

To Accreditation Council
of Eurasian Center
for Accreditation and Quality Assurance
in Higher education and Health Care
date: February 18, 2022

**REPORT
OF THE EXTERNAL EXPERT COMMISSION
BASED ON THE RESULTS OF THE EVALUATION OF THE EDUCATIONAL
PROGRAMME
"7R01117 – ANAESTHESIOLOGY AND RESUSCITATION (ADULT,
CHILDREN)" OF NEI " KAZAKH-RUSSIAN MEDICAL UNIVERSITY" FOR
COMPLIANCE WITH THE ACCREDITATION STANDARDS FOR
POSTGRADUATE PROGRAMMES (SPECIALTY OF RESIDENCY) IN
MEDICAL EDUCATIONAL INSTITUTIONS**

period of external expert evaluation: 16.02.2022-18.02.2022

Almaty, 2022

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List of symbols and abbreviations

Abbreviation	Designation
AC	Academic Council
AMP	Administrative and managerial staff
university	Higher education institution
EEC	External expert commission
SCES	State compulsory standard of education
ECAQA	Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care
IEPR	Individual educational plan of the resident
CMI	Control measuring instruments
CEP	Educational Programmes Committee
QEP	Quality of the educational process
CED	Catalog of elective disciplines
MoH RoK	Ministry of Health of the Republic of Kazakhstan
MES of RoK	Ministry of Education and Science of the Republic of Kazakhstan
MTB	Material and technical base
EDM	Emergency and Disaster Medicine
RW	Research work
NLA	Normative legal acts
NEI "KRMU"	Non-governmental educational institution "Kazakh-Russian Medical University" of the Ministry of Health of the Republic of Kazakhstan
OHPE	Organization of higher and postgraduate education
EP	Educational programme
DP&CEP	Department of planning and control of the educational process
PD	Profiling Disciplines
GD	Government Decree
TS	Teaching staff
PHC	Primary health care
RoK	Republic of Kazakhstan
WC	Work Curriculum
EMS	Emergency medical services
IWS	Independent work of the student (resident)
IWRT	Resident independent work under the supervision of a teacher
TEP	Typical Educational Plan
TCC	Training and Clinical Center
EPI	Educational Plan
SC	Scientific Council

1. Composition of the external expert commission

In accordance with ECAQA Order No. 02 dated 02.02.2022, an External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" in the period from 16.02.2022 to 18.02.2022, consisting of the following:

order №	Status as part of EEC	Full name	Regalia, position, place of work/place of study, course, specialty
1	chairperson	Turgunov Yermek Meiramovich	Doctor of Medical Sciences, Professor of the Department of Surgical Diseases of the NJSC "Medical University of Karaganda", President of the NEI "Surgical Association of Karaganda Region", member of the International Surgery Society
2	Foreign Expert	Ruslan Abdullaevich Nasyrov	Doctor of Medical Sciences, Professor, Vice-Rector for Research, Head of the Department of Pathological Anatomy with the Course of Forensic Medicine of the St. Petersburg State Pediatric Medical University of the Ministry of Health of the Russian Federation, Member of the New York Academy of Sciences
3	Foreign Expert	Tatyana Vasilyevna Pozdeeva	doctor of Medical Sciences, Professor, head of the Department of Economics, of Management and Medical Law, Dean of the Faculty of Medicine and Prevention and the Faculty of Higher Nursing Education of the Federal State Budgetary Educational Institution of Higher Education "Volga Research Medical University" of the Ministry of Health of the Russian Federation.
4	Kazakh Academic Expert	Zhumalina Akmaral Kanashevna	doctor of Medical Sciences, Professor, Head of the Department of Children's Diseases with Neonatology of the NJSC "West Kazakhstan State Medical University named after Marat Ospanov"
5	Kazakh Academic Expert	Ermukhanova Lyudmila Sergeevna	candidate of Medical Sciences, Head of the Department of Public Health and Healthcare of NJSC "West Kazakhstan Medical University named after Marat Ospanov"
6	Kazakh Academic Expert	Akhmetova Almira Kalikapasovna	Candidate of Medical Sciences, Associate Professor, Head of the Department of dermatovenerology and cosmetology of NJSC Semey Medical University
7	Kazakh Academic Expert	Kudabaeva Khatima Ilyasovna	Candidate of Medical Sciences, Professor of the Department of Internal Diseases No.1 NJSC "West Kazakhstan medical University named after Marat Ospanov"
8	Kazakh Academic Expert	Sadieva Zhanar Zamankhanovna	Anesthesiologist-resuscitator,

			head of the Department of Postgraduate Education of South Kazakhstan Medical Academy JSC
9	Kazakh Academic Expert	Zhunusova Aigul Bitimbayevna	Candidate of Medical Sciences, doctor – pediatrician of the highest category, director of the Department of Academic Work of Semey Medical University NJSC
10	Kazakh Academic Expert	Tuleutaeva Raykhan Esenzhanovna	Candidate of Medical Sciences, Head of the Department of Pharmacology and Evidence-Based Medicine of NJSC "Semey Medical University"
11	Kazakh Academic Expert	Tezekbaev Kanat Mardenovich	Head of the Department of Traumatology and Orthopedics of NJSC "Asfendiyarov Kazakh National Medical University"
12	Kazakh Academic Expert	Rakhmanov Eltai Utemuratovich	PhD, Deputy Director of the Master's Programme in Sports Medicine and Rehabilitation, Instructor, School of Medicine, Nazarbayev University, organizer of educational, practical and research work of undergraduates in sports medicine and rehabilitation
13	Employers' representative	Zhazira Dzhumabekovna Moldabaeva	Deputy Chief Physician City Polyclinic No.29
14	Resident Representative	Ermekbai Aibek Amanzholuly	Resident of the second year of study in the specialty "Anesthesiology and resuscitation, including pediatric" of NJSC "Asfendiyarov Kazakh National Medical University"

The observer for ECAQA is Umarova Makpal Aldibekovna, Head of Accreditation and Monitoring Department.

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

The EEC report contains an assessment of the educational programme 7R01130 "Pediatrics" for compliance with the Standards of accreditation of postgraduate programmes (specialty residency) of medical organizations of education and conclusions (hereinafter referred to as the Accreditation Standards), recommendations of the ECAQA on further improvement of approaches and conditions for the implementation of the above educational programme and recommendations for the ECAQA Accreditation Council.

2. General part of the final report

2.1 Presentation of the NEI "KRMU"

Organization name, legal form of ownership, bin	Non-governmental educational institution «Kazakh-Russian Medical University», 970 240 002 300
Management body	The supreme body – the general meeting of participants Executive body – Rector Control body – Audit Commission Collegiate body – Academic Council

Full name of the chief executive officer	Dzhainakbayev Nurlan Temirbekovich
Created in	1992 y.
Location and contact details	Republic of Kazakhstan Almaty region 71, Torekulov str., Almaty, 050004 Phone: +7 727 250 83 75 Fax: +7 727 250 83 75 e-mail: info@medkrmu.kz web: http://medkrmu.kz/en/
State license for educational activities in the residency (date, number)	license for educational activities AB No. 0137388, issued by the Committee for Control in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on June 2, 2010
Information on branches, subsidiaries (if any)	no.
Year of implementation of the accredited educational programme (EP)	Year 2013
Duration of training	3 years
Total number of graduates since the beginning of EP implementation	34 graduates, including 11 transferred from KazMUNO
Number of residents on EP since the beginning of the current year	10 trainees
Full-time trainers/ Combiners involved in the implementation of EP, incl. % of degree	4/1, 90%

NEI "KRMU" was established in 1992 as the Kazakhstan Medical Institute (KMI). In 2010, KMI was renamed into Kazakh-Russian Medical University (certificate of state re-registration No. 9833-1910-U-e dated May 4, 2010).

The University currently represents the organization of medical education with a private form of ownership, having the necessary material, technical and scientific and educational base, highly qualified pedagogical and scientific personnel (license for educational activities AB No. 0137388, issued by the Committee for Control in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on June 2, 2010).

The University trains specialists in the following levels: bachelor's degree, internship, residency and master's degree on the basis of existing state licenses for higher and postgraduate levels, additional education in accordance with the current State Educational Standard of the Republic of Kazakhstan, and also implements additional education programmes.

Over the years of its activities, the NEI "KRMU" has formed its brand, traditions and values, which are described in the Academic Policy approved at the meeting of the Academic Council, Minutes No.1 of 27.08.2021 and the Strategic Plan of the organization for 2019-2025 of 26.12.2019.

Since 2011, the University publishes a quarterly journal "Actual problems of theoretical and clinical medicine".

In accordance with Article 23 of the Law of the Republic of Kazakhstan "On Science", the University was accredited by the Ministry of Education and Science of the Republic of Kazakhstan as a subject of scientific and scientific-technical activity, certificate number Series MK No. 005269 dated 08.10.2018.

The budget of the NEI "KRMU" is formed from several sources: the republican budget (a state order for the training of specialists of higher, postgraduate and additional education), the provision of paid educational services.

The financing of the university is stable and contributes to improving the material and technical base and increasing the contingent.

The main applied scientific direction of the university is the development of innovations for implementation in practical health care, including the development of mobile medicine for the rural population. Thus, for his achievements in the development of mobile medical complexes, Rector, Doctor of Medical Sciences, Professor N.T. Dzhainakbayev was awarded the quality certificate of the Swiss Institute of Quality Standard "International Quality Certificate" (SIQS) on July 1, 2015.

During the reporting period, the NEI "KRMU" concluded 30 contracts, agreements and memoranda with Kazakh and foreign higher educational institutions.

In 2012, the University successfully passed the State Attestation of the Ministry of Health of the Republic of Kazakhstan, in 2018 and 2020 – preventive control of the Committee for ensuring control in the field of education and science of the Ministry of Education and Science of the Republic of Kazakhstan.

Over 29 years of activity, the University has trained more than 6,000 specialists successfully working in the practical health care of the Republic of Kazakhstan.

In 2016, NJSC «KRMU» was accredited by the Independent Kazakhstan Agency for Quality Assurance in Education (certificate of institutional accreditation dated May 31, 2016 IANo.0066, valid from 05/31/2016 to 06/01/2021). 06.2021 y.). Also in 2021, NJSC «KRMU» was accredited by «Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care» (certificate of international institutional accreditation dated June 17, 2021 IA00039, valid from 06/17/2021 to 06/16/2026.).

The NEI "KRMU" also carries out its Mission through the implementation of educational programmes of higher and postgraduate education on the levels of bachelor's, master's and residency, the objectives of which are: training of competitive specialists who are able to meet the needs of society in the provision of medical care, apply and develop advanced innovative technologies in practice and science, use the achievements of information and communication technologies, strengthen public health.

Mission and Vision, which were previously discussed and agreed with stakeholders (teachers, employees, employers), are available on the official website of the NEI "KRMU" <http://medkrmu.kz/missiya-universiteta/>.

The University has its Organizational Structure approved by the Rector's Order (No. 26-02-07-n/k dated 16.07.2020).

University management is implemented through collegial bodies: the Scientific Council (SC), the Academic Council, the Scientific and Clinical Council, the Local Ethics Commission, the Coordination Council for Quality and Strategic Development, the Council of Young Scientists and the Student Scientific Society.

The NEI "KRMU" develops its activities through the Strategic Development Plan of the NEI "KRMU" (long-term) (<http://medkrmu.kz/strategicheskie-plany-razvitiya/>) and the Tactical Plan for the implementation of the strategy for the academic year, which are discussed and approved at the meeting of the Scientific Council of the NEI "KRMU" with the participation of stakeholders.

The NEI "KRMU" implements 35 educational programmes of the residency. The first set of residents in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" was in 2011. The total number of residents of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" in the period from 2011 to 2022 was 142 people. The contingent for the current academic year is 72 residents. The intake contingent for the 2021-2022 academic year is 39 residents (by state educational order - 15, from the means of the Ministry of Education and Science – 24). The first graduation, which took place in 2014. It amounted to 1 resident, today the contingent of students is 72 residents, in 2022 it is graduated - 9. All graduates of past years are 100% employed. The course of anesthesiology and resuscitation is located on 11 clinical bases in Almaty. The teaching staff

of the course of anesthesiology is 2 doctors of medicine, 6 doctors of medicine, 2 masters of medical sciences, 20 doctors with the highest category.

In accordance with the Order of the Minister of Health of the Republic of Kazakhstan dated May 25, 2021 No. KR DSM – 43 "On approval of the list of medical specialties of residency programmes", the educational programme 7R01117 – "Anesthesiology and Resuscitation, including Pediatric" was renamed to 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)".

**Contingent of students of the educational programme by specialty
7R01117 – “Anaesthesiology and Resuscitation (Adult, Children)”**

Levels of education	Duration of training	Beginning of training on the State Standard of RoK (year)	Number of trainees excluding foreign nationals		Number of foreign students	Applications for training submitted		Completed the contest		Enrolled in training in the current year excluding foreign nationals		Enrolled in foreign studies citizens in the current year	Tuition Fees
			Governmental	Hoz/contract		GD of RoK	Foreign.Gr.	Gr.RoK	Foreign.Gr.	Governmental order	Hoz/contract		
2019-2020 academic year													
7R01117 – “Anaesthesiology and Resuscitation (Adult, Children)”	3	2019.	6	3		42		9		6	3		1000000
2020-2021 academic year													
7R01117 – “Anaesthesiology and Resuscitation (Adult, Children)”	3	2020.	15	10 (LEB)		38		25		15	10 (LEB)		1000000

2.2 Information on previous accreditation

Educational programme "7R01117 - Anaesthesiology and Resuscitation (Adult, Children)" NEI "KRMU" on 03.10.2016 was accredited by the "Independent Accreditation and Rating Agency" for a period of 5 years. Certificate registration number: AB 1075 (https://iaar.agency/registry?country_id=1&accr_type=2&univer_type_id=1&year_start=2016&page=4 and http://esuvo.platonus.kz/#/register/education_programme/application/28141).

