

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  
7R01111 - "INFECTIOUS DISEASES, INCLUDING CHILDREN'S"  
OF ASFENDIYAROV KAZAKH NATIONAL MEDICAL UNIVERSITY" FOR  
COMPLIANCE WITH STANDARDS FOR 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	2-3
1.	EEC composition	4-8
2.	General part of the final report of the EEC	8-11
2.1	Presentation of the NJSC "Asfendiyarov Kazakh National Medical University" (KazNMU) and the educational residency programme in the specialty 7R01111 "Infectious diseases, including children's "	8-9
2.2	Information about previous accreditation	9
2.3	Analysis of the self-assessment report of the educational programme of residency in the specialty 7R01111 - "Infectious diseases, including children's» of KazNMU	9-11
3.	Description of the stages of external expert evaluation and conclusion	11-21
4.	Analysis for compliance with accreditation standards based on the results of an external assessment and an educational residency programme in the specialty 7R01111 - "Infectious Diseases, Including Children's" of KazNMU and an overview of the strengths for each standard	21-26
5.	Recommendations for the improvement and educational programme of residency in the specialty 7R01111 - "Infectious diseases, including children's» of KazNMU	26-27
6.	Recommendation to the ECAQA Accreditation Council	27
7.	Attachment 1. Quality profile and criteria for external assessment and the educational programme of residency in the specialty 7R01111 - "Infectious diseases, including children's" of KazNMU for compliance with the ECAQA Accreditation Standards	28
8.	Attachment 2. List of documents studied by members of the EEC in the framework of specialized accreditation	29

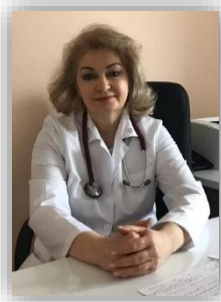
### LIST OF SYMBOLS AND ABBREVIATIONS:

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.  
Candidate of Medical Sciences, Associate  
Professor, Head of the Department of Oncology  
and Radiation Diagnostics,  
doctor oncosurgeon PSE ROD of NJSC  
"Medical University of Karaganda"



**National academic expert**

KUSAINOVA FARIDAT AZYMOVNA,  
Candidate of Medical Sciences,  
Associate Professor of the Department of  
Obstetrics, Gynecology and Reproductive  
Technologies  
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.



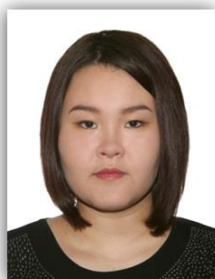
**Expert - resident representative**

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**

SARSENBAYEVA DARIYABANU  
BULATOVNA,  
BA, International Manager  
"Eurasian Centre for Accreditation and Quality  
Assurance in Higher Education and Health  
Care"  
tel .: +77771471726,  
e-mail: info@ecaqa.org



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 7R01111 - "Infectious diseases, including children" of KazNMU for compliance with the Accreditation Standards programmes of postgraduate education (specialty residency) of medical educational institutions of ECAQA, recommendations of the EEC on the further improvement of the educational activities of 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 7R01111 -" Infectious diseases, including children's "**

Since 2018 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). KazNMU 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 of 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.

The total number of residency students in 2019-2020 is 681 residents, including 14 people in the specialty 7R01111 - "Infectious Diseases, Including Children's". In 2019 and 2020, 158 and 146 residents graduated, respectively, in the specialty 7R01111 - "Infectious Diseases, Including Children's" 11 and 9, respectively.

The total number of teachers involved in the educational process of residency in the above specialty is 11 people, including 4 Ph.D., Ph.D. - 7, no degree (presence of a medical category) - 0.

## **2.2 Information on previous accreditation**

Accreditation of the educational programme of residency in the specialty 7R01111 - "Infectious Diseases, Including Children's" of KazNMU was carried out 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 7R01111 - "Infectious diseases, including children's"**

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 143 pages of the main text, 15 attachments in PDF format, 18 electronic versions of documents via the link in googledisk <https://drive.google.com/drive/folders/1FjbOSq-JcHvquVn42DkTdJ5p-VCFLmbb?usp=sharing>.

The report is characterized by the completeness of answers to the criteria of all 9 accreditation standards, structuredness, taking into account the recommendations of the Guidelines for the self-assessment of ECAQA educational programmes, as well as internal unity of information.

The report is accompanied by an accompanying letter signed by the rector T.S. Nurgozhin, confirming the accuracy of the information and data contained in the report provided by the accredited organization.

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 list of members of the working group on self-assessment and preparation for accreditation of the specialty "Infectious Diseases, Including Children's" with an indication of the responsibility of each member of the internal commission is attached to the self-assessment report; information on the person responsible for conducting the self-assessment for compliance with the ECAQA Education Programme Accreditation Standards.

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, dynamics of development since the date of the previous accreditation in 2016 have been analyzed, 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), an analysis, updating of methodological and educational materials, relevant documents on residency (regulations, rules) was carried out, their content is reflected in the report. The self-assessment and description was carried out in accordance with the criteria of the ECAQA accreditation standards and the questions formulated in the Self-Assessment Guidelines were answered.

All standards contain the real practice of KazNMU for the training of residents in the specialty 7R01111 - "Infectious diseases, including children's." Residency training began in 2010-2011, in 2019-2020 and 2020-2021. 14 and 40 residents are studying, respectively. The introduction contains fairly complete information about the medical organization - history of origin, scientific achievements, staff, etc. The report is written in a competent language, consistently with the observance of the logic in the description of the standards, the wording for each standard is clear and understandable, the tables contain links in the text and are consecutively numbered. There are links to regulatory legal acts, standard rules, regulations, educational and methodological documents, pages of the website <https://kaznm.kz/rus/postupajushhim/postdiplomnoe-obrazovanie/rezidentura>.

