

To Accreditation Council  
Of the Eurasian Centre for Accreditation  
and quality assurance in Higher education  
and Health care  
s

May 30, 2021

**REPORT  
OF THE EXTERNAL EXPERT COMMISSION  
ON THE RESULTS OF THE ASSESSMENT OF THE EDUCATIONAL PROGRAMME  
7R01130- "PEDIATRICS"  
OF ASFENDIYAROV KAZAKH NATIONAL MEDICAL UNIVERSITY FOR  
COMPLIANCE WITH STANDARDS OF ACCREDITATION OF POSTGRADUATE  
EDUCATION PROGRAMMES (RESIDENCE SPECIALTIES) IN MEDICAL EDUCATION  
ORGANIZATIONS**

**period of external expert evaluation: 26.05.-28.05.2021**

**Almaty, 2021**

## CONTENT

	List of symbols and abbreviations	2
1.	EEC composition	3
2.	General part of the final report of the EEC	5
2.1	Presentation of the NJSC "Asfendiyarov Kazakh National Medical University "(KazNMU) and the educational residency programme in the specialty 7R01130 - " Pediatrics "	5
2.2	Information about previous accreditation	9
2.3	Analysis of the self-assessment report of the educational programme of residency in the specialty 7R01130 - "Pediatrics"	9
3.	Description of the stages of external expert evaluation and conclusion	11
4.	Analysis for compliance with accreditation standards based on the results of an external assessment and an educational residency programme in the specialty 7R01130 - "Pediatrics" and an overview of the strengths for each standard	25
5.	Recommendations for the improvement and educational programme of residency in the specialty 7R01130 - "Pediatrics» of KazNMU	37
6.	Recommendation to the ECAQA Accreditation Council	37
7.	Attachment 1. Quality profile and criteria for external assessment and the educational programme of residency in the specialty 7R01130 - "Pediatrics" of KazNMU for compliance with the ECAQA Accreditation Standards	38
8.	Attachment 2. List of documents studied by members of the EEC in the framework of specialized accreditation	39

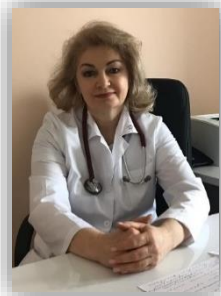
### LIST OF SYMBOLS AND ABBREVIATIONS:

GPA	Weighted average assessment level of educational achievements of a student in the chosen specialty
ECTS	European Credit Transfer and Accumulation System
PBL	Problem-based learning
TBL	Team-Oriented Learning
AIS - NJSC "KazNMU"	Automated information system of KazNMU
AC KazNMU	Academic Council of KazNMU
JSC RIC&IM	Joint Stock Company "Research Institute of Cardiology and Internal Medicine"
AMP	Administrative and management personnel
BD (O)	Basic disciplines (training)
GD	General doctor
University	Higher educational institution
SAC	State Attestation Commission
Civil Defense and Emergencies	Civil defense and emergencies
SCES	State compulsory education standard
DAD	Department of Academic Development
DS&HR	Department of Science and Human Resources
DET	Distance educational technologies
DEMW	Department of educational and methodical work
ECAQA	Eurasian Centre for Accreditation and Quality Assurance in Higher Education and Health care
FSA	Final state certification
IPE	Institute of Postgraduate Education
IEW	Individual educational work (resident)
KRIOR	Kazakh Research Institute of Oncology and Radiology
CVI	Coronavirus infection
COC	Component of choice
CEP	Committee for educational programmes
QED	Catalog of elective disciplines
CEL	Clinical and experimental laboratory
MoH RK	Ministry of Health of the Republic of Kazakhstan
MES RK	Ministry of Education and Science of the Republic of Kazakhstan
MEO	Medical education organization
MJ RK	Ministry of Justice of the Republic of Kazakhstan
IAAR	Independent Agency for Accreditation and Rating
NJSC "KazNMU"	Non-profit joint-stock company "Asfendiyarov Kazakh National Medical University"
Research Institute FAM	Research Institute of Fundamental and Applied Medicine named after B. Atchabarov
RWR	Research work of a resident

IQAA	Independent Kazakh Agency for Quality Assurance in Higher Education
SSC	Scientific student circle
STP	Scientific and technical programme
NCIE	National Centre for Independent Examination
SC	Science Centre
SCS	Scientific Centre of Surgery
SCOGP	Scientific Centre for Obstetrics, Gynecology and Perinatology
SCP&PS	Scientific Centre for Pediatrics and Pediatric Surgery
PO	Public organization
EP	Educational programme
DP&CEP	Department of planning and control of the educational process
OSCE	Objective structured clinical examination
IC	Intermediate certification
MG	Major disciplines (training)
PHC	Primary health care
NCDMP	Noncommunicable Disease Management Programme
RSE on REM	Republican state enterprise on the right of economic management
WC	Working curricula
QMS	Quality Management System
SOP	Standard operating procedures
IWR	Independent work of residents
SC	Simulation centre
IWRST	Independent work of a resident under the supervision of a teacher
TC	Typical curriculum
ERWR	Educational and research work of residents
EMA	Educational-methodical association
UC	University clinic
AC	Academic Council
CCU	Centre of collective usage
GCV	Graduate Career Centre
STE	School of teaching excellence

## 1. Composition of the External Expert Commission

In accordance with ECAQA Order No. 19 dated April 26, 2021, an External Expert Commission was formed to conduct institutional accreditation and accreditation of educational programmes for specialties of KazNMU residency during May 26-28, 2021, in the following composition:



### **Chairperson of the External Expert Commission**

**MORENKO MARINA ALEKSEEVNA,**  
Doctor of Medical Sciences, Professor, Head of the Department of Children's Diseases with courses of allergology, immunology, hematology and endocrinology  
NJSC "Astana Medical University"

Vice President of the Association of Allergists and Clinical Immunologists of the Republic of Kazakhstan, Member of the Union of Pediatricians of Russia

### **Foreign expert (online)**

**NASYROV RUSLAN ABDULLAEVICH,**  
Doctor of Medical Sciences Professor,  
Vice-rector for scientific work,  
Head of the Department of Pathological Anatomy with the course of forensic medicine  
St. Petersburg State Pediatric Medical University of the Ministry of Health of the Russian Federation, Member of the New York Academy of Sciences



### **Foreign expert**

**RYZHKIN SERGEY ALEXANDROVICH**  
Doctor of Medical Sciences, Deputy Director of the Russian Medical Academy of Continuous Development (Moscow), Associate Professor of the Department of Radiation Diagnostics, Head of the Department of Additional Professional Education of the Kazan State Medical Academy, accredited expert of the Federal Service for Supervision in Education and Science (Rosobrnadzor).



### **National academic expert**

**DZHANDAIEV SERIK ZHAKENOVICH,**  
Doctor of Medical Sciences,  
Professor Department of Otorhinolaryngology  
NJSC "Astana Medical University"  
Academician of the "International Academy of Head and Neck Surgery"





**National academic expert**  
LIGAY ZOYA NIKOLAEVNA,  
Doctor of Medical Sciences,  
head of the department of general medical  
practice with a course of medical care  
NJSC "Kazakh-Russian Medical University"



**National academic expert**  
MADYAROV VALENTIN  
MANARBEOVICH,  
Doctor of Medical Sciences, Head of the  
Department of Surgery with a course of  
anesthesiology and resuscitation, NJSC  
"Kazakh-Russian Medical University"



**National academic expert**  
ZHANALINA BAHYT SEKERBEKOVNA,  
Doctor of Medical Sciences, Professor of the  
Department of Surgical and Pediatric Dentistry  
NJSC "West Kazakhstan Medical University  
named after Marat Ospanov"  
Excellence in Health care of the Republic of  
Kazakhstan



**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**  
KUDABAEVA KHATIMIA ILYASOVNA,  
Candidate of Medical Sciences, Professor  
Department of Internal Medicine №1  
NJSC "West Kazakhstan Medical University  
named after Marat Ospanov "



**National academic expert**  
ABDULLINA VENERA RAVILEVNA,  
Candidate of Medical Sciences,  
Associate Professor of the Department of  
Ophthalmology  
NJSC "Kazakh-Russian Medical University"



**National academic expert**

IGIMBAEVA GAUKHAR TLEUBEK KYZY,  
Candidate of Medical Sciences, Professor,  
Republican Coordinator of Continuous  
Professional Development of Health Personnel  
on the Issues of Mortality Reduction from BSC  
of the Ministry of Health of the Republic of  
Kazakhstan, Consultant Cardiologist of the  
Highest Category at the Orhun Medical Clinic  
(Turkey-Kazakhstan)



**National academic expert**

KABILDINA NAILA AMIRBEKOVNA.  
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and Radiation Diagnostics,  
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"Medical University of Karaganda"



**National academic expert**

KUSAINOVA FARIDAT AZYMOVNA,  
Candidate of Medical Sciences,  
Associate Professor of the Department of  
Obstetrics, Gynecology and Reproductive  
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LLP "Institute of Reproductive Medicine",  
Almaty



**National academic expert**

BACHEVA IRINA VIKTOROVNA,  
PhD in Medicine,  
Associate Professor of the Department of  
Internal Medicine Head of the educational  
programme of residency in the specialty  
"Nephrology, including adult» of NJSC Medical  
University of Karaganda



**National academic expert**

MAUKAEVA SAULE BORANBAEVNA,  
candidate of medical sciences, doctor of the  
highest category,  
Head of the Department of Infectious Diseases  
and Immunology  
NJSC "Semey Medical University"



**National academic expert**

OSPANOVA NARGUL NARIMANOVNA,  
Candidate of Medical Sciences,  
Associate Professor at the Department of  
Psychiatry  
NJSC "Semey Medical University"



**Expert -employers' representative**

SERGEEVA ELENA NIKOLAEVNA,  
Master in Public Health,  
cardiologist of the highest category,  
Head of the Department of the City Cardiological  
Centre in Almaty.



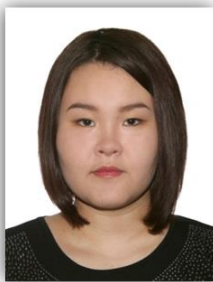
**Expert - resident representative**

ABBASOVA DIANA,  
resident of the first year of study in the specialty  
"Radiation diagnostics"  
NJSC "Kazakh-Russian Medical University"



**Expert -resident representative (online)**

ILYASOV ELDAR RASHITOVICH,  
resident of the first year of study in the specialty  
"Oncology" of the Pavlodar branch of the NJSC  
"Semey Medical University".



**ECAQA Observer**

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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 "7R01130 - Pediatrics» of KazNMU for compliance with Accreditation Standards programmes of postgraduate education (specialty residency) of medical educational institutions of ECAQA, recommendations of the EEC on the further improvement of the educational activities of KazNMU in the field of postgraduate education.



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

### **2.1 Presentation of the NJSC "Asfendiyarov Kazakh National Medical University "(KazNMU) and the educational residency programme in the specialty" 7R01130 - Pediatrics ".**

Since 2018 at KazNMU reorganized into a non-profit joint-stock company (NJSC) in accordance with the decree of the Government of the Republic of Kazakhstan (dated April 5, 2018 No. 166) and received the status of a research university (decree of the Ministry of Health of the Republic of Kazakhstan dated 11/12/2018). KazNNMU conducts training of students on the basis of 106 health care organizations, including 5 research centres affiliated with the university. There are also 4 university clinics: Aksai clinic, internal medicine clinic of KazNMU, professorial clinic of KazNMU, dental clinic.

