

REPORT
OF THE EXTERNAL EXPERT COMMISSIONS ON THE EVALUATION OF
THE EDUCATIONAL PROGRAMME 7R09123 "PEDIATRIC SURGERY»
OF ASFENDIYAROV KAZNMU OF ASFENDIYAROV KAZNMU FOR
COMPLIANCE WITH THE ACCREDITATION STANDARDS FOR
PROGRAMMES OF POSTGRADUATE EDUCATION (RESIDENCY
SPECIALTY) MEDICAL ORGANIZATIONS OF EDUCATION

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
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National academic expert
ESENARAYEVA SAULE DAMIROVNA,
Ph.D., Head of the Department of Medical
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JSC "Kazakh Medical University of Continuing
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National academic expert
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radiation oncology
NJSC "Semey Medical University"



National academic expert
AKHMETOVA ALMIRA KALIKAPASOVNA,
Candidate of Medical Sciences, Associate
Professor, Head of the Department of
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National academic expert
URAZOVA SALTANAT NURGOZHAEVNA,
Doctor of Medical Sciences, Associate Professor
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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
MANARBEEKOVICH,

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National academic expert

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



National academic expert

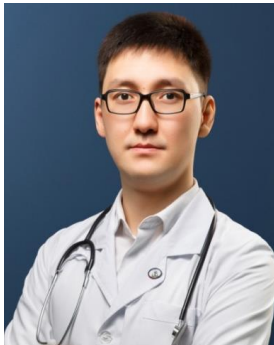
LOVINSKAYA ANNA VLADIMIROVNA,
Senior Lecturer of the Department of Molecular
Biology and Genetics, Al-Farabi Kazakh
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Problems of the RSE "Al -Farabi Kazakh
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Expert Representative of Practical Health
ZHOLDASBAYEVA KYRMYZY
ZHUMABEKOVNA,
Deputy Chief Physician for Childhood
PSE on REM "City polyclinic No. 1", Almaty



Expert Representative of Practical Health
NARTPAEVA ASELE TARASOVNA,
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Expert - resident representative
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Expert - resident representative
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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 7R09123 - "Pediatric Surgery" of Asfendiyarov KazNMU for compliance with the Accreditation Standards of Postgraduate Education Programmes (residency specialties) of ECAQA medical educational institutions, education.

2. General part the final report of the EEC

2.1 Presentation of Asfendiyarov KazNMU and the educational residency programme in the specialty 7R09123 - "Pediatric surgery"

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 7R09123 - "Pediatric Surgery" has not yet been carried out.

2.3 Analysis of the self-assessment report of the educational programme of residency in the specialty 7R09123 - "Pediatric surgery"

The self-assessment report of the educational programme is presented on 112 pages of the main text, applications on page 8 and copies or electronic versions of 7 documents on the organization of education, located at the link <https://kaznmu.kz/rus/postupajushhim/postdiplomnoe-obrazovanie/rezidentura/...>

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 in the specialty 7R09123 - "Pediatric surgery" for compliance with the Standards of accreditation of programmes of postgraduate education (specialty residency) of medical educational institutions

Self-assessment report educational programme presented on 112 pages of the main text, applications on 8 pages and electronic versions of documents on the organisation of education, located at the link <https://kaznmu.kz/rus/postupajushhim/postdiplomnoe-obrazovanie/rezidentura/...>

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.

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The database, applications on 8 pages, are presented in full, sequentially and there are references to them in the text of the report. The report is written in a competent language, the wording for each standard is clear and understandable, the tables contain references in the text and are consecutively numbered.

3. Description of the stages of external peer review and conclusion

External expert work on the assessment of the educational programme of residency 7R09123 - "Pediatric surgery" 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 22 educational and methodological documents both before the visit to the university and during the visit.

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 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.	Kalieva 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 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 (MC "Aksai", JSC "Scientific Centre for Pediatrics and Pediatric Surgery", Centre for Perinatology and Pediatric Cardiac Surgery and Almaty Regional Children's Clinical Hospital). At clinical bases, experts surveyed the resources of the accredited educational programme, their compliance with the training courses in residency, 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 the fulfillment of accreditation standards 2 and 6, as well as the 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 from an accredited educational programme, therefore it was not possible to interview graduates, however, the experience and authority of KazNMU in teaching residents (since 2007) shows a high percentage of employment (> 90%) of graduates of other programmes residencies and their demand by medical organizations 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. 7 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 showed their commitment to the organization 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).

An interview with 7 employers on all the educational programmes of residency of KazNMU declared for accreditation was conducted online and included such issues as: knowledge of the mission of the university, participation in the development of the mission and proposals in the strategic plan, participation in the deliberative bodies of KazNMU, satisfaction with basic knowledge and skills residents, participation in the training of 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 residency graduates, etc.

A review of resources showed that clinical bases (Aksai Management Company, Scientific Centre for Pediatrics and Pediatric Surgery, Centre for Perinatology and Pediatric Cardiac Surgery and Almaty Regional Children's Clinical Hospital) correspond to the goals and objectives of the accredited educational programme in terms of the profile of beds, the number of thematic patients, modern equipment and its availability to all students, and the staff of the department ensure 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 5 training rooms, despite the fact that most of the time residents spend at the patient's bedside and in the diagnostic departments. Before starting the relevant discipline of the educational programme.

The third day of the visit November 20, 2020

The experts studied the documentation of the Department of Pediatric Surgery, which confirmed the compliance with the accreditation standards (nomenclature of the department's affairs, plan for 5 years, annual plan for 2019-2020 academic year and report for 2019, journal of residents' progress, EMCD, feedback questionnaires with residents, teachers, reports on the results of the questionnaire and the measures taken, the code of ethics, etc., control and measuring instruments).

including documentation (staff of the teaching staff, individual plans of teaching staff, IEP and portfolio of residents, evaluation of the educational programme by external reviewers, distribution of scientific directions and scientific advisers 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 7R09123 - "Pediatric surgery". 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 on the basis of 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 7R09123 - "Pediatric surgery" 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 7R09123 - "Pediatric surgery".