2.3 Conclusion on the results of the review of the report on the self-assessment of the NEI "KRMU" for compliance with the Standards of accreditation of postgraduate programmes (specialty of residency) of medical organizations of education and conclusions

The report on the self-assessment of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" (hereinafter – the report) is presented on 138 pages of the main text, applications on 29 pages, copies or electronic versions of 36 documents located at the link to the Google disk cloud.krmu@gmail.com

The report is characterized by the completeness of responses to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for the self-assessment of the educational programme provided to the organization of education by the accreditation center - ECAQA, as well as the internal unity of information. The report is accompanied by a cover letter signed by the head of the rector, MD, Professor Dzhainakbayev Nurlan Temirbekovich, which confirms the reliability of quantitative information and information included in the self-assessment report. The report contains a list of 9 members of the internal self-assessment commission, indicating the responsibility of each employee, information about the representative of the organization responsible for conducting the self-assessment of the educational programme:

order №	Full name	AcademicDegree/Appointment	Position, place of work
1	Kusainova a.s.	doctor of Medical Sciences	vice-Rector for Academic Affairs
2	Imanbaeva Zh.A.	doctor of Medical Sciences	Vice-rector for scientific and clinical work
3	T.A. Sovostyanova	candidate of Medical Sciences	Acting Vice-Rector for Educational Work
4	Ligai Z.N.	doctor of Medical Sciences, Professor	chairperson of the postgraduate education CEP
5	Meirbekov E.M.	doctor of Medical Sciences, Professor	Head of the Department of Anesthesiology and Resuscitation
6	M.T. ELEMESOVA		director of Financial Work Department
7	S.Yu. Kasimova		Head of Legal and Administrative Department
8	Verevkina V.I.		head of Personnel Department
9	S.T. Dossaeva		chief specialist of the residency department
10	Kasimova a.i.		chief specialist of the residency department
11	Olzhabaev S.T.		Director of the State Enterprise on the Right of Economic Management "Almaty Regional Oncology Dispensary"
12	Yenikeeva M.T.		Resident doctor in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)", 2nd year of study
13	Bekmagambetova Zh.M.	A representative of the University, responsible for conducting a self-assessment of the educational programme	Head of Strategic Development and Accreditation

The self-assessment of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" was carried out on the basis of the order of the head No. 26-02-50/1-n/k dated 01.07.2021. "On preparation for accreditation and organization of the process of self-assessment of educational programmes".

The report was reviewed by the accreditation expert: A.B. Zhunusova, and the reviews noted strengths and areas for improvement, as well as recommendations for additions and changes, including the following:

Standards	Reviewer (s) Recommendations
1	There is no information regarding the definition of the mission of the educational programme (1.1.2); There is no information regarding a patient-oriented and holistic approach to the care and treatment of patients (1.1.4); There is no information regarding incentives for residents in their desire to become researchers, participate in academic development and improve scientific research (1.1.7); Instead of the educational programme 7R01117 – Anesthesiology and Resuscitation of Adults, the course of the Ministry of Emergency Situations is indicated for children (1.2.2); Information about the rector is available at the specified link https://krmu.edu.kz/blog-rektora/ , but there is no possibility of attaching appeals to the rector (1.2.3)
2	The criterion is descriptive, no information is provided when and what changes were made to the content of the training programme (2.3.4); The principle of choosing a clinical base is not defined (2.5.1). It was possible to take as a basis the Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. KR DSM-304/2020 On approval of the provisions on the clinical base, the clinic of organization of education in the field of health care, the university hospital, the base of residency, the integrated academic medical center and the requirements for them; There is no information regarding the representation of stakeholders in the discussion, approval and review of the educational programme (2.5.2); There is no information on clinical bases (2.5.4)
3	Validity and reliability of instrumentation are not reviewed by external experts. The review is carried out only within the department (3.1.4); this Standard presents contradictory information that does not allow to provide an opinion on the current assessment mechanisms: "The final grade for the discipline is issued by the examiner in the educational journal, in the examination sheet and the credit book of the student of the residency" (3.1.5) and "The results of students' academic achievements are entered into the electronic educational journal through the office-registrator system and the AIS" Platonus "programme, which automatically generates examination sheets" 3.1.9
4	There is no information regarding the individual training programme for residents in special circumstances and taking into account previous experience in the provision of medical care (4.5.7 and 4.5.8)
5	There is no information regarding the incentive and motivation of practitioners for their participation in the training of residents (5.1.3); In general, the Standard lacks information regarding the number of teachers, the programme for the development and support of teachers of the implemented EP; personnel, degree, training, mobility, scientific and professional achievements of the teaching staff.
6	The presented book fund refers in general to the NEI "KRMU", the fund for the accredited EP is not indicated (Attachment 8); The information provided on the research base and priority areas in the field of scientific research is descriptive and does not reflect the scientific activities of the EP (6.5.2)
7	-
8	-
9	The materials of the report do not contain information on the criteria of Standard 9.4 (9.4.1-9.4.9).

Thus, in the process of feedback from the representative of the educational organization, experts received answers to the questions that arose and the self-assessment report was amended accordingly and additions were made to the recommendations of the reviewers.

In all standards, the real practice of the NEI "KRMU" for the training of residents in the specialty "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" is given, taking into account the beginning of the admission of residents in 2013, reasoned data, examples of the implementation of the tasks of the educational programme, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. The description in the self-assessment report is quite complete and up-to-date in terms of the number of residents, teachers, administration, information on selection and admission, training results, results of knowledge and skills assessment, the material technical base of NJSC «KRMU» and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, plans for development and improvement, etc.

The report is submitted to ECAQA in a completed form, with correction of the data on the above recommendations, written in a competent language, the wording for each standard is clear and understandable and described in accordance with the criterion of standards, tables and contain references in the text and have end-to-end numbering.

The quality of the self-assessment report served as the basis for moving to the next stage of the accreditation procedure, the external assessment. The experts plan to validate the report data, compare the information from the report with the information that will be obtained during the visit to the educational institution, i.e. verification of quantitative and qualitative indicators.

3. External expert evaluation

External expert work in the framework of the evaluation of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" was organized in accordance with the Guidelines for the External Evaluation of Educational Organizations and Educational Programmes of ECAQA (approved by the order of the Director General of the NU "Eurasian Center for Accreditation and Quality Assurance of Education and Health" No.5 dated February 17, 2017) and in accordance with the programme approved on February 11, 2022 by the Director General of ECAQA Sarsenbayeva S.S. and agreed with the Rector of the organization of education Dzhainakbayev Nurlan Temirbekovich. Dates of the visit to the organization: from 16.02.2022 to 18.02.2022

The external evaluation is aimed at validating the data of the self-assessment report and verifying the indicators indicating the degree of compliance with the criteria of accreditation standards.

The sequence of the visit within 3 days is presented in detail in the Visit Programme (hereinafter referred to as the Programme), which is contained in the documentation of the accreditation center and in Attachment 3 to this report. The programme is evidence of the implementation of all planned activities within the framework of an external expert evaluation.

The participation of the foreign expert Nasyrov Ruslan Abdullayevich, MD, Professor, Vice-Rector for Research, Head of the Department of Pathological Anatomy with the course of Forensic Medicine of the St. Petersburg State Pediatric Medical University of the Ministry of Health of the Russian Federation, Member of the New York Academy of Sciences is provided online on the zoom platform (videos are archived in the accreditation body).

To obtain objective information, the EEC members used the following methods and their results:

- interview with management and administrative staff – 12 people in total;
- interviews with residents – 93 people;
- studying the website <https://krmu.edu.kz/>;
- interviewing employees - 3 teachers;
- questionnaires of teachers and residents – 20 and 3, respectively;
- observation of the training of residents: attendance at one practical lesson – the topic "Anesthesia during surgical interventions in gynecology", the teacher's name – Kuandykov T.K., the contingent

of students of residents – 4 people of the group AiR 20-01, the venue of Zheltoksan, 62, clinical base of JSC "National Research Center for Surgery named after A.N. Syzganov";

- review of resources in the context of the implementation of accreditation standards: one base of practice/clinical engagement was visited – JSC "National Scientific Center for Surgery named after A.N. Syzganov", where training is carried out according to the educational programme with the participation of 3 full-time teachers and 5 part-time employees;
- study of educational and methodological documents in the amount of 18 units both before the visit to the organization and during the visit to the units (the list of studied documents is in Attachment 2).

The staff of the accredited organization ensures the presence of all persons indicated in the visiting programme and according to the lists of interviews and interviews (Table 1).

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

№	Full name	Job Title
1	Dzhainakbayev Nurlan Temirbekovich	Rector
2	Imanbaeva Zhaysan Abilseitovna	Vice-rector for scientific and clinical work
3	Kusainova Arman Sailavbekovna	Vice-Rector for Academic Affairs
4	Tatyana Anatolyevna Sovostyanova	Acting Vice-Rector for Educational Work
5	Orakbai Lyazzat Zhadigerovna	head of the Residency Department
6	Ligai Zoya Nikolaevna	chairperson of the postgraduate education CEP
7	Dossaeva Saltanat Tasbulatovna	chief specialist of the residency department
8	Kulebayeva Elmira Kuanyshevna	head of the Career Center
9	Iskakova Dana Askarovna	head of the Department of International Cooperation and Academic Mobility
10	Vera Ivanovna Verovkina	head of Personnel Department
11	Ergali Mamatovich Mierbekov	doctor of Medical Sciences, Professor, Head of Course
12	Abdukarimov Khashimzhan Khakimovich	doctor of Medical Sciences, associate professor of the course
13	Uvalieva Sabina Maratovna	lecturer of the department
14	Arginbayev Madiyar Nurzhanuly	1st year residents
15	Zholdasov Nursultan Zholgasovich	
16	Mamerbayev Eskeldi Sanatbekuly	
17	Meyirbekova Gulnaz Zhorakyzy	
18	Meyrambek Moldir Bagdatkyzy	
19	Oralbayev Nurbol Bakhytuly	
20	Seitkadyrova Kyzgaldak Kairatkyzy	
21	Evgeny Nikolaevich Tufuminov	
22	Khurshudova Farida Zeynullaevna	
23	Yerik Altynbayevich Amanbayev	Residents of the 2nd year
24	Enikeeva Magmura Talgatovna	
25	Kosareva Svetlana Leonidovna	
26	Nurgaali Nurbolat Shyntemiruly	
27	Ospanov Kanat Asylbekuly	
28	Sanayi Mukhagali Nurzhanuly	
29	Sembay Nurzhan Zharasuly	
30	Shaikhina Danara Mukhtarovna	
31	Orazalieva Ulbala Bakhtiyarovna	
32	T. Bauyrzhan Bakhytzhanuly	

33	Laura Baimagambetova	issue 2020
34	Tarasyukov Alexander	graduation 2021
35	Imashev Rinat Oralovich	graduation 2018
36	Yesen Bakhytzhonovich Yespenbetov	Employer – Head of the Resuscitation Department of the State Clinical Hospital No.7

Thus, when implementing the activities of the programme, namely, based on the results of the interview with the first head of the organization, members of the Academic Council, in interviews with residents and teachers, compliance with the criteria of **Standard 1** was established. All participants in the educational process know the mission of the organization, took part in the formation of proposals for the formulation of the mission, while the mission was brought to the attention of potential residents through the website, social networks, information letters to medical organizations. The strategic plan of the organization dated December 26, 2019 for the period of 5 years (2019 – 2025) was reviewed, including such areas as 1. Educational programmes; 2. Development of research potential of the university and integration of science with the clinic; 3. Employment; 4. International cooperation; 5. Digitalization of the University; 6. Integrated Management System; 7. Human capital and social responsibility; 8. Marketing, university image; 9. Material and technical base, which confirms the implementation of the accreditation standard and demonstrates the goals, objectives and prospects of the organization. From interviews with residents, it was established that before the beginning of classes, teachers inform about the mission, work plans of the organization of education, tell where to get the necessary information about the educational programme, teachers, training bases. This indicates compliance with **Standard 2** in terms of adapting training to the needs of residents.

The organization's documents contain work programmes, EMCD, which define the goal, take into account the integration of practical and theoretical components, independent work. Compliance with the SCES and standard requirements has been established. Attending the practical lesson on "Anesthesia during surgical interventions in gynecology", the volume of hours 1, the experts received convincing data that the training is carried out according to the plan, before the beginning of the lesson, residents respond to tests, receive feedback from the teacher, have the opportunity to improve the skill by types of anesthetic interventions in gynecology. The organization ensures compliance with ethical aspects in the implementation of the educational programme, since the experts studied the Code of Ethics (order No.347/1 of 12.12.9017) and during the interview, the residents replied that they were informed about the content of this document.

When attending a practical lesson and talking to residents, experts saw that the organization promotes the development of practical competencies of residents, including on simulation equipment (Head of an adult on a LAMT intubation stand, a lumbar puncture training simulator, a chest model for central vein catheterization, a CPR simulator). At the same time, residents deepen their theoretical knowledge, develop communication skills.

The analysis of educational activities showed that the scientific basis and all the achievements of science in advisory disciplines are taken into account, additions are made to the bibliography of the EMCD and syllabuses, and teachers apply them in classes.