The self-assessment report contains reasoned data, examples of the implementation of the objectives of the educational programme, 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, mentors, 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.

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.

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

Thus, the self-assessment report of the accredited educational residency programme 7R01111 - "Infectious Diseases, Including Children's" of KazNMU contains objective, detailed, structured information on all types of activities in accordance with the ECAQA accreditation standards, and the departments made the appropriate corrections in the report at the expert evaluation stage ...

### 3. Description of external expert evaluation

External expert work on the evaluation of the educational programme residency in the specialty 7R01111 - "Infectious diseases, including children's" was organized in accordance with the Guidelines for the external assessment of educational organizations and educational programmes of ECAQA (approved by the order of the Director General of the NU "Eurasian Centre for Accreditation and Quality Assurance in Higher Education and Health care" No. 5 dated 17.02.2017) and according to the programme and schedule approved on 11.05.2021 by the 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

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

**Vice-rector for academic activities Bayldinova K. Zh.** presented EEC and provided information on the purpose of the visit. This interview made it possible to determine to obtain evidence that the mission of the residency programme and the mission of the university are fully consistent with each other. The vice-rector voiced the 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. An interview with the management made it possible to determine the fulfillment of most of the criteria of

accreditation standards 1,8,9, to identify approaches to the development of the mission of the educational programme and its compliance with the strategic goals of the university.

**Meeting with the Dean of the Faculty of Postgraduate Education Baimakhanov A.N. and Director of the Department for Academic Work Tusupbekova S.K.** allowed experts 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. The resources of the residency programme in the specialty 7R01111 - "Infectious Diseases, Including Children's" are provided by cooperation with such foreign partners as the University of Pavia (Pavia, Italy), the Institute of Microbiology (Munich, Germany), the Institute of Natural Focal Infections (Omsk, Russia). From the conversation with the dean, it was determined that the residents work in the clinics in a safe environment. The experts found that the university strictly adheres to the requirements of regulatory legal acts and SES in the implementation of educational programmes, and the management systematically monitors this process during internal audits (QMS, mutual control, control of the vice-rector for academic work, reporting, etc.). The basis for effective management is the Quality Assurance Policy of KazNMU and, developed within the framework of academic freedom, at each department of the "Policy of the Chairs" for residents, as well as adherence to the Quality Guidelines when documenting the educational process.

**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%, including in the accredited specialty. At the same time, it is necessary to carry out monitoring for several years. The experts studied the results of a survey of graduates and 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.). Graduates of residency in the specialty 7R01111 - "Infectious Diseases, Including Children's" work as teachers of the departments of the university, doctors in medical organizations of the country, 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. All teaching staff working with residents in the specialty 7R01111 - "Infectious Diseases, Including Children's" have an academic degree, mentors are doctors of the highest category with extensive experience.

**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. Gulzhan Sovetovna gave a description of mentoring in residency, representation of residents in the advisory and advisory bodies (CSR) of the university. Residents in the specialty 7R01111 - "Infectious Diseases, Including Children's" are not represented in the advisory bodies, as they are engaged in providing medical care to patients with COVID-19 at the inpatient and outpatient levels.

Interview with chairperson of educational programmes committees Nurmakhanova Zh.M. and Ensegenova Z.Zh. made it possible to determine the fulfillment of the criteria of accreditation standards 4.7, to identify how planning takes place, the procedure for developing and approving educational programmes, monitoring the quality of the implementation of residency programmes, innovations in teaching and assessment. One of the tasks of the CEP is to improve residency training programmes. Residents in the specialty 7R01111 - "Infectious Diseases, Including Children's" take part in the development of the EP.

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. The work was carried out in 3 subgroups, where 13 residents were present at the interview, of which 3 were according to the programme specialty 7R01111 - "Infectious diseases, including children's" (Bayhadamova Zarina Erzhangyzy, Ospanbay Nazerke Zhumataigyzy, Asil Akmaral Bakhtiyargyzy). The experts asked questions about satisfaction with training at KazNMU, sufficient time for supervising patients, working in Damumed with medical documentation, satisfaction with teaching and assessment methods, qualifications of teachers, curators, mentors, social and moral support for residents in need, availability of international resources, databases of professional literature. In general, 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, at the same time, residents would like more independence in managing patients.

Residents in the specialty 7R01111 - "Infectious diseases, including children's", in addition to practical work with infectious patients, actively participate in research activities, make presentations, carry out preventive measures (lectures on the prevention of infectious diseases, including COVID-19).

Residents showed their commitment to the organization of education, were active in answering questions from external experts, demonstrated their judgments on organizing training, assessing their skills, consulting support, opportunities to participate in research and development, financing, demonstrated competence in answering questions from foreign experts, Ph.D. ... R.A. Nasyrova (St. Petersburg) and MD, associate professor Ryzhkin S.A. (Moscow / Kazan).