4. Analysis for compliance with accreditation standards based on the results of an external assessment of the educational residency programme in the specialty 7R09123 - "Pediatric Surgery" of KazNMU and an overview of the strengths for each standard

Standard 1: MISSION AND END OUTCOMES

The educational programme (EP) in the specialty 7R09123 - Pediatric Surgery is aimed at realizing the mission of the University by training a qualified doctor, a specialist in pediatric surgeon, possessing a system of universal knowledge and professional competencies, capable and ready for independent professional activity in the treatment of surgical diseases in children. The mission of the educational programme was developed collegially (minutes of the meeting of the department No. 10 of 04.24. 2019) and approved at a meeting of the CEP (No. 5 of May 14, 2019), the Academic Council (No. 6 of 06/12/2019) and the Academic Council of the University (No. 10 dated June 19, 2019).

The mission of the educational programme was brought to the attention of all employees of departments, residents by posting on the university website (www.kaznm.kz, web page "Residency"), scientific and practical conferences, joint charitable clinical events with clinical bases, popularization of the discipline through participation in flash mobs, volunteer events and on the Internet sites of medical organizations. The mission of the educational programme has been brought to the partners of far and near abroad through participation in scientific and practical conferences, joint master classes. in the process of "academic mobility" of teachers and students.

The main aspect of the declared mission of the educational programme is to study the needs of practical health care in Pediatric surgeons and their effective system of professional training. The Employment Department monitors the needs for Pediatric Surgeons by region. The department has all the resources necessary to form professional qualities and achieve the final results stated in the mission of the educational programme in accordance with national and international requirements and the needs of the health sector. Purpose of educational programme 7R09123 - "Pediatric Surgery"

in-depth training of a specialist who is able to provide qualified and specialized medical care to children with congenital and acquired pathology in accordance with evidence-based medicine data

The educational programme in the specialty "Pediatric Surgery" is designed for 210 credits: major disciplines - 196 credits, optional component - 8 credits, intermediate certification - 4 credits, final certification - 2 credits.

The major disciplines are represented by the following disciplines: Outpatient Surgery, Emergency Surgery, Purulent Surgery, Planned Surgery, Thoracic Surgery, Traumatology, Orthopedics, Endoscopic Surgery, Neonatal Surgery. Training of residents in the specialty of pediatric surgery is carried out in multidisciplinary treatment centres in Almaty, the Aksai University Clinic, Research Institute of Pediatrics and Pediatric Surgery, the Almaty Regional Children's Clinical Hospital, the City Centre of Perinatology and Cardiac Surgery, all clinics have ISO (International Organization for Standardization) certificates and JCI (Joint Commission International) and form a patient-centered work style aimed at ensuring the safety of patients, their correct identification, effective communication, increasing the safety of examination and treatment, reduction of trauma, adherence to successive treatment. The distribution of the ratio of theory and practice according to the state educational standard in residency was: theory - 10%, clinical work - 75%, independent work - 15%.

Resident under the supervision of a mentor, he receives special knowledge, hones practical skills, for the assessment of which formative and summative assessment is used. As a result of the training, the resident - pediatric surgeon receives a holistic vision of the processes, to understand the pathological conditions in children, to select an effective and safe treatment, to determine an individual approach to the patient - the autonomy of decisions in favor of the patient. The autonomy of decision making is possible by mastering the recommended SES, a list of practical skills. Patient supervision, shifts are performed by residents independently under the supervision of a mentor.

The economic development of the university, the direction of monetary assets to the academic potential, information support and digitalization of processes, increasing the satisfaction of employees with their work, employers, studying conditions and the learning process are determined by the Strategy for 2019-2023.

Academic freedom of the department, independently develops and implements the EP, within the framework of the State Educational Standard of Education and approves at the meetings of the CEP, the Academic Council, the Senate. The assessment of the educational achievements of residents is determined by the university independently ("Academic policy for 2019-2020"). Control and measuring instruments, teaching methods, and control of the achievements of residents, approved at a meeting of the department, CEP. Educational programme on "Pediatric Surgery" - entered the Republican Register of educational programmes.

The training of residents in the specialty "Pediatric Surgery" is carried out by experienced mentors working at four clinical bases and 12 employees of the department (4 professors, 2 associate professors, 6 assistants), 10 of whom have the highest qualification category in the specialties: pediatric surgery, pediatric anesthesiology - resuscitation, pediatric urology, pediatric traumatology - orthopedics.

Academic freedom is regulated by the "Internal Regulations of Students at KazNMU" (Minutes No. 7 dated 10/14/2019) and the contract for the provision of educational services concluded with each resident upon admission to the University.

In the "Development Programme of NJSC KazNMU for 2019 - 2023, the obligatory participation of residents in scientific projects is indicated. The programme provides the freedom to choose the topic of scientific research, scientific adviser.

The end results of EP training in the specialty 7R09123 "Pediatric surgery", developed within the framework of the State Educational Standard of Education (order 647, revised in 2020) and Qualification characteristics in the specialty "Pediatric Surgery" (Pr. MoH RK No. 699 of 12.11.2009).

Information about the final results of training for residents of the EP in the specialty "Pediatric Surgery" are obtained through tutors, during charity events, conferences, in which residents are involved. The department receives responses to residents through a 360-degree survey.

Continuity between the final learning outcomes at NJSC "KazNMU" is implemented within the Bologna process, bachelor's, residency, master's and doctoral / PhD programmes.

Strengths:

1) Academic freedom of the department in the development and implementation of educational and methodological documentation;

2) Highly qualified teaching staff and material and technical resources of the department.

Conclusions of the EEC on the criteria. Out of 17 standards conform: completely - 16, significantly - 1, partially - 0, do not correspond - 0.

Standard 1: completed

Recommendations for improvement identified during the external visit:

1) Continue introducing innovations in the learning process, allowing the development of basic and special competencies of residents.