The university successfully implements dual training with involvement in the development and implementation of educational programmes of employers and field training of interns and residents in the regions of the Republic of Kazakhstan, branches of KazNMU in Taldykorgan, Taraz and Kyzylorda and other regions of Kazakhstan.

The first admission to residency was held in 2008. The first issue of residents was carried out in 2010.

Currently, in accordance with the state license No. KZ74LAA00017008 of 09/19/2019, training is carried out in Kazakh, Russian and English at undergraduate and postgraduate levels of training in 44 specialties of residency.

In KazNMU from 2016 to 2020, 5422 people received postgraduate education, including 719 residents.

**Employment of residency graduates** over the past 5 years is 100%.

The staff of the University is 2099 people. Of these, the teaching staff - 1283, incl. academicians - 9, doctors of sciences - 151, candidates of sciences - 401, doctors of PhD - 20. The teaching staff of KazNMU has a high scientific and pedagogical potential. The holders of the grant of the Ministry of Education and Science of the Republic of Kazakhstan "The best teacher of the Republic of Kazakhstan" are 17 university teachers.

In the international institutional rating ARES among Kazakhstani universities in 2020, KazNMU took the fourth place in the overall ranking of universities, and a leading position among medical universities of the republic.

According to the results of the rating assessment of medical universities, research institutes, scientific centres of the Republic of Kazakhstan, conducted by the Republican Centre for Health Development, according to indicators of scientific and innovative activities for 2019 and an assessment of the dynamics of rating indicators over the past three years, KazNMU took 1st place. In November 2019, KazNMU became the owner of the 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" according to the international information and analytical platform Web of Science.

According to a social online survey, according to the information of the President of the Alliance of Students of Kazakhstan Ilyas Tustikbaev, NJSC Asfendiyarov KazNMU entered the TOP 10 best universities in Kazakhstan.

According to the results of the National rating of the best universities in Kazakhstan -2019, conducted by the Independent Agency for Quality Assurance in Higher Education (IQAA), KazNMU took 1st place in the institutional rating in the category of medical universities... In the institutional rating of the IAAR in 2019, KazNMU took 2nd place in terms of demand.

In the published Webometrics Ranking of World Universities, which evaluates more than 30 thousand educational institutions around the world, KazNMU entered the four best sites in the country and in the 11 best sites in the world.

Currently, 40 educational programmes at 4 levels of education are accredited by the IAAR. Since 2018, KazNMU has a certificate of institutional accreditation for 5 years.

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.

KazNMU is a member of the following international associations: **AMEE, Association Siberian Open University, UNAI.**

During the period of implementation of KazNMU, 124 agreements on cooperation with universities, medical and scientific organizations of 34 countries of the near and far abroad have been concluded.

For the period from the 2015-2016 academic year to the 2019-2020 academic year, 107 visiting professors were invited. External outgoing and incoming academic mobility for the reporting period amounted to 59 university employees and 172 residents.

KazNMU was visited by visiting professors from Turkey, Russia, Lithuania, Warsaw, Georgia, Ukraine, Belarus. Academic mobility of professors and teachers –16. Outgoing external academic mobility of residents - 22.

Within the framework of the Erasmus + programme in 2015 agreements were signed with European universities - Finland, Lithuania, Spain, Estonia. In 2020, KazNMU won 4 grants for projects: AccelEd, HARMONE, LMQS, FOR21, aimed at promoting the modernization and sustainable development of the education and training system.

The main educational, scientific and clinical structural unit of KazNMU, which coordinates training in residency is the dean's office of internship and residency, renamed from August 3, 2020 to the faculty of postgraduate education.

Total number of students in residencyv 2019-2020 years is 457 residents, including in the specialty 7R01130 - "Pediatrics" - 27 people. In 2019 and in 2020dah 158 and 146 residents were graduated respectively, in the specialty 7R01130 - "Pediatrics" - fourteen and 19 residents, respectively.

The total number of teachers involved in the educational process of residency in the above specialty is 12 people, among them, MD - 2, Ph.D. - 4, no degree (presence of a medical category) - 6 (clinical mentors).

## **2.2 Information on previous accreditation**

Accreditation of the educational programme of residency in the specialty 7R01130 - "Pediatrics» of KazNMU was held in 2016 by the Accreditation Body of the IAAR.

## **2.3 Analysis of the self-assessment report of the educational programme of residency in the specialty "7R01130 - Pediatrics".**

Preparation for specialized accreditation of KazNMU was carried out on the basis of order No. 91 dated February 26, 2021 "On approval of the composition of the working group for preparation for self-assessment of educational programmes of KazNMU residency"

Self-assessment report educational programme presented on 187 pages of the main text, from the bottom 25 pages of applications in the form of 17 tables and PDF documents, electronic versions of more than 45 documents, including documents of the Regulatory framework, Orders of the university, the Ministry of Health of the Republic of Kazakhstan, MES, Instructional letters, Reports on the FSA, Reception commissions, Work Plans of Departments, SOPs, Regulations on the activities of university departments, etc.) follow the link in googledisk <https://drive.google.com/drive/folders/1FjbOSq-JcHvquVn42DkTdJ5p-VCFLmbb?usp=sharing>,

The report is characterized by answers to the criteria for each of the 9 accreditation standards, structuredness taking into account the recommendations of the ECAQA Self-Assessment Guidelines for educational programmes, as well as internal consistency of information.

The report is accompanied by an accompanying a letter signed by the rector 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 - A.N.Baimakhanov, Dean of the Faculty of Postgraduate Education.

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, development dynamics since the date of the previous accreditation in 2016 have been collected, the necessary information has been collected in accordance with the Accreditation Standards for Postgraduate Education Programmes (specialties of residency) of medical educational institutions of ECAQA (hereinafter referred to as accreditation standards); analysis, updating of methodological and educational materials, relevant documents on residency (regulations, rules), their content is reflected in the report. The content of the Self-Assessment Report is structured in accordance with the ECAQA Accreditation Standards.

All standards show actual practice KazNMU for training residents in the specialty 7R01130 - "Pediatrics" at the same time, the beginning of the training was carried out in 2008, in 2019-2020 and 2020-2021. learns 14 and 23, respectively. Self-assessment report specialty 7R01130 - "Pediatrics" contains specific data, examples of the implementation of the objectives of the educational programme, demonstrated the assessment of residents, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. Self-assessment report description is fairly completed and updated in terms of the number of residents, teachers, administration, information about the selection and admission, the results of training, the results of the assessment of knowledge and skills, the material and technical base of the university and clinical bases, contractual obligations with partners (medical organizations, practice bases, universities), financial information, plans for development and improvement, etc.

At the same time, it should be noted that in the submitted self-assessment report there was no information on the creation of a commission in KazNMU to conduct a self-assessment of the declared specialty and information on previous accreditations of the declared specialty. A number of recommendations were made, recommendations for correcting and supplementing the report:

1. Minutes of the meetings and / or other documents should be provided confirming the discussion of the mission and learning outcomes of the programme with key stakeholders, residents, faculty, AMP (1.4.2).

2. How the educational organization informs the medical community about the established final learning outcomes on the residency programme in the relevant specialty (1.3.3).

3. Demonstrate availability (example) in an educational programme of components with a scientific basis and methodology of medical research, including clinical research and clinical epidemiology (2.2.1).

4. Provide documented evidence of participation in the planning, discussion, approval and review of the educational programme of representation of employees, residents and other relevant stakeholders. It does not describe what recommendations were made by stakeholders during the development and writing of the educational programme (2.5.2).

5. Tab. 7, 8 (section 2.3.2; 2.6) p. 43-44 and tab. 16 on p. 93-44 duplicate information. Align tab. 16 and the following table (5.1.1).

6. Add to the self-assessment report information about residents who participate in the activities of management bodies and their impact on the educational process (Standard 4).

7. There is a complete duplication of information about the members of the IAC (4.1.4) p. 74 and p. 67 (3.1.8.).

8. Appropriate Tab. 20. Information about the students who participated with the report in scientific competitions, conferences at the republican level should be presented in the section of Standard 4. Students.

9. Supplement data on the structure of the organization that evaluates the educational programme (7.5.1).

10. Indicate whether the educational programme has been evaluated and compared with the best foreign practices in a similar specialty, and whether any changes have been made to the current educational programme (7.1.4)

11. Describe what resources the University has to ensure access of stakeholders (teachers,

residents, employers, employees) to the results of the EP assessment (website, meetings, newsletters, conferences on education) (7.4.2).

12. Describe the recently carried out and planned activities aimed at ensuring a timely response of the medical educational organization to changing conditions (9.1)

13. Indicate what plans are in place to improve the material and technical base in accordance with the identified needs and priorities of the educational programme (9.4)

14. Describe what mechanisms are used to determine the needs for staff and teachers, taking into account the specific local conditions (9.2).

During the visit, the answers to these questions were received and the self-assessment report was corrected.

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

Thus, the self-assessment report of the accredited educational residency programme 7R01130 - "Pediatrics» of KazNMU contains objective, detailed, structured information on all types of activities in accordance with the ECAQA accreditation standards, and the university made appropriate corrections in the report at the expert evaluation stage, and the missing data were supplemented and presented. All these recommendations (14 in total) were answered, and supporting documents were prepared.

### 3. Description of external expert evaluation

External expert work on the evaluation of the educational programme residency in the specialty 7R01130 - "Pediatrics" was organized in accordance with the Guidelines for conducting an external assessment of educational organizations and educational programmes of ECAQA (approved by order of the Director General of "Eurasian Centre for Accreditation and Quality Assurance in Higher Education and Health care" No. 5 dated February 17, 2017) and according to the programme and schedule approved on May 11 .2021 Director General of ECAQA Sarsenbayeva S.S. and agreed with the rector prof. Nurgozhin T.S.

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 and teachers, observation, studying the website, interviewing employees of various structural units, questioning teachers and residents, reviewing resources with a visit to clinical bases in the context of the implementation of accreditation standards, attending practical (seminar) classes of residents, including online in a pandemic, studying regulatory and educational documents both before a visit to KazNMU and during a visit.

On the part of the university staff, the presence of all persons indicated in the visit programme and according to the lists of interview sites is ensured (Table 1).

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

<b>N o.</b>	<b>FULL NAME.</b>	<b>Position</b>
1.	Bayldinova K. Zh.	Vice-rector for academic affairs
2.	Baymakhanov A.N.	Dean of the Faculty of Postgraduate Education
3.	Tusupbekova S.K.	Director of the Department of Academic Affairs
4.	Kulzhakhanov S.S.	Head of the Alumni Career Centre
5.	Nagasbekova B.S.	Head of Human Resources Development Department
6.	Sapakova M.M.	Head of HR Department
7.	Tulepbaeva G.S.	Head of Clinical Department

8.	Nurmakhanova Zh.M.	Chairperson of the Committee of Educational Programmes
9.	Ensegenova Z. Zh.	Chairperson of the Committee of Educational Programmes
10.	Modovov N.A.	Library manager
11.	Saliev T.M.	Head of the Atchabarov SRIFM
12.	Balmukhanova A.V.	Deputy Head of the Atchabarov SRIFM
13.	Askarov E.	Head of the youth department Politicians

All events of the EEC visit during May 26-28, 2021 are detailed in the Visit Programme, which is located in the documentation of the accreditation centre and in the Attachment to this report.