Study of measuring instruments (50 tests, 20 tasks, 10 clinical cases, list of control questions for midterm controls in the discipline "anesthetic support for surgical patients" 10 questions)

mini-cex scorecard

scorecard Case Discussion (cbd)

medical Record Completion Scorecard (aa)

practical Skill Assessment Sheet (dops)

presentation evaluation

360-degree feedback score

assessment of duty

showed that an appropriate evaluation policy had been put in place in the organization to enable a multifaceted evaluation of resident learning achievements. During the interview, the residents told

about the evaluation forms, for example, the 360-degree assessment and that they were satisfied with everything. The residents expressed their wishes to travel abroad within the framework of academic mobility to master innovative methods in the anesthesia service and intensive care. They also receive regular feedback from teachers. The system of appealing the results of the assessment is reflected in the Academic Policy and there were no precedents for the appeal during the period of work of the organization of education.

Thus, compliance with **standard 3 has been established.**

During the visit to the organization and during the interview with the head of the course Meirbekov E.M., the commission made sure that there is a documenting system that is transparent and accessible to all teachers and employees, and includes such documents as annual department plans, departmental reports, regulations of divisions, contracts with teachers and residents, clinical work plans of the department, clinical work logs, clinical work reports (to be supplemented), educational and methodological documentation (work programme, work curricula, syllabuses, journals), evaluation tools (checklists, sheets), certificates and certificates. A review of the website showed that its pages contain the necessary documents for residents: instructions for proctoring, MOODLE for students (<https://moodle.medkrmu.kz/>), a training portal after registration, which gives the resident access to the schedule, an electronic library (<https://vcabinet.kz/mudl-medkrmu-kz.html>) and information on the EP, Academic Policy, which is regularly updated. This information was obtained during an interview with the Head of the Residence Department Orakbai Lyazzat Zhadigerovna,

The conversation with Vera Ivanovna Veryovkina, Head of the Personnel Department, Zhaisan Abilseitovna Imanbayeva, Vice-Rector for Scientific and Clinical Work, Zoya Nikolaevna Ligai, Chairperson of the Postgraduate Education CEP, and Saltanat Tasbulatovna Dossayeva, Chief Specialist of the Residence Department, allowed the experts to learn about approaches to attracting employees of clinical bases for teaching (20 people in total), about the strategy and tactics of recruiting residents, information security of the educational programme, as well as to identify problems in the management and development of human resources, since most part-time teachers do not know the teaching methodology.

Interviews with 4 teachers, including 3 full-time, showed that the teaching staff of the EP is full of enthusiasm, and even with higher salaries in practical health care, they do not leave the education system for practical health care due to the need to share knowledge with young specialists, there is close cooperation with practical health care in relation to patient management, the implementation of joint scientific research and the admission of residents to patients and medical equipment of the clinical base, since residents provide practical assistance to doctors in patient management and filling in medical documentation, which was especially relevant during the pandemic. Head of the course of anesthesiology and resuscitation, Doctor of Medical Sciences, Professor Ergali Mamatovich Mierbekov is the President of the NEI "Federation of Anesthesiologists and Resuscitators of Almaty, which allows all residents of the NEI "KRMU " for the accredited EP to join the ranks of members of this Association; is a member of the Association of Anesthesiologists and Resuscitators at the Russian Scientific Center of Surgery named after Academician B.V. Petrovsky, Moscow; editor of the journal of the Association of Resuscitators of Anesthesiologists of the Republic of Kazakhstan; owner of intellectual property (pre-patents) of 6 scientific inventions. The faculty members of the department are the developers of the EP, take part in volunteer programmes.

Experts received answers about the programme of professional development of teachers, financing of this training, availability at teachers of certification on methods of teaching.

On the same day, experts studied the Rules for admission to the PR-03-11-05 residency for the admission of residents and the Personnel Policy R-01-23-01 for the selection of teachers and established compliance with **Standard 4.**

In order to verify the data of Standard 5, external experts received an opinion on the personnel policy and approaches to the development of teachers' pedagogical competence, motivation to work with residents, and mentoring. Experts found that teachers initiate research topics for residents, stimulate the

need for additional training and independent work with literature, medical documentation, simulation equipment and simulators.

Due to the severe course of the coronavirus disease, Aidar Bakeevich Isabekov and Galiya Kolyaevna Salmenbayeva were provided with financial assistance in the amount of 125,000 tenge (Rector's Order 23-20-499/k dated 27.04.2020)

During the visit to the clinical base of JSC "National Research Center for Surgery named after A.N. Syzganov", experts conducted a survey of resources, their compliance with training programmes, accessibility for teachers and residents, as far as this equipment is modern and meets the needs of residents and practical health care. Experts obtained evidence of compliance with **Standard 6**, as well as validation of the information in the self-assessment report.

In order to validate the implementation of the data of the self-assessment report and to obtain evidence of the quality of the programmes, an interview was conducted with residents in the specialty "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)". The experts asked questions about satisfaction with the training, enough time for patient supervision, work in DAMUMED with medical documentation, satisfaction with teaching methods and qualifications of teachers, social and moral support for residents in need, participation in "Journal Clubs", accessibility of international databases of professional literature, scientific works. In general, residents are satisfied with the training, assessment methods, and purposefully entered this organization, since they believe that the organization of education has good resources, image and international relations, at the same time, residents would like more autonomy in patient management, organization and participation in international conferences, participation in academic mobility.

Residents showed their commitment to the organization of education, were active in answering the questions of external experts, demonstrated their judgment in the organization of training, assessment of their skills, advisory support, the opportunity to participate in R&D. Members of the External Expert Commission (EEC) Experts studied the documents of residents (portfolio, results of assessment of residents - checklists, results of questionnaire of residents).

Interview with employers, including the Head of the Resuscitation Department of the State Security Committee No.7, Yesen Bakhytzhonovich Yespenbetov, was conducted online and included such issues as: knowledge of the mission of the NEI "KRMU", participation in the development of the mission and proposals in the strategic plan, participation in the work of advisory bodies, satisfaction with the 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, 100% employment of residency graduates, etc.

The review of resources showed that they correspond to the goals and objectives of educational activities, for example, the clinical base of JSC "National Scientific Center for Surgery named after A.N. Syzganov" with a common bed capacity of the intensive care unit, anaesthesiology and intensive care unit - 21, and employees of the organization of education provide collegial and ethical relations with medical personnel, the management of the clinical base to achieve the final results of residents. A sufficient number of thematic patients, modern equipment and demonstrates accessibility to students are provided, and employees who simultaneously perform the roles of teachers and mentors (mentors) provide high-quality training in compliance with ethics and deontology. Before starting the relevant discipline of the educational programme, the resident receives a syllabus from the teacher and knows what skills he must acquire and develop during the training.

Thus, during the external visit, the experts obtained supporting evidence on the information provided in the self-reports on the EP, which comply with the accreditation standards of the ECAQA: the accredited EP is licensed, reviewed and included in the register of the EP register of the MES; according to the accredited EP, the mission was declared, which was developed jointly with residents and employers and brought to the attention of all interested parties through Internet resources and advisory bodies; the programme structure, content and duration meet the requirements of the state standard of education in the residence. 72 students of EP residents are located at 11 clinical bases located

in Almaty, equipped with modern equipment and with a sufficient number of patients to master the results of training; the resident population grows from year to year – the first set was 1 resident, the last set was

39 residents (according to the state educational order – 15), the fact that 24 residents are trained at the expense of medical organizations is positive, which is proof of the confidence of these organizations in the programmes of the NEI "KRMU". The department has developed methodological documentation for the high-quality implementation of EP. All groups of interviewers at the interview showed their commitment to the NEI "KRMU" and are satisfied with the quality of the educational process.

On the last day of the visit to the organization, a meeting of EEC members was held on the results of the external evaluation. The final discussion of the results of the external evaluation of the educational programme, the study of documents, the results of the interview, questionnaires was held. EEC members started designing the final EEC report. The results of the external evaluation are summarized. The experts individually completed the "Quality Profile and Criteria for External Evaluation of the Educational Programme " 7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" for compliance with the ECAQA Accreditation Standards." No comments were made by the EEC members. Recommendations on improving the educational program were discussed and Chairperson Turgunov Ernek Meiramovich held a final open vote on recommendations for the ECAQA Accreditation Council for the accreditation period of 5 years.

For the work of the EEC, comfortable conditions were created, access to all the necessary information and material resources was organized. The Commission notes the high level of corporate culture of the NEI "Kazakh-Russian Medical University", a high degree of openness of the team in providing information to the members of the EEC.

At the end of the programme of the visit, the chairperson of the EEC for the management and employees of the organization of education announced recommendations on the results of an external assessment within the framework of specialized accreditation.

Conclusion: according to the results of the external evaluation, the activities of the NEI "KRMU" meet the criteria for accreditation of postgraduate programmes (specialty of residency) of medical organizations of education.

4. Results of the survey.

The ECAQA observer conducted an online questionnaire on February 17, 2022 at <https://webanketa.com/>.

The resident survey includes 22 questions.

In total 200 people (in total 629 residents for the current year) answered.

87.5% of residents will recommend studying in this educational institution to their acquaintances, friends, relatives; 89% agree that programme managers and teachers are aware of their problems related to education; 89.5% of residents are involved in the work of advisory bodies; 87.5% are satisfied with the conditions and equipment of study rooms; 85.5% fully agree with the statement that the NEI "KRMU" created conditions for rest and meals for students (recreation rooms, benches/gazebos on the territory, canteen) in between classes; 97% are satisfied with the availability of office equipment (computers, laptops, printers); 99% are satisfied with the provision of methodological and didactic materials, additional literature for preparation for classes and access to the participation of residents in research work; 85.5% are satisfied with the library fund and access to electronic educational resources; 91.5% are satisfied with the activities of mentors, curators, scientific managers; 95.5% agree that teachers and employees of the NEI "KRMU" respect them

For 95.5% of residents, their mentors and supervisors are an example as a professional doctor and a person; 95.5% are completely satisfied with the number of patients for supervision or assistance in operations; 93.5% like to study at the NEI "KRMU"; 97.5% are satisfied with the relationship with fellow students, colleagues and medical personnel of clinical bases; 91.5% noted that they did not feel the negative attitude of teachers; 100% believe that the NEI "KRMU" management is available to them; 74% of residents are involved in research work this academic year; 85% of residents have published

printed works (articles, theses, reviews) during the training; 94.5% are confident that the NEI "KRMU" allows them to acquire the necessary knowledge and skills in the chosen specialty; 93% are fully satisfied with the teaching; 89.5% positively evaluated the work of the External Expert Commission; 88% believe that it is necessary to conduct accreditation of educational programmes; 76% of residents were involved in the preparation of the self-assessment report.

In general, the results of the survey of residents are positive and demonstrate their satisfaction with the educational process, the resources of the clinical base and the NEI "KRMU", the competencies of teachers and mentors, and consider them an example to follow.

The teacher survey included 21 questionnaire questions. In total 113 people (in total in the state 66) answered, thus pedagogical experience till 5 years – at 28,32%, till 10 years – 22,12%, more than 10 years - 49,56%.

74.34% of teachers are completely satisfied with the organization of the educational process; 86.73% fully agree that ethics and subordination are observed in relations between colleagues, teachers, management; 75.22% are completely satisfied with the organization of work and the workplace; 70.8% see the opportunity for career growth and development of teachers' competencies; 75.22% of teachers believe that they are fully provided with the opportunity to engage in scientific work and publications of research results; 74.33% of teachers are satisfied with the salary; 83.19% are fully satisfied with the work of the personnel service; during this year, 49.56% of teachers have attended professional development courses (programmes); 95.57% of teachers believe that the discipline they teach is provided with sufficient resources; 81.42% fully agree with the fact that that they are given the opportunity to realize as a professional in the specialty; 63.72% actively participated in the development of the educational programme in the discipline that is taught; 60.18% believe that applications for the purchase of methodological and didactic materials, office equipment, stationery to ensure the educational process in the organization are carried out in a timely manner; 85.84% fully agree that students have free access to patients on the clinical bases of the university; 38.94% of teachers are aware of the programmes of social support for teachers in the NEI "KRMU"; in the process of teaching residents, the most commonly used methods are such as analysis of situational tasks, oral analysis of the topic of classes, compilation and solution of cases, problem-oriented learning, interactive learning; 70.8% fully agree that this questionnaire is useful for the development of recommendations on improvement of key activities of the NEI "KRMU"; 31.86% were included in the internal commission on self-assessment in preparation for accreditation of educational programmes; 35.4% of teachers would like to become an expert on accreditation at ECAQA; 92.92% of teachers noted that all activities of external expert work on accreditation are important, but the most evident are interviews with heads of educational programmes, interviews with students and interviews with university management.

In general, the results of the survey demonstrate teachers' satisfaction with the working conditions, wages, social package, educational process, and resources of the clinical base. Teachers highly appreciated the relationships within the team, the work of the HR department, the access of residents to patients and the availability of resources.

5. Analysis for compliance with accreditation standards based on the results of the external assessment of the NEI "KRMU"

Standard 1: MISSION AND END OUTCOMES

Evidence of compliance:

1.1 Mission statement and deliverables

The mission of the educational programme is "the formation of competencies and personal qualities of competitive, creative and innovative thinking, able to implement their knowledge and skills of new generation specialists." The mission of the EP is developed in cooperation with residents (the composition of the CEP) and employers (Round table with employers on the role of employers in the formation of educational programmes dated April 23, 2021). The mission of the EP, which is described

in the passport of the EP, was reviewed by external experts – professor of the course of anesthesiology and resuscitation of Asfendiyarov KazNMU and a representative of employers, Chormanov A.T., Deputy Chairperson of the Board for Scientific, Clinical and Innovative Activities of JSC "NSCH named after A.N. Syzganov".