Standard 2: EDUCATIONAL PROGRAMMES

The educational process at the university is organized in accordance with the "Rules for the organization of the educational process on credit technology of education" (order of the Ministry of Education and Science of the Republic of Kazakhstan dated 20.04.2011 No. 152) and the model of the competence of residents developed in KazNMU, prescribed in the EP, approved at a meeting of the University Council (minutes No. 10 of 19.06.2019), which includes (patient supervision, communication and collaboration, safety and quality; public health, research, training and development).

The competencies and the final results of the training of residents are spelled out in the EP, approved at a meeting of the University Council, protocol No. 10 of 06/19/2019. The content of the EP corresponds to the mission of the university and meets the needs of employers. The training of the resident of the "Children's Surgeon" is carried out in order to provide the health care industry of the Republic of Kazakhstan with qualified personnel in accordance with the Order of the Ministry of Health of the Republic of Kazakhstan dated 30.01. 2008 No. 27 "On approval of the lists of clinical specialties of training in internship and residency" with amendments and additions dated May 31, 2019 No. ҚР DSM-89 by the Order of the Ministry of Health of the Republic of Kazakhstan.

The structure and content of the EP comply with the requirements of the State Educational Standard of the Republic of Kazakhstan, approved by order of the Ministry of Health of the Republic of Kazakhstan No. 647 dated April 18, 2019, in accordance with the name of the programme and specialty. A resident who has completed training and successfully passed the final certification is awarded the qualification "doctor", a certificate of completion of residency is issued, which corresponds to international requirements and level 8 of the national qualifications framework in medical education and the Qualifications Framework in the European Higher Education Area (ESG 1.2).

The department of academic quality is responsible for the quality of the educational activities of the university, it analyzes the existing and newly opened educational programmes with the study of market needs. The quality management policy is reflected in the "Policy and goals in the field of quality for 2019-2021 (Pr. No. 11 of 08/28/2018)," Strategic development plan for 2017-2021 with additions and amendments of 05/10/2018 (PR No. 3 of 05/30/2018), "Quality Manual" (Minutes No. 10 dated 12/09/2019). The rights and obligations of residents are reflected in the Academic Policy of the University (Pr No. 5 dated 28.08.2019).

The principles of academic integrity are defined in the Student Academic Integrity Code (Rector's Order No. 191 of 08/27/2019) as amended on 09/10/2019; the code of honor of the teaching staff and employees of NJSC "KazNMU", the regulation on the Ethical Council (Pr №2 dated 03.20.2020), in the educational programme.

The student-centered learning approach allows the resident to develop his own experience, the development of personal structures, the ability to independently obtain and apply knowledge, and develop reflexive-evaluative skills. Training of residents at clinical sites under the guidance of curators makes it possible to develop not only practical skills on a daily basis, but also develop creative potential through participation in R&D. The university approved the "Regulation on mentoring" (Order of the rector No. 231 of September 16, 2019). The mentor provides appropriate support in the professional and personal formation and development of the resident, shares experience, knowledge and supports the ward in a way that is effective and efficient, fosters independence in him, thoroughly studying the abilities of a young specialist, his inclinations, interests, attitude to the team. Feedback between mentors and residents is carried out through regular questioning of the staff of the clinical base about the activities of the resident, the residents about the work of the curator and clinical mentor.

The ability for continuous professional growth of the student, representing the totality of individual educational achievements, the resident represents "Portfolio". The curator (mentor) during the academic year stimulates the activities of the resident and advises him on the creation of a portfolio. To form motivation for success, leadership qualities, striving for the development of culture, the University holds meetings of young people with famous scientists, politicians, interesting people, the University provides residents with the opportunity for comprehensive personal development in the process of professional training.

The scientific foundations and methodology of the educational programme 7R09123 - "Pediatric Surgery" provides training in research skills, taking into account the real needs of modern medicine. Integration of medical education, science and practice in NJSC "KazNMU" is possible in cooperation with the largest research centres, with 102 universities and partner organizations.

Clinical bases of the Department of Pediatric Surgery meet the requirements of the OP for the training of residents in the specialty 7R09123 - "Pediatric Surgery", contributes to the development of modern clinical thinking skills, interpretation of the results of clinical trials, taking into account evidence-based medicine data, the presence of concomitant diseases, the physiological profile of the patient in a specific clinical situation, for to achieve the final learning outcomes, all clinical bases of the department work in accordance with the clinical protocols of the Ministry of Health of the Republic of Kazakhstan, based on evidence-based medicine. The content, volume and sequence of EP residency in the specialty 7R09123 - "Pediatric Surgery" strictly correspond to the State Educational Standard of Education. The achievement of the training objectives is based on the acquisition by the resident of the necessary knowledge and key competencies, profiling (PAE) disciplines of the main component and an optional component (OC). When forming EP in specialties, the following was taken into account: the contribution of each discipline to the formation of competencies at a certain level (course), i.e. responsibility of both specialized and related disciplines for the formation of a competent graduate, determination of competencies in each discipline.

The Department of Pediatric Surgery monitors, studies the needs of the region and the labor market and offers optional component disciplines. The list of disciplines of the elective component is discussed with residents and employers. Students participate in the formation of the EP, because when compiling a list of elective disciplines. Consider data on the analysis of residents' satisfaction with the educational process and the needs of employers.

The structure of the EP of residency in the specialty 7R09123 - "Pediatric Surgery" corresponds to (Order No. 647 of the Ministry of Health of the SR RK as amended on February 21, 2020, Order of the Ministry of Health of the Republic of Kazakhstan No. KR DSM-12/2020). EP in specialty 7R09123 - "Pediatric Surgery" guarantees the quality of the educational process, which is determined by the quality of planning. The number of hours for three years of study is 6300 hours. With a three-year training programme, residents master 210 credits, 8 of which fall on the OC - four elective disciplines, 2 credits each (60 hours).

The distribution of disciplines by hours and semesters is carried out by the Educational and Methodological Department. All academic disciplines and sections of the EP specialty 7R09123 -

"Pediatric Surgery" are closely interconnected. The formation of the content of disciplines is structured into logically complete methodological blocks. Interdisciplinary communication is clearly seen in the work programmes of academic disciplines, drawn up taking into account the development of prerequisites and postrequisites, taking into account the specifics of the specialty.