On the first day of the visit to KazNMU, a meeting was held with the key organizers of the educational process of postgraduate education - the Vice-Rector for Academic Activities, the Dean of Postgraduate Education and the Director for Academic Affairs of the university.

05/26/21 a meeting was held with the Vice-Rector for Academic Affairs **Bayldinova K. Zh...** The Chairperson of the EEC presented to the Vice-Rector the composition of EEC and provided information on the purpose of the visit. During the interview, evidence was obtained that the mission of the residency programme and the mission of the university are fully consistent with each other. The vice-rector announced a strategy for the development of postgraduate education, including residency programmes, which indicates a clear vision of the university and an interest in improving residency programmes, taking into account the needs of practical health care.

Baydildina K. Zh. noted that the credit technology of training used at the University implies an increase in the responsibility of residents for the learning process, then it is accompanied by an increase in the volume of independent work of residents (IWR). One of the key competencies of the model of medical education in residency is the formation and development of the skill of self-development and self-improvement throughout life. The goals and objectives of the IWR are described in the Academic Policy of the University, in the syllabuses of the EP, where the forms of carrying out and monitoring this competence are presented.

On the same day, a meeting was also held with the **Dean of the Faculty of Postgraduate Education Baimakhanov A.N. and Director of the Department for Academic Work Tusupbekova S.K.** As part of the interview, the members of the EEC managed to find out how the internal quality assurance policy in postgraduate education in the context of ESG. To search for evidence of compliance with standard 4, experts asked questions about the current status of a resident in accordance with the Health Code of the Republic of Kazakhstan. The following tasks of the dean's office were also analyzed - the formation of state orders for specialties, the admission of residents, the provision of resources, the assessment of educational programmes of residency. It was found that the dean's office closely cooperates with the departments teaching residents. Residency programme resources are provided by cooperation with such foreign partners in Finland, Lithuania, Spain, Estonia, Turkey, Russia, Lithuania, Warsaw, Georgia, Ukraine, Belarus. From a conversation with the dean, it was determined that the residents work in the clinics in a safe environment.

**When interviewing the head of the Graduate Career Center Kulzhakhanov S.S.,** experts assessed approaches to implementation of monitoring the employment of residents. In general, the employment rate is very high and amounts to 100%, at the same time it is necessary to conduct monitoring over several years. The experts studied the results of a survey of graduates and 64 employers about the level of satisfaction of employers and other stakeholders with the quality of training of residents.

The results of the survey showed the satisfaction of employers with the quality of training of residents (theoretical training, possession of practical skills, communication skills, etc.). Residency graduates by specialty 7R01130 - "Pediatrics" work after graduation in the leading medical institutions

of the country, city, regions, annually as teachers of the departments of the university, continue their studies in doctoral studies.

Interview with the head of the human development department **resources** Nagasbekova B.S. and the head of the personnel management department Sapakova M.M. included obtaining information on providing the staff of the department of residency, compliance with the qualification requirements for teaching staff. The policy of recruiting mentors, the system of motivation of teaching staff and mentors used in the university and its results have been analyzed. Members of the EEC asked questions about the mechanisms, the timing of certification of teaching staff at the university, about the attitude towards employees of retirement age, about the possibilities of their participation in the competition for filling vacant positions at the managerial level. In general, exhaustive answers were received, which characterized the selection policy of teaching staff as transparent, the university has a real opportunity for professionals with work experience (having a retirement age) to continue their activities on a competitive basis annually.

**Supervisor** Department of Clinical Work Tulepbaeva G.S. reported to the experts on provision of resources for clinical practice and work of residents, on cooperation with clinical bases. In the conversation, the head of the department noted that the university signed agreements on cooperation with 104 medical organizations, among them: Subsidiaries -5, hospitals -52, PHC -52, EC-4, SCs, Research Institute-9, Republican - 3, Regional - 3, Stationary organizations - 29, Maternity at home - 4, TB organizations - 2, PHC organizations - 30, Private MC, LLP –26, Central regional hospitals - 2, Other medical organizations - 1 located in Almaty, Almaty region and 8 regions of the Republic of Kazakhstan.

Gulzhan Sovetovna also gave a description of mentoring in residency, representation of residents in consultative and advisory bodies (CAB). The Mentoring Statement was developed in 2019. Mentors are the staff of the department and doctors of practical health care of clinical bases.

Interview with chairperson of educational programmes committees Nurmakhanova Zh.M. and Ensegenova Z.Zh. The organizers of this profile of educational activities answered all the questions of the EEC members. During the conversation, it was established that the functions of the CEP include analysis of teaching methods, examination of the quality of educational programmes, approval of syllabuses, monitoring the compliance of teaching methods in relation to disciplines or topics of EP, distribution of disciplines by hours, semesters, policies and methods for assessing residents, score sheets for all types of assessment, review of control and measuring instruments, form conducting exams.

The procedure for the development and approval of educational programmes for specialties was described in detail, starting with departments, working groups of specialties, approval at the CEP and the Academic Commission at the University Senate. It was also noted that once a year round tables are held to discuss the content of educational programmes, with the involvement of interested parties (students, employers, graduates of various specialties). As a rule, independent experts, a group of testers are involved in the work in the CEP, who monitor the quality of the lessons, the quality of writing tests.

Interviews with residents were held, while the EEC was divided into 5 subgroups for a more detailed clarification of issues related to training, resources and training methods. In total, 55 residents were present at the interview, of which according to the programme "7R01130 - Pediatrics" 1 resident of the 1st course of study - Camidolla Elnur, who took an active part in the interview.

**Interview with 55 residents**, students on the accredited educational programme took place in an online format, nevertheless, they managed to get answers to the following questions: When asked whether they were satisfied with the organization of teaching, whether there was enough time for practical training, positive answers were given; Are the teachers of the programmes aware of the problems of residents, is there support from the departments and the dean's office in the event of unforeseen situations. To these questions, the students also answered that there is real support in everything from the teaching staff and mentors; Whether the teachers of the residents have provided enough educational and methodological literature, whether the library resources of the university

satisfy them, positive responses were also received on these questions; Do you recommend studying at KazNMU in the selected specialties, almost everyone answered that they would certainly recommend it.

Experts asked questions about satisfaction with training at KazNMU, sufficient time for supervising patients, work in Damumed with medical documentation, satisfaction with teaching methods and qualifications of teachers, social and moral support for residents in need of this, availability of international databases of professional literature by the resource. In general, the residents are satisfied with the training, assessment methods, and purposefully entered this organization, since they believe that KazNMU has good educational resources, image and international connections.

Residents showed their commitment to the organization of education, were active in answering questions from external experts, demonstrated their judgments on the organization of training, assessment of their skills, advisory support, opportunities to participate in research and development, funding, demonstrated competence in answering questions from foreign experts - MD. Sci., Associate Professor Ryzhkin S.A. (Moscow / Kazan), Nasyrova R.A. Doctor of Medical Sciences professor (St. Petersburg).

As part of the visit to KazNMU, an interview was also held with the head of the library Modovov N.A., which made it possible to estimate provision of the residency programme with educational, methodological and scientific literature, including electronic forms. So, under the accredited programme "Pediatrics" there are 14 textbooks (of which in Russian 440 copies, in Kazakh - 403, in English - 6, monographs - 20, the university purchases the journal "Pediatrics" named after G.N.Speransky (Moscow), " Questions of modern pediatrics "(Moscow), there is access to international databases: Web of Science - webofknowledge.com, Elsevier - Scencedirect - scencedirect.com, Scopus - scopus.com, Cochrane Library, DynaMedPlus, MEDLINE Complete, eBook Clinical Collection, RIEB - rmeb.kz, Epigraph Database, which provides an opportunity for residents and teachers to participate in research and development and other activities.

**Interview with the manager** of Atchabarov SRIFM Saliev Timur Muydinovich and deputy Balmukhanova Aigul Vladimirovna allowed the experts to learn about the scientific directions of the university, the system of motivation and participation in R&D of teachers of the departments of residency and residents, about the organization of R&D by residents on practice bases, the possibility of publishing R&D results of residents and teachers in journals, including university journals. KazNMU Bulletin and the journal "Pediatrics and Pediatric Surgery".

To strengthen scientific management and develop the integration of medical education, science and practice, KazNMU included five largest research centres, including JSC SCP&PS, JSC RIC&ID, which is the base institution where developments in pulmonology, gastroenterology, cardiology, nephrology are carried out, rheumatology. Issues of urgent cardiology are being investigated on the basis of the MCC; gerontology, thrombosis - on the basis of JSC "Central Clinical Hospital"; studies of the hematological profile - in the City Clinical Hospital №7. Thus, residents have the opportunity to satisfy their scientific interests in all areas. It was noted that residents are involved in research within the framework of proactive scientific directions only in conjunction with the department executives. During the interview, answers were received to all questions of interest. EEC members have recommended using the high scientific potential of residents, involve them more widely in scientific research at the Atchabarov SRIFM.

One of the important tools for accreditation expertise is the conduct and **interviews with employers - representatives of practical health care**, which are not affiliated with KazNMU. A total of 16 people were interviewed, including 1 representative of the specialty "Pediatrics" L.N. Manzhukova. - Deputy director of the National Centre for the Study of Artists. During the interview, I was able to note that graduates of this specialty are in great demand in practical health care, they are distinguished by a sufficient level of both theoretical and practical training, and they fully possess communication skills in working with patients and colleagues.

Interviews with 64 employers on all the educational programmes of residency of KazNMU declared for accreditation were conducted online and included such questions as: knowledge of the

university mission, participation in the development of the mission and proposals in the strategic plan, participation in the deliberative bodies of KazNMU, satisfaction with 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, 100% employment of residency graduates. The employers also expressed their wishes to increase the rotation of educational programmes, namely, passing the practical part of training in the regions.

Thus, during the first day of the visit, the expert validated the data of the self-assessment report of the educational programme according to standards 1,4,7,8 and partially 6.

### **The second day of the visit is May 27, 2021.**

In order to assess the resources that ensure the effective implementation of the educational programme, the expert visited Scientific Centre for Pediatrics and Pediatric Surgery (SCP&PS). SCP&PS is a multidisciplinary clinic that provides high-tech medical care to children of various ages, incl. newborns (department of nursing newborns), implementing into practice unified internationally recognized minutes of the meetings for the treatment of diseases of newborns, pathology of the lungs, gastrointestinal tract, blood, malignant neoplasms. There are departments of oncology and hematology, a day hospital, a department for hematopoietic stem cell transplantation, a department of surgery for oncological patients, a department of intensive care and intensive care for hematological and oncological patients, a department of radiation diagnostics and ultrasound, a highly equipped modern laboratory of immunology, cytogenetics, molecular genetics.



Meeting of EEC members at the entrance to the clinical base of the university SCP&PS



Meeting with residents of the Department of Pediatric Diseases with a course of neonatology

A resource review showed that the university's clinical base SCP&PS for the implementation of an accredited educational programme, available for review at the time of an external visit, corresponds to the goals and objectives, since it contains a sufficient number of thematic patients, modern equipment and demonstrates accessibility to students, and employees who simultaneously perform the roles of teachers and curators (mentors) provide high-quality training in compliance with ethics and deontology. Before the start of the corresponding discipline of the educational programme, the resident receives a syllabus from the teacher and knows what skills he must acquire and develop during training.