**Interview with the head of the library Modovov N.A.** allowed to evaluate provision of the residency programme with educational, methodological and scientific literature, including electronic forms. So, in the specialty 7R01111 - "Infectious diseases, including children's" there are textbooks on infectious and childhood infectious diseases in Russian and the state languages: 1. Infectious diseases. National leadership. Ed. N.D. Yushchuk, Y.Ya. Vengerova, 2018 (100 copies); 2. "Standard case definitions and algorithms of measures for infectious diseases", S.A. Amireev, 2014 (151 copies); 3. "Infectious Diseases", edited by V.I. Luchshev, S.N. Zharova, 2014 (10 copies); 4. "Epidemiology of infectious diseases", N.D. Yushchuk et al., 2014 (5 copies); 5. "Atlas of Infectious Diseases", ed. V.I.Luchsheva, S.N. Zharova, V.V. Nikiforova, 2014 (30 copies); 6. "Zhupaly aurular", Duisenova A.K., 2014 (161 copies); 7. "Zhupaly aurular onygalarynyk standards of anyktamalary zhane ishsharalar algoryadi", S. Mireev, N. Zhaiykbaev, tb., 2014 f. (150 copies); 8. "Infections aurular atlases" (V.I.Luschev, tb., Audargan M.S. (5 copies); 9. Infectious diseases in children / Text / for ped. Faculty of medical universities / Edited by V.N. Timchenko - 3rd ed. revised and added-SPb: Spec. Lit., 2008 - 607 p - (II) (357 copies per russ); 10. Balalardy infectionalyk aurular Kyttykozhanova F.F. / Mətin / Okulyk G.G. Uttykozhanova - Almaty Evero, 2010 -376 bet. (200 copies per Kaz).

In addition, the staff of the departments produce scientific and educational-methodical products for residents (monographs, teaching aids, methodological recommendations): the textbook "Tick-borne human infectious diseases" Rudakov N.V., Yegemberdieva R.A., Duisenova A.K., Seydulaeva L.B.// "Publishing Centre" Omsk Scientific Bulletin "LLC" LLC "Polygraphic Centre CAN" Omsk 10/21/2016 // 192 (12p.l.); textbook "Balalardy zhupaly aurulary (diagnostics, emi, aldyn alu sharalary)" / Kuttykozhanova G.G., Tynybekov A.S. - Almaty Evero, 2016 .-- 232 p .; monograph "Meningitis in children" // Eralieva L.T., Dmitrovsky A.M. methodological recommendations "Echinococcosis of the liver: radiation diagnosis, principles of treatment" // Mustapaeva AA, Zholdybai Zh.Zh., Duisenova AK, Brunetti E., Barlybai R.A.

The university acquires specialized medical journals: Children's infections; Journal of Microbiology, Epidemiology and Immunology (with an Attachment); Infectious diseases; Russian Journal of Gastroenterology, Hepatology, Coloproctology; Epidemiology and infectious diseases.

There is access to 5 international databases, which provides an opportunity for residents and teachers to participate in research and development and other events. The members of the EEC noted the effective work of the library in helping to provide residents and teachers with literature.

**Interview with the manager of 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. Over the past 5 years, employees of the departments of infectious and tropical diseases and childhood infectious diseases have published 40 scientific articles in the journal Vestnik KazNMU, including those with residents 8.

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 for infectious diseases. Interviews with employers on all educational programmes of residency of KazNMU declared for accreditation were conducted online and included such issues as: knowledge of the university mission, participation in the development of the mission and proposals in the strategic plan, participation in the deliberative bodies of KazNMU, satisfaction with the basic knowledge and skills of residents, participation in 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, about the employment of graduates of residency, etc. including children's" was T.K. Utaganova, deputy chief physician of the SPE on the REM" SCIH named after. I. Zhekenova ", infectious disease freelance specialist of the Department of Health care of the city of Almaty. Tamara Kustaevna noted the high preparedness of infectious disease residents, great practical assistance during a pandemic. The employer actively participated in the development of the educational programme, proposed to include an elective discipline in tropical diseases and the basics of biosafety.

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, 2, 4, 5, 6, 7, 8, 9.

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

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

The expert visited the SPE on the REM "SCIH named after I. Zhekenova", which is the only hospital in Almaty that provides round-the-clock highly qualified emergency consultative and diagnostic and inpatient medical care to adults with infectious diseases and suspected them; coordinates the activities of independent and combined with hospitals of city polyclinics for the medical care of infectious patients and the prevention of infectious diseases. The capacity of the hospital is 180 beds (160 budget, 20 self-supporting). In the structure of the infectious diseases hospital there are: an admission and consultation department with separate boxes for round-the-clock admission of patients with various nosologies (airborne droplets, acute intestinal infections, viral hepatitis), where patients are examined, delivered by ambulance teams and in the direction of doctors of polyclinics and other treatment-and-prophylactic organizations and self-referral; intensive care and resuscitation department (6 beds); 1st department (boxed) for hospitalization of patients with airborne, quarantine infections, neuroinfections (20 beds); 2nd department (semi-boxed) for mixed infections (self-supporting, differential diagnostic) (20 beds); 3rd department (semi-boxed) for mixed infections (45 beds); 4th department (semi-boxed) differential diagnostic (45 beds); Department 5 (semi-boxed) for hospitalization of patients with acute intestinal infections (50 beds). A day hospital has been opened and operates since 2012. Out of the 6 indicated departments of the SCIH, 5 (141 beds + admission and consultation department) are consulted by the Department of Infectious and Tropical Diseases of



KazNMU. The hospital was accredited (a certificate of accreditation was graduated by: GKP on the REM "I. Zhekenova City Clinical Infectious Disease Hospital", Almaty City Clinical Infectious Disease Hospital, Bost.rn, Baizakova str., 295, order No. 1286 dated 20.11.2015. Reg #Kz30VEG00005172). From March 2020 the city clinical infectious diseases hospital accepts patients with coronavirus infection.

Residents at the clinical base from the first days are involved in clinical activities, participate in all activities, including duty, consultations, clinical analyzes. 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. Residents-infectious disease specialists have the opportunity to combine studies with work in an infectious diseases hospital.

A review of resources showed that the university's clinical base for the implementation of an accredited educational programme, available for review at the time of an external visit, meets the goals and curators, provide quality training in an ethical and deontological manner.

The experts examined the documentation for the educational programme 7R01111 - "Infectious Diseases, Including Children's" at the link <https://drive.google.com/drive/folders/1FjbOSq-JcHvquVn42DkTdJ5p-VCFLmbb?usp=sharing>, which confirmed compliance with accreditation standards, including documentation of 11 teachers of both departments, 14 mentors of residents and at the request of EEC members. Documentation confirms compliance with accreditation standards (nomenclature of the department's affairs, plan for 5 years, annual plan and report of departments, journal of residents' progress, EMCD, feedback questionnaires with residents, teachers, reports on the results of questionnaires and measures taken, code of ethics, etc., control -measuring tools), including documentation (Regulation on residency, Rules for admission to residency, educational programme, syllables, checklists).

The expert also got acquainted with the documents of residents (individual plan of a resident, portfolio, assessments of residents, checklists, results of questionnaires of residents, lists of works and publications).

Interviews were conducted with 5 infectious disease residents who were at this clinical base in order to validate the implementation of the self-assessment report data and obtain evidence about the quality of the educational programme, the sufficiency of topical patients, time for maintaining medical records, and independent work of residents. The expert asked questions about satisfaction with studying at the university, sufficient time for practical training, supervision of patients and work with medical records, as well as satisfaction with teaching methods and qualifications of teachers. In general, residents are satisfied with the training, assessment methods and purposefully entered this university, since they believe that KazNMU has excellent clinical bases and experience in teaching residents.

The programme of the expert's visit included a review of the resources of the test centre, the proctoring system. In a conversation with the head of the Testing Centre Shonbasova Maral Beibitshanovna, it was found out that the testing centre conducts offline testing of residents according to the schedule. The proctoring system provides an objective approach to attestation of residents, the recording of the exam with proctoring, the conclusion of the proctoring was demonstrated, the procedure for making a decision based on the results of proctoring was explained.

There was also a visit to the registrar's office. The head of the office-registrar - Nabieva Gulnaz Sotsialovna demonstrated the virtual office-registrar, the procedure for working in the Sirius system. This system allows remote operation.

In order to verify the data of standard 5, external experts carried out and **interview with teachers** as providers of the residency programme. As a result of the interview, information was obtained on personnel policy and approaches to the development of pedagogical competence of teachers, motivation to work with residents, and mentoring. The interview was conducted with 20 teachers of the university, 3 teaching staff of departments in the specialty 7R01111 - "Infectious diseases, including children's." 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. Teachers from the Department of Infectious and Tropical Diseases

told how they initiate research topics for residents, encourage them to acquire additional competencies (online training), and stimulate independent work with literature and medical documentation.

In order to validate the fulfillment of the data of the self-assessment report and 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 - "Infectious Diseases, Including Children's" Ualieva S.T., who gave a positive feedback on training in residency, on participation in research and development, in the development of an educational programme. At the moment she works as the head of the department of the State Clinical Hospital named after I.S. Zhekenova

In order to assess compliance with Standard 6, the experts were shown a distance educational platform and integration into residency programmes. It was shown how it is used in training residents. For example, AIS-KazNMU, digital services. The head of the digitalization department B. Kalenova and the head of the department of distance educational technologies N.K. Botabekov answered the questions. 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 technological 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 the development and support of advanced digital solutions,

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 is 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. It was proposed to include active preventive activities of residents in the specialty 7R01111 - "Infectious diseases, including children's" 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 evaluation of the educational programme of residency in the specialty 7R01111 - "Infectious diseases, including children's" for compliance with the 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.

Chairperson of the EEC prof. Morenko M.A. a final open vote was held on recommendations to improve the educational programme of residency "7R01111 -" Infectious Diseases, Including Children's "and a final vote on recommendations for the ECAQA Accreditation Council - to accredit this 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.**

An observer from ECAQA on May 26, 2021 conducted an online survey of residents and teachers on the resource [https://webanketa.com/...](https://webanketa.com/)

The questionnaire survey of residents of the Asfendiyarov Kazakh National Medical University (KazNMU) within the framework of the accreditation of educational programmes for residency specialties included 24 questions, allowing to draw conclusions about the attitude of respondents to the organization of the educational process and identify existing problems.

**Residents survey results...** 200 residents of KazNMU were questioned, incl. 46.5% are residents of 1 year of study, 33% - 2 years of study, 15.5% - 3 years of study, 5% - graduates of the residency programme of KazSRI GB. Will recommend to study in this educational organization to their acquaintances, friends, relatives - 83% fully agree, partially agree - 15.5%. 83.5% of respondents fully agree, 14% partially agree that programme managers and teaching staff are aware of their problems related to training. 86.5% of respondents believe that programme managers and teachers involve students in the work of advisory bodies. Fully (78%) and partially (14.5%) are satisfied with the conditions and equipment of classrooms and classrooms of the university. Fully (64%) and partially (29%) are satisfied with the conditions and equipment of classrooms and classrooms of the university. According to 81, 5% (in full) and 7% (in part) have access to equipment for mastering practical skills. 82.5% fully agree with the provision of the necessary educational literature, 13% partially. Teachers provided methodological and didactic materials, additional literature to prepare for classes in full (86%) and partially (10.55%). 71.5% of residents are engaged in scientific work under the guidance of their teacher or mentor, 13.5% have started research. 73.5% are fully satisfied with the library fund, partially - 20.5%. 83.5% of students are fully satisfied with the organization of teaching, 14.5% - partially. 87% of residents have sufficient time for practical training, 8% - partially. The schedule of training sessions in EP disciplines is fully satisfied with 85%, partially -14%. 91.5% are completely satisfied with the methods of assessing knowledge and skills, partially - 7.5%. 84% of teaching staff regularly use active and interactive teaching methods in the classroom, 12% sometimes. Post-class feedback is constantly provided by 88% of teachers, sometimes 8.5%. 71.5% of respondents answered that seminars are held once a week, 2-3 times a week - 18.5%. 94% of the respondents are sure that this educational organization allows you to acquire the necessary knowledge and skills in your chosen specialty. 76.5% rated the organization of clinical training as excellent, 17.5% as good. 91% of residents believe that the teacher (mentor, curator) of this educational organization is an example for me as a professional doctor, a person (ethics, communication, appearance, speech). 89% of respondents are completely satisfied with the number of patients. 86% of residents 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. 50% of the respondents chose an interview with the university management as the most important tool for external expert evaluation, which allows conclusions to be drawn about the quality of the residency educational programme, 46.5% - an interview with a teacher, 38% - an interview with mentors of residents.

**conclusions:** In 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.

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.

**Results of the survey of teachers of residency programmes...** 64 teaching staff were questioned with over 10 years of experience (71.88%), 5-10 years - (20.31%), therapeutic profile (48.44%), surgical profile (29.69%). 84.38% of the respondents were full-time teachers. I fully agree (84.38%) with the satisfaction of the EP organization in this university, 15.63% - partially agree. Ethics and subordination are observed in relations between colleagues, teachers, management - I fully agree (84.38%), 15.63% - partially agree. I fully agree (75%) with the organization of labor and workplace in this educational organization, 23.44% - in part. 75% of respondents fully agree that there is an opportunity for career growth and development of teaching staff competencies at the university, 25% partially agree. 70.31% of the teaching staff strongly agree, that in this educational organization there is an opportunity to engage in scientific work and publish the results of research, 28.3% - partially agree. 46.8% of respondents are satisfied with the salary as an employee involved in the educational process. 70.3% of teachers participate in the development of teaching materials for the residency programme, 17.19% - in part. 64.06% of the teaching staff studied at professional development courses from 1 to 5 years ago, during this year - 35.94%. 51.56% of respondents conduct seminars with

residents once a week. 84.38% completely agree that in this educational organization the teacher has the opportunity to realize himself as a professional in his specialty. We fully agree (76.56%) that the organization has enough equipment and resources to conduct training for residents in accredited programmes. 75% of teachers are fully satisfied with the work of the department (department / dean's office) of postgraduate education, partially - 20.31%. The organization does not support conference participation. 93.75% fully agree that students have free access to patients at clinical sites and all conditions for improving their practical skills. Teachers believe that during classes with residents, it is imperative that syllabus and educational-methodical complex of the discipline (87.5%), CISs (78.13%), cases (65.63%). 51.5% of the teaching staff partially satisfies the level of prior training of students (residents) upon admission to training programmes in your educational organization, completely - 40.63%. 57.81% of respondents believe that the university implements programmes of social support for teaching staff. 67.19% of the respondents believe that the leaders of the organization systematically listen to questions about the educational process, research and development, clinical work. PBL and online learning are used in 60.94% resident training. 70.31% of the teaching staff fully agree that this survey is useful for developing recommendations for improving the key areas of activity of your organization. 67.19% of respondents think

**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 generally 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.

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

Members of the EEC have carefully studied and evaluated the main indicators of the accredited educational programme. 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 18 documents for compliance with ECAQA Accreditation Standards.

Despite the fact that in the self-assessment report of the educational programme NCIE described his 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>, reviewed by experts were more than 30 documents, as well as during the external expert evaluation by the EEC members, the main documents were studied (mission, strategic plan until 2023, teaching materials of disciplines, syllabuses, control and measuring instruments, checklists, portfolios of residents, individual plans of residents for 2019-2020, publications of teachers and residents, rules for admission to residency, personnel policy, internal 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 with the basic accreditation standards.

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. ҚР 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 according to the recommendations in the syllabus.

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

In accordance with Article 222 of the Residency of Clause 4 of the Code of the Republic of Kazakhstan on People's Health and the Health care System No. 360-VI ZRK dated July 7, 2020, external experts studied the activities and conducted conversations with mentors of residents, and it was established that each resident was provided with a mentor. There are up to 4 residents per mentor.

The experts took into account the fact that the accredited educational programme "7R01111" - Infectious Diseases, Including Children's "according to the current state educational standard is being implemented within 2 academic years, all educational, methodological, personnel and resource bases are assessed for compliance with accreditation standards. Through interviews with teachers and interviews with students and employers, 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 assessment of residents, the development of the content of individual plans of residents and selection of mentors.

Recommendations for improving activities in the implementation of the educational residency programme in the specialty "7R01111 -" Infectious Diseases, Including Children's" for compliance with the Accreditation Standards, developed by the EEC based on the results of an 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 educational residency programme in the specialty "7R01111 -" Infectious diseases, including children's "and an overview of the strengths for each standard.**

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

The team of departments implementing the residency programme in the specialty "7R01111 -" Infectious Diseases, Including Children's "as the basis of the mission of the educational programme and goals, he accepted the mission of the university and informed interested parties (teachers, employers, residents) about it in order to clearly understand the tasks and strive to meet the needs practical health care. The structure of the educational programme, where there is a dominance of practical training (75%), the sufficiency of clinical bases and the mentoring system allow strengthening

the patient-centered approach in the care and treatment of patients. The university organized training and clinical practice in compliance with safety for all participants in the educational process (safety precautions, use of PPE, instructions before training).