The mission of the EP is available to the public through the website of the Center for the Bologna Process and [Academic Mobility](#)

http://esuvo.platonus.kz/#/register/education_programme/application/28141 and the website of the NEI "KRMU" <https://krmu.edu.kz/rezidentura/>. Informing the Training Mission is brought to the attention of the teaching staff at departmental meetings, also held by the administration, supervised by the dean's offices. The mission is brought to the attention of residents at curatorial hours, meetings with deans, placed on the information stands of the NEI "KRMU", as well as through information booklets.

Requirements for the level of training of graduates of residency in the specialty 7R01117 "Anaesthesiology and Resuscitation (Adult, Children)" are formulated in the EP according to: the State Mandatory Standard of Residency in Medical Specialties and the standard professional curriculum for medical specialties of the residency, the order of the Ministry of Health and Social Development of the Republic of Kazakhstan No. 647 dated July 31, 2015, as amended by the order of the Minister of Health of the Republic of Kazakhstan dated February 21, 2020 No. KR DSM-12/2020; the Law of the Republic of Kazakhstan "On Education" (Art. 36 "Postgraduate education"); the Code of the Republic of Kazakhstan dated July 7, 2020 No. 360-VI "On public health and the health care system"; Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. KR DSM-305/2020 "On approval of the nomenclature of specialties and specializations in the field of health care, the nomenclature and qualification characteristics of health care workers"; Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 12, 2018 No.563 "On approval of the Rules for the organization of the educational process on credit training technology"; Rules for the admission of medical personnel to training in the residency, approved by Order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020 No. KR DSM-270/2020; Rules for admission to the residency of the NEI "KRMU" for 2020-2021 academic year; "Academic policy"; "Regulations on the current monitoring of academic performance, intermediate and final certification of students"; academic calendar of educational programmes of the residency; individual work plans of the student of the residency.

1.2 Professionalism and professional autonomy

Formation and development of professionalism and professional autonomy is provided by the results of training of a graduate of the residency: LO-3 (Safety and quality: able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care), LO-4 (Public health: able to act within the legal and organizational field of the health care system of the Republic of Kazakhstan in its specialty) and LO-6 (Training and development: able to learn independently and train other members of the professional team, actively participate in discussions, conferences and other forms of continuous professional development).

The EP presents the list of practical skills recommended by the IWS, their number and the level of implementation of the training results.

To increase the level of autonomy in the NEI "KRMU" the General meeting of founders works.

The assessment of the educational achievements of residents is carried out by various forms of control, which are determined by the NJSC "KRMU" independently. Instrumentation, training methods, and monitoring of residents' achievements, approved at the meeting of the department, are subject to further review and approval by the CEP.

Staff autonomy derives from the possibility of internal and external search for candidates for a vacant post. Internal search provides the ability to use the personnel reserve in the first place. Further multi-level selection system contributes to the effective selection of personnel by professional, business, moral qualities using modern technologies (Personnel Policy of the NEI "KRMU" (25.12.2020).

1.3 Learning outcomes

The learning outcomes include knowledge, skills, the need for analysis, communication skills and continuous learning of the resident, which form the backbone of the knowledge and skills of the anesthesiologist and resuscitator. The EP with its structure and methods of training shapes the need to be aware of modern trends in medicine, to use evidence-based medicine data for diagnosis and effective practice of diseases, thus developing the skills of residents for continuous lifelong learning, which is reflected in the IEP of residents, their Portfolio and the RPM of the EP for the 2021-2022 academic year.

The main volume of special skills and knowledge corresponding to different roles of a health care professional is mastered by residents at 11 clinical bases, where they acquire new and practice the previously acquired skills of collecting anamnesis, preoperative examination of patients, clinical thinking, skills of interpretation of the obtained laboratory and instrumental studies, drawing up an anesthesia plan, medical and diagnostic, preventive and anti-epidemic measures, performing medical manipulations, communication skills, decision making skills of intensive care, especially during duty.

The ability to make independent clinical decisions is a priority in the preparation of residents of the accredited EP, focused on practical activities. During work in the hospital, the residents, supervising the patients, after the initial examination, determine the syndromes of the severity of the condition, appoint additional laboratory and instrumental examinations, according to the result of which the intensive care plan is justified (an emergency notification is submitted), determine the indications for transferring the patient to the ICU, prescribe treatment in agreement with consultants and mentors. In addition to clinical skills, this allows residents to implement communication and medical ethics skills, leader / manager or administrator, health advocate, communicator. While performing the duties of a doctor, during clinical training, residents master the final results of training in disciplines that provide training in an interdisciplinary / interprofessional team and develop the ability to work effectively with colleagues and other health care professionals, form schemes of productive interaction with colleagues, stimulate initiative and independent cognitive activity in interprofessional cooperation.

In connection with the change in the role of the teacher and student in the educational process, the development of joint responsibility for mastering the necessary professional competencies, the focus of the educational process on the results of training is formed. Teachers become experts for residents. The mentor, who is a more experienced specialist and supervises the resident, plays a special role in the formation of the clinical thinking of the doctor, his stereotype of work, the nature of relations with patients and their relatives.

1.4 Participation in the formulation of the mission and final results

The main (internal) stakeholders involved in the process of forming the mission of the EP include: teachers, clinical mentors attracted from clinical bases, administrative staff, advisory and consultative bodies of the MEO, residents and graduates of the EP. The employer A.Sh. Kusainov - Candidate of Medical Sciences, Head of ARICU Institute of Surgery LLP and a resident of 2 years of study M.T. Yenikeeva were involved in the development of the accredited EP.

External stakeholders involved in the formulation of the mission and deliverables include: employers (including potential), National socio-professional associations, healthcare organizations. When forming the programme, its goals, and final results, discussions were held at the level of: graduates of the EP (discussion of opportunities), employees of the department (discussion in the working group, at the course meeting), at the CEP meeting (dated 14.05.2020 No.5), at the Academic Council (dated 28.08.2020 No.5) and the Academic Council (dated 12.08.2020 No.5). Adjustments were made to the overall structure of the programme and to the formulation of its objectives and results.

Expanding the range of stakeholders makes it possible to more accurately assess the activities of the NEI "KRMU" and improve the process of continuous improvement of the formulation of the mission and goals. Cooperation with all groups of stakeholders helps the NEI "KRMU" to achieve the goal of forming and implementing standards of corporate ethics, the formation of scientific, socio-cultural, healthy corporate environment, trust in the healthcare system.

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

STANDARD 1: completed

Recommendations for improvement identified during the external visit: none

Standard 2: EDUCATIONAL PROGRAMME

Evidence of compliance:

2.1 Postgraduate programme framework

The educational process in the NEI "KRMU" is organized in accordance with the "Rules for the organization of the educational process on credit technology of training" (Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 20.04.2011 No.152). In the NEI "KRMU", a model of competence of residents was developed, prescribed in the EP, approved at the meeting of the University Council (Minutes No.10 dated June 19, 2019) and including the results of training.

Also, the NEI "KRMU" has developed a model and a modular-competence based approach to the training of residents. When drawing up the training path, the sequence of passing modules / disciplines was observed, taking into account pre- and post-requisites, the content of which is aimed at achieving knowledge, skills and abilities, ensuring a step-by-step approach in their study, which is reflected in the WEPL of the EP dated June 25, 2021.

The structure and content of the EP, approved at the meeting of the Constitutional Court dated 30.03.2020 No.8, comply with the requirements of the State Committee on Environmental Protection of the Republic of Kazakhstan 2017, 2020.

The training is based on practice, involving the students of the residency in their personal participation in the provision of services and responsibility for the activities of providing assistance to patients in medical organizations recognized as the bases of the residency.

Resident training methods include: seminars, conferences, case studies, problem-based learning (PBL); case-based learning (CBL), team-based learning (TBL); simulation-based learning, brainstorming, group discussion, portfolio, combined survey.

The NEI "KRMU" has an agreement with the joint-stock company "Antiplagiat" (license agreement No.1051 dated 08.07.2020). The subject of the contract is the granting of rights to use the result of intellectual activity, namely: Antiplagiat system of university is the service designed to check the written works of students to detect borrowings in academic and scientific works.

Training of residents at clinical facilities is conducted under the guidance of 4 supervisors who have the academic degree of a doctor or candidate of medical sciences, as well as the highest or first qualification category. In addition to the supervisor, the resident is assigned a mentor – a physician of practical health care who has high qualifications. Fixing mentors on 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, pass on to the young specialist, the accumulated experience of professional skills, teach the most rational techniques and advanced methods of work. (order on the appointment of curators and the creation of a Council of Curators dated August 26, 2019 No. 218).

By the decision of the Scientific and Clinical Council dated 17.06.2019, Protocol No.18 of the year in the NEI "KRMU", the Regulation on the clinical mentor was approved.

Persons who have completed training in the educational programme of the residency and successfully passed the final certification are awarded the qualification "doctor" in the relevant specialty of the residency and a certificate of completion of residency is issued.

2.2 Scientific method

EP 7R01117 - "Anaesthesiology and Resuscitation (Adult, Children)", along with the mastery of clinical skills, provides for the involvement of residents throughout the entire period of training in the implementation of scientific activities that he performs under the guidance of a specially appointed mentor from among experienced doctors and under the supervision of the head of the residency, which is reflected in the IEP of the course teachers.

Each discipline of EP 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" includes training from the standpoint of evidence-based medicine, management of scientific research and public health, teach the search for reliable and high-quality information, the ability to differentiate it in terms

of value and effectively use it in clinical practice and research work, which is reflected in the EP (http://esuvo.platonus.kz/#/register/education_programme/application/28141).

The EP provides for training of residents in critical assessment of literature, articles and scientific data through the writing of abstracts, presentations in accordance with the thematic plan of the discipline, essays on current problems of diagnosis and treatment of diseases of the most common diseases

2.3 Content of the residency programme

The content, scope and sequence of disciplines in the accredited EP strictly corresponds to the IWS. The educational programme is designed for 210 credits: core disciplines - 196 credits, a component of choice – 8 credits, interim certification – 4 credits, final certification – 2 credits.

The development of clinical skills and professional attitude to work is facilitated by the participation of residents in the real activities of the doctor: the supervision of patients at the hospital level, the registration of medical documentation, work in the medical information system of the CMIS, work with regulatory acts, duty, work in intensive care units and operating units, functional diagnostics, the preparation of reports, presentations, the formation of a portfolio that provides a visual example of a professional attitude to work in a medical organization and interprofessional communications of specialists of various profiles and levels.

The course of anesthesiology and resuscitation studies the needs of the region and the labor market and offers the disciplines of the component of choice. The list of elective disciplines of the component is discussed with employers. Students participate in the formation of EP, since when drawing up the list of elective disciplines, data on the analysis of residents' satisfaction with the educational process are taken into account. In addition, the needs of employers and practical health care are taken into account in the formation of the EP.

2.4 Programme structure, content and duration

The structure of the EP of the Residency in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" is formed from various types of educational, scientific and clinical work, practice that determine the content of education, reflects their ratio, measurement and accounting. The EP is implemented in accordance with the State Standardization Committee of 2020 and provides the necessary level of training of residents, includes the relevant specialized disciplines. The EP contains components aimed at the development of deep professional skills. The content of the programme is sufficient to achieve the expected learning outcomes.

The distribution of disciplines by hours, semesters is carried out by the CEP and the department of academic work in accordance with the State Committee on Education, Science and Technology and the list of components of the choice, agreed with the vice-rector for academic activities. The individual curriculum is formed for each resident for the entire period of study, agreed with the curator and approved by the head of the course.

EP in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" allows residents during the entire training to plan and implement an individual, directed trajectory of training, preparing for work in the chosen specialty. With a three-year training programme, residents master 210 loans, 8 of which fall on KPV – elective disciplines. The list of elective disciplines of the component is compiled in accordance with the Catalogue of Elective Disciplines, formed and approved annually in the NEI "KRMU".

During the training period, 1/3 of the total number of hours is allocated for independent work of the resident (IWS), which includes the management of patients (therapeutic and diagnostic, preventive work), participation in consultations of serious patients, duty in the departments of the clinic, mastering of practical skills provided for by the training programme.

After the academic period, a survey of residents is carried out, an analysis of satisfaction with the educational process is carried out, all errors and recommendations are taken into account (Reports on the results of the survey of residency graduates for 2020 and 2021).

The duration of mastering the educational programme of the residency in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" is 3 years.

2.5 Organization of training

According to the presented structure of the university, the vice-rector for scientific and clinical work, who reports to the rector, is responsible for the strategy for the development of postgraduate education. The vice-rector responsible for the educational activities of the residency is the vice-rector for academic activities.

The departments of the NEI "KRMU" headed by the head of the course determine the clinical bases, where as much as possible the resident will be able to access patients in their profile of the educational programme of the residency.

The NEI "KRMU" ensures the inclusion of representatives of residents and employers in the advisory bodies, which is reflected in the Regulation on the Committee for Educational Programmes of PL-03-17-06 dated August 29, 2019. The order on the composition of the CEP for 2021 includes 2 residents of the accredited EP (order dated 28.08.2020 No. 26-02-15 n/k). Responsible for the management of the educational programme are the Residence Department, structural units (EMA, AWD) and advisory bodies (SC, AC, CEP).

Teachers are responsible for the high-quality development of the educational programme, and the management of the NEI "KRMU" is responsible for the distribution of resources necessary for its implementation.

Course staff and mentors coordinate the educational process, rotate residents by departments, clinical units. To master clinical skills, residents have the opportunity to receive training in the intensive care units of various clinical bases in accordance with the topics of practical classes and those competencies defined in the EP.