The experts examined the documentation on the educational programme 7R01130 - "Pediatrics" link <https://drive.google.com/drive/folders/1FjbOSq-JcHvquVn42DkTdJ5p-VCFLmbb?usp=sharing>, which confirmed the compliance with accreditation standards and also the following documents were studied at the request of EEC members:

1. EMCD for EP "Pediatrics" (for 2019-2020, 2020-2021),
2. Syllabuses,
3. Timetable of classes,
4. Staffing table,



5. Didactic material,
6. Resident portfolio,
7. Individual teacher plans,
8. Plans and reports of the department, selectively documents in accordance with the Nomenclature of affairs of departments
9. Feedback from teachers.



EEC members study supporting documents for EP "Pediatrics"

The experts studied the documents of residents (portfolio, results of assessment of residents-checklists, results of a questionnaire survey of residents). EEC members visited a training simulation class at SCP&PS, where residents in the workplace can practice the necessary practical skills.



Members of the EEC in the summation class of the SCP&PS

It should also be noted that at the Department of Childhood Diseases, scientific research is a mandatory component of residency training and implies the integration of educational, practical and research processes, with the result in the form of publications of scientific papers, speeches at conferences at various levels. Residents work in a scientific circle, participate in scientific competitions. Research and publication are positively evaluated when evaluating the portfolio of residents. During the first year of study, residents in the specialty 7R01130 - "Pediatrics", were assigned research topics for participation in the IX Congress of Pediatricians of Kazakhstan"

Achievements and prospects for the development of pediatrics and pediatric surgery with international participation online (live broadcast) and the School of Young Scientists for doctoral students, undergraduates, residents:

The expert visit included a visit **simulation centre in KazNMU**, located on the street. Shevchenko and equipped with 500 units. modern equipment. The area of the centre is over 2.7 thousand square meters. meters. For the implementation of the residency programme in the specialty 7R01130 - "Pediatrics", the simulation centre has equipment in the form of pediatric dummies (newborn baby, children's and adolescent torsos), on which residents can form and develop skills in cardiovascular resuscitation, tracheal intubation, vascular catheterization ... In a conversation with the head of the simulation centre, Dr. med. N. A. Talkimbaeva found out that the residents' classes are held according to the schedule and the topics are integrated into the working curricula of the specialty 7R01130 - "Pediatrics".

Within the framework of the visit, a visit to the School of Pediatrics and an interview with the dean of the School of Pediatrics, Saule Ilyasovna Sydykova, took place. The School of Pediatrics has been established since the resumption of the recruitment of students to the Faculty of Pediatrics. The School of Pediatrics includes all departments of the pediatric profile and the dean's office of pediatrics. Currently, this unit of pain is engaged in undergraduate students. But it is planned to introduce pediatric departments into the School, which implement educational residency programmes.

**The interview with the teachers was carried out on May 27, 21.** Among the participants of the meeting were 20 teachers of the university, including 1 pediatrician, candidate of medical sciences, associate professor from the Department of Pediatric Diseases with a course of neonatology in the specialty 7R01130 - "Pediatrics" - Karimkhanovna Akbota Toktargazinovna. , as providers of the residency programme, showed that there are both successes and problems in the management of the educational programme, since the main developer of programmes and educational and methodological documentation is Dean's office of postgraduate education, and teachers are more involved in the practical training of residents and mentoring. The dean's office of postgraduate education is the main developer of programmes and educational and methodological documentation, and teachers are more involved in the practical training of residents and mentoring. A teacher from the Department of Children's Diseases with a course of neonatology said that the teaching staff of the department from the first days of training distribute curators from the teaching staff, mentors, initiate research topics for residents, encourage them to scientific activity, stimulate independent work with literature, medical documentation.

The data obtained during the interview with the teaching staff of the university allowed the EEC members to verify a number of data from standard 5. Information was obtained on personnel policy, approaches to the development of teachers' pedagogical competence, motivation to work with residents, and mentoring. The experts found that teachers actively stimulate the residents' need for additional training and independent work, promote career growth, motivate and encourage scientific research and involvement in clinical research.

In order to validate the fulfillment of the data of the self-assessment report and to obtain evidence of the quality of the programmes, interviews were conducted with 10 graduates of the residency on the zoom platform, incl. with a graduate of residency in the specialty 7R01111 - "Pediatrics" - 1. Interviews with alumni included such issues as: participation in the deliberative bodies of KazNMU, regularity of feedback, satisfaction with basic knowledge and skills in the specialty of residents, employment of graduates of the residency, career opportunities in the future after completing residency, etc.

In order to assess compliance with Standard 6, the experts were shown a distance learning platform and showed how it is used in training residents. For example, AIS-KazNMU, digital services: Distance learning portal on the Modlle platform, MS Teams video streaming system, Zoom, Access to the digital library, to the Elsevier electronic database, You Tube resources (channels with video lectures), etc.

The main goal of the DC is to provide effective information and software support for the processes of the university, the sustainable functioning of the software and information technology environment

using modern digital technologies to improve the quality of educational and other services provided by the university. The Department's activities are focused on developing and supporting advanced digital solutions that ensure higher efficiency and transparency of processes by increasing employee productivity and reducing administrative costs.

Further, a meeting of the EEC members was held on the results of the external assessment, and the experts came to the conclusion that during the second day of the visit it was possible to find evidence of compliance with standards 2,3,6,7.

### **The third day of the visit - May 28, 2021**

An online meeting was held with the head of the youth policy department, Askarov Elnur, and questions were asked about the participation of residents of the accredited programme in the volunteer movement, helping patients with COVID-19, and image work.

The Head Askarov E. said that University residents made a significant contribution to the fight against the Covid-19 pandemic: 474 residents provided assistance to the country's medical organizations, 27 interns worked in the city volunteer headquarters, delivering food to lonely, elderly people, socially vulnerable segments of the population, large families, widows, orphans. 83 interns and residents helped doctors and epidemiologists in several quarantine and provision centres in Almaty, including # 8 of the KazNMU hostel, where they received compatriots arriving on international flights, carried out explanatory work, supported psychologically, prepared premises, provided the necessary items, carried food, collected an epidemiological history. 32 residents worked in the DQC&SGS, processing data on CVI; 15 residents worked in the pathoanatomical bureau,

From an interview with a manager the Department of Youth Policy received information that More than twenty different organizations work at the university: sports, creative, scientific, intellectual. These are the local committee "KazMSA", the leader debate club "Alma Mater", Asfendiarov Students Family, "KazNMU Students", "Student Scientific Society", CAOS, Small Assembly "Birlik", Intellectual Club "Corvia". At the same time, residents are less involved in the work of these organizations, due to the fact that a lot of time will be extended at clinical sites.

In this regard, the members of the EEC it was proposed to intensify the activities of the youth policy department in relation to students in residency, to more widely involve them in the activities of the youth policy department.

Further, a final discussion of the results of the external assessment, study of documents, results of interviews, questionnaires was held. Generalizations of the results of the external assessment are made. The members of the EEC began to design the final report of the EEC. The expert individually completed the "Quality profile and criteria for external assessment of the educational programme of residency in the specialty 7R01130 - " Pediatrics " for compliance with ECAQA Accreditation Standards".

No comments were made by the EEC members. Recommendations for improving the postgraduate education sector in general and the department implementing the educational programme were discussed. A draft report with recommendations was prepared.

By the chairperson of the EEC prof. Morenko M.A. a final open vote was held on recommendations to improve the educational programme of residency 7R01130 - "Pediatrics" and a final vote on the recommendations for the ECAQA Accreditation Council to accredit the programme for a period of 5 years. Then the chairperson of the EEC for the management and employees of the educational organization announced recommendations based on the results of an external assessment as part of the accreditation of educational programmes for residency specialties.

### **Results of the survey.**

On May 26, 2021, an observer from ECAQA conducted an online survey of residents of the Kazakh National Medical University " (KazNMU) within the framework of accreditation of educational programmes for residency specialties. The survey included 24 questions, allowing to draw

conclusions about the respondents' attitude to the organization of the educational process and identify the existing problems.

**Residents survey results:**

The total number of responding residents - 200... Of these, 46.5% are residents of the 1st year of study, 33% are residents of the 2nd year of study, 15.5% are residents of the 3rd year of study and 5% are graduates of the KazNMU residency programme.

According to the results of the survey, 83% of respondents fully agree that they would recommend studying in this educational organization to their acquaintances, friends, relatives, partially agree - 15.5%, and completely disagree with this statement 1.5% (3 people). Fully agree with the statement that programme managers and teachers are aware of the problems of residents related to training, 83.5% of residents, 14% partially agree, 1% strongly disagree (2 people), 1.5% doubt the answer (3 people).

According to the survey results, 86.5% of respondents believe that programme managers and teachers constantly involve students in the work of advisory bodies (methodological council, academic council, committees of educational programmes), 4% answered that no, they do not involve, while 3.5% do not know about it, 3% doubt the answer, and 3% expressed the opinion that they are sometimes involved in this work.

78% of residents are fully satisfied with the conditions and equipment of classrooms, classrooms of this educational organization, partially - 14.5%, completely dissatisfied - 3.5%, partially dissatisfied - 3%.

81.5% of residents answered that they personally have access to equipment (educational and real) in order to master practical skills in their specialty, partially agree - 7%, 6.5% - partially disagree, while 2.5% doubt the answer and the same number of respondents completely disagree with this statement.

Fully 82.5% of residents were provided with the necessary educational literature, 13% answered that it was partially, while 2.5% believed that they were not provided with the necessary literature. 86% of respondents fully agree that teachers provided them with methodological and didactic materials, additional literature to prepare for classes, 10.5% - partially agree, 2% - completely disagree, 1.5% doubt the answer.

71.5% of residents confirmed that at this time they are engaged in scientific work under the guidance of their teacher or mentor, 13.5% have started planning the implementation of research, 11% have not yet decided on the topic of research, 2.5% have no desire to engage in research, 1.5% doubt the answer.

73.5% of residents are completely and 20.5% are partially satisfied with the library fund of KazNMU, while 2.5% did not give an answer, 2% are partially dissatisfied, 1.5% are completely dissatisfied. According to the results of the survey, 83.5% of the respondents are completely satisfied with the organization of teaching, 14.5% - in part, 1.5% - are not satisfied.

87% of residents believe that there is sufficient time for practical training, 8% - partially agree with this statement, 2% - completely disagree, 1.5% - partially agree, and the same number of people doubt the answer. The schedule of training sessions is fully satisfied with 85% of the respondents, 14% - partially. 91.5% of residents are completely satisfied with the methods of assessing knowledge and skills, and 7.5% - partially.

Of all the respondents, 84% answered that teachers regularly use active and interactive teaching methods in the classroom, 12% expressed the opinion that such teaching methods are used only occasionally, and 1.5% believe that they are rarely, and the remaining 2.5% answered, that they doubt or do not know what it is.

According to the survey results, 88% answered that after the end of the class, the teacher constantly conducts feedback with them, 8.5% believe that sometimes, 1.5% answered that it is rare, and the remaining 1.5% have never encountered this.

When asked about the number of seminars held during the month within the EP residency, 71.5% answered that the seminars are held once a week, 18.5% answered that two or three times a week, 5.5% - held daily, 2.5% believe that it is very rare.