The educational programme (EP) in the specialty "7R01111 -" Infectious Diseases, Including Children's "is aimed at implementing the mission of the University through the training of a qualified doctor, a specialist in infectious diseases, who has a system of universal knowledge and professional competencies, capable and ready for independent professional activities in treatment infectious diseases.

Responsible for the residency programme, the Department of Infectious and Tropical Diseases and Pediatric Infectious Diseases applies a variety of innovations in the learning process, allowing them to develop the basic and special competencies of residents, namely, working at the patient's bedside, clinical analyzes, solving situational problems, protecting medical records. Residents are actively involved in the scientific work of the department.

Experts received convincing data that the university is autonomous in making decisions in the development of an educational programme in terms of the elective component, current and final assessment policies, including the choice of assessment methods (testing, oral questioning, clinical examination), selection and admission of residents (specialty exam) , personnel policy in relation to teachers for the accredited educational programme, as well as the allocation of resources (classroom fund of clinical bases according to contracts).

The EMCD defines the final learning outcomes in accordance with the qualification requirements for the residency specialty. The departments cooperate with foreign partners, such as the University of Pavia (Pavia, Italy), the Institute of Microbiology (Munich, Germany), the Institute of Natural Focal Infections (Omsk, Russia).

The university has developed a Student Ethics Code with which residents are familiarized and work on the development and improvement of communication skills is carried out systematically and integrated into the work programme.

Representatives of practical health care and residents participate in the development of the mission and goals of the educational programme, form the QED. The effectiveness of the educational programme is evidenced by 100% employment.

Overall, Standard 1 demonstrates compliance.

**Strengths:**

1. Good clinical base in the largest clinics in Almaty and the Republic of Kazakhstan for training residents
2. The final results of the training of residents are clearly spelled out.
3. Residents are actively working to address social determinants of health

**Conclusions of the EEC on the criteria.** Out of 17 standards conform: completely - 13 (8 basic BS standards, 5 standards for improvement (SI)), significantly - 4 (2 BS, 2 CS), partially - 0, do not correspond - 0.

**Standard 1: completed**

**Recommendations for improvement identified during the external visit: No**

**Standard 2: EDUCATIONAL PROGRAMME**

The accredited residency programme in the specialty "7R01111 -" Infectious Diseases, Including Children's "is implemented in accordance with the State Compulsory Standards and Model Professional Curricula for Medical and Pharmaceutical Specialties dated July 31, 2015 (as amended by the order of the Ministry of Health of the Republic of Kazakhstan dated 02.21. № ҚР DSM-12/2020 Chapter 2. Requirements for the content of educational residency programmes with a focus on learning outcomes). A lot of work is constantly being done to improve teaching materials, develop teaching staff and mentors of residents. A model of residents' competencies has been introduced in accordance with the qualification requirements for the specialty. The structure, content and duration of the programme are clearly defined.

The staff of the departments has the necessary competencies to train residents. Every year, the department determines mentors who are doctors of the highest category, with extensive work experience. There are up to 4 residents per mentor. Faculty teachers use a variety of interactive and traditional teaching methods, according to which staff members are periodically trained for and within the university. Teaching methods - seminars, webinars, conferences, clinical case studies, problem-oriented training (PBL), case-based training (CBL), command-oriented training (TBL), clinical case studies, medical records, medical quality assessment help, patient management, training in primary health care and hospital, medical conferences, consultations, wedge. analyzes. The emphasis in training is on bedside work. The dean's office is trying to monitor this process and, through the School of Pedagogical Skills, train newly hired teachers.

Due to the availability of clinical bases for residents, they spend most of their study time in close contact with patients, medical records, including automated health care systems. Mentors play a big role in this. During interviews with residents, experts made sure that the organization of training and work is patient-centered. During a pandemic, there is not always a sufficient number of thematic patients, therefore, cases of real patients are used, a theoretical analysis of complex topics is carried out and the study of literature in modern databases. Clinical training is carried out in an accredited clinic.

During the examination of the educational programme, it was established that the scientific foundations and methodology of medical research, evidence-based medicine are applied, training is carried out by curators, mentors.

Thus, the educational programme of residency in the specialty "7R01111 -" Infectious Diseases, Including Children's" demonstrates compliance with the basic criteria of the accreditation standard: certified clinics of the city. The educational programme is provided with appropriate methodological documentation and documents accompanying residents. Teachers effectively use various teaching methods, involve residents in research and development, 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 residency graduate, taking into account the needs of society and the labor market.
2. Patient orientation and safety of the learning environment.
3. Professional teaching staff using innovative teaching methods, mentoring system.

**Conclusions of the EEC on the criteria.** Out of 30 standards conform: n completely - 19 (14 basic BS standards, 5 standards for improvement (SI)), significantly - 11 (8 BS, 3 SD), partially - 0, do not correspond - 0.

**Standard 2: completed**

**Recommendations for improvement identified during the external visit: No**

#### **Standard 3: ASSESSMENT OF STUDENTS**

KazNMU has developed and implemented a policy for assessing residents, which includes the principles and methods of assessment, which are reflected in the "Academic Policy of the University" (Order No. 195 of 08/28/2019), Regulations on the current monitoring of progress, intermediate and final certification of students of the NJSC KazNMU. Responsibility for the implementation of the policy for assessing the educational achievements of residents is borne by the teaching staff of the departments, heads of departments, the office of the registrar.

The assessment of the educational achievements of residents covers the assessment of key competencies, and the assessment tools themselves are developed by the departments - control questions, tasks in test form (MCQ tasks with several options for correct answers), a list of practical skills, situational tasks, clinical situations. Information about the point-rating system of assessment is posted on the website [www.kaznm.kz](http://www.kaznm.kz).

As an additional method for assessing residents, the portfolio is used, which the expert got acquainted with at the departments supervising the residency programmes. Residents are engaged in



research work, which must necessarily end with the publication of a scientific article or a report at scientific and practical conferences. The assessment of scientific work also affects the overall assessment of the discipline.

To assess practical skills, a mini clinical exam checklist is used, but it does not include an assessment of communication skills.

The number of exams in each course is regulated by the Standard Curriculum, which is an integral part of the State Educational Standard of the Republic of Kazakhstan 2017, 2020. in the specialties of residency. The results of educational achievements of students are entered into an electronic educational journal through the office-registrar system and the AIS "Sirius" programme, which automatically generates examination sheets.

The possibility of an appeal based on the results of the interim and final certification of residents is determined in the "Academic Policy for the 2020-2021 academic year".

The procedure for planning, organizing, monitoring and analyzing assessment methods in KazNMU ensures the reliability and validity of these methods. The development of new control and measuring instruments is carried out by teachers through the study of world experience in assessing knowledge in residency, then it is introduced at the department.

Thus, this standard is generally implemented at the university.

**Strengths:**

1. Electronic system "Sirius", providing transparency and speed, and taking into account the results of the assessment of residents.
2. Assessment of the portfolio, which allows assessing the development of the resident's competencies: personal interest, professional competence, communicative, personal qualities, scientific interest.
3. The system of monitoring the educational achievements of residents is complex and is aimed at assessing the final learning outcomes.

**conclusions** of EEC according to the criteria. Out of 11 standards conform: completely - 4 (3 BS and 1 SI), significantly - 11 (7 BS and 3 SI), partially - 0, do not meet - 0.

*Standard 3: completed*

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

1. Enter the assessment of communication skills in the checklist of the mini clinical exam.

**Standard 4: STUDENTS**

Admission to residency at KazNMU named after S. Asfendiyarov is carried out in accordance with the Order of the Ministry of Education and Science of the Republic of Kazakhstan "On Approval of the Model Rules for Admission to Training in Educational Institutions Implementing Educational Programmes of Higher and Postgraduate Education". The number of residents is determined based on clinical training opportunities as well as the needs of practical health care. The criteria for applicants entering the residency are determined by the requirements of the State Educational Standard of the Republic of Kazakhstan, according to which the previous level of education of persons wishing to master the educational programmes of residency: basic medical education, higher medical education, internship. Information on the required list of documents for admission to residency is posted on the KazNMU website, as well as in the selection committee.

The University has developed a document "Rules for admission to residency", on the basis of which the admission of residents is carried out.

**Strengths:**

1. Participation of residents in all medical events of clinical sites
2. The possibility of implementing research competence
3. High commitment and continuity of residency students to this university.

**Conclusions of EEC** according to the criteria. Out of 30 standards conform: completely - 18 (11 BS and 7 SS), significantly - 10 (7 BS and 3 SS), partially - 2 (0 BS and 2 SS), do not correspond - 0.

*Standard 4: completed*

*Recommendations for improvement identified during the external visit: No*

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

In Asfendiyarov KazNMU apply effective and open criteria for recruitment and appointment to teaching positions and guarantees equal employment opportunities consistent with legal requirements and any other selection criteria. The Department of Infectious and Tropical Diseases and Children's Infectious Diseases has a sufficient number of graduated highly qualified teachers who meet the needs of the mission and the successful implementation of the educational programme for residency "7R01111 -" Infectious Diseases, Including Children's ".

The teaching staff is formed based on the needs for the effective implementation of educational programmes, as well as on the basis of the total volume of the study load. Clinical mentors from practical health care who are recruited to teach residents are required to have a basic education, a medical qualification category, and sufficient experience in the specialty. The teaching staff of the department is constantly improving their qualifications in pedagogical and clinical areas.

#### **Strengths:**

1. The teaching staff of the department consists of highly qualified employees with scientific achievements, high medical qualifications, who are experts in health care and medical education.
2. Close relationship of teachers of departments with practical health care of the Republic of Kazakhstan.

**Conclusions of EEC** according to the criteria. Out of 7 standards conform: completely - 4 (2 BS and 2 SI), significantly - 3 (3 BS and 0 SI), partially - 0, do not meet - 0.

*Standard 5: completed*

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

1. Attracting foreign professors to the educational process

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

The University has a developed material and technical base for the implementation of professional training of residents in the specialty "7R01111 -" Infectious Diseases, Including Children's ". The material and technical base of the department includes the leading specialized medical clinics in Almaty. 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.

#### **Strengths:**

1. Sustainable material and technical base
2. Highly qualified personnel and resources - teaching staff of the department;
3. Sufficient information resources.

**Conclusions of the EEC on the criteria.** Out of 21 standards conform: completely - 10 (5 BS and 5 SS), significantly - 11 (5 BS and 6 SS), partially - 0, do not correspond - 0.

*Standard 6: completed*

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

1. Conduct academic mobility of residents, incl. online.

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

Monitoring and evaluation of EP is carried out at all levels of education, a multi-level approach is used, including profiling and related departments, the Internship and Residency Educational Programme Committee, DAR, the Academic Committee, the Senate, the student government, the Centre for the Admission and Career Guidance of Students (general monitoring of the quality of educational programmes through a survey of stakeholders (employers, professional associations and trainees)).

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. Involvement in the evaluation of educational programmes of students, teachers, employers
2. External and internal assessment of the educational programme is carried out by leading specialists of the Republic of Kazakhstan in the field of infectious diseases.

**Conclusions of the EEC on the criteria.** Conforms out of 15 standards: fully - 3 (2 BS and 1 SI), significantly - 12 (8 BS and 4 SI), partially - 0, do not correspond - 0.

**Standard 7: completed**

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

1. To include in the QED disciplines on childhood infectious diseases

**Standard 8: GOVERNANCE AND ADMINISTRATION**

KazNMU in the implementation of postgraduate education is guided by the Laws of the Republic of Kazakhstan "On Education", "On Approval of the State Educational Order for the Training of Specialists with Higher and Postgraduate Education", which regulate the amount of the state educational order for the training of residents in the field of health care.

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 independent certification and is regulated by the "Regulations on current control, intermediate and final certification". An order of the rector is graduated annually on the conduct of the FSA and the composition of the attestation commission. 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.

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

**Strengths:**

1. Stable financial condition of the university.
2. Extensive collaboration with partners in the health sector.

**Conclusions of the EEC on the criteria.** Conforms out of 15 standards: completely - 10 (7 BS and 3 SI), significantly - 5 (1 BS and 4 SI), partially - 0, do not correspond - 0.

**Standard 8: completed**

**Recommendations for improvement identified during the external visit: No**

**Standard 9: CONTINUOUS RENEWAL**

KazNMU, in order to continuously improve the postgraduate educational process in accordance with the best practice of world educational management, taking into account the needs of practical health care in the Republic of Kazakhstan, 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:**

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

**Conclusions of the EEC on the criteria.** Conforms out of 4 standards: fully - 1 (1 BS and 0 SI), significantly - 3 (0 BS and 3 SI), partially - 0, do not correspond - 0.

**Standard 9: completed**

***Recommendations for improvement identified during the external visit:*** No

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 "7R01111 -" Infectious diseases, including children ":**

Standard 3

1. Enter the assessment of communication skills in the checklist of the mini clinical exam

Standard 5

1. Attracting foreign professors to the educational process

**Standard 6**

1. Conduct academic mobility of residents, incl. online.

**Standard 7**

1. To include in the QED disciplines on childhood infectious diseases

## 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 **7R01111 - " Infectious diseases, including children's"** Asfendiyarov KazNMU" for the period of 5 years.

### Chairman of the EEC

Morenko Marina Alekseevna

Foreign expert

Ryzhkin Sergey Alexandrovich

Academic expert

Serik Zhakenovich Dzhandaev

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

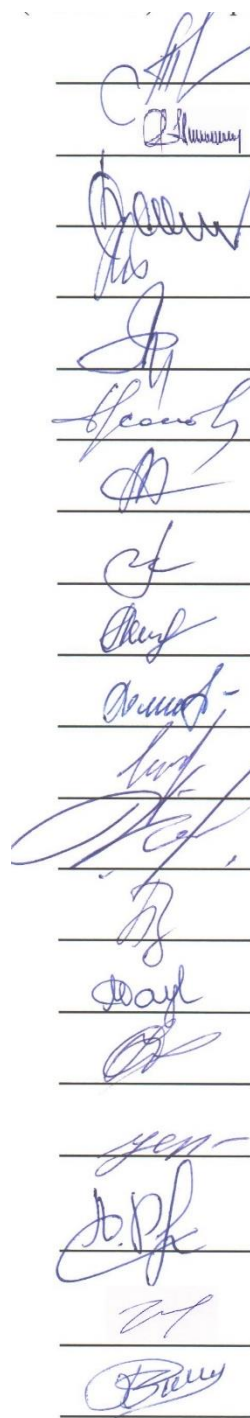
Diana Abbasova

Expert - representative of residents

Ilyasov Eldar Rashitovich

ECAQA Observer

Sarsenbayeva Dariyabanu Bulatovna



**Quality profile and external evaluation criteria (summary)**  
**Of educational programme in the specialty "7R01111 -" Infectious diseases, including**  
**children's" of NJSC "Asfendiyarov KazNMU "**

Standard	Criteria for evaluation	TOTAL	Grade			
			Totally coincides	Significantly corresponds	Partially compliant	Does not match
1.	MISSION AND END OUTCOMES	17	13	4		
2.	EDUCATIONAL PROGRAMME	31	19	11		
3.	ASSESSMENT OF STUDENTS	11	4	7		
4.	STUDENTS	30	18	10	2	
5.	ACADEMIC STAFF /FACULTY	7	4	3		
6.	EDUCATIONAL RESOURCES	21	10	11		
7.	PROGRAMME EVALUATION	15	3	12		
8.	GOVERNANCE AND ADMINISTRATION	15	10	5		
9.	CONTINUOUS RENEWAL	4	1	3		
	<b>total</b>	<b>150</b>	<b>82</b>	<b>66</b>	<b>2</b>	

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

<b>No.</b>	<b>Names of documents</b>	<b>Quantity</b>	<b>Date of approval (if applicable)</b>
1.	Residency educational programme in the specialty 7R01111- "Infectious diseases, including children's"	1	08/24/2020
2.	Acts of implementation in practical health care	1	-
3.	The act of introducing scientific achievements into health care practice	1	11.03.2019
4.	Information about the passage of the teaching staff of advanced training courses	1	
5.	Order on organizing interviews for applicants to residency	1	No. 364 dated 08.21.
6.	Appeals Panel List	1	No. 364 dated 08.21.
7.	The order to quit Acad. leave	1	03.09.2020
8.	The order to quit Acad. leave	1	05.01.2021
9.	Order about Acad. vacation	1	12/31/2020
10.	Field Training Orders	3	10/14/2019, 10/22/2019, 04/09/2020
11.	Information about the passage of the advanced training courses by Faculty	1	-
12.	Material and technical base	1	-
13.	Information about the university library	1	-
14.	A brief description of the social cult. base	1	-
15.	Characteristics of clinical sites	1	-