An important principle of education quality management is customer orientation. Residents are active participants in joint activities with the teaching staff to obtain higher education, and have the right to participate in the assessment of educational activities by participating in the CEP and annual questionnaires of residents.

Residents through direct oral, written appeal to the head of the course, also as a result of feedback (questionnaires) after passing each discipline can influence the organization of the curriculum (selection of teaching staff, clinical base - department, etc.).

2.6 Relationship between postgraduate medical education and health care

On the clinical base, a resident is assigned a mentor – a practitioner of health care who has the highest qualification category or more than 5 years of experience. Under the supervision of a mentor, residents are trained in practical skills and abilities in the diagnosis and treatment of pathologies requiring intensive care and patient management in the conditions of the ICU, as well as in maintaining medical records, communication skills with patients, their relatives, colleagues, junior and nursing staff. Mentoring is carried out on the basis of the Regulation on the clinical mentor, approved by the protocol of the scientific and clinical council No.18 of June 17, 2019.

The presence of clinical bases in the largest multidisciplinary clinics in Almaty and the regions provides residents with the opportunity to master the process of managing severe patients and patients in need of surgery, continuity between the primary and stationary levels of care, interaction as part of a multidisciplinary team, assistance in emergency situations. Patient supervision allows residents to master diagnostic and treatment procedures in the course of daily clinical activities. Multidisciplinary clinics have a wide profile of emergency departments, which allows residents to see and supervise a sufficient number of patients with a variety of pathologies corresponding to the cycle of disciplines.

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

Standard 2: Implemented

Recommendations for improvement identified during the external visit: None

Standard 3: ASSESSMENT OF STUDENTS

Evidence of compliance:

3.1 Methods of evaluation

The general policy, principles, methods of assessment of residents in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" in the NEI "KRMU" are reflected in the following internal documents: Academic Policy of the NEI "KRMU", Regulations on the current monitoring of academic performance, intermediate and final certification of students in the NEI "KRMU", approved by the Academic Council dated 24.04.2020 No. 1. The form of the midterm and final control is approved by the Academic Council. For testing, a technical specification is drawn up – a matrix of test tasks, which is reflected in the syllabuses. To ensure maximum objectivity and transparency of the evaluation process, the course has developed checklists for conducting current, midterm and final control of the discipline (Mini-cEX, CbD, OSCE).

The faculty of the departments, the head of the course and the registrar's office are responsible for the implementation of the policy on assessing the educational achievements of residents.

At the first lesson, teachers communicate to residents the assessment criteria and forms of current control, which are displayed in syllabuses. Electronic versions of EP syllabuses are received by residents through their personal account on the official website of the NEI "KRMU" <https://certiftest.medkrmu.kz/>. In addition, the educational journals provide a sheet familiarizing resident with the policy of the department and the criteria for assessing knowledge.

Current monitoring is performed by the teacher/clinical mentor. The forms and content of the current control are determined by the syllabus by discipline and are evaluated on a 100-point scale.

Interim certification of residents is carried out in accordance with the academic calendar and EP. The schedule of interim certification is drawn up by the MMC and communicated to residents and teachers no later than two weeks before the start of the certification.

The final control of the discipline is determined by the evaluation of the final learning outcomes. The final grade for the discipline includes assessments of the admission rating and the final control (examination grade). The share of assessment of the admission rating is 60% in the final assessment of the student's mastery of the curriculum of the academic discipline. The assessment of the final control (examination) is 40% of the final assessment for this academic discipline.

The NEI "KRMU" uses additional methods of assessment of residents by EP, such as a portfolio, assessment of scientific activities. Evaluation methods are developed by the department and are also reflected in the syllabuses.

The strategy of the examination policy is described in the Academic Policy of the NEI "KRMU", the Regulations on the current monitoring of academic performance, interim and final certification of students of the NEI "KRMU".

Methods of assessment of residents of the NEI "KRMU" are available for examination by external independent experts, which is reflected in the reports of the chairmen of the AC.

The results of academic achievements of residents are recorded in the electronic educational journal through the office-registrator system and the AIS Platonus programme, which automatically generates examination sheets.

3.2 Relationship between evaluation and training

Assessment methods are fully comparable with teaching and learning methods and cover the assessment of all resident competencies both during practical classes and during exams. The methods used to assess the competencies of residents are defined in syllabuses for disciplines that are discussed and approved at departmental meetings, CEP, AC, SC. Evaluation criteria are presented in the syllabus, on the website of the NEI "KRMU" <https://krmu.edu.kz/>, and are also announced at the first lesson of each discipline. Each stage of the assessment (current, milestone and final control) allows you to assess the achievement of the final results of the resident's training.

After mastering the practical skills, the resident independently assesses his knowledge and notes in the resident's diary about its implementation, thus self-control is carried out. Portfolio evaluation

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

The assessment of knowledge, skills and abilities is carried out by means of control and measuring instruments, which undergo a multi-stage quality check.

The use of the electronic Platonus system and the office registrar contributes to the digitalization of evaluation processes and transparency of resident evaluation methods.

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

Recommendations for improvement identified during the external visit: none

Standard 4: STUDENTS

Evidence of compliance:

4.1 Admission and Selection Policy

Admission to the residency in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" is carried out in accordance with the Order of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of the Standard Rules for admission to education in the organization of education, implementing educational programmes of higher and postgraduate education" dated October 31, 2018 No.600, the State Standard Educational Standard of the Republic of Kazakhstan – 2020 and the Rules for admission to the residency of the NEI "KRMU" for the current academic year. The residency's specialties include clinical orientation of education and advanced specialized training in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)".

The criteria for applicants entering the residency are determined by the requirements of the State Standard of Education and Training of the Republic of Kazakhstan, according to which the previous level of education of persons wishing to master the educational programmes of the residency: basic medical education, higher medical education, internship.

Questions on admission to 44 educational programmes of the residency are posted on the website of the NEI "KRMU" <https://krmu.edu.kz/rezidentura-3/>.

The Examination Commission for specialties is formed from among highly qualified scientists – the Chairperson and three members from among the staff of the NEI "KRMU" and scientific organizations that have an academic degree in the relevant specialty. In order to ensure the transparency of the examination procedure, the examination is videotaped, observers and commission members are present in the hall.

According to the Rules for admission to the residency PR-03-11-05 of 24.07.2020. in the case of the same indicators of competitive points, persons with seniority and experience in the fight against coronavirus infection in medical organizations of the country, as well as having the highest grade in the specialty, in the case of the same indicators of the entrance examination in the specialty, receive priority for admission. Then, scientific achievements corresponding to the profile of the chosen specialty are taken into account: scientific publications, including in rating scientific publications; certificates of scientific development; certificates of award of scientific scholarships, grants; diplomas/diplomas for participation in scientific conferences and competitions in the 2019-2020 academic year and scientific publications, including in rating scientific publications in the 2020-2021 academic year.

In order to ensure compliance with the uniform requirements and resolve disputes in the NEI "KRMU", an appeals commission is established to consider appeals (Model Rules for Admission to Education Organizations Implementing Professional Curricula of Postgraduate Order No.600, Rules for Admission to Residency).

The chairperson and composition of the appeal commission in the NEI "KRMU" is approved by the order of the rector.– In the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" there were no precedents of appeal.

4.2 Number of residents

In order to ensure a balance between the existing potential and the capabilities of the NEI "KRMU" for the training of residency students in preparation for the new academic year, the availability of

resources of the EP is monitored. The number of places in the residency is determined on the basis of the capabilities of the course responsible for the EP, as well as on the basis of the needs of practical health care.

The activities of the NEI "KRMU" in this area are carried out annually in January this year and are reflected in the application to the Ministry of Health of the Republic of Kazakhstan for placement of a state educational order, which indicates information on the personnel potential of the teaching staff, clinical bases and material and technical resources of the NEI "KRMU". For this purpose, the Residency Department carries out an analysis of the availability of the educational programme with teaching staff, including curators and mentors, clinical bases.

The resources of the NEI "KRMU" teaching staff of departments, the number and powerful material and technical equipment of clinical bases, the professionalism of practical health care staff (clinical mentors) allow to provide a balance and opportunities for training and recruitment of residents.

In accordance with the order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 606 "On approval of the average ratio of the number of students to teachers to calculate the total number of faculty of higher and (or) postgraduate education organizations, with the exception of the Academy of Justice, military, special educational institutions, educational organizations in the field of culture", the number of residents in the specialty 7R01117 – "Anesthesiology and resuscitation of adults, children" is 1:3 per teacher.

4.3 Resident support and advice

The Resident Counseling Service is represented by the Admissions Committee, the Residence Department (head, 2 chief specialists, specialist), employees of the Registrar's Office and Library, curators, clinical mentors, and accounting.

To implement a competence-oriented model of medical education in the NEI "KRMU" there is a system of academic consulting of residents at the departments.

The students of the residency have the opportunity to receive legal advice, psychological support from a regular teacher-psychologist.

Academic advisory work at the department consists of advising residents during the training and before the examination session. Prior to the start of each examination session, the course develops and approves the schedule for the consultation on the disciplines. Experienced teachers, associate professors, professors are involved in the consultation.

Residents receive information about student support services from information on stands at departments / courses, in the Residence Department and through the website of the NEI "KRMU" www.medkrmu.kz, where the rector's blog, an internal information forum and information about the National Helpline for Children and Young People are also functioning

The NEI "KRMU" guarantees confidentiality with respect to advice and support provided.

4.4 Representation of residents

The quality of the implementation of the educational programme is ensured by the participation of residents in the discussion of the mission of the NEI "KRMU" and EP, access to which is available by posting on the website of the NEI "KRMU".

Residents, together with the teaching staff of the NEI "KRMU", have a real opportunity to participate in the assessment of the accredited EP during direct discussion and approval of work programmes, at the level of developing an individual work curriculum and elective disciplines (order for the composition of the CEP No. 26-02-15-n/k dated 28.08.2020).

4.5 Working conditions

In accordance with the current contracts with clinical bases, the clinic undertakes to ensure the admission of residents to patients and to all structural units of the Clinic, including the basic departments, the operating unit, the intensive care unit, the intensive care unit in accordance with the needs of the

educational process, except when the admission of residents to the treatment process is not allowed by the current legislation and/or the requirements of patients. "

The principles of organizing the educational process using distance learning technologies (DLT) are set out in the Regulation on the organization of training using distance learning technologies, approved by the decision of the AC dated August 29, 2019 No.1 and on the website of the NEI "KRMU" <https://krmu.edu.kz/#>.

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

Standard 4: Implemented

Recommendations for improvement identified during the external visit: no.

Standard 5: FACULTY

Evidence of compliance:

5.1 Recruitment and Selection Policy

The NEI "KRMU" pays great attention to the selection and recruitment of qualified personnel, as well as their training. The selection and recruitment of employees is carried out in accordance with the Personnel Policy R-01-23-01 of 25.12.2020, taking into account basic and vocational education, as well as practical work experience, individual abilities, professional knowledge and other indicators.

At present NEI "KRMU" has full autonomy in the process of recruitment and selection of employees. Has the right to choose both internal and external sources, or both at the same time, to ensure sufficient recruitment of qualified candidates.

The selection and admission of employees in accordance with the mission of the NEI "KRMU" are reflected in the Personnel Policy, taking into account the criteria for selection of personnel, including scientific, pedagogical and clinical achievements of candidates, attitude to the mission of the NEI "KRMU" and other internal regulations.

Admission of faculty is carried out by means of competitive selection, the procedure of which is regulated by the Regulation on competitive replacement of positions of faculty and researchers, approved by the order of the rector No. 26-02-44-n/k dated November 27, 2020.

Candidates for posts are selected solely on the basis of competitiveness and merit, ensuring that candidates have equal access to the relevant posts, taking into account qualifications, professional indicators and experience.

Competitive selection is carried out on the basis of the current Regulation on the competitive substitution of positions of faculty and researchers, approved by the order of the rector No. 26-02-44-n/k dated November 27, 2020.

The teaching staff is formed on the basis of the needs for the effective implementation of educational programmes, as well as on the basis of the total amount of study load. When drawing up the staffing table for the new academic year, for conducting classes for residents, a mandatory requirement for teachers is the availability of basic education, the correspondence of the code to the specialty of the academic degree, academic title and work experience.

5.2 Teachers' obligations and development

In the NEI "KRMU", regulations on departments, job descriptions of teachers have been developed. The head of the department and the head of the residency department exercise control over the performance of the duties of the teaching staff.

The activities of the faculty are planned in accordance with the individual plan of the teacher, which is discussed and approved at the departmental meetings of the department/course participating in the training of residents for the accredited EP.

The number and composition of teaching staff are planned based on the needs of the educational process, the normative educational load on one full-time teacher and the contingent of students in accordance with the order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No.606 "On approval of the average ratio of the number of students to teachers for calculating the total number of faculty of higher and(or) postgraduate education organizations, with the

exception of military, special educational institutions, educational organizations in the field of culture" and is a ratio of 1:3.

The teaching staff of the course of anesthesiology and resuscitation is 1 doctor of medical sciences, 4 candidate of medical sciences, 1 master of medical sciences and 20 doctors with the highest category. The number of students resident for the 2021-2022 academic year is 72, the number of teaching staff/mentors is 6/20, that is, the ratio of students to teachers corresponds to the order of the Ministry of Health of the Republic of Kazakhstan No.606 of October 31, 2018. At the same time, 77% are full-time employees and 23% are part-time employees, which, when implementing educational, methodological and scientific work, creates a certain burden on full-time employees, but at the same time strengthens the practical training of residents.