Residents participate in the organization of the specialty curriculum in the course of direct discussion and approval of work programmes and elective disciplines at the meetings of the department.

Mentoring has been carried out since September 2019 on the basis of the Regulation on Mentoring, approved by order of the rector No. 231 of September 16, 2019. The Academic Policy for the 2019-2020 academic year, approved by the Board by Protocol No. 5 of 08/28/2019, stipulates the appointment of curators. On the clinical basis, a mentor is assigned to a resident - a doctor of practical health care with the highest qualification category. In addition to the mentor, a mentor is assigned to the residents to implement the training plan and quality of the EP. Curators and a mentor in the course of their daily work give recommendations for further improving professional skills, mastering the norms of medical ethics and deontology, and improving the general educational and cultural level.

Strengths:

1) An interdisciplinary approach to the development and implementation of an educational programme.

2) Integration of the educational programme with science and practice

Conclusions of the EEC on the criteria. Out of 31 standards conform: fully - 30, significantly - 1 partially - 0, do not correspond - 0.

Standard 2: completed

Recommendations for improvement identified during the external visit:

1) To more actively use methods of critical assessment of literature, articles and scientific data in teaching residents, the use of scientific developments.

2) Strengthen the scientific component in the educational process of the residency programme.

Standard 3: ASSESSMENT OF TRAINEES

Assessment of educational achievements is carried out in accordance with the directive, regulatory and internal documents: Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III (as amended and supplemented as of 04.12.15); Order of the acting Ministry of Health of the Republic of Kazakhstan dated July 31, 2015 No. 647. "On approval of state compulsory standards and standard professional programmes in medical and pharmaceutical specialties" as amended in 2020; Resident assessment policies and methods are reviewed and approved at a meeting of the Internship and Residency Education Programmes Committee (CEP). The general policy, principles, methods of assessing students at KazNMU are reflected in the following internal documents: Academic policy of the University No. 195 of 28.08.2019; "Regulations on the current monitoring of progress, intermediate and final certification of students of NJSC KazNMU "are spelled out in the Academic Policy for the 2019-2020 academic year and approved by the Board. Minutes No. 5 dated 28.08.2019; The list of compulsory disciplines for the final control during the period of intermediate certification is regulated by the disciplines passed, which are reflected in the RUPL. A technical specification is drawn up - a matrix of test items, the number of test questions is compiled according to the number of credits passed by discipline;

Responsibility for the implementation of the policy for assessing the educational achievements of residents is borne by the teaching staff of the departments, the head of the department, the office of the registrar. Checklists for all types of assessment were approved at a meeting of the department, Of the Committee for Educational Programmes (CEP). The assessment of the educational achievements of residents is carried out on the basis of the following developed by the department: control questions, tests in the form (MCQ tasks with several options of correct answers), a list of practical skills, situational tasks, clinical situations).

The system of monitoring the educational achievements of residents includes: current and midterm monitoring of progress, intermediate and final state certification.

The forms of current control are displayed in syllables. Control and measurement tools are developed for all topics of the curriculum. The mark for the exam, annual and final attestation is derived as the average of the marks of the two stages (theoretical and practical). The results of the students' achievement are displayed in the electronic journals of the AIS "Sirius" system. A resident who has completed the course programme in full, but has not received the minimum transfer score, in order to increase the average grade, is given the opportunity to re-study certain disciplines in the summer semester on a paid basis and re-pass exams on them. Additional methods for assessing the activities of residents, portfolios.

During the entire period of study, the resident forms a portfolio (checklists with an assessment of practical activities, seminars, shifts, etc.; characteristics of the curator; information on achievements during the period of study in residency, if any (awards, certificates, conference programmes, abstracts of publications, videos, letters of thanks, patient reviews).

During the period of study, the resident is engaged in research work, the assessment of scientific work affects the overall assessment of the discipline.

Review of control and measuring instruments is carried out at several levels - within the department, university and external review.

The number of exams is regulated by the Standard Curriculum, which is an integral part of the State Educational Standard of the Republic of Kazakhstan 2017, 2020. The forms of conducting are determined by the decision of the CEP, the Academic Council of the Senate. In case of disagreement with the results of the rating of the final control, final certification in discipline, a resident has the right to submit an appeal to the chairperson of the appeal commission. The procedure and procedure for conducting an appeal is governed by the "Academic Policy" Appeals Rules.

The assessment of the practical and communication skills of the residents is carried out at the Simulation Centre by the method of an objective structured clinical examination and according to the developed scenario, a mini-clinical exam is carried out. The results of educational achievements of students are entered into an electronic educational journal through the office-registrar system and the AIS "Sirius" programme, which automatically generates examination sheets. The electronic educational journal is filled in in accordance with the calendar-thematic plan, in accordance with the schedule and the dates of the current, midterm and final control reflected in the syllabus. The registrar's office records the entire history of the student's educational achievements and ensures the organization of all types of knowledge control and the calculation of the academic rating. A group of independent experts, a group of testologists as part of the CEP monitor the quality of the classes, the quality of the tests, in accordance with SOP No. 600 dated 2.08.2018. "Examination of instrumentation in the testing format" and SOP No. 301 dated 11.11.2019. "The procedure for the development of tasks in a test form", SOP No. 197 of 08/29/2019. "Development and approval of the system of educational achievements", SOP №2 / 28 of 02.08. 2018 "Organization and implementation of state certification of graduates"

Strengths:

I. Portfolio assessment allows you to assess the development of the resident's competencies: personal interest, professional competence, communicative, personal qualities, scientific interest.

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

Recommendations for improvement identified during the external visit:

1) Strengthen the work on the development of practical and communication skills of residents in the Simulation Centre.