94% of residents are sure that this educational organization allows them to acquire the necessary knowledge and skills in their specialty, 3% are not sure about this, and 2% cannot yet answer this question. Of all the respondents, 76.5% give an excellent assessment of the organization of clinical training, 17.5% have a good impression, 3% cannot rate it yet, and 2% are not satisfied.

We completely agree that the teacher (mentor, curator) of this educational organization is an example for them as a professional doctor, a person, 91% of residents, 7.5% answered that not all teachers of this educational organization are an example, while 1% is completely do not agree.

89% of respondents are completely satisfied with the number of patients for supervision or assistance during operations, 8% - in part, 1.5% - completely dissatisfied.

The majority (86%) of respondents believe that the accreditation of an educational institution and educational programmes is an important and necessary mechanism for ensuring the quality of education in residency, 6% doubt the answer, 5.5% do not know what it is.

50% of residents believe that an interview with the university management is the most important tool for external expert evaluation, 46.5% chose the option "interview with teachers", 39.5% consider interviews with residents as such, 38% answered that interviews with mentors of residents, 29% - interviews with university graduates, 28.5% - an overview of the resource base for training residents, 25.5% - attending practical classes and seminars.

**Conclusions:** By their responses, residents generally expressed satisfaction with the organization of education in general, as well as with the conditions of training, access to equipment, time for practical training, the number of patients for supervision, and the organization of teaching.

### **Results of the questionnaire survey of teachers of NJSC "KazNMU"**

The ECAQA observer, as part of the external assessment programme, conducted an online survey on May 26, which included 23 questions, allowing to draw conclusions about the attitude of teachers to the organization of the educational process and identify existing problems.

The total number of teachers on the list is 64, including those with up to 5 years of experience - 7.81%, up to 10 years - 20.31%, over 10 years - 71.88%.

Of all the respondents, they teach in the educational programme of the therapeutic profile - 48.44%, the surgical profile - 29.69%, the pediatric direction (including pediatric infections and neonatology) - 4.69%, the diagnostic direction (functional diagnostics, radiation diagnostics) - 4.69%, oncology, radiology, radiation therapy - 6.25%, dental profile - 6.25%.

Of all the respondents, 84.38% are full-time teachers, 6.25% are part-time teachers, 6.25% are not involved in teaching residents, 1.56% are mentors, 1.56% are not related to residency programmes.

84.38% are completely satisfied with the organization of the educational process, partially - 15.63%. According to the survey, 84.38% of teachers fully agree that ethics and subordination are observed in KazNMU, the remaining 15.63% believe that it is partially. 75% of respondents are completely satisfied with the organization of work and workplace, 23.44% are partially, and 1.56% (1 person) are not completely satisfied. The organization has an opportunity for career growth and development of competence for teachers: 75% fully agree, 25% partially.

70.31% of respondents fully agree that in this educational organization, teachers have the opportunity to engage in scientific work and publish the results of research, 28.13% - partially agree, and the remaining 1.56% (1 person) - completely disagree. According to the survey results, 46.88% of respondents are completely satisfied with the salary, 17.19% - More NO than YES, 15.63% - more YES than NO, 12.5% did not give an answer, 7.81% - completely dissatisfied.

70.31% confirmed that they personally participate in the development of teaching materials for the residency programme, 17.19% participate partially, 6.25% answered that they are provided with ready-made methodological developments, 4.69% doubt the answer.

64.06% of respondents studied at professional development courses from 1 to 5 years ago, 35.94% - during this year.

More than half of the respondents (51.56%) hold seminars with residents once a week, 15.63% - 2-3 times a week, 12.5% - daily, 7.81% - 1-2 times a month.

According to the survey results, 84.38% of teachers fully agree that they can be realized as professionals in their specialty in this educational organization, and 10.94% agree partially, 3.13% partially disagree.

76.56% of respondents fully agree that the organization has enough equipment and resources to conduct training for residents on accredited programmes, 20.31% - partially agree.

75% of respondents are fully satisfied with the work of the postgraduate education department, 20.31% are partially, the rest are not satisfied or have doubts about the answer. Regarding participation in conferences (international, republican), 29.69% did not contact the management on this matter, 26.56% did not give an answer, 18.75% answered that the organization supported their participation by paying for travel, travel expenses, registration fees, 7.81% answered that they no expenses are paid, 7.81% found sponsors, 6.25% are supported only by fare.

The majority of respondents (93.75%) fully agree that residents have free access to patients at clinical sites and all conditions for improving their practical skills, 6.25% - partially agree. The teachers answered that during the classes, they have a syllabus and a CDM (87.5%), control and measuring instruments (78.13%), cases (65.63%), an educational journal (54.69%), monographs (35.94%), a registration journal mining (20.31%).

The level of previous training of residents upon admission to training programmes is fully satisfied by 40.63% of the respondents, partially - 51.56%, at the same time, 1.56% completely disagree with this, 6.25% did not give an answer.

57.81% know about the implementation of social programmes to support teachers, 29.69% do not know about it, 7.81% doubt the answer, 3.13% have already used it. Of all the respondents, 67.19% note that the organization's management systematically listens to the opinion of teachers in relation to issues on the educational process, research and development, clinical work, 26.56% believe that sometimes, 4.69% did not give an answer.

In the process of training residents, a variety of training methods are used, but more often the analysis of situational tasks (78.13%), the preparation and solution of cases (64.06%), work in small groups (64.06%), problem-oriented training (60.94%), interactive training (60.94%), oral questioning of students (54.69%), oral analysis of the topic (50%), solution of tests (43.75%), practical training in clinical skills in a clinical training centre (42.19%).

70.31% of the respondents fully agree that this survey is useful for developing recommendations for improving the key areas of activity of this organization, 15.63% partially agree with this, 12.5% found it difficult to answer. Of all respondents, 67.19% believe that accreditation of educational programmes is an important and effective mechanism for ensuring the quality of postgraduate education, 28.13% did not understand what accreditation is, 23.44% expressed the opinion that it is, but in combination with other mechanisms (certification, audits, independent assessment of students' knowledge).

**conclusions:** The survey showed that the majority of the interviewed teachers are satisfied with the organization of the educational process, observance of ethics and subordination, the organization of labor and workplace, the opportunity for career growth, the opportunity to engage in scientific work and publish the results of research.

The results of the questionnaire are presented in the Attachment and, in general, demonstrate satisfaction with the educational process, the resources of the clinical base, the competencies of teachers, and also indicate the presence of a centralized management of educational programmes of residency.

### **Conclusion on the basis of the external evaluation:**

Based on the results of specialized accreditation by EEC members, the main indicators of the accredited educational programme were carefully studied and evaluated 7R01130 - "Pediatrics"... The information obtained by the expert during the study of the self-assessment report, during the preparation of a written review with recommendations for improvement, during the implementation of the activities of the visit programme was analyzed at KazNMU from 26 to 28 May 2021 All the

information received was compared with the data of the self-assessment report, the information was validated for each criterion of the accreditation standards and the indicators of the Attachment to the self-assessment report were verified, which made it possible to ensure the reliability of the provided the university information and supporting documents (more than 45 documents were studied remotely and more than 30 presented at the department) for compliance with the ECAQA Accreditation Standards.

Despite the fact that in the self-assessment report of the educational programme KazNMU described the real educational practice in postgraduate education. Before visiting the organization by examining the attachments to the report provided by the postgraduate education department and access to googledisk <https://drive.google.com/drive/folders/1FjbOSq-JcHvquVn42DkTdj5p-VCFLmbb?usp=sharing>, experts reviewed more than 45 documents, as well as during an external expert evaluation by members of the EEC studied the main documents (mission, strategic plan until 2023, teaching materials of disciplines, syllabuses, control and measuring instruments, checklists, portfolios of residents, individual plans of residents for the 2019-2020 academic year, publications of teachers, rules for admission to residency, personnel policy, internal programme quality assurance systems, 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), resources on residency on the website <https://kaznm.kz/> , which made it possible to identify the compliance of the educational organization's activities with the basic accreditation standards, syllables, class schedule, staffing, didactic material, portfolios of residents for 1-2 years of study, individual plans of teachers, results of feedback from teachers.

During the external examination, it was found that the Rules for the training of medical personnel in residency were observed (order of the Minister of Health of the Republic of Kazakhstan dated September 18, 2018 No. KR DSM-16). The volume of the study load and treatment and prophylactic work by sections of the educational programme is determined by the individual work plan of the resident (clause 14) for one year and is monitored by monthly reports of the resident in an arbitrary form. The accounting of completed tasks is drawn up in the form of a portfolio in accordance with the recommendations in the syllabus of the specialty EP.

In connection with the new edition of order No. 647 On the approval of state compulsory standards and standard professional training programmes in 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), changes and additions have occurred in the educational programme in relation to the development of the research competence of residents, which must participate in research work.

External experts reviewed the activities and conducted interviews with the mentors of the residents, and it was determined that each resident was provided with a mentor. Clinical mentors recruited to teach residents from practical health care are required to have a basic education, a medical qualification category, and sufficient experience in the specialty. Among the part-time workers from practical health care, doctors involved in training residents have the highest category, they are deputy chief doctors, heads of departments and leading specialists. Analyzing these data, we can say that there is a sufficient reserve of qualified teachers in all disciplines. In the specialty of residency "Pediatrics" there are 6 clinical mentors who are highly professional specialists and occupy leading positions in practical health care.

The experts took into account the fact that the accredited educational programme 7R01130 - "Pediatrics" according to the current state educational standard, it is being implemented within 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, evaluation of educational programmes, decision-making on a number of key issues in the selection of clinical sites, topics of electives,

participation in the appeal commissions for the admission and evaluation of residents, the development of the content of individual plans of residents and the selection of mentors for the accredited specialty. Recommendations for improving activities in the field of implementation of the educational residency programme in the specialty 7R01130 - "Pediatrics" for 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 May 28, 2021.

The programme of the 3-day visit (May 26-28, 2021) of the external expert assessment of the EEC has been completed in full. On the part of the university staff, 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 the employees of KazNMU responsible for the postgraduate education, the high degree of openness of the team in providing information to members of the EEC.

#### **4. Analysis for compliance with accreditation standards based on the results of an external assessment of the educational residency programme in the specialty 7R01130 - "Pediatrics" and an overview of the strengths for each standard.**

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

Mission of the educational programme in the specialty "Pediatrics" is aimed at realizing the mission of the University by training a qualified pediatrician with a system of universal knowledge and professional competencies, capable and ready for independent professional activity in the treatment of therapeutic diseases.

Health authorities are informed about the mission of the educational programme as a result of the active participation of departments, university staff, residents in holding scientific and practical conferences, joint charitable clinical events with clinical bases, popularizing the discipline through participation in flash mobs, volunteer events and on the Internet sites of medical organizations. Information about the mission for the educational programme is provided to partners from far and near abroad with participation in scientific and practical conferences, joint master classes or in the process of "academic mobility" of teachers and residents.

The mission of the educational programme (EP) has been brought to the attention of all employees of departments, residents by posting syllabuses and information about residency on the university website ([www.kaznmu.kz](http://www.kaznmu.kz), website "Residency").

The University 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.