The professional development programme implemented in the NEI "KRMU" through retraining and advanced training at the courses is determined by the contingent of students at the rate of 20% of the total number of teaching staff. Thus, each employee of the department/course in the absence from the main activity undergoes a full training under the programme every five years, with a total duration of at least 216 hours / credit points (4 modules), 54 hours per week. For employees who wish to undergo on-the-job training, the training is carried out in the amount of 27 hours per week, or according to a specially established schedule. The participation of teachers in advanced training programmes is reflected in individual reports and plans of teaching staff, monitored by intradepartmental control. Upon completion of advanced training, reports or documents confirming the training (certificates) are provided.

In the course that trains residents in the specialty 7R01117 - "Anaesthesiology and Resuscitation (Adult, Children)", 1 employee completed advanced training in the 2020-2021 academic year, as well as refresher courses for other faculty members are planned for 2023.

Conclusions of the EEC on the criteria. Correspond to 7 standards: fully – 7.

Standard 5: Implemented

Recommendations for improvement identified during the external visit:

1. Observe the optimal ratio between the number of residents and academic teachers (supervisors), as well as between regular staff and part-time employees (5.2.4.).

Standard 6: EDUCATIONAL RESOURCES

Evidence of compliance:

6.1 Logistics and equipment

The NEI "KRMU" has 2 educational buildings with a total area of 12,706.4 m², a sports hall, 1 dormitory for 200 seats. Residency in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" has a significant material and technical base for the educational process. The study rooms are equipped with all the necessary equipment, visual aids, educational material in electronic form, methodological developments in each discipline, and innovative technologies for interactive teaching methods. This makes it possible to ensure that the educational process is conducted in accordance with educational standards.

In order to develop the competencies of residents, a Clinical Training Centre (CTC) was established in December 2011, consisting of 11 specialized offices with a total area of 190 m² with sufficient equipment.

In the annual plan, the departments/courses provide information on recommended applications for improving the material and technical base.

In general, the state of the material and technical base of the NEI "KRMU" and the equipment of its educational and laboratory fund allow to ensure the educational process in accordance with the requirements of the current legislation of the Republic of Kazakhstan, the Ministry of Education and Science of the Republic of Kazakhstan, the State Mandatory Standards of Education and local regulations of the university.

6.2 Clinical Bases

The NEI "KRMU" signed agreements on cooperation with 85 medical organizations located in Almaty, Almaty region and regions of the Republic of Kazakhstan. Of these, 11 contracts with clinical bases on which the training of residents of the accredited EP is carried out. Agreements on cooperation with clinical bases are drawn up taking into account the needs of the NEI "KRMU" in the profile of patients, the level of medical care provided by medical institutions, the availability of study rooms, laboratories. When signing contracts, special attention is paid to the availability of a certificate of accreditation from medical organizations, certifying the compliance of the clinical base with the accreditation standards in the field of health care of the Republic of Kazakhstan. Each year, the Clinical Operations Department updates the cooperation agreements.

Clinical bases have a sufficient bed capacity, the course of anesthesiology and resuscitation is equipped with a sufficient number of classrooms for conducting practical classes of independent work of residents.

The number of training rooms and auxiliary rooms provided at clinical bases is 12,706.4 m². Thus, the NEI "KRMU" has a sufficient number of clinical bases in accordance with the goals and objectives of the accredited EP.

6.3 Information technology

Information and communication technologies, including Internet resources, international databases of scientific and educational literature, electronic textbooks are actively used in the implementation of the educational programme for residency,

In the NEI "KRMU" there is a test center for 122 seats, 3 computer science rooms for 39 seats, a linguistic office for 15 seats, an electronic library hall for 22 seats. The total number of computers is 500.

In the NEI "KRMU" there is also a connection to the Internet at a speed of 100 mb/s, with which students, faculty and employees use Internet services in the hall of the electronic library, computer science office, during classes, students have the right to use the Internet if necessary.

The corporate WI-FI network provides 100% coverage of educational and administrative buildings. Access to the corporate Wi-Fi network is provided to students and employees of the NEI "KRMU" registered in the corporate network of the NEI "KRMU".

In the NEI "KRMU", databases of educational information resources are formed, to which access is available from the internal network of the NEI "KRMU". The distance learning system is based on AIS Moodle.

The fund of the library of the NEI "KRMU" is also universal in that it consists of documents placed on remote technical means.

Residents can receive educational and methodological literature in electronic form, both at the department and in the library. The NEI "KRMU" provided each department with access to the Internet. Computer classes are organized at each clinical base. Residents of the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" and teachers at clinical bases have access to information systems of health care, patient management, practice and work in medical care systems.

In order to ensure the high quality of training, about 300 video lectures were shot in the video studio of the DLT department. Library as part of the National Database Subscription from Elsevier Scopus and Science Direct, Web of Science from Clarivate Analytics. On the basis of the License Agreement, access to the Russian EBS "IPRbooks" was provided, in test mode it was connected to the electronic medical literature database "BookUp". Kazakhstan National Electronic Library - KazNEB is used from the Kazakhstan database.

6.4 Clinical Teams

The programme of training of residents on accredited EP for teamwork skills and effective interaction with other health care specialists includes direct work of residents together with employees of clinical bases in all spheres of their activity, participation in selector republican and city meetings, scientific and practical conferences, work in multidisciplinary teams of volunteer teams. For example, Yerik Altynbayevich Amanbayev - volunteer work in the Volunteers League Public Foundation group,

September 2021 – January 2021; Shaykhina Danara Mukhtarovna - 1.01.05.21-20.05.01 - participation as a doctor in the sanitary clearance work in the vaccination point Forum; Ospanov Kanat Asylbekuly - volunteer work in the "Activists of Almaty" group, August 2021 – November 2021.

The skills of coordination with colleagues and other health care professionals of residents are developed during examination, treatment and emergency care of patients. The resident is present during the consultations, fulfills the orders of senior colleagues within his competence. The result of the resident's activity is checked by the teacher.

Competences for the management of the learning process are formed for residents by involving them in lectures to the population, students, schoolchildren on issues of healthy lifestyles, disease prevention.

Competencies in the formation of teaching skills to other health care professionals are carried out by training nursing staff of clinical bases. In Residency-based training, senior doctors are given the opportunity to serve as mentors to interns and junior doctors

6.5 Medical Research and Advances

The main applied scientific direction of the NEI "KRMU" is the development of innovations for implementation in practical health care.

The scientific interests of the staff of the course of anesthesiology and resuscitation are determined by the profile of the clinical base and the specialty. The research work of the course of anesthesiology and resuscitation is regulated by the research plan

Research and development

Name of the NTP topic	Client and source of funding	Full name of the head	Deadlines	Co-executing organizations, including foreign ones	Number of publications in the Republic of Kazakhstan	Number of publications in the near and far abroad with an impact factor	Number of copyright certificates, pre-patents, patents, diplomas for invention	Number of scientific and technical developments implemented
Pharmacogenetics of personalized anticoagulant therapy with vitamin K antagonists in patients with operated heart	Ministry of Education and Science of the Republic of Kazakhstan, grant	Ergali Mamatovich Mierbekov	2020 – 2022	1. JSC "National Auk Center for Surgery named after A.N. Syzganov" 2. JSC Scientific Center of Obstetrics, Gynecology and Perinatology 3. JSC "Research Institute of Cardiology and Internal Diseases"	2 monographs, 1 textbook, more than 500 domestic publications	300 scientific papers, including international publications with impact factor	13 patents	1 NTP

Resident scientific activity:

Bolatov Abzal Berikuly - February 12-13, 2021. Conference Educational Forum - errors, dangers and complications in anesthesiology and resuscitation;

Sembay Nurzhan Zharasuly. - 3.25.06.2021-26.06.2021 – IV Congress of the NEI "Kazakh Society of Anesthesiologists and Resuscitators" - "International Caspian Anesthesiologists Forum";

Shaikhina Danara Mukhtarovna - 1.29-30 April, 2021. Conference "Topical issues and innovative technologies in anesthesiology and resuscitation";

Isebay Askhat Mumbetuli - St. Petersburg, Russia, on-line and 2.12-13 February, 2021. Conference Educational Forum - errors, dangers and complications in anesthesiology and resuscitation; 1.19-21 March, 2021. Conference "Difficult Airways, Practical Courses" USA, Boston (Online event); April 2-23, 2021. Virtual symposium on thoracic anesthesiology. USA (Online event); 3.11-13 May 2021. Topical issues of critical conditions medicine. St. Petersburg, Russia (Online event);

Enikeeva Magmura Talgatovna - XII International Congress of CARM "Modern approaches to the treatment of infertility. VRT: Present and Future" 11/13/2020 Online;

Kosareva Svetlana Leonidovna - 1. Bulletin of KazNMU 2020. Co-authors: S. Imanbaeva T.M., Shorina E.N., Abildayev S.T., Kosareva S.L. Kazakh National Medical University named after S.D. Asfendiyarov and City Children's Clinical Hospital 2, Almaty Publication: Acute cardiovascular insufficiency in children with congenital heart defects; Pediatrics Ballroom surgeons. 2020. No. 4 (94)., pp. 44-47. Co-authors: Abdullaeva G.M.1, Batyrkhanov S.K.1, Ayazbekov E.A.2, Akhenbekova A.Zh.2, Abildayev S.T.2, Kosareva S.L.2 publication: On the issue of premature children with perinatal pathology of the nervous system in Almaty;

Bulletin of KazNMU 2020. 4 S. Co-authors: Abdullaeva G.M., Umbetova L.Zh., Eszhanova E.D., Sagatbaeva n.a., Eralieva M.A., Zhumanbaeva K.R., Abirova A.C., Turgimbekova N.Zh., Kalzhanov Zh.R., Asanova N.U., Abildaev S.T., Kosareva S.L.; publication: Features of intestinal microbiota in young children and possible ways of its correction.).

6.6 Education expertise

The examination of the quality of the implemented educational programme of the residency is a mandatory stage of the educational process and is carried out by the following structures of the NEI "KRMU": departments (planning, development, implementation, monitoring, evaluation, revision of the EP), Committee of educational programmes (planning, development, monitoring, evaluation, revision of the EP), Department of academic work (coordination, control of compliance with the NAP, monitoring, evaluation of the EP), Residency Department (implementation, monitoring, revision of the EP), Department of strategic development and QMS (coordination, monitoring, evaluation, revision of the EP), Academic Council (approval, evaluation, revision of the EP), Training Council (approval, evaluation, revision of the EP). The composition of collegial advisory bodies (CEP, AC, SC) includes teachers, representatives of professional associations, employers, students. Order for the composition of the CEP No. 26-02-15-n/k dated 28.08.2020)

Internal examination of the quality of educational programmes is carried out regularly by departments and committee of educational programmes, by mutual attendance of classes, holding of open classes, their discussion at meetings of departments, participation of teaching staff in scientific and methodological seminars, conferences.

External expertise is carried out through external QMS audits, institutional and specialized accreditation.

Shaikhina Danara Mukhtarovna, a member of the Society of Residents of the NEI "KRMU" took part in the period May 12-15, 2021 as an expert from the Eurasian Center for Accreditation and Quality Assurance of Education and Health (ECAQA) for the accreditation of the Medical University of Karaganda.

6.7 Training in other institutions

The NEI "KRMU" has agreements and memoranda of cooperation with the following higher educational institutions:

- 1) Universite de Franche-Comte, Besançon, France;
- 2) Agri Ibragim Cecen University, Agri, Turkey;
- 3) First Moscow State Medical University named after I.M. Sechenova, Russia, Moscow;
- 4) Altai State Medical University, Russia, Barnaul;
- 5) Bashkir State Medical University, Russia, Udmurt Republic, Ufa;

- 6) Belarusian State Medical University, Republic of Belarus, Minsk;
- 7) Vitebsk State Medical University, Republic of Belarus, Vitebsk;
- 8) Izhevsk State Medical Academy, Russia, Izhevsk,
- 9) Omsk State Medical Academy, Russia, Omsk;
- 10) Pyatigorsk Medical-Pharmaceutical Institute, Russia, Pyatigorsk;
- 11) Siberian State Medical University, Russia, Tomsk.

During the current period, opportunities for academic mobility were limited due to the involvement of resident doctors in the work of pharmacovigilance and infectious diseases hospitals.

Memoranda with foreign and regional healthcare organizations are annually initiated and updated for the exchange of teaching staff and residents.

Conclusions of the EEC on the criteria. Corresponds to 21 of the standards: 21 in full.

Standard 6: Implemented

There are no *recommendations for improvement identified during the external visit.*

STANDARD 7: PROGRAMME EVALUATION

Evidence of compliance:

7.1 Monitoring and evaluation mechanisms

The monitoring mechanism consists in assessing the management of EP (the level of teaching staff, the organization of the educational process, the regular assessment of the level of achievement of the goals of the programme, the demand for graduates); the implementation of EP (curriculum, standard programmes of disciplines, methodological and information support, infrastructure, educational technologies, research); the results of EP (interim certification, final certification).

Monitoring and evaluation of EP is carried out at all levels, a multilevel approach is used, including the profiling/graduating and related departments, the residency department, the specialized CEP of postgraduate education, the AWD, the Academic Council, the Academic Council, the Career Center (general monitoring of the quality of educational programmes through a survey of stakeholders (employers, professional associations and students).

Mechanisms for assessing the residency programme in the NEI "KRMU" include the following types of work:

- 1) - the availability of educational process resources (clinical bases, educational literature, classroom fund, equipment, teaching staff: teachers, clinical mentors, supervisors);
- 2) - compliance of curricula with the requirements of state standards of education;
- 3) - feedback from stakeholders on the quality of the EP content;
- 4) Monitoring the performance of residents.