Standard 4: TRAINEES

The residency programme at the university has been implemented since 2008. Admission to residency is carried out in accordance with the Order of the Ministry of Education and Science of the

Republic of Kazakhstan "On Approval of the Standard Rules for Admission to Training in Educational Organizations Implementing Educational Programmes of Higher and Postgraduate Education" dated October 31, 2018 No. 600, State Educational Standard of the Republic of Kazakhstan - 2015, 2019, and the Rules for admission to residency KazNMU for the current academic year. The number of residents is determined by the capacity of the clinical department and the needs of practical health care.

The KazNMU Graduates Employment Department compiles a summary of the required number of specialists in the specialty "Pediatric Surgery" for this current year, the application is submitted to the Department of Science and Human Resources Development of the Ministry of Health of the Republic of Kazakhstan.

The resources of KazNMU, the teaching staff of the department "Pediatric Surgery", the material and technical equipment of clinical bases allows training residents in the specialty "Pediatric Surgery".

In the 2019-2020 academic year, the first recruitment of applicants passed through the educational programme "7R09123 - Pediatric Surgery". The criteria for applicants entering residency are determined by the requirements of the State Educational Standard of the Republic of Kazakhstan (2017, 2020). In order to ensure compliance with uniform requirements and resolve controversial issues, an appeal commission is created at KazNMU. In 2020, Professor A.K. Ormantayev was a member of the appeal commission from the Department of Pediatric Surgery. To implement the competence-based model of medical education, the university operates a system of academic consulting for residents in departments, which is determined (by the Academic Policy of the University for the 2019-2020 academic year).

The University uses all the main directions, forms and methods of organizing social and financial support. Residents receive information about student support services from the information on the stands at the departments, in the dean's office and through the university website www.kaznmu.kz, where the rector's blog, an internal information forum and information about the National Helpline for Children and Youth (150). When providing social support, consulting, the principle of confidentiality is observed.

In order to optimize employment and monitor the career of university graduates, by order of the rector, a career centre for graduates was organized (order No. 1 of 03.08.2020). Ethics Council (<http://kaznmu.kz/rus>) the university serves as a public body responsible for ensuring the implementation of the Code. Residents are involved in the work of the CEPs, commissions for evaluating the EP.

By the Decree of the Government of the Republic of Kazakhstan dated January 28, 2020 No. 12, amendments were made to the Resolution of the Government of the Republic of Kazakhstan dated February 7, 2008 No. 116 "On approval of the Rules for the appointment, payment and size of state scholarships to students in educational institutions" from January 2020, residents are paid a scholarship in the amount of - 76 951 (seventy-six thousand nine hundred fifty-one) tenge. Residents are given annual vacations between academic years of at least 5 weeks duration. Combining study with work (no more than 0.5 rate) in areas of activity close to his future specialty in his free time with the consent of the curator, head of the department and the residency sector. If you have a specialist certificate,

According to the concluded clinical agreement between the University and the base clinic, residents under the supervision of doctors (mentors) of the base institution are allowed to supervise patients and on duty. The resident is trained according to an individual plan.

Responsibility for ensuring the quality of the educational process rests with the head of the department, chairperson of the CEP. The organization of the quality control system is entrusted to the deans, EMA, DAD. The quality of the training is assessed by a group of independent experts (at the request of the COPs and / or specialized educational departments). The monitoring of the quality of the educational process and the satisfaction of consumers of educational services is carried out by CEP experts.

Strengths:

I. Resources, the teaching staff of the Department of Pediatric Surgery, the material and technical equipment of clinical bases allows training residents in the specialty of Pediatric Surgery.

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

Standard 4: completed

Recommendations for improvement identified during the external visit: none

Standard 5: TRAINERS

The Department of Pediatric Surgery is staffed in accordance with the needs of the programme, mission for the successful implementation of the educational residency programme. Teachers meet all qualification requirements, are active specialists, carry out clinical work in the base. At the department, the ratio of the number of teachers to the number of residents is 12: 8 (1: 0.5 should be at least 1: 3). The number of teachers working with residents and having an academic degree and academic title is 80%. 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 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 05.20.2013 No. 499) and the state standard for educational levels (Decree of the Government of the Republic of Kazakhstan dated 23.08.2012 No. 1080) and SOP pr. No. 600 dated 2.08 2018 "Standards of time for planning and accounting for teaching load of teaching staff."

The therapeutic load of the teaching staff is regulated by the orders of the Ministry of Health of the Republic of Kazakhstan: "On amendments and additions to the order of the Minister of Health of the Republic of Kazakhstan No. 238 dated April 7, 2010" On the approval of standard staffs and staffing standards of health care organizations "dated January 5, 2011 No. 10; No. 628 dated 09/11/12 "On approval of the Regulations on clinical bases of medical educational institutions" and Order No. 330 dated April 13, 2013 "On approval of the medical load of the University." The Department of Clinical Work of the University monitors the implementation of the medical work of the teaching staff. The work of the teaching staff of the residency is carried out according to the individual teacher plan (ITP). During the academic year, training seminars are held for the teaching staff of the university on the organization of the educational process, methodological work, interactive teaching methods (TBL, PBL, CBL; "brain ring", case stages, "brainstorming", "visual organizers", etc.). The teaching staff of the faculty develops and implements innovative teaching methods.

For 2016-2021, advanced training in educational institutions of the Republic of Kazakhstan passed Ormantayev A.K., Momynkulov A.O. in ZKSMA "Endovideosurgery in children", in KazMUNO Sepbaeva A.D., Sultankulova G.T., Turlekiewa Zh.M. "Topical issues of pediatric anesthesiology, resuscitation", Hwang Yu.M., St. Petersburg, Russia, "Topical issues of pediatric orthopedics". Received certificates for 216 hours.

The staff of the department passed preliminary certification in 2019. In the reporting year, the employees of the department were awarded: Associate Professor Smagulova D.U. certificate of honor for contribution to the development of the university; Professor Ormantayev A.K. breastplate "Densauyk saktau icinin uzdigi".

Strengths:

I. Staffing of the department with staff in accordance with the needs of the programme, mission for the successful implementation of the educational programme for residency. Teachers meet all qualification requirements, are active specialists, carry out clinical work in the base.

Conclusions of the EEC on the criteria. Out of 7 standards conform: completely - 6, significantly - 1, partially - 0, do not correspond - 0.

Standard 5: completed

Recommendations for improvement identified during the external visit:

1) Strengthen work on the development and support of teachers and mentors on improving professional and pedagogical competencies.

2) In the regulation on mentoring, provide for the requirements for the selection of personnel, including the scientific, pedagogical and clinical merits of candidates, the results of certification of employees for their suitability for the position held.

Standard 6: EDUCATIONAL RESOURCES

The material and technical base of the university: lecture halls, study rooms, educational and research laboratories, libraries, information technology facilities, premises for the cultural and social sphere, university clinics, clinical bases - leading medical clinics in Almaty, allows the implementation of EP on specialty "Pediatric surgery".

Residents receive medical care at the Educational and Clinical Centre, the Professor's Clinic in Almaty, the Institute of Dentistry, as well as in the polyclinics of Almaty at the place of residence.

The University, on the basis of a cooperation agreement, closely cooperates with 104 medical organizations. Clinical bases of the Department of Pediatric Surgery: Almaty Regional Children's Clinical Hospital; Research Institute of Pediatrics and Pediatric Surgery; City Centre for Perinatology and Cardiac Surgery; MC "Aksai" Clinic of NJSC KazNMU. The equipment of clinical bases contributes to the high-quality organization of the educational process and the provision of specialized and highly specialized inpatient and outpatient care to the population of the region. Formation and development of clinical skills of residents is carried out in the form of case management, participation in morning conferences, clinical reviews, peer review of critical cases and in the Centre for Practical Skills. Information support for the work of residents is carried out through: mass media (Facebook, Telegramm, etc.), University website; electronic creeping line; television monitors in the foyer of educational buildings; boards of official information of the administration, dean's offices; information boards in hostels and university departments; radio broadcasting on the territory of the university.

The University has three Internet centres (test centre, Internet class in the simulation centre, Internet room of the library) equipped with 7 modern server stations. The distance learning system is based on the Moodle programme, Microsoft teams 365, Classroom, Zoom, which provide free communication of teachers and residents via the Internet. Login to the website of the distance learning portal <http://dis.kaznm.kz>. The electronic catalog of the library is available in all educational buildings, as well as on the Internet from the library website (<http://lib.kaznm.kz>). Since 2016, KazNMU has begun work on the implementation of a new programme "Sirius", which unites all processes of the structural units of the university in an automated mode. departments are regularly trained in information technology, with the introduction of new platforms, or distance learning techniques.

For classes at the department, residents are provided with Internet access, links to educational and methodological literature in electronic form.). To master practical skills, students outside the classroom visit the Centre for Practical Skills, where they practice with the help of dummies, mannequins, simulators, simulators, computer training programmes.

Training residents in the specialty "Pediatric Surgery" for the skills of teamwork and effective interaction with other health care professionals includes direct work of residents together with employees of clinical bases in all areas of their activities, participation in selector republican and city meetings, in scientific and practical conferences, work in multidisciplinary teams. The resident is present during the consultations, carries out instructions from senior colleagues within the framework of his competence. The result of the resident's activities is checked by the teacher, documented in the portfolio.

Strengths:

1. Systematic examination of the quality of the ongoing educational programme for residency. Training in the skills of expert assessment of teachers, members of the CEP, directors of

educational departments for educational residency programmes with the participation of foreign specialists.

Conclusions of the EEC on the criteria. Out of 21 standards conform: fully - 18, significantly - 3, partially - 0, do not correspond - 0

Standard 6: completed

Recommendations for improvement identified during the external visit:

- 1) Expand the list of clinical sites.
- 2) To actively implement academic mobility of residents in alternative organizations inside or outside the country;

Standard 7: PROGRAMME EVALUATION

Monitoring and evaluation of the educational programme is carried out at all levels, a multi-level approach is used, including the profiling / graduating and related departments, the profile Committee of the educational programme, the Department of Academic Work, the Academic Committee, the Senate, the student government, the Centre for the Admission and Career Guidance of Students (general monitoring of the quality educational programmes through a survey of stakeholders (employers, professional associations and students)).

Created by Associate Professor Momynkulov A.O. the programme for residents in the specialty 7R09123 - "Pediatric Surgery" was reviewed and approved at a meeting of the department Protocol No. 8 dated 02/12/2020, CEP No. 4 dated March 3, 2020, the Academic Committee, Protocol No. 3 dated April 20, 2020, Of the Senate of KazNMU Protocol No. 6 dated April 24, 2020 In accordance with the Law of the Republic of Kazakhstan dated July 27, 2007 No. 319-III "On Education (from [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.

Independent monitoring of the final results of the training of residents is carried out by the National Centre for Independent Examination (NCIE) and a survey of employers.

At the Department of Pediatric Surgery, the working group participates in the development and implementation of OP 7R09123 - "Pediatric Surgery", this is the preparation of working curricula, syllabuses of disciplines, CIS, analysis of exam results, polling and questioning of residents, collection of suggestions for improvement from teaching staff and residents).

Reviewing, assessment of control and measuring instruments is carried out by a permanent commission at the CEP. The content of the educational programme, teaching methods, assessment of knowledge and skills, and the quality of educational resources are annually reviewed at the meetings of the department, the faculty council hears the results of the final state certification of residents, intermediate certification, reports and assessment of the diaries of the field practice of residents.

At the request of residents and employers, the catalog of elective disciplines in the specialty 7R09123 - "Pediatric Surgery" was updated with the introduction of "Endoscopic Surgery in Children, Neonatal Surgery".

Continuous monitoring of the quality of the educational process and its correction is carried out on the basis of feedback with the participation of stakeholders, this is the collection, analysis of feedback, through questionnaires of teachers and students, which are held twice a year during the winter and summer sessions.

Based on the results of the survey: (assessment of teachers, department, dean's office, practice, resource equipment of the university) 78% of respondents are satisfied with the learning process in residency. 91% of residents noted the principle of equality in education. Based on the results of the survey, plans for corrective and preventive measures were developed.

Evaluation and improvement of educational programmes is provided by: MH RK - an independent assessment of the knowledge of residents; agreements on cooperation of KazNMU with 8 regions of the Republic of Kazakhstan, agreements with 104 clinical bases in Almaty, with 33

medical institutions in the regions; Employers; Representatives of the Committee for the Control of Medical and Pharmaceutical Services and representatives of practical health care; Scientific centres and research institutes; Representatives of public associations of doctors (Association of nephrologists, rheumatologists, neonatologists, endocrinologists, obstetrician-gynecologists); Members of the public and trade unions - constant feedback in the form of questionnaires and interviews

The results of the assessment are heard at the meetings of the Clinical Council, the Council of the Dean's Office of R&D, MS and US, and are published in the university newspaper and on the university website.

Strengths:

1. Multilevel monitoring and evaluation of the residency educational programme.

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

Standard 7: completed

Recommendations for improvement identified during the external visit:

1) Regularly review and evaluate instrumentation to assess the knowledge and skills of residents and the quality of educational resources.

Standard 8: GOVERNANCE AND ADMINISTRATION

Control and monitoring of the implementation of residency programmes is carried out by the dean's office of the faculty of internship and residency under the supervision of the vice-rector for academic activities (Order of the rector No. 577 dated July 20, 2018) for the educational process and the provost for clinical activities. The assessment of residents and the achievement of the final results of training under the residency programme is carried out on the basis of the final state certification. An order of the rector is issued annually on the conduct of the FSA and the composition of the attestation commission (order No. 356 of December 26, 2019).

On the basis of the order of the Ministry of Education and Science of the Republic of Kazakhstan dated January 28, 2015 No. 39 "On approval of the types and forms of education documents of the state standard and the Rules for their issuance", in accordance with subparagraph 6-3) of Article 5 of the Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 year, residents who have successfully passed the final attestation are issued a certificate of completion of residency and a certificate of a specialist without a category in the specialty 7R09123 - "Pediatric Surgery".

The quality of postgraduate training at the university determines the overall strategy, main directions, priorities and objectives of the University's policy in the field of improving the quality of education in accordance with the mission, vision and strategic development plan of the University. Taking into account the needs of practical health care, promoting the development of the potential of teachers, introducing innovative technologies into the system of training specialists and researchers, ensuring their competitiveness. Monitoring the quality of the implementation of the educational programme.

The transparency of the EP development and approval processes was determined through the sequence of discussion of the residency programme at a meeting of the department, CEP, AC KazNMU, approved by the vice-rector for academic activities with placement in the AIS "Sirius".

AIS "Sirius" provides accessibility, transparency of the educational process for all interested parties.

The department of "Pediatric Surgery" in the implementation of EP interacts with all structures in accordance with the Organizational structure of the University of KazNMU (approved by the Board of Directors No. 1 of 20.03.2019). The Department of Pediatric Surgery implements EP for residents in the specialty 7R09123 - Pediatric Surgery, bachelors, interns and residents of other specialties, as a related discipline.

The principles of achieving the mission of the residency programme, the expected final learning outcomes are based on the analysis of reports, the implementation of the strategic plan (quarterly and at the end of the academic year), internal audit reports (according to the plan), the results of the work of internal and external commissions (annually at the end of May). The results of achieving the students of the residency programme are also an indicator of the effective performance of the academic leadership (current, final control, independent assessment of knowledge and skills).

The compliance of the residency teachers with the goals and objectives of the programme is analyzed based on the results of reporting activities, attestation of teaching staff every 5 years.

The financial and economic policy of KazNMU and the university management structure are determined by the rector, chairperson of the board, head of the DEF responsible for budget management, the department of economics and finance, the management of public procurement and analysis, the IT department and the construction directorate. Funding for the residency programme depends on the formation of an annual government order. In accordance with the order of the Minister of Health of the Republic of Kazakhstan dated June 14, 2004 No. 474 "On approval of the norms for calculating the cost of education for one student, residency student, undergraduate, doctoral student (PhD) in educational organizations and scientific organizations in the field of health within the country on a state educational order (from [changes and additions](#) as of 08.08.2011) "is being held financial and economic calculation of the cost of training a resident within the framework of the state educational order, rational use of funds allocated from the republican budget for the training of specialists with medical and pharmaceutical education. The expenditure of funds is approved by the highest collegial bodies of the university - the Supervisory Board. Accounting and preparation of financial statements is carried out in accordance with the National Financial Reporting Standard No. 2. Separate accounting for the implementation of the Plan of financial and economic activities is carried out in the context of government programmes and income from paid services.

The effectiveness of planning the implementation of the educational programme is ensured by the Department of Administrative and Personnel Work (formation of the staffing table, class schedule). Implementation of the academic mobility programme and the visiting programme at the expense of the university. The educational programme in the specialty "Pediatric Surgery" is new. Residents have not yet left under the academic mobility programme. Training seminars are held annually for teaching staff responsible for QMS at departments and divisions. Internal audit at the university is carried out in accordance with the developed document "Quality Manual", the Regulation on the implementation of the strategy of continuous improvement Kaizen ", which is updated annually.

The university is constantly working to improve the effectiveness of the university management system and the compliance of educational services with the established mandatory requirements of the international standard (ISO 9001: 2015).

Strengths:

I. Financial and economic sustainability of the university.

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

Standard 8: *completed*

Recommendations for improvement identified during the external visit: *not*

Standard 9: CONTINUOUS RENEWAL

The presented material adequately reflects the criteria of this standard.

The pediatric surgery residency educational programme is designed and implemented with the involvement of relevant stakeholders in order to continuously update the educational process and identify shortcomings, which serves as a basis for improvement. With the aim of continuous improvement of the postgraduate educational process in accordance with the best practice of world educational management, taking into account the needs of practical health care in the Republic of Kazakhstan, which is in the process of reforming, it regularly initiates a review and updating of the

process. EP monitoring takes place at 3 levels: QMS audit – 1 time per year; internal department control once a year, according to the approved plan; feedback - questioning.

The competence-oriented model of medical education and continuous improvement of the educational process are provided by the committee of educational programmes, the educational department.

The assessment of the quality of learning outcomes / competencies, assessment of knowledge and skills, the learning environment of the continuous improvement programme of the postgraduate educational process is carried out by experts, a group of testologists. The improvement of the teaching competencies of the teaching staff is carried out by the Course of Pedagogical Skills in full accordance with the developed author's "Model of KazNMU Teacher Competencies" (Certificate of state registration of rights to the copyright object No. 0064 dated January 13, 2016).

The method and form of the exam is determined by the decision of the department, the CEP, the Faculty Council, the Academic Committee of the University Senate. in accordance with the established requirements of the State Educational Standard for Pediatric Surgery (2017, 2020). The knowledge of residents is assessed using test tasks of various levels of difficulty, oral questioning, interviews, skills and abilities are demonstrated by the student on phantoms and instruments in the CPN, at the patient's bedside. The base of test tasks is reviewed annually for PA and FSA of residents. All test tasks are developed according to MCQ of complex level (II and III levels). The content of test tasks and situational tasks includes questions on clinical protocols.

The admission of students annually adapts to changing expectations and circumstances, needs for human resources. The needs of practical health care of the republic in specialists of our profile are regularly analyzed, in connection with these, the Faculty Council annually discusses the policy of selection of students, methods of selection and admission of students, taking into account the circumstances, needs for human resources, changes in basic medical education and the requirements of the curriculum.

The university annually updates the provision on mentoring in accordance with the changing needs in postgraduate education and the basis is the "Personnel policy of KazNMU, which reflects the priorities for the formation of human resources and criteria for the selection of personnel, including the scientific, pedagogical and clinical merits of candidates, certification of employees for compliance with the occupation. positions.

Strengths:

1. Competence-based model of education and continuous improvement of the educational process.

Conclusions of the EEC on the criteria. Out of 4 standards conform: completely - 4, significantly - 0, partially - 0, do not correspond - 0.

Standard 9: completed

Recommendations for improvement identified during the external visit: none

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 carrying out the examination as part of the tasks of the external peer review programme were found.

6. Recommendations for improving the educational programme of residency in the specialty 7R09123 - "Pediatric surgery" KazNMU:

- 1) Continue introducing innovations in the learning process, allowing the development of basic and special competencies of residents.
- 2) To more actively use methods of critical assessment of literature, articles and scientific data in teaching residents, the use of scientific developments.
- 3) Strengthen the scientific component in the educational process of the residency programme.
- 4) Strengthen the work on practicing the practical and communication skills of residents in the Simulation Centre.
- 5) Strengthen work on the development and support of teachers and mentors on improving professional and pedagogical competencies.
- 6) In the regulation on mentoring, provide for the requirements for the selection of personnel, including the scientific, pedagogical and clinical merits of candidates, the results of certification of employees for compliance with the position held.
- 7) Expand the list of clinical sites
- 8) Expand the list of clinical sites.
- 9) To actively implement academic mobility of residents in alternative organizations inside or outside the country;
- 10) Strengthen the academic mobility of teachers of the department for regional and international exchange;
- 11) Strengthen the scientific component in the educational process of the residency programme.
- 12) Regularly review and evaluate instrumentation to assess the knowledge and skills of residents and the quality of educational resources

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 7R09123 - "Pediatric surgery" for a period of 5 years

Chairman	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	Zhantelieva 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	Tarasjukov Alexander Andreevich	
The observer ECAQA	Umarova Makpal Aldibekovna	

Quality profile and external evaluation criteria (summary)
Of educational programme in the specialty of residency 7R09123 - "Pediatric Surgery"
KazNMU

St an da rd	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	16	1		
2.	EDUCATIONAL PROGRAMME 31 = 22/9	30	1		
3.	ASSESSMENT OF TRAINEES 11 = 7/4	11			
4	TRAINEES 30 = 18/12	30			
5	TRAINERS 7 = 5/2	6	1		
6.	EDUCATIONAL RESOURCES 21 = 10/11	18	3		
7.	PROGRAMME EVALUATION 15 = 10/5	15			
8	GOVERNANCE AND ADMINISTRATION 15 = 8/7	15			
9	CONTINUOUS RENEWAL 4 = 1/3	4			
	Total: 151 = 91/60	145	6		
		151			

List of documents requested by EEC members within the framework of accreditation

No.	Names of documents	number	Date approved
1.	The work plan of the department for the 2020-2021 academic year	1	
2.	Educational programme in Russian	1	08/24/2020
3.	Educational programme in Kazakh language	1	08/24/2020
4.	Methodological security map	1	
5.	Order for those responsible for the EP	1	09/30/2020
6.	Academic mobility order	1	02.02.2020
7.	Clinical bases	1	
8.	Department regulations	1	02/11/2020
9.	Academic policy of the university	1	28.08.2019
10.	Academic calendar	1	08/14/2020
11.	IEP of student residency	2	02.09.2019
12.	The act of introducing scientific achievements into the educational process	2	04/20/2015
13.	Clinical Mentoring Statement	1	
14.	SOP "Rules for the current monitoring of student progress"	1	11.11.2019
15.	SOP "Organisation and conduct of intermediate and final control" of the student	1	11.11.2019
16.	SOP "Organisation and Conduct of a Written Exam"	1	11.11.2019
17.	SOP "Procedure for the development of tasks in test form"	1	11.11.2019
18.	SOP "Development and approval of a system for assessing educational achievements"	1	11.11.2019
19.	SOP "Organisation and Conduct of the Final State Attestation of Graduates"	1	11.11.2019
20.	Composition of the IGA Appeal Commission	1	11.11.2019
21.	The system for assessing the educational achievements of residents for the 2020-2021 academic year	1	
22.	List of Resident Mentors	1	
23.	Resident Curator List	1	
24.	Job descriptions of the staff of the department	5	02.09.2019