EP in specialty 7R01130 - "Pediatrics" is aimed at in-depth training of a specialist who is able to provide qualified and specialized medical care to a patient with pathology of organs and systems in children in accordance with evidence-based medicine. The EP was developed collegially (minutes of the meeting of the department Minutes of the meeting of the department No. 13 dated 02.28.2020) and approved at a meeting of the CEP in specialty No. 4 dated March 3, 2020), the Academic Council (No. 3 April 20, 2020) and University Senate (No. 366 of August 24, 2020).

When developing the EP, the teaching staff strictly followed the requirements of the State Educational Standard of the Republic of Kazakhstan and the provisions of the IWP when developing the mandatory part of the programme, therefore it clearly formulates the competencies and skills that the resident will receive as a result of training. Residents participate in the process of evaluating the educational programme by expressing their opinions and wishes at the end of the course or mastering



a specific discipline when questioning. Residents can send their suggestions and comments on the organization of the educational process directly to the postgraduate education department.

To work with residents of the specialty 7R01130 - "Pediatrics" recruited experienced mentors working at ten clinical sites; 19 employees of the department (3 professors, 5 associate professors, 11 assistants), 12 of whom have the highest qualification category, represented by the specialties: Pediatrics, Pulmonology, Neonatology, Gastroenterology). The department trains 21. residents - 8 groups who have completed their training in an internship in the specialty "Pediatrics".

Teaching EP academic disciplines in the specialty "Pediatrics" is based on modern achievements in the field of science and practice, as well as modern educational technologies, involving the construction of educational trajectories in accordance with the competence-based approach and the introduction of active teaching methods. Residents, under the guidance of curators, mentors, participate in research work, publish articles, abstracts, make reports at scientific, practical and clinical conferences. The daily need to use evidence-based medicine data for effective patient management forms the competence of continuous professional development among residents.

The Department of Pediatric Diseases with a course of neonatology pays significant attention to compliance with the norms of behavior, the Code of Academic Integrity of Residents, the Code of Honor of the teaching staff and employees of KazNMU... This is done by familiarizing employees and residents with the provisions of the internal regulatory documentation, requirements for the organization of the educational process, the main areas of work of structural divisions, the internal regulations of the University, etc.; while creating a corporate culture based on equality of rights and obligations of employees and residents, respect for their personal dignity.

Experts obtained evidence that KazNMU carries out both internal interaction and international cooperation - signed 16 agreements / memorandums with foreign universities and research centres in 27 countries of the world, more than 102 agreements with medical institutions of the country. The staff of the Department of Pediatric Diseases actively interacts with the partner university of the Lithuanian Medical University, as well as with medical universities in Russia, Belarus, Germany, Turkey, etc.

Thus, during a visit to KazNMU, experts established compliance with the basic criteria of the accreditation standard: the presence of a mission, strategic objectives of the programme, participation in the development of the mission of stakeholders (employees, teachers, residents' assets), residents are informed about their final results from the first day of classes, provided with resources and a practice-oriented educational programme. The effectiveness of the educational programme is evidenced by 100% employment.

#### **Strengths:**

1. KazNMU has procedures for the development and adoption of legal acts and their management.
2. The main focus of the educational programme is "patient-centered training" of residents, for the achievement of which residents are trained in multidisciplinary hospitals, research centres, with a sufficient number of patients with various pathologies corresponding to the cycle of disciplines.
3. The university clearly defines the end results of the training of residents.
4. Residents of the specialty 7R01130 - "Pediatrics" are actively working to address the social determinants of health: they participate in health education events, open days, volunteer movement, during the period of the coronavirus epidemic they work in provisional and infectious diseases hospitals, clinics.

**Conclusions of the EEC on the criteria.** Out of 17 standards conform: completely - 9/6, significantly - 1/1, partially -, do not correspond - 0.

**Standard 1: completed**

***There are no comments and recommendations for improvement.***

#### **Standard 2: EDUCATIONAL PROGRAMME**

The structure and content of the EP in the specialty 7R01130 - "Pediatrics" comply with the requirements of the State Educational Standard of the Republic of Kazakhstan 2017, 2020, approved

by order of the Ministry of Health of the Republic of Kazakhstan No. 647. In accordance with the classifier, the specialty is also legitimate for the graduate upon completion of the educational programme certificate of completion of residency with the assignment of the qualifications of a pediatrician is graduated, an attachment to the certificate (transcript) indicating the list of disciplines studied with grades, the volume of academic hours. A graduate who has completed training is allowed to independent practice as a doctor in the manner prescribed by law; has the right to continue further education in doctoral studies

The sequence of studying disciplines is built using a system of pre- and post-requisites. Residency training in the specialty 7R01130 - "Pediatrics" is carried out on a full-time basis, the training period is 2 years. According to the State Educational Standard (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. - 2 credits, final certification - 2 credits.

The major disciplines are represented by the following disciplines: Children's diseases in hospital - 56 credits for 1 year of study, for 2 years - 45 credits and outpatient pediatrics. For the successful implementation of training, work is being carried out to inform residents about the structure and expected results of training. Residency studies are focused on practice, so clinical work is 75%, theoretical training is 10%, independent work is 15%.

The ability for constant professional growth of a resident is reflected in the "Portfolio", which is formed from the moment of admission to the residency by the students personally. Persons who have completed training in the EP of residency and have successfully passed the final attestation are awarded the qualification of a "pediatrician" and a certificate is graduated.

Training of residents in the specialties of "Pediatrics" is carried out in the largest multidisciplinary medical centres of the city of Almaty: Scientific Centre for Pediatrics and Pediatric Surgery (SCP&PS), SPE on REM, CP&PCS, CCH No. 1, No. 3 family house PC. All clinics have a wide profile of departments of somatic, endocrinological, neonatological, hematological, urological, surgical profiles and departments of intensive and emergency conditions, which allows residents to see and supervise a sufficient number of patients with a variety of pathologies corresponding to the cycle of disciplines. The clinics where residents practice have ISO (International Organization for Standardization) and JCI (Joint Commission International) certificates 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, reducing injuries, adherence to successive treatment.

Equipping clinical bases of the specialty "Pediatrics" allows you to effectively implement active teaching methods: seminars, webinars, conferences, analysis of clinical cases, the use of a variety of innovative approaches in teaching (PBL, CBL, TBL); training based on simulation technologies, maintaining medical records, examining the quality of medical care, managing patients, training in a clinic with the participation of a real patient, attending medical conferences, consultations.

Training of residents at clinical bases is carried out under the guidance of curators who are appointed from among the teaching staff who have the academic degree of doctor, candidate of medical sciences, as well as the highest or first qualification category. In addition to the curator, a mentor is assigned to the resident - a doctor of practical health care with high qualifications. The assignment of mentors to medical bases allows residents to work daily with modern equipment and medical equipment of clinics. Mentors take an active part in the training of young specialists, transfer the accumulated experience of professional skills to the young specialist, teach the most rational techniques and advanced methods of work.

The resident training programme provides for the implementation of various forms of educational and research work, while some residents are involved in the implementation of scientific and technical projects carried out by teachers. Since 2018, the integrated cycle "Scientific Project on Social Determinants of Health in Pediatrics" has been introduced into the curriculum of interns, the end result of which is the defense of a scientific project. The project-based method of teaching scientific determinants allowed students to consolidate basic knowledge and gain practical experience in conducting scientific research in residency.

In order to strengthen scientific management and develop the integration of medical education, science and practice, KazNMU included five largest research centres in KazNMU. Cooperation with 102 universities and partner organizations is expanding, it is planned to introduce international approaches in the training of scientific personnel. The programme "Learning through Research" introduced by the university is aimed at increasing the level of training of the future specialist at the university, as a single educational, scientific and production complex, through the formation of basic research competencies in students necessary for future professional activities.

Thus, during a visit to KazNMU, experts established compliance with the basic criteria of the accreditation standard: a developed and approved educational programme that meets the requirements of the State Educational Standard of Education 2020 and is implemented in a student-centered and patient-centered environment in the best clinics of the city. The educational programme of the specialty "Pediatrics" is provided with appropriate methodological documentation and documents accompanying residents. Teachers have introduced and effectively apply various teaching methods, mainly of a practical nature, and involve residents in research, which contributes to the formation and development of competencies in the specialty.

**Strengths:**

1. The educational programme is developed on the basis of a competency-based model of a graduate of residency, taking into account the needs of society and the labor market.
2. Patient-oriented and safe learning environment for residents.
3. Highly professional teaching staff using innovative teaching methods, a well-developed mentoring system.
4. Residents work with real patients to develop professional competence in various clinical settings - research institutes, highly specialized, multidisciplinary hospitals, clinics, simulation centres are used to improve skills.

**Conclusions of the EEC on the criteria.** Out of 31 standards conform: completely - 18/6, significantly - 4/2, partially -, do not correspond - 0.

**Standard 2: completed**

***There are no comments and recommendations for improvement.***

**Standard 3: ASSESSMENT OF STUDENTS**

The assessment of the educational achievements of students is carried out using criteria, regulations and procedures developed in accordance with the goals and objectives for the implementation of educational programmes and awarded qualifications within the framework of the current point-rating system and control of the educational process in accordance with directive, external and internal regulatory documents.

Resident assessment policies and methods are reviewed and approved at a meeting of the committee of residency educational programmes... The system of monitoring the educational achievements of residents at the University includes: current and midterm monitoring of progress, intermediate certification of residents and final state certification.

In the University assessment of educational achievements of residents is carried out on the basis of indicators of the level of formation of competencies developed by departments / modules in various forms: control questions, tasks in a test form, a list of practical skills, situational tasks, clinical situations, tasks, etc. Forms of current control are displayed in syllables. Electronic versions of syllabuses, EP are distributed to residents in all specialties and are available in the library. Information about the point-rating system of assessment is posted on the website [www.kaznmu.kz](http://www.kaznmu.kz)...

The results of the educational achievements of residents of the specialty 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.

In order to objectify the assessment process at the university, independent experts are involved on a mandatory basis. When conducting the final state certification to assess the educational achievements of residents, the commission includes practical health professionals in the specialty 7R01130 - "Pediatrics", external examiners.

**Strengths:**

1. Assessment of the portfolio 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.** Conform from 11 standards: fully - 5/3, significantly - 2/1, partially - 0, do not correspond - 0.

**Standard 3: completed**

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

1) Regularly analyze and evaluate the quality of the methods used and the assessment format for the validity and reliability of the final learning outcomes.

**Standard 4: STUDENTS**

The training of competent and competitive health care professionals is carried out by recruiting trainees in order to provide the health care industry with qualified personnel in this field.

The policy of admission to residency at the University is regularly reviewed in connection with the introduction of additions and amendments to the existing regulatory legal acts of the Republic of Kazakhstan, namely: the Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 N 319-III RK (with amendments and additions to as of May 30, 2020); Order of the Minister of Health of the Republic of Kazakhstan dated January 30, 2008 No. 27 "On approval of the lists of clinical specialties of training in internship and residency" (with amendments and additions as of August 2019); Order No. 600 of "On Approval of the Model Rules for Admission to Training in Educational Organizations Implementing Professional Curricula of Postgraduate Education" (with amendments and additions approved in June 2020) and in accordance with the Rules for admission to residency KazNMU for the current academic year. Changes regarding admission to residency are reflected in the Academic Policy of the university, in the admission rules.

The number of residents is determined based on clinical training opportunities as well as the needs of practical health care. The resources of the university, the teaching staff of the departments, the number and powerful material and technical equipment of clinical bases, the professionalism of practical health care workers (clinical mentors) allow providing balance and opportunities for training and recruiting residents.