In the NEI "KRMU", on the basis of joint responsibility for the educational process, the following powers are provided:

- the Residency Department is responsible for the formation of the WEPL. The Department developed an Action Plan for improving the Residency Department based on the results of a survey of students in the 2020-2021 academic year, approved by Protocol No.2 dated September 21, 2021.;

- the Department of Academic Work is entrusted with: control of the compliance of the PMD with the requirements of the SCES, the formation of the CEP, the assignment of disciplines to the departments, the quality check of the DQMS and monitoring of the educational and methodological documentation of the departments / courses that train residents;

- the Department of Professional Practice and Clinical Work is responsible for: monitoring and selection of clinical bases, conclusion of contracts and coordination of work with clinical bases, organization of medical care for residents;

- the specialized department is responsible for the formation of resident competencies in the taught disciplines, the quality of teaching and updating the content of the EMCD, CMI in accordance with the development of science and medicine;

- The CEP organizes measures to improve the EP: forms working groups on the examination and evaluation of work training programmes, training and evaluation methods, the examination of the CEP, planning measures to improve the content and process of implementing the EP;

- The Academic Council reviews and discusses the quality of educational programmes and approves the EP.

Monitoring of the planned activities within the framework of the implementation and evaluation of the EP is carried out at the course meeting, the CEP, the Academic Council – the implementation of plans is checked; the results of the processes correspond to the planned indicators (effectiveness); a discussion of effectiveness is held; an appropriate assessment is given; if necessary, corrective actions are developed to eliminate shortcomings and omissions in the work.

Annually, at the meetings of the departments, the CEP, the Academic and Academic Councils, the results of the Final State Certification of Residents, interim certification, reports and assessment of resident diaries are heard, on the basis of which conclusions are drawn on the expected achievability of resident learning outcomes. If necessary, adjustments are made to the syllabuses, the list of literature is supplemented, an order is made for the purchase of literature through a specialized CEP, contracts with new clinical bases are drawn up.

One of the important conditions for continuous monitoring and improving the quality of the educational process is its correction on the basis of feedback with the participation of stakeholders. The NEI "KRMU" systematically collects and analyzes feedback through questionnaires of teachers and residents, which are carried out twice a year during the winter and summer sessions. The questionnaire includes questions on the quality of the educational process, compliance with schedules and timetables, corruption, etc.). The obtained data are discussed at meetings of the rector with heads of departments / courses and heads of structural units, with students.

7.2 Feedback from teachers and residents

For feedback with teachers and residents, the rector's blog is used, on which students and employees of the NEI "KRMU» receive answers to their questions on the terms of implementation of the educational programme <https://krmu.edu.kz/blog-rektora/>. Representatives of residents are members of the CEP, the Academic Council, where they participate in the discussion of the implementation of the educational programme.

In general, the use of feedback contributes to a better understanding of the current needs of residents and teachers and is systematic when making changes to the educational programme, which was confirmed by the results of the questionnaire of residents.

As part of the modernization of medical education, in order to improve the quality of personnel training, in recent years in the NEI "KRMU":

- world experience in the development of educational programmes and standards of specialties has been studied in order to develop recommendations for adjusting the content of educational programmes in accordance with international requirements;

- the list of disciplines - mandatory and optional – "electives" is defined;

- the content of disciplines for each specialty has been revised in terms of the competence approach (practical orientation of training, development of students' independent work skills, their self-knowledge and self-esteem);

- a technology for credit and hourly evaluation of educational programmes and the results of their mastering has been developed;

- Improvement of the system of final control and assessment of the knowledge of residents.

The programme evaluation process involves all stakeholders (faculty, residents, employers) through representation in the relevant structures. The work of all structures that ensure the implementation and evaluation of the educational programme is regulated by the Charter of the NEI "KRMU", the Strategic Plan, annual plans and reports of the NEI "KRMU", as well as the relevant QMS procedures. The results of the assessment are heard at meetings of collegial bodies, published on the website of the NEI "KRMU".

7.3 Results of Residents and Graduates

The Residency Department carries out work on collecting feedback from residents to determine the level of satisfaction with the content of the EP, the organization of the educational process in the form of questionnaires, monitoring appeals to the rector's blog, discussing topical issues on the social network. Monitoring the achievement of learning outcomes by residents plays an important role in the assessment of EP.

The relevant departments collect feedback from residents, representatives of practical health care, teachers of other educational organizations in the form of reviews.

A sociological study "Satisfaction of employers with the graduates of the NEI" KRMU "was carried out by the direction of the PSC and the Career Center in 2021. 30 employers (60% response rate) from 6 oblasts and the city of Almaty were interviewed. The results of the survey of employers on the quality of training of graduates of the NEI "KRMU" for 2021 showed that no employer rated the quality of training as low.

In the process of clinical practice, the resident, applying theoretical knowledge, develops practical skills, clinical thinking. Work in a team, direct access to the patient, various situations, contributes to the formation of responsibility, practical experience. 100% of residents are employed in medical organizations at the place of internship.

The results of the survey of employers, the results of residents' FA, employment are discussed at the relevant departments, the CEP (are included in the work plans of the CEP).

According to the results of the inverse, the analysis of nonconformities is carried out, the causes of the nonconformities are determined, the need for corrective measures, corrections are assessed and, if necessary, a plan of corrective actions is drawn up, and then registration and analysis of the effectiveness and efficiency of the actions taken are carried out. The results of feedback and corrective actions are heard at meetings of the department, the CEP, the Academic Council.

7.4 Stakeholder Engagement

The participation of a wide range of stakeholders in the evaluation and improvement of educational programmes in the NEI "KRMU" is provided by the authorized bodies in the field of education and health care (MoH RoK), representatives of the public, professional organizations, as well as persons and structures responsible for postgraduate education:

1. The Ministry of Health of the Republic of Kazakhstan – an independent assessment of the knowledge of residents.

2. Departments of regional health departments – on bilateral initiative, agreements on cooperation with the NEI "KRMU", contracts with 85 clinical bases and medical institutions of Almaty and the regions were concluded.

3. Employers (medical institutions of regional health departments of the Republic) - creation of an effective system of employment promotion and adaptation of graduates to the labor market, correspondence on the quality of training of residency graduates is conducted annually, doctors' feedback on the results of resident field practice is collected.

4. Representatives of the Committee for the Control of Medical and Pharmaceutical Services and Representatives of Practical Healthcare – NEI "KRMU" widely use the principle of independent objective assessment, involving as chairmen, members and examiners of the certification commission for the final certification of graduates, participate in their distribution. Their opinions and comments are taken into account when planning improvements.

5. Representatives of public associations of doctors (Association of Nephrologists, Anesthesiologists, Obstetrician-Gynecologists, etc.) – organize scientific and practical conferences on topical issues of medical education and specialty.

Representatives of the public – constant feedback in the form of questionnaires and interviews, participation in various NEI events "KRMU". The programme evaluation process involves all stakeholders (faculty, residents, employers) through representation in the relevant structures. The work

of all structures that ensure the implementation and evaluation of the educational programme is regulated by the Charter, strategic plan, annual plans and reports of the NEI "KRMU", as well as the relevant QMS procedures. The results of the assessment are heard at meetings of collegial bodies.

Analysis of questionnaires is carried out by the direction of monitoring of the CMS, the results of the questionnaire are discussed at meetings of deans / heads of departments of residency and magistracy with faculty and structural units, students. Information on the employment of graduates of the educational programme is presented in Attachment 12.

7.5 Procedure for Approval of Educational Programmes

The NEI "KRMU" has developed mechanisms for the approval of educational programmes, which provide for the evaluation of programmes at the stages of planning, implementation, analysis of results and implementation of changes, which allows monitoring the process of implementation of educational programmes and the progress of residents, and ensures the identification and timely solution of emerging problems.

Examination of the EP is carried out by the CEP, for compliance with the IWS, approves the CEP according to the trajectories of training of a specialist, taking into account pre- and post-requisites, evaluates the choice of methods for assessing the results of training of residents. The CEP carries out a systematic study and comprehensive assessment of EP in order to improve and guarantee quality (determining the value of the programme, achieving the goal, achieving tasks, the degree of compliance with the needs of society, the requirements of employers, the effectiveness of the training methodology), as well as an assessment of the educational and methodological support and support of the educational process. For this purpose, an external evaluation of the EP is carried out by a competent representative of practical health care

The NEI "KRMU", according to the order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. KR DSM-304/2020 "On approval of the provisions on the clinical base, the clinic of the organization of education in the field of health, the university hospital, the base of residency, the integrated academic medical center and the requirements for them", uses the medical and preventive institutions of the city as a clinical base on the basis of contracts. According to these agreements, clinical bases are jointly responsible for the quality of training of future specialists, providing departments with high-quality educational facilities, providing access to patients and modern diagnostic equipment.

Residents of specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" take place on the basis of 11 clinics. One of the points of quality control of clinical bases is the availability of a certificate of accreditation from RCHD in a medical organization.

Conclusions of the EEC on the criteria. Correspond to 15 standards: fully – 15.

Standard 7: Implemented

There *are no recommendations for improvement identified during the external visit*

Standard 8: GOVERNANCE AND ADMINISTRATION

Evidence of compliance:

8.1 Control

Coordination of the implementation, control and monitoring of the implementation of residency programmes in all licensed specialties is carried out by the residency department under the supervision of the vice-rector for clinical activities.

To ensure the quality of postgraduate training in the NEI "KRMU", a number of important concepts were adopted: a general strategy, main directions, priorities and objectives of the NEI "KRMU" policy in the field of improving the quality of education in accordance with the mission, vision and strategic plan for the development of the NEI "KRMU" <https://krmu.edu.kz/dokumenty-universiteta-2/>.

The transparency of the management of the educational programme is carried out by discussing the educational and methodological documentation on the programme of the residency of specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" at the meeting of the CEP, AC, and

after receiving their positive conclusion is approved by the Vice-Rector for Scientific and Clinical Work (Academic Policy dated August 27, 2021). Transparency of EP management in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" is ensured by the operation of a number of mechanisms:

- 1) functioning of the Integrated Quality Management System (IQMS);
- 2) availability of internal regulatory legal acts (Academic Policy dated 27.08.2021) regulating the process of implementation of EP specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)";
- 3) functioning of the system for collecting feedback from stakeholders, including the system for collecting anonymous feedback (Rector's blog - <https://krmu.edu.kz/blog-rektora/>);
- 4) functioning of collegial advisory management bodies, including employees of the NEI "KRMU", residents, representatives of practical health care (CEP, Academic Council and Academic Council);
- 5) publication of information about the educational programme in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)" on the website of the NEI "KRMU" <https://krmu.edu.kz/rezidentura/>.

To ensure open discussion of problems and ideas for training residents, the Rector's blog is available on the official website (<http://medkrmu.kz>) of the NEI "KRMU". There is also a residency section. The website is available via Facebook, YouTube, VK, Instagram.

The general policy and methods used for the assessment of residents of the NEI "KRMU" are reflected in the Academic Policy, as well as in the EMCD, in the syllabuses of each discipline issued to students.

Thus, the NEI "KRMU" implements the EP on residency in accordance with the regulations approved by the Ministry of Health of the Republic of Kazakhstan and the Government of the Republic of Kazakhstan, as well as the internal rules for the organization of the educational process in the residency.

8.2 Academic Leadership

In accordance with the standard documents, the NEI "KRMU" has developed and approved regulations for each unit, defining the structure, management and accountability, goals, tasks and functions of structural units, as well as job descriptions for each post provided for in the staffing table.

Management of the educational process, including at the postgraduate level, is carried out in accordance with the organizational structure of the NEI "KRMU". The executive body of the NEI "KRMU" is its rector. The Rector bears personal responsibility for financial and economic activities, the safety of property, for the organization of anti-corruption, establishes the competence of vice-rectors and other senior employees, decides all issues of the activities of the NEI "KRMU" in accordance with his competence, determined by the legislation of the Republic of Kazakhstan.

The academic policy, <https://krmu.edu.kz/akademicheskaya-chestnost/>, which regulates the rights, obligations and responsibilities of students and the administration of the university, the procedure for organizing the educational process, is annually reviewed and approved in the NEI "KRMU". These rules stipulate the officials responsible for the proper implementation of the Rules and the scope of their responsibility.

Direct management of resident programmes and coordination of resident activities since the existence of the resident programme is carried out by the Resident Department. The main purpose of the department is to carry out continuous organizational, coordination and administrative work aimed at achieving the mission and purpose of educational programmes, including residency in the accredited specialty. The department reports directly to the vice-rector for scientific and clinical activities, the rector.

The activities of the Residency Department are managed by the head appointed to the position by the order of the rector. The Division is responsible for the following decisions: development and approval of the mission programmes, rules for the organization of the learning process in the resident

office, recommendations for the recruitment of residents, training of residents. The department monitors residents, maintains relations with the practical healthcare sector and residency graduates, interacts with other structural units of the NEI "KRMU" involved in the implementation and support of residency programmes (AWD, DP&CEP, DLT).

The organization of the educational process in the NEI "KRMU" is regulated by the work curriculum in the specialty 7R01117 – "Anaesthesiology and Resuscitation (Adult, Children)", the schedule of training sessions and IEP of the resident. Evaluation of the organization of training in the course is carried out through systematic control by the department.

For the purpose of effective management of the educational process, the successful implementation of the Model of medical education in the NEI "KRMU" there is a Committee of educational programmes (CEP).

The goal of the CEP is to improve educational programmes in disciplines, improve the educational process. The main tasks of the CEP are: systematic implementation of the principles of a model of medical education based on competence-oriented learning; control of educational and methodological support and support of the educational process; scientific and methodological support for the implementation of educational programmes; control of the introduction of innovative educational technologies and promising forms of organization of the educational process; assessment of the quality of educational programmes in the areas of specialization and the development of recommendations for improving quality, control of CMI.

The activities of academic management in relation to the implementation of the mission and the solution of tasks are studied and evaluated on the basis of the analysis and formation of reports and plans, analysis of the implementation of the goals and objectives of the strategic plan (quarterly and at the end of the academic year), internal audit reports (according to the plan), the results of the work of internal and external commissions (annually at the end of May).

Operational control over current activities is ensured by the expanded Rectorate, which is held weekly.

The results of the achievement of residents of the accredited EP are also an indicator of the effective activities of academic management (current, final control, independent assessment of knowledge and skills).

Residents can be involved in the assessment process of academic management by expressing their opinions and wishes at the end of the course of study or mastering a specific discipline or by questionnaire to identify opinions and take into account comments, proposals of direct consumers. Comments and suggestions of residents on the organization of the educational process (class schedule, etc.), the curriculum for elective disciplines, the list of elective disciplines, the library fund and other issues directly related to the learning process can be taken into account.

8.3 Training budget and resource allocation

Management of financial and economic policy and activities of the NEI "KRMU" is the responsibility of the first head of the university – the rector. Financial issues are under the responsibility of the Director of the Department of Financial Work and the Chief Accountant of the NEI "KRMU", whose duties and powers are established by the job description and the Regulations on the Department of Financial Work.

The budget of NEI KRMU is formed from two sources: the republican budget (state order for training of personnel of higher and postgraduate education, advanced training of medical workers, development of scientific research, transfers) and provision of paid educational services.

The NEI "KRMU" has defined a general strategy, main directions, priorities and policy objectives in the field of improving the quality of education <https://krmu.edu.kz/dokumenty-universiteta-2/>.

8.4 Administration and Management

Administrative and managerial, service and educational support staff is calculated on the basis of the Order of the Ministry of Health of the Republic of Kazakhstan "Rules for calculating the cost of

training of one student, postgraduate student, clinical resident (graduate student) in higher medical educational institutions within the country on a state educational order" dated June 14, 2004 No.221.

The calculation of the pedagogical load of the teaching staff is carried out in accordance with the Standard Rules for the Activities of Higher Education Organizations (Resolution of the Government of the Republic of Kazakhstan No.499 dated May 20, 2013) and the state standard of education (Order of the Ministry of Health of the Republic of Kazakhstan No.387 dated July 29, 2009 and Order No.647 dated July 31, 2015) and is approved at the meeting of the Academic Council.

In the NEI "KRMU" the documentation on the management of a conceptual nature has been developed:

1. Strategic development plan of the NEI "KRMU" for 2019-2023. <https://krmu.edu.kz/wp-content/uploads/2021/02/okon.03.12.2019-stratplan-data-opravki-15.02.2020.pdf>
2. Mission of the NEI "KRMU" <https://krmu.edu.kz/missiya-universiteta/>;
3. Quality policy and objectives of the NEI "KRMU" <https://krmu.edu.kz/wp-content/uploads/2021/12/politika-v-oblasti-kachestva.pdf>.

Each stage and level in the quality assurance system is regulated by the relevant regulatory and regulatory documents.

The structural unit responsible for ensuring the quality of management is the Department of Strategic Development and QMS, which organizes a regular audit of the work of departments and structural units.

Internal regulatory documents are open and available on the official website <https://medkrmu.kz/>

8.5 Requirements and regulations

The mechanism of interaction of the NEI "KRMU" with the authorized bodies (Ministry of Health of the Republic of Kazakhstan, Ministry of Education and Science of the Republic of Kazakhstan) and the health sector is regulated by: the legislation of the Republic of Kazakhstan; the implementation of state programmes, decrees and orders; contracts and agreements with health care management bodies; contracts and agreements with health care organizations; written appeals of authorized state bodies and medical organizations.

The choice of the specialty of residency is regulated by the Order of the Minister of Health of the Republic of Kazakhstan No. KR DSM-116 dated August 28, 2019 "On the placement of a state educational order for training in medical and pharmaceutical specialties with a postgraduate education for the 2019-2020 academic year"

The interaction of the NEI "KRMU" with the Ministry of Education and Science of the Republic of Kazakhstan and the Ministry of Health of the Republic of Kazakhstan on the organization of the educational process in the residency is carried out through the development and implementation of the SES 2020 and is consistent with the priority areas of the following national legislative and programme documents:

- Law of the Republic of Kazakhstan "On Education" dated June 27, 2007 No.319-III (with amendments and additions as of 07.07.2020).

- State Programme for the Development of Education and Science of the Republic of Kazakhstan for 2016-2019. Decree of the President of the Republic of Kazakhstan dated March 1, 2016 No.205.

- On approval of the State Programme for the Development of Education and Science of the Republic of Kazakhstan for 2020-2025. Resolution of the Government of the Republic of Kazakhstan dated December 27, 2019 No.988.

- On approval of the State Programme of Healthcare Development of the Republic of Kazakhstan for 2020-2025. Resolution of the Government of the Republic of Kazakhstan dated December 26, 2019 No.982.

- State Programme of Healthcare Development of the Republic of Kazakhstan "Densauilyk" for 2016-2020. Decree of the President of the Republic of Kazakhstan dated January 15, 2016 No.176.

Involvement of practical health care in the formation of educational programmes of the residency and their high-quality implementation is reflected in the fulfillment of the terms of contracts with the

Health Departments of Almaty and the regions of the Republic of Kazakhstan, contracts with clinics and polyclinics (clause 5 of Art. 40 of the Law of the Republic of Kazakhstan "On Education"), with the Research Institute, Scientific Center. These clinical bases and employees involved in training contribute to the improvement of professional training in clinical areas. Therefore, training in the residency in specialties is conducted in a dual format, which is one of the key factors in the work of the NEI "KRMU". The main advantages of dual training include: 1) ensuring a high percentage of employment of graduates, since they fully meet the requirements of the employer; 2) training is as close as possible to the requests of the employer.

Conclusions of the EEC on the criteria. Correspond to 15 standards: fully – 15.

Standard 8: completed.

Recommendations for improvement identified during the external visit None

Standard 9: CONTINUOUS RENEWAL

Evidence of compliance:

The Continuous Improvement Policy aims to:

1. educational programmes (update of the EP in the register of educational programmes – the date of updating the passport of the EP at 15.07.2020 00:44 – http://esuvo.platonus.kz/#/register/education_programme/application/28141)
2. development of the research potential of the university and integration of science with the clinic – joint scientific research with practical health care – the act of implementation of the results of research work No.1311 in 2021;
3. employment – 100% of EP graduates are employed;
4. international cooperation – cooperation with 11 foreign medical education organizations;
5. digitalization of the university's activities – the introduction of Platonus AIS, programmes for the implementation of the DLT MOODLE (<https://moodle.medkrmu.kz/>), proctoring and video surveillance systems, video lectures, an electronic library (<https://vcabinet.kz/mudl-medkrmu-kz.html>), a student's personal account, open online courses, information resources for students;
6. integrated management system – implementation of international ISO standards;
7. human capital and social responsibility – residents participate in charitable events – open days, volunteer movement <https://krmu.edu.kz/blagotvoritelnye-proekty/>, formation of image, sanitary and educational events, work on quarantine sites, in provisions and infectious hospitals during the coronavirus epidemic; launch of mobile complexes;
8. marketing, the image of the university – opening of the marketing department, a statement about yourself in social networks;
9. material and technical base – NEI "KRMU" from the budget allocates the necessary funds for major and current repairs, technical equipment of educational, scientific and information activities, purchase of furniture and educational equipment, maintenance of engineering communications and networks of buildings and structures and registration of buildings and structures.

For the period 2018-2020, employees of the NEI "KRMU" were awarded state and departmental awards of the Ministry of Health.

1. 2018 Honorary title "Kazakhstan Enbek Sinirgen Kairatkeri" (Honored Worker of Kazakhstan) –
2019 on the Independence Day of the Republic of Kazakhstan: with the "Enbek Ardageri" medal – 1;
"Densaulyk Saktau Isine Koskan Ulesi Ushin" – 1;
The breastplate "Densaulyk Saktau Isine Koskan Ulesi Ushin" – 1;
The breastplate "Densaulyk Saktau Isinin Uzdigi" – 1;
Certificate of Honour of the Ministry of Health of the Republic of Kazakhstan – 2;
Gratitude of the Ministry of Health of the Republic of Kazakhstan – 2.

2020 for HCP Day:

Medal "Enbek ardageri" – 1;

The breastplate "Densaulyk Saktau Isine Koskan Ulesi Ushin";

"Densaulyk Saktau Isinin Uzdigi" of the Ministry of Health of the Republic of Kazakhstan – 1

Certificate of Honour of the Ministry of Health of the Republic of Kazakhstan – 2;

Gratitude of the Ministry of Health of the Republic of Kazakhstan – 2.

2020 for the Independence Day of the Republic of Kazakhstan:

Medal "Enbek ardageri" – 1;

The breastplate "Densaulyk Saktau Isine Koskan Ulesi Ushin" – 1;

The breastplate "Densaulyk Saktau Isinin Uzdigi" – 2;

Certificate of Honour of the Ministry of Health of the Republic of Kazakhstan – 2;

Gratitude of the Ministry of Health of the Republic of Kazakhstan – 2.

Conclusions of the EEC on the criteria. Compliant with 4 standards: fully - 4.

Standard 9: completed

There are no recommendations for improvement identified during the external visit

6. Recommendations for the improvement of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)":

1. Observe the optimal ratio between the number of residents and academic teachers (supervisors), as well as between regular staff and part-time employees (5.2.4.).

7. Recommendation to the ECAQA Accreditation Council

Members of the EEC established the compliance of the educational programme "7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" with the Accreditation Standards and came to a unanimous opinion to recommend to the ECAQA Accreditation Council to accredit this programme for 5 years.

Chairperson	Turgunov Yermek Meiramovich	
Foreign Expert	Ruslan Abdullaevich Nasyrov	
Foreign Expert	Tatyana Vasilyevna Pozdeeva	
Kazakh Academic Expert	Zhumalina Akmaral Kanashevna	
Kazakh Academic Expert	Ermukhanova Lyudmila Sergeevna	
Kazakh Academic Expert	Akhmetova Almira Kalikapasovna	
Kazakh Academic Expert	Kudabaeva Khatima Ilyasovna	
Kazakh Academic Expert	Sadieva Zhanar Zamankhanovna	
Kazakh Academic Expert	Zhunusova Aigul Bitimbayevna	
Kazakh Academic Expert	Tuleutaeva Raykhan Esenzhanovna	
Kazakh Academic Expert	Tezekbaev Kanat Mardenovich	
Kazakh Academic Expert	Rakhmanov Eltai Utemuratovich	
Employers' representative	Zhazira Dzhumabekovna Moldabaeva	
Resident Representative	Ermekbai Abay Amanzholuly	
	Observer for ECAQA M.A. Umarova	

**Quality profile and criteria for external evaluation of the educational programme
(generalization)**

Standard	Evaluation Criteria	Number of standards	Estimation			
			Fully compliant	Significantly matches	Partially compliant	Not compliant
1	MISSION AND END OUTCOMES	17	17			
2	EDUCATIONAL PROGRAMME	30	30			
3	ASSESSMENT OF STUDENTS	11	11			
4	STUDENTS	30	30			
5	FACULTY	7	7			
6	EDUCATIONAL RESOURCES	21	21			
7	PROGRAMME EVALUATION	15	15			
8	GOVERNANCE AND ADMINISTRATION	15	15			
9	CONTINUOUS RENEWAL	4	4			
	Subtotal:	150	150			
			150			

**List of documents studied by EEC members within the framework of
of the external expert commission on the results of the evaluation of the educational programme
"7R01117 – Anaesthesiology and Resuscitation (Adult, Children)" of NEI "KRMU"
for compliance with the accreditation standards of postgraduate education programmes
(specialty of residency) of medical organizations of education**

№	Names of documents	Quantity	Date of approval
1.	Academic Policy approved at the meeting of the Academic Council, Minutes No.1	1	27.08.2021
2.	Act of implementation of the results of research work No.1311	1	Year 2021
3.	Clinical work logs	3	2019-2021
4.	Personnel policy R-01-23-01	1	25.12.2020
5.	Round table with employers on the role of employers in the formation of educational programmes	1	23.04.2021
6.	Code of Ethics	1	12.12.9017
7.	Cathedral Reports	3	2019-2021
8.	Complexes of measuring instruments	3	02.07.2021
9.	Reports of the Head of Human Resources Department on the implementation of development plans	5	For the period from 2016 to 2021
10.	Residency Alumni Survey Report	2	2020 and 2021
11.	Quality Policy	1	27.08.2021
12.	Regulation on the Department of Financial Work	1	19.05.2019
13.	Regulations on the Committee for Educational Programmes PL-03-17-06	1	29.08.2019
14.	Rules for admission to the residency PR-03-11-05	1	24.07.2020
15.	Clinical Performance Reports	3	2019-2021
16.	Educational programme	1	15.07.2020
17.	Estimated funds (checklists, statements)	5	2020-2021
18.	Regulations on competitive filling of positions of faculty and researchers	1	
19.	Regulations on the Teacher's School ” approved by the Rector's Order No.347/1	1	12.12.2017
20.	Professional development plan of the university employees	3	For 2019, 2020, 2021
21.	Residency Plