of assessment of residents-checklists, results of a questionnaire survey of residents).

Interview with 34 employers for all the educational programmes of residency of KazNMU declared for accreditation were conducted online and included such issues as: knowledge of the university mission, participation in the development of the mission and proposals in the strategic plan, participation in the deliberative bodies of KazNMU, satisfaction with the basic knowledge and skills of residents, participation in training residents through mentoring, providing the department and residents with the necessary resources for practical training and the formation of clinical thinking, about the problems of interaction with departments and universities in general, employment of graduates of residency, etc.

A review of resources showed that the clinical base of the Almaty Multidisciplinary Clinical Hospital corresponds to the goals and objectives of the accredited educational programme in the specialty 7R09120 - "Neurosurgery, including children's", according to the profile of beds, the number of thematic patients, modern equipment and its availability to all students, and the staff of the department provide collegial and ethical relations with the medical staff, the leadership of the clinical base to achieve the final results of the educational programme. The clinical base has 1 training room, which is enough for 3 residents and most of the time residents spend at the patient's bedside and in diagnostic departments. Before starting the relevant discipline of the educational programme,

Based on the results of the visit to the clinical base, it should be noted that the material and technical equipment of the training room is weak. In addition, there is no equipment for practicing the practical skills of residents of neurosurgeons in the simulation centre.

### **The third day of the visit November 20, 2020**

The experts examined the documentation neurosurgery course, which confirmed the compliance of accreditation standards (nomenclature of affairs of the department, plan for 5 years, annual plan for 2019-2020 academic year, journal of residents' progress, EMCD, feedback questionnaires with residents, teachers, reports on the results of questionnaires and measures taken, code of ethics, etc., control and measuring instruments), including documentation (syllables, portfolios and individual work plan of residents) at the request of EEC members.

Then a meeting of the EEC members took place following the results of the external evaluation. A final discussion of the results of external assessment, study of documents, results of interviews, interviews, questionnaires was held. The members of the EEC began to design the final report of the EEC.

A meeting of the EEC members took place. EEC members made generalizations of the results of the external evaluation. The experts individually completed the "Quality profile and the criteria for external assessment of the NIC for compliance with the Accreditation Standards for the residency programme 7R09120 - "Neurosurgery, including children's". No comments were made by the EEC members on the accredited EP. Recommendations for improving the postgraduate education sector in general and the department implementing the accredited educational programme were discussed. A draft report with recommendations was prepared.

Chairperson of the EEC prof. Turgunov E.M. a final open vote on recommendations for KazNMU and a final vote on recommendations for the ECAQA Accreditation Council were held. Then the Chairperson of the EEC for the management and employees of the educational organisation announced recommendations based on the results of an external assessment in the framework of accreditation of educational programmes for residency specialties.

**Questioning.** An observer from ECAQA in November 16-18, 2020 conducted an online survey of KazNMU residents and teachers on the resource <https://webanketa.com/>.

### **Residents survey results:**

The total number of responding residents - 154... Of the total number of respondents, residents of the specialty "family medicine" prevailed - 40%, further on the list: pulmonology - 12%, clinical pharmacology - 12%, therapy - 11%, pediatric oncology and hematology - 6%, general surgery 4%, pediatric surgery - 3%, medical genetics - 2%, other specialties - 1% each.

Will recommend this university as an educational organization - 69% fully agree, partially - 26%. 71% of the respondents fully agree and 23% partially agree that programme managers and teaching staff are aware of their learning problems. Fully (64%) and partially (29%) are satisfied with the conditions and equipment of classrooms and classrooms of the university. According to 62% (in full) and 26% (in part) office equipment is available for residents in practice bases. Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes - 73% fully agree, partially - 22%. Fully (72%) and partially (25%) are satisfied with the library fund and resources. 76% of respondents have access to electronic educational resources, and 20% believe that it is partially.

The organization of clinical training for residents in the opinion of 81% fully satisfies them, and 15% partially. Fully (74%) and partially (22%) are satisfied with the teaching methods. There is enough time for practical training (supervision of patients, etc.) - 82% fully agree, partly 13%. Satisfied with the methods of assessing my knowledge and skills - 78% fully agree, partially 21%. According to 73% of teachers in the classroom, they use active and interactive teaching methods regularly, and according to 23% - rarely.

According to 81% of the respondents, teachers constantly provide feedback after the end of classes, but according to 16% - sometimes and 2% - rarely. 81% of respondents are fully satisfied that they are studying at a university, partially 16%, disappointed - 1% of respondents. The university allows you to improve or acquire the necessary knowledge and skills in the chosen specialty of residency 82% are sure, 7% are not sure, 9% cannot give an answer, 1% would like to believe it, 1% began to doubt it. Fully (76%) and partially (23%) are satisfied with the organization of teaching at KazNMU.

According to 71% of respondents, accreditation is a necessary mechanism to improve educational programmes, but 12% believe that it is not necessary to carry out and 14% doubt the answer. The work of the EEC was assessed as positive - 74%, satisfactory - 14%, i.e. most.

### **Results of the survey of teachers of residency programmes:**

The total number of teachers on the list is 40. The total number of respondents is 39, including those with up to 5 years of experience - 18%, up to 10 years - 21%, over 10 years - 62%. 59% are fully satisfied with the organization of the educational process, partially - 33%. At the university, ethics is observed and subordination is fully agreed by 72%, partially - 26%. 67% of respondents are completely satisfied with the organization of work and workplace, partially 26%. In the organization there is an opportunity for career growth and development of competence for teachers - 67% fully agree, partially - 26%.

In this educational organization, teachers have the opportunity to engage in scientific work and publish research results - 72% fully agree, 23% partially. 59% of respondents are fully satisfied with the work of the personnel department, 28% are partially satisfied. The majority of those surveyed have undergone advanced training for the last 5 years. Only 69% fully agree that they can realize themselves as professionals, and 29% partially. Unfortunately, 33% did not answer the question of whether the university supports the teacher in participating in international and national events, and 21% did not address this to the management or the relevant administrative staff of the university. The majority of respondents (74%) fully agree, and 23% partially agree that residents have free access to patients and clinic resources. In a practical lesson, teachers provide residents primarily with syllables (87%), control and measuring instruments (90%), case studies (72%). The level of prior training of residents upon admission to training programmes is fully satisfied by 28% of respondents, partially - 62%. 58% of respondents do not know about the implementation of social programmes to support teachers and 8% of respondents doubt about their existence. Management and administration systematically listen to the opinion of teachers - 28%, sometimes - 28% of respondents. When teaching residents, a variety of teaching methods are used, but more often work in small groups (74%), analysis of situational tasks (90%), oral questioning and analysis of a topic (74% and 87%, respectively), also problem-oriented training (62%), solving tests (64%), less often cases are compiled and solved (56%). Completely according to 59%,

The results of the questionnaire are presented in the appendix and, in general, demonstrate the positive aspects of training in residency programmes, at the same time, they identify areas for improvement (social support programmes for teachers, availability of leadership and administration for teachers and residents, pedagogical competencies and professional development of teachers).

### **Conclusion from the external evaluation:**

Members of the EEC have carefully studied and assessed the main indicators of the accredited educational programme. The information received by external experts during the study of the self-

assessment report, preparation of a written review with recommendations for improvement, implementation of the activities of the visit programme of KazNMU was analysed. All the information received was compared with the data of the self-assessment report, which made it possible to make sure of the accuracy of the information provided to KazNMU and supporting documents for compliance with the ECAQA Accreditation Standards.

Despite the fact that in the self-assessment report of the educational programme, KazNMU described its best practice in observing accreditation standards, during the external expert evaluation, the EEC members studied the main documents (mission, strategic plan until 2023, teaching materials of disciplines, syllables, control and measuring instruments, checklists, portfolio of residents, individual plans of residents for the 2019-2020 academic year, publications of teachers, rules for admission to residency, personnel policy, internal quality assurance system programme, resources for training were viewed directly at the clinical bases of departments (classrooms, office equipment available for residents to work with literature, patient documentation, educational and methodological literature), which made it possible to identify the compliance of the educational organization with the basic accreditation standards.

When conducting an external examination, the Rules for the training of medical personnel in residency were taken into account (order of the Minister of Health of the Republic of Kazakhstan dated September 18, 2018 No. KR DSM-16), paragraph 13. It was established that the clinical bases of all residency programmes are 106, which provide training for all levels of medical care (from primary health care to highly specialized). The accredited educational programme has 1 clinical base, of which 1 was visited by experts. 1. The volume of study load and treatment and prophylactic work in specialties is determined by the individual work plan of the student of residency (item 14) for one year and is monitored by monthly reports of the resident in any form. The accounting of completed tasks is drawn up in the form of a portfolio according to the recommendations in the syllabus.

In connection with the new edition of order No. 647 On the approval of state compulsory standards and standard professional training programmes for medical and pharmaceutical specialties dated July 31, 2015 (as amended by the order of the Ministry of Health of the Republic of Kazakhstan dated 02.21. [No. KR DSM-12/2020](#) Chapter 2. Requirements for the content of residency educational programmes with a focus on learning outcomes), the educational programme has undergone changes and additions in relation to the development of the research competence of residents, which must participate in the work of the research team.

In this regard, the experts assessed the involvement of residents in research and development. There is no general provision or requirements for the implementation of scientific work at the university, at the same time, the departments conduct proactive research in which residents participate through writing reviews, collecting patient data, analysing the literature and patient examination results, preparing reports and presentations at conferences). Also, in accordance with Article 222 of the Residency of Clause 4 of the Code of the Republic of Kazakhstan On People's Health and the Healthcare System No. 360-VI ZRK dated July 7, 2020, external experts studied the activities and held conversations with mentors of residents, and it was established that each resident was provided with a mentor.

The experts took into account the fact that the accredited educational programme for the current state educational standard is being implemented for 2 academic years, therefore, at this time there is no graduation of students, nevertheless, the entire educational, methodological, personnel and resource base has been assessed for compliance with accreditation standards. Through interviews with teachers and interviews with students, it was possible to determine their direct participation in the development (CEPs, meetings of departments), the assessment of educational programmes (CEP), decision-making on a number of key issues in the choice of clinical sites, topics of electives, participation in the appeal commissions for admission and assessment of residents, development of the content of individual plans of residents and selection of mentors.

At the same time, this substantiated the need for inclusion in post-accreditation monitoring, along with the implementation of the EEC recommendations, an analysis of the implementation of the criteria of Standard 9, an annual report on the contingent of students.

Recommendations for improving activities in the implementation of the educational residency programme in the specialty 7R09120 - "Neurosurgery, including children's" on compliance with the Accreditation Standards, developed by the EEC based on the results of the expert assessment, were presented at a meeting with the management on November 20, 2020.

The programme of the 3-day visit of the external expert evaluation of the EEC has been fully completed. On the part of the KazNMU team, the participation of all persons indicated in the programme is ensured.

Thus, the external assessment and the visit of the EEC members made it possible to verify and validate the data of the self-assessment report of the residency programme in full in accordance with the Regulation on the External Expert Commission, the Guidelines for the external assessment of the medical organization ECAQA education.

For the work of the EEC, comfortable conditions were created, access to all necessary information and material resources of the accredited educational programme was organized. Experts note the high level of corporate culture and discipline of those responsible for postgraduate education of KazNMU employees, departments, employees of clinical bases, a high degree of openness of the team in providing information to members of the EEC.

The clinical base where the residents are trained - the largest scientific centre in the country with specialized departments, highly qualified personnel, allows creating conditions for high quality training for residents under the educational programme 7R09120 - "Neurosurgery, including children's".

#### **4. Analysis for compliance with accreditation standards based on the results of an external assessment of the educational programme of residency in the specialty 7R09120 - "Neurosurgery, including children's" KazNMU and an overview of the strengths for each standard.**

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

Mission of the educational programme of the specialty 7R09120 - "Neurosurgery, including children's" is aimed at realizing the mission of the University by training a qualified doctor, a specialist in neurosurgery, with a system of universal knowledge and professional competencies, capable and ready for independent professional activity in the treatment of neurosurgical diseases.

The educational programme was developed collegially (minutes of the meeting of the department No. 10 dated 04.24. 2019) and approved at a meeting of the CEP (No. 5 dated May 14, 2019), the Academic Council (No. 6 dated 06/12/2019) and the Academic Council of the University (No. 10 dated June 19, 2019).

The mission of the EP was brought to the attention of all employees of departments, residents by posting on the university website ([www.kaznmu.kz](http://www.kaznmu.kz), website "Residency").

Educational programme 7R09120 - "Neurosurgery, including children's" contains theoretical and practical components that enhance the clinical training of the resident. The programme allows you to prepare a competent specialist neurosurgeon doctor who is able to work at a high professional level, independently and independently, as well as in a team, ready for lifelong learning and participation in continuous medical education and continuous professional development.

##### **Strengths:**

- 1) A well-structured mechanism for informing the mission both vertically and horizontally;
- 2) The ability to train residents at the bases of leading medical and prophylactic and the city of Almaty contributes to the implementation of the mission and the final results.

**Conclusions of the EEC on the criteria.** Out of 17 standards conform: completely - 14, significantly - 3, partially - 1, do not correspond - 0.

**Standard 1: completed**

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

- 1) Strengthen the implementation of practical health care innovations in the educational process.
- 2) Provide credible information regarding the definition of a mission based on consideration of the health needs of society

## **Standard 2: EDUCATIONAL PROGRAMMES**

Consistency, transparency of the educational programme in the specialty 7R09120 - "Neurosurgery, including children's »On the basis of the established final learning outcomes of residents and the qualifications they receive, which is ensured by the independent development and implementation of the EP, complies with the content of the residency programme to the requirements of the State Educational Standard of the Republic of Kazakhstan and the model of residents' competence developed by KazNMU (patient supervision, communication and collaboration, safety and quality, public health; research learning and development)...

The qualifications obtained as a result of the completion of the study programme of residency correspond to the level of the national qualifications framework in medical education and the Qualifications Framework in the European Higher Education Area (ESG 1.2). The use of focused training practices contributes to the formation of responsibility when working with patients with the personal participation of residents in the provision of medical care, independent and active training

The structure of the educational programme by specialty 7R09120 - "Neurosurgery, including children's » formed in accordance with the State Standard of Education 2017, 2020 and provides the necessary level of training for residents to achieve the expected learning outcomes. Discipline hours are distributed by hours, semesters, according to the list of choice components, types of training, the form of knowledge control and are reflected in the syllabus. The sequence of study disciplines, the rational distribution of disciplines by semester allows you to evenly distribute the academic work of the resident. Admission to residency is carried out taking into account the needs of a specialist neurosurgeon in the Republic of Kazakhstan, in the specialty 7R09120 - "Neurosurgery, including children's ". In 2020 year, 0 places were allocated under the state order: under the grant - 0, within the framework of the target order of local executive bodies of the regions with a need for specialists - 3. Compliance of practice bases and clinical training bases for residents carried out by the Department of Clinical Work. According to the agreements, clinical bases are jointly and severally responsible for the quality of training of future specialists, providing the departments with high-quality classrooms, providing students with access to patients and modern diagnostic equipment. The planning of the educational programme of residents is carried out in accordance with Order No. 606 of October 31, 2018 "On approval of the average ratio of the number of students to teachers for calculating the total number of teaching staff of institutions of higher and (or) postgraduate education, with the exception of military, special educational institutions, educational organizations in the field of culture and is a ratio of 1: 3. In accordance with the requirements of the order of the Minister of Education and Science of the Republic of Kazakhstan dated July 13, 2009 No. 338 "On approval of the standard qualification characteristics of the positions of teaching staff and persons equated to them", when recruiting to fill teaching positions, the compliance of candidates with qualification requirements is taken into account.

Training planning at clinical bases for training residents, carried out with according to the Order of the Minister of Health of the Republic of Kazakhstan dated September 11, 2012 No. 628. On the approval of the Regulations on clinical bases of medical educational institutions for training residents, the requirements for clinical residency bases are highlighted. The course of neurosurgery of KazNMU is based on the basis of the Almaty multidisciplinary hospital.

### **Strengths of Standard 2 "Educational Programme":**

1. Well-established process of interaction with the employer, which makes it possible to train specialists in demand in practice. The multidirectional nature of the clinical bases of the Neurosurgery course enables residents to adapt to the conditions of practical health care and improve their competence.

2. Participation of representatives of practical health care in the preparation of work programmes, the formation of a catalog of elective disciplines, taking into account the needs of practical health care.

3. Ensuring patient safety (within the framework of legal competence and legally regulated by an agreement with a clinical base and the "Code of Health of the Republic of Kazakhstan").

4. Planning for the on-site training of residents allows you to determine the needs of the employer and the quality of training.

**Conclusions of the EEC on the criteria.** Out of 31 standards correspond: fully - 25, significantly - 6, partially - 0, do not correspond - 0.

**Standard 2: completed**

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

1) Strengthen the educational programme by introducing a scientific component into an elective component and a thematic plan.

2) Reflect in the educational programme gender, cultural, religious characteristics of patients and accordingly prepare residents for appropriate relationships

### **Standard 3: ASSESSMENT OF TRAINEES**

Department for Assessment of Academic Achievements residents developed control questions, tasks in a test form (MCQ tasks with multiple correct answers), a list of practical skills, situational tasks, clinical situations). The control form is shown in syllabuses. Electronic versions of syllabuses are available in the library. Information about the point-rating system of assessment is posted on the website [www.kaznmu.kz](http://www.kaznmu.kz)...

The validity, reliability, acceptability and effectiveness of the expected learning outcomes in portfolio. During the entire period of study, the resident forms a portfolio that corresponds to the final goals of the EP. The forms of control are determined by the department and approved at a meeting of the CEP. Forms of CPR (presentations, filling out and analysis of outpatient cards and patient histories, etc.). Evaluation of seminars, presentations, practical skills is carried out according to checklists developed by the staff of the department. The review of control and measuring instruments is carried out at several levels of the internal department, the university and employees of external organizations, associations, employers. The review is considered at a meeting of the department and meetings of the CEP. Educational program 7R09120 - "Neurosurgery, including children's" reviewed and approved by the Committee of Educational Programmes, Minutes No. 5 dated May 14, 2019, by the Academic Council, Minutes No. 6 dated August 12, 2019. The strategy of examination policy is highlighted in the "Academic policy of KazNMU for 2019-2020" (order No. 195 of 08/28/2019), which is reviewed annually.

#### **Strengths:**

1. Evaluation of the portfolio allows you to assess the competence of the resident (personal, scientific interest, professional competence, communication, personal qualities).

2. The quality of control and measuring instruments is subject to multi-stage verification.

3. The use of the Sirius electronic system and the registrar's office helps to reduce the corruption element.

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

1) Allocate resources for social and personal support for residents

**Conclusions of the EEC on the criteria** Out of 11 standards conform: completely - 10, significantly - 1, partially - 0, do not correspond - 0.

**Recommendations for improvement identified during the external visit: none**

### **Standard 4: TRAINEES**

The residency programme has been implemented since 2008. Currently, in accordance with State License No. KZ74LAA00017008 dated September 19, 2019, training is carried out in Kazakh, Russian and English at undergraduate and postgraduate levels of training in 44 educational residency

programmes. Every year, the KazNMU Graduates Employment Department sends a request to the Health Departments of 17 regions of the Republic of Kazakhstan about the required number of specialists in specialties for this current year. Taking into account the capabilities of clinical departments and the needs of the regions in medical personnel, an application is submitted to the Department of Science and Human Resources Development of the Ministry of Health of the Republic of Kazakhstan. In accordance with the submitted request, the Department of Science and Human Resources allocates a State order for the training of medical personnel.

In 2019, in the specialty 7R09120 - "Neurosurgery, including children's" there was no recruitment, in the current academic year 3 residents: 3 by contract.

Admission to residency is carried out in accordance with the Standard rules for admission to training in educational organizations that implement professional training programmes of postgraduate education Order No. 600 "On approval of the Model rules for admission to training in educational organizations that implement educational programmes of higher and postgraduate education (as amended by 06.2020) and does not restrict the rights of low-income families and national minorities.

Admission to residency is announced through the media, by posting ads on the university website (kaznmk.kz, section "Applicants" - "Postgraduate education" - "Residency"). Information on the required list of documents for admission to residency is posted on the KazNMU website. Residents are involved in the work of CEPs, commissions for evaluating the EP, participate in the volunteer movement (lists of volunteers who participated in the work in provisional clinics and quarantine areas, during the CVI pandemic, are in the dean's office of internship and residency).

Resident neurosurgeons participate in all events held at the clinical base: "Open Doors Days" - charity events for the population of adjacent districts of the city, organizing training for nurses, organizing and holding events for scientific and information exchange in the form of conferences, seminars, symposia, forums and other forms aimed at exchanging experience, scientific and practical information, strengthening mutually beneficial ties, participate in the implementation of joint scientific and research projects.

#### **Strengths:**

The single policy of admission and support of residents throughout the entire period of study, provided with sufficient resources (regulatory and legal framework, personnel, material, technical and financial support);

**Conclusions of the EEC on the criteria.** Out of 30 standards conform: fully - 25, significantly - 13, partially - 1, do not correspond - 0

**Standard 4: completed**

**Recommendations for improvement identified during the external visit: none**

#### **Standard 5: TRAINERS**

The neurosurgery course is staffed with full-time staff in accordance with the needs of the programme, the mission for the successful implementation of the residency educational programme and meet the qualification requirements.

The staff of the department has a doctorate in medical sciences, a certificate of a specialist with the highest category in neurosurgery, with more than 5 years of experience in clinical and research work in the specialty, in addition to medical work, they conduct an expert assessment of case histories or clinical cases.

The ratio of the number of teachers of the course of neurosurgery, corresponding to the requirements for teaching staff, carrying out training in residency, and the number of residents is not less than 1: 3. The teachers of the department conduct the theoretical part of the lesson (contact hours - 3 hours for a loan), mentors, employees of the clinical base, control the practical part of the resident's work - 22 hours for a loan). The organization of the educational process allows the staff of the department to devote enough time to teaching, mentoring and to periodically evaluate the activities of teachers and mentors. The activities of the teaching staff of the neurosurgery course are planned in accordance with the individual plan



**Strengths:**

1) Highly qualified teaching staff of the department, having scientific achievements, high medical qualifications, who are experts in health care and medical education.

**Conclusions of the EEC on the criteria.** Out of 7 standards conform: completely - 5, significantly - 1, partially - 1, do not correspond - 0.

**Standard 5: completed**

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

1) Provide a medical education organization with support for teachers of their training and further professional development of both professional and pedagogical qualifications

**Standard 6: EDUCATIONAL RESOURCES**

The University has a developed material and technical base for the implementation of professional training of residents. The material and technical base of the university includes: lecture halls, study rooms, educational and research laboratories, a library, information technology facilities, premises for the cultural and social sphere, university clinics, clinical bases - leading medical clinics in Almaty. Residents of the specialty 7R09120 - "Neurosurgery, including children" are trained on the basis of the clinic Almaty Multidisciplinary Clinical Hospital. The equipment of the clinical base contributes to the high-quality organization of the educational process and the provision of safe specialized and highly specialized inpatient and outpatient care to the population of the region.

Residents and educators at clinical sites have access to health information systems, patient management, practice and work in health care delivery systems.

The scientific achievements of the staff of the department are introduced into the educational process.

The research work of residents is included in the educational process and is carried out after school hours in the form of SRP and SRRP.

Residents independently conduct patient surveys within the framework of research work, conduct a literature review, it is planned to carry out research work in urology, which includes instrumental and laboratory tests - residents are allowed to access the equipment necessary for the clinical base.

**Strengths:**

1) High scientific potential of the department staff

**Conclusions of the EEC on the criteria.** Out of 21 standards conform: fully - 20, significantly - 0, partially - 1, do not correspond - 0

**Standard 6: completed**

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

1) The discipline "Neurosurgery, including children's" is new and promising, therefore, the medical educational organization should create a material and technical base, technical equipment and equipment both at the bases and in the simulation centre.

**Standard 7: PROGRAMME EVALUATION**

Monitoring and evaluation of EP, has a multi-level approach (departments, the profile Committee of the educational programme in residency, DAD, the Academic Committee, the Senate, the student government, the Centre for the admission and vocational guidance of students (general monitoring of the quality of educational programmes through a survey of stakeholders (employers, professional associations and students) .In accordance with the Law of the Republic of Kazakhstan dated July 27, 2007 No. 319-III "On Education (with changes and additions as of 07.07.2020)", "The rules of competitive filling of vacant positions of the teaching staff and scientific workers of KazNMU", the University operates a system of control over the quality of preparation of educational and methodological documentation, including the content of educational programmes.

**Strengths:**

1) Multilevel monitoring of EP with the involvement of stakeholders

**Conclusions of the EEC on the criteria.** Out of 15 standards conform: completely -12,

significantly - 3, partially -0, do not correspond - 0

**Standard 7: completed**

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

1) To more actively introduce methods of activity of teachers and residents in the planning and evaluation of the educational programme

## **Standard 8: GOVERNANCE AND ADMINISTRATION**

Transparency of management and decision-making is carried out through the discussion of educational and methodological documentation for the residency programme at meetings of departments / modules, CEP, AC KazNMU and, after receiving their positive opinion, is approved by the vice-rector for academic activities. Syllabuses, test tasks for the FSA programme are placed in the AIS "Sirius", which has been operating since 2016, which ensures the availability and transparency of the educational process. AIS-KazNMU made it possible to significantly improve statistical accounting, streamline the internal structure and minimize the number of output documents, significantly reduce the time frame for the structural analysis of the performance indicators of the university and work with external organizations, it is more emphasized to form points of responsibility of performers, to automate the organization of the educational process.

The financial activities of the university are also reviewed on a quarterly basis at a meeting of the Supervisory Board. At the same time, financial performance is assessed using specific financial indicators. The following indicators characterize the stable financial condition of the University. According to the accounting report, all indicators are maintained, and the financial condition of the University is considered stable.

The calculation of the teaching load of the teaching staff is carried out in accordance with the Standard Rules for the Activities of Higher Education Organizations (Decree of the Government of the Republic of Kazakhstan dated May 20, 2013 No. 499) and the state educational standard (Order of the Ministry of Health of the Republic of Kazakhstan No. 387 dated July 29, 2009 and Order No. 647 dated July 31, 2015) and is - 700 hours per year (order No. 7 dated 09/08/2015).

The staff of teachers participating in the implementation of the residency programme in the specialty 7R09120 - "Neurosurgery, including children's: total - 1, including doctors of science - 1. Ensuring the implementation of EP residency processes at the university provides quality management through internal and external audits.

### **Strengths:**

1) The implementation of the EP of residency is ensured by quality management through internal and external audits.

**Conclusions of the EEC on the criteria.** Out of 15 standards conform: fully - 8/6, significantly - 1, partially - 0, do not correspond - 0

**Standard 8: completed**

**Recommendations for improvement identified during the external visit: none**

## **Standard 9: CONTINUOUS RENEWAL**

University, taking into account the needs of practical health care in the Republic of Kazakhstan, which is in the process of reforming, regularly initiates a review and updating of the process, in order to continuously improve the postgraduate educational process in accordance with the best practice of world educational management

Thus, all 9 accreditation standards have been met, no inconsistencies in the fulfillment of the criteria of each of the basic accreditation standards in the process of analyzing the self-assessment report and conducting the examination as part of the tasks of the external expert evaluation programme were found.

**5. Recommendations for improving the educational programme of residency in the specialty 7R09120 - "Neurosurgery, including children's" of KazNMU:**

**Standard 1: MISSION AND END OUTCOMES**

1. Strengthen the implementation of practical health care innovations in the educational process.
2. Provide credible information regarding the definition of a mission based on consideration of the health needs of society

**Standard 2: EDUCATIONAL PROGRAMMES**

3. Strengthen the educational programme by introducing a scientific component into an elective component and a thematic plan.
4. Reflect in the educational programme gender, cultural, religious characteristics of patients and accordingly prepare residents for appropriate relationships

**Standard 5: TRAINERS**

5. Provide a medical education organization with support for teachers of their training and further professional development of both professional and pedagogical qualifications

**Standard 6: EDUCATIONAL RESOURCES**


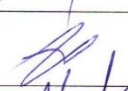
6. The discipline "Neurosurgery, including children's" is new and promising, therefore, the medical educational organization should create a material and technical base, technical equipment and equipment both at the bases and in the simulation centre.

**Standard 7: PROGRAMME EVALUATION**

7. To more actively introduce methods of activity of teachers and residents in the planning and evaluation of the educational programme

### 7. Recommendation to the ECAQA Accreditation Board

The members of the EEC came to a unanimous decision to recommend to the Accreditation Council to accredit the educational programme of residency in the specialty 7R09120 - "Neurosurgery, including children's" for a period of 5 years.

<b>Chairman</b>	Turgunov Ermek Meyramovich	
The foreign expert	Kashirskaya Natalia Yurievna	
Academic expert	Zhumalina Akmaral Kanashevna	
Academic expert	Ramazanova Raigul Mukhanbetovna	
Academic expert	Esengaraeva Saule Damirovna	
Academic expert	Beketova Bayan Beysengalieвна	
Academic expert	Akhmetova Almira Kalikapasovna	
Academic expert	Urazova Saltanat Nurgozhaevna	
Academic expert	Kalieva Sholpan Sabataevna	
Academic expert	Zhanteliёva Lyazzat Asanovna	
Academic expert	Madyarov Valentin Manarbekovich	
Academic expert	Sadieva Zhanar Zamankhanovna	
Academic expert	Lovinskaya Anna Vladimirovna	
Representative of practical health care	Zholdasbaeva Kyrmyzy Zhumabekovna	
Representative of practical health care	Nartpayeva Asel Tarasovna	
The representative of the residents	Bayashov Erdos Nuridinuly	
The representative of the residents	Tarasyukov Alexander Andreevich	
The observer ECAQA	Umarova Makpal Aldibekovna	

**Quality profile and external evaluation criteria (summary)  
Of educational residency programme by specialty  
7R09120 - "Neurosurgery, including children's" of KazNMU**

Standard	Criteria for evaluation  Number of standards = BS * / SU	Assessment			
		Totally coincides	Significantly corresponds	Partially compliant	Does not match
1	MISSION AND END OUTCOMES 17 = 10/7	8 \ 5	1 \ 2	1\	
2.	EDUCATIONAL PROGRAMME 31 = 22/9	20 \ 5	3 \ 3		
3.	ASSESSMENT OF TRAINEES 11 = 7/4	6 \ 4	1\		
4	TRAINEES 30 = 18/12	15 \ 10	1 \ 3	1\	
5	TRAINERS 7 = 5/2	4 \ 1	1\	1\	
6.	EDUCATIONAL RESOURCES 21 = 10/11	10/10		\1	
7.	PROGRAMME EVALUATION 15 = 10/5	8 \ 4	2 \ 1		
8	GOVERNANCE AND ADMINISTRATION 15 = 8/7	8 \ 6	\1		
9	CONTINUOUS RENEWAL 4 = 1/3	1 \ 3			
	<b>Total: 151 = 91/60</b>	80 \ 48	9/10	2 \ 2	
		<b>151</b>			