For the educational programme 7R01130 - "Pediatrics" in the 2020 academic year passed the first recruitment of applicants, which included residents under the state order in the amount of 30 students. In the 2020-2021 academic year, 23 residents were recruited for the first course of residency.

The training of residents is carried out at the main clinical bases, represented by multidisciplinary hospitals, scientific centres, with a sufficient number of patients with various pathologies. The residents' curators are experienced teachers - professors, associate professors, assistants with the highest qualification category in the main pediatric and related specialties.

In the context of the implementation of the competence-oriented model of medical education, KazNMU has a system of consulting residents both from the teaching staff, mentors, and supervising departments of management (dean's office, department of academic work, etc.). Residents are consulted on the basis of the results of assessment, questioning of residents. During the academic year, it can be presented both face-to-face and remotely (on online platforms, in chats, etc.).

The University uses all the main directions, forms and methods of organizing social and financial support, adopted in universities. For the personal growth and development of residents, in addition to 28 student organizations, sports clubs and creative teams, the university has a sufficient resource base (Internet, 100% WiFi coverage, library, computer classes).

To develop intellectual potential, expand knowledge in various scientific fields, residents take an active part in the annual final scientific conference of young scientists for the Day of Science, participate in scientific conferences timed to coincide with the traditional Days of the University, conferences of the republican and international level. The teachers of the departments actively involve residents in scientific and practical events held at clinical bases, at the university.

The quality of the implementation of the educational programme is ensured by the participation of residents in the discussion of the mission of the university and the EP, access to which is open through posting on the website of the University. The Council of the Faculty of Internship and Residency, along with leaders and teachers, includes residents to participate in the consideration of issues related to the educational process and the approval of training materials for residency. Residents with feedback on the educational process, contribute to the most adequate development of EP, other regulatory documents for the formation of a highly qualified specialist.

It should be noted the active participation of residents in the volunteer movement, in the provision of medical care in the city's hospitals during a pandemic. At the same time, the EEC members noted that it is necessary to expand the representation of residents of the specialty in the advisory bodies and in the activities of the Youth Policy Department.

#### **Strengths:**

1. The availability of a comprehensive, unified policy of admission and support of residents throughout the entire period of study, provided with sufficient resources (regulatory and legal framework, personnel, material, technical and financial support);
2. The possibility of implementing research competence
3. High commitment and continuity of residency students to this university.

**Conclusions of the EEC on the criteria.** Out of 30 standards conform: fully 11/7 - significantly - 7/3, partially - 0/2, do not correspond - 0

**Standard 4: completed**

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

- 1). Expand the representation of residents of the specialty in the process of developing a policy for admission and selection of residents, in the activities of the youth policy department and other advisory bodies (4.3.8).

#### **Standard 5: ACADEMIC STAFF / FACULTY**

The personnel policy of KazNMU is guided by the following normative legal acts: "Personnel policy of KazNMU" (order No. 7 of October 14, 2019); "Rules for the assessment of scientific and pedagogical personnel of KazNMU" (order No. 285 of 23.10.2019); "Qualification requirements for the positions of the teaching staff of KazNMU" (order of the Rector No. 281 of June 25, 2019).

The main indicators for the qualitative composition of the teaching staff, conducting classes with resident trainees, are the following: the presence of an academic degree, academic title, work as a full-time teacher or carrying out part-time activities, practical experience, scientific and pedagogical work experience. The number and composition of the teaching staff are planned based on the needs of the educational process, the normative teaching load per teacher and the contingent of students.

Department childhood diseases with a course of neonatology has a sufficient number of teachers for the successful implementation of the educational programme for residency in the specialty 7R01130 - "Pediatrics". To work with residents in the 2020-2021 academic year, 19 employees were involved, including 3 professors, 5 associate professors, an assistant with the highest qualification categories in the specialties indicated in Table 5 The experience of clinical and research work of the teaching staff is over 5 years.

All teachers of the specialty are active specialists in the field, carry out clinical work in basic institutions (supervision, counseling of patients), conduct instrumental studies, expert assessment of medical records, conduct research work. Academic degree among teachers who carry out educational activities in residency is 64.2%.

Clinical mentors recruited for teaching by resident pediatricians from practical health care are required to have a basic education, a medical qualification category and sufficient experience in the specialty. Among the part-time workers from practical health care, doctors involved in training residents have the highest category, they are deputy chief doctors, heads of departments and leading specialists. Analyzing these data, we can say that there is a sufficient reserve of qualified teachers in all disciplines.

The teachers of the department conduct the theoretical part of the lesson (contact hours - 3 hours for 1 credit), mentors - employees of the clinical base - control the practical part of the resident's work - 22 hours for 1 credit). The department maintains the ratio of the number of teachers to the number of residents (1: 3).

The teaching staff of the university on a competitive basis has the right to apply for a cycle of advanced training in the near and far abroad, financing of participation and performances at international congresses and conferences, business trips to other universities under the programme of academic mobility, conducting master classes, including with foreign participation. The teaching staff of the Department of Childhood Diseases with a course of neonatology are actively improving their pedagogical skills, their professional level, which was confirmed in self-report and the provision of certificates when visiting the department.

Evaluation of the activities of the teaching staff is carried out at the level of the department through the implementation of the faculty and through intra-department control. The University systematically conducts a questionnaire "The teacher through the eyes of the student". At the faculty level, the department's report on all types of activities is heard at the Faculty Council in accordance with the plan. At the University level, every 5 years, a teaching staff competition for the position held is held.

#### **Strengths:**

1. The faculty of the departments consists of highly qualified staff, experienced clinicians with scientific achievements, medical qualifications, who are experts in the field of practical health care and medical education.
2. The development of educational and scientific activities at the clinical bases of highly specialized centres forms the scientific and teaching staff in one person, which increases the professional level of the doctor both: "clinician-scientist-teacher" and the level of the educational programme "Pediatrics" for residency students.

**Conclusions of the EEC on the criteria.** Out of 7 standards conform: completely - 5/2, significantly - 3/6, partially - 0, do not correspond - 0.

**Standard 5: completed**

***There are no comments and recommendations for improvement.***

#### **Standard 6: EDUCATIONAL RESOURCES**

The university has a developed material and technical base for the implementation of professional training of residents in the specialty 7R01130 - "Pediatrics". The material and technical base of the university includes: lecture halls, study rooms, educational and research laboratories, social sphere, university clinics, clinical bases - the leading medical clinics in Almaty.

Resident disciplines in the specialty "Pediatrics" are held on the basis of the following clinics: Scientific Centre for Pediatrics and Pediatric Surgery, Kazakh Research Institute of Oncology and Radiology, DCCCH No. 2, EC Aksai, Almaty Regional Children's Clinical Hospital, Karasai CRH.

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. The classrooms are equipped with personal computers, multimedia installations, office equipment. For a number of years, the clinic has been carrying out a phased work aimed at solving the problems of ensuring the safety of patients, residents, and medical staff of the institution.

The possibility of training residents in other medical organizations is provided by the concluded agreements of the University with the Health Departments of 8 regions of the Republic of Kazakhstan

and 16 agreements / memoranda with foreign universities and research centres in 27 countries of the world.

At the university, information support for the work of residents in the specialty "Pediatrics" is carried out through: mass media (Facebook, Telegram, etc.) the 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 departments; radio broadcasting on the territory of the University.

During the implementation of the educational programme for residency, information and communication technologies are actively used, including Internet resources, international databases of scientific and educational literature, electronic textbooks, Sirius KazNMU ([sirius.kaznmu.kz](http://sirius.kaznmu.kz)) <https://sirius.kaznmu.kz/sirius/index.php?r=site/page&view=index> ...

It should be noted that at the Department of Children's Diseases with a course of neonatology, residents of their specialty are actively involved in scientific medical research. Residents conduct scientific research while performing independent work, in the process of recruiting clinical material and analyzing data from clinical databases. To conduct scientific research, residents are provided with access to equipment for scientific research and ongoing scientific activities at clinical training bases. EEC members were presented with evidence of the participation of residents in scientific research in the form of publications and reports at conferences of various levels (for 2019-2020 - 11 articles published in the journals of the CCFES of MES RK, more than 10 reports at conferences).

#### **Strengths:**

1. To train residents, there is a sufficient material and technical base (educational buildings, ambulance brigades, clinics, a scientific library with a book fund and electronic reading rooms, access to international electronic databases of literature, computer classes, the Centre for Practical Skills, AIS "Sirius")

2. For the preparation of residents there are qualified personnel - teaching staff of the department (with a scientific degree, medical category)

3. Sufficient information resources.

**Conclusions of the EEC on the criteria.** Out of 21 standards conform: fully - 7/5, significantly - 3/6, partially - 0, do not correspond - 0

**Standard 6: completed**

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

1) Include in the educational programme of residency the elective discipline "Management of scientific research" (6.5.1.)

### **Standard 7: PROGRAMME EVALUATION**

Residency educational programme "Pediatrics" meet the modern requirements of academic integration - education and science. Taking the principles of modern clinical medicine as a basis, the curriculum in specialties is designed in such a way as to prepare a highly qualified doctor who has a vast amount of theoretical knowledge, who is able to successfully solve professional problems, who are able to conduct differential diagnostic search, provide full medical care, and carry out all the necessary preventive and rehabilitation measures to preserve the life and health of the patient.

At the university, monitoring and evaluation of the EP of the specialty is carried out at all levels of education, a multi-level approach is used, including profiling and related departments, the CEP of internship and residency, the Department of Academic Work, the Academic Committee, the Senate, the student government, the Centre for the Admission and Career Guidance of Students by obtaining feedback from stakeholders (employers, professional associations and trainees).

KazNMU involves the main stakeholders in the programme for monitoring and evaluating the educational programme with the involvement of employees of the National Centre for Independent Examination, employers (medical institutions of health care of the Republic).

Independent monitoring of data on the implementation and achievement of learning outcomes (LO) is carried out by independent attestation of EP graduates through the National Centre for

Independent Examination (NCIE) and by questioning employers. This procedure is carried out annually, after which disciplines are introduced into the catalog of elective disciplines (CED), which make it possible to enhance the achievement of the expected final LO.

**Strengths:**

1. The university has developed a multi-stage system for evaluating educational programmes.

**Conclusions of the EEC on the criteria.** Out of 15 standards conform: fully - 1/1, significantly - 9/4, partially -, do not correspond - 0

**Standard 7: completed**

***There are no comments and recommendations for improvement.***

**Standard 8: GOVERNANCE AND ADMINISTRATION**

In KazNMU, the competence of the governing bodies is determined by the current legislation of the Republic of Kazakhstan, internal regulatory documents. In accordance with the standard documents, the University has developed and approved regulations for each division, defining the structure, management and accountability, goals, objectives and functions of structural divisions, as well as job descriptions for each position provided for in the staffing table.

The activities of the management regarding the fulfillment of the mission and solving the tasks assigned to KazNMU are studied and evaluated on the basis of the analysis and generation of reports and plans, the analysis of the implementation of the goals and objectives of the strategic plan, internal audit reports (according to the plan), the results of the work of internal and external commissions.

Students can also be involved in the process of assessing the activities of the management by expressing their opinions and wishes at the end of the training cycle or mastering a specific discipline or by questionnaires to identify opinions and take into account comments and suggestions of direct consumers.

The University has developed and approved an important management tool - "Academic policy "(decision of the Board, minutes No. 375 of August 27, 2020), which is guided by the dean's office and departments in managing the educational residency programme. Coordination of the implementation, control and monitoring of the implementation of residency programmes in all licensed specialties 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.

Ensuring the quality of the educational process in residency is determined by the fulfillment of the mandatory requirements for the level of training (SCES 2017, 2020) of the EP and the creation of a system for monitoring the efficiency of the teaching staff and the implementation of the resident's IEP (open classes, intra-department control). Monitoring of the quality of the educational process is carried out by educational departments, members of the committee of educational programmes, the dean's office, and independent experts.

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 graduated annually on the conduct of the FSA and the composition of the attestation commission.

Determination of the financial and economic policy of KazNMU and the management structure of the university is the responsibility of the first head of the university - the rector, Chairperson of the Board and DEF. In order to ensure the efficient use of financial resources (including distribution), a budget commission has been created, which considers the results of the formation and use of financial resources. According to the data obtained from self-report and interviews with managers, the university has a stable financial condition, financial and economic activity is aimed at ensuring financial stability and solvency for its obligations, at increasing income, stability of wages, strengthening the material and technical base and is carried out in accordance with the legislation of the Republic of Kazakhstan.

Thus, KazNMU implements the EP on residency in accordance with the regulatory legal acts approved by the Ministry of Health and Social Development and the Government of the Republic of Kazakhstan, as well as the internal rules for organizing the educational process in residency.



**Strengths:**

1. Continuous organizational, coordination and administrative work aimed at achieving the mission and goals.
2. Transparency of the management system and decisions made.
3. The responsibility of the academic leadership in relation to the development and management of the educational programme is determined;
4. Stable financial condition of the university.
5. Extensive collaboration with partners in the health sector.

**Conclusions of the EEC on the criteria.** Out of 15 standards conform: fully - 6/5, significantly - 2/2, partially - 0, do not correspond - 0

**Standard 8: completed**

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

- 1) Improve the mechanisms of motivating teaching staff in the implementation of the EP residency.

**Standard 9: CONTINUOUS RENEWAL**

KazNMU carries out constant monitoring and control over normative and legal acts in the field of medical education in the field of medical education, which allows eliminating inconsistencies in its activities. The university carries out updating of internal documents for compliance. Reacts in a timely manner to transformations in society, changing internal and external conditions.

In order to continuously improve the postgraduate educational process in accordance with the best practice of world educational management, as well as taking into account the needs of practical health care in the Republic of Kazakhstan, the university initiates a review and updating of the process. Based on the analysis of the documented review at all levels, resources are allocated and an action plan is determined to update the postgraduate educational process, improve management, update the goal of the strategic plan in terms of educational activities, structure and content, taking into account the needs of practical health care, ensure improved learning outcomes / competencies, learning environment programmes.

**Strengths:**

The University has a system of continuous improvement of the postgraduate educational process.

1. Integration of the scientific, treatment, diagnostic and educational process (clinical base - SCP&PS, which provides highly specialized and qualified medical care to children with oncological and hematological pathology in children, Scientific Subcommittee in the direction of Pediatrics, Committee of Educational Programmes Pediatrics).

2. Financing of scientific programmes from extrabudgetary funds based on a multidisciplinary approach, scientific and technical project of the department on an urgent problem pediatric oncology and hematology, funded by the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan, the involvement of residents in the department's research and development contributes to the implementation of the "Learning through Research" programme.

3. Development of cooperation with international partners (Czech Republic, Austria, Russia, Belarus), regional authorities and health care organizations on the training of pediatric oncologists / hematologists

4. The system of advanced training and continuous professional growth of teaching staff and employees;

**Conclusions of the EEC on the criteria.** Out of 4 standards conform: fully - 1/0, significantly - 0/3, partially - 0, do not correspond - 0

**Standard 9: completed**

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

- 1). Expand the further development of academic mobility of teaching staff and residents (9.4).
- 2). Improve communication mechanisms with key stakeholders (9.4).

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 expert evaluation programme were found.

## **5. Recommendations for improving educational residency in the specialty "7R01130 - Pediatrics":**

### **Standard 3. ASSESSMENT OF STUDENTS**

1. Regularly analyze and assess the quality of the methods used and the format of the assessment for the validity and reliability of the final learning outcomes.

### **Standard 4. STUDENTS**

1. To expand the representation of residents of the specialty in the process of developing a policy for admission and selection of residents, in the activities of the youth policy department and other advisory bodies (4.3.8).

### **Standard 6. EDUCATIONAL RESOURCES**

1. In the educational programme of residency include the elective discipline "Management of scientific research" (6.5.1.)

### **Standard 8. GOVERNANCE AND ADMINISTRATION**

1. To improve the mechanisms of motivation of the teaching staff in the implementation of the EP residency.

### **Standard 9. CONTINUOUS RENEWAL**

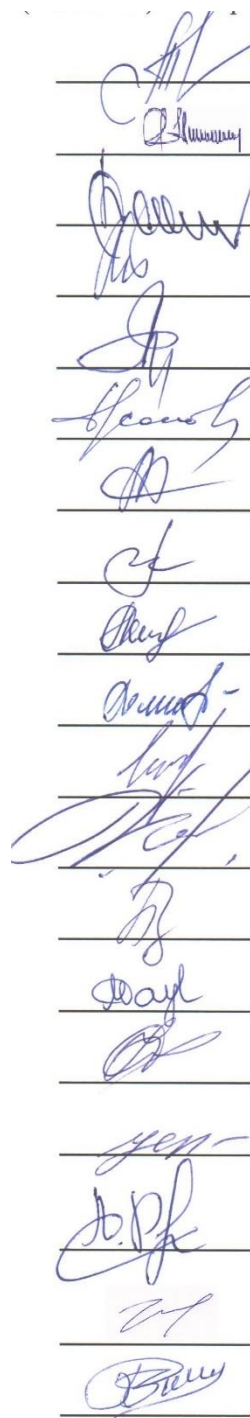
1. Expand the further development of academic mobility of teaching staff and residents (9.4).
2. Improve mechanisms of relationships with key stakeholders (9.4).

## 6. Recommendation to the ECAQA Accreditation Council

The members of the EEC came to a unanimous opinion to recommend to the Accreditation Council to accredit the educational residency program in the specialty “7R01130 – Pediatrics” "Asfendiyarov KazNMU" for the period of 5 years.

### Chairman of the EEC

Morenko Marina Alekseevna  
Foreign expert  
Ryzhkin Sergey Alexandrovich  
Academic expert  
Serik Zhakenovich Dzhandayev  
Academic expert  
Ligai Zoya Nikolaevna  
Academic expert  
Magyarov Valentin Manarbekovich  
Academic expert  
Zhanalina Bakhyt Sekerbekovna  
Academic expert  
Zhumalina Akmaral Kanashevna  
Academic expert  
Kudabaeva Khatimya Ilyasovna  
Academic expert  
Abdullina Venera Ravilevna  
Academic expert  
Igimbayeva Gauhar Tleubekkyzy  
Academic expert  
Kabildina Nailya Amirbekovna  
Academic expert  
Kusainova Faridat Azymovna  
Academic expert  
Bacheva Irina Viktorovna  
Academic expert  
Maukaeva Saule Boranbaevna  
Academic expert  
Ospanova Nargul Narimanovna  
Expert - representative of employers  
Sergeeva Elena Nikolaevna  
Expert - representative of residents  
Diana Abbasova  
Expert - representative of residents  
Ilyasov Eldar Rashitovich  
ECAQA Observer  
Sarsenbayeva Dariyabanu Bulatovna



A vertical column of 20 handwritten signatures in blue ink, each written on a horizontal line. The signatures are of varying styles and sizes, corresponding to the names listed on the left.

**Quality profile and external evaluation criteria (summary)  
Of educational programme in the specialty  
“7R01130 – Pediatrics” of NJSC KazNMU**

Standard	Criteria for evaluation  Number of standards = BS * / SI	TOTAL	Grade			
			Totally coincides	Significantly corresponds	Partially compliant	Does not match
1.	MISSION AND END OUTCOMES	17	9/6	1/1		
2.	EDUCATIONAL PROGRAMME	31	18/6	4/2		
3.	ASSESSMENT OF STUDENTS	11	5/3	2/1		
4.	STUDENTS	30	11/7	7/3	0/2	
5.	ACADEMIC STAFF /FACULTY	7	5/2	3/6		
6.	EDUCATIONAL RESOURCES	21	7/5	3/6		
7.	PROGRAMME EVALUATION	15	1/1	9/4		
8	GOVERNANCE AND ADMINISTRATION	15	6/5	2/2		
9	CONTINUOUS RENEWAL	4	1/0	0/3		
	<b>Total</b>	<b>151</b>	<b>63/35</b>	<b>28/22</b>	<b>0/2</b>	

## List of documents reviewed by members EEC within the framework of accreditation

No.	Names of documents	Quantity	Date of approval (if applicable)
1.	Residency educational programme in the specialty 7R01111 - "Infectious diseases, including children"	1	24.08. Feb 2020
2.	Regulations on the Faculty of Postgraduate Education "NJSC» of Asfendiyarov KazNMU	1	27.10.2020
3.	Strategic plan " Asfendiyarov KazNMU " for 2017-2021.	1	05/30/2018
4.	Academic Policy for 2020-2021	1	27.08.2020
5.	Of the Code of Honor of the teaching staff and employees of NJSC "KazNMU"	1	27.08.2019
6.	<a href="#">Regulations on current monitoring of progress, intermediate and final certification of residents of Asfendiyarov Kazakh National Medical University</a>	1	01.10.2020
7.	<a href="#">Organization and conduct of a written examination remotely</a>	1	April 24, 2020
8.	<a href="#">Organization and conduct of an exam in a test form in a remote mode</a>	1	April 24, 2020
9.	<a href="#">Rules for admission to residency</a> of NJSC "KazNMU" for 2020-2021	1	07/15/2020
10.	The code of academic integrity of the student of NJSC "KazNMU"	1	27.08.2020
11.	Order "On the organization of an interview entering residency "	1	21.08.2020
12.	Regulations on the committee of educational programmes	1	08/24/2020
13.	IT Service Continuity Rules	1	17.04.2018
14.	The procedure for registration of academic mobility of a student of the Asfendiyarov Kazakh National Medical University	1	09/01/2020
15.	Organizational structure of NJSC "KazNMU"	1	09/14/2020
16.	Report of the Chairperson of the SJSC on the results of the final certification of residency graduates 2019-2020 a.y..	1	
17.	Policy and goals in the field of quality of Asfendiyarov KazNMU for 2019-2021	1	28.08.2019
18.	Mentoring clause	1	September 16, 2019
19.	Regulations on the academic mobility of students, teachers and staff	1	11.11.2019
20.	Internal labor regulations of students Asfendiyarov Kazakh National Medical University	1	10/14/2019
21.	Rules for the assessment of scientific and pedagogical personnel	1	23.10.2019

22.	Rules for the search, selection, selection, admission and adaptation of employees of Asfendiyarov Kazakh National Medical University	1	09.12.2019
23.	Residents of the specialty "Pediatrics"	4	September 5, 2020
24.	Scientific reports	1	May 14, 2020
25.	Individual plans of the teaching staff of the Department of Childhood Diseases	2	09/10/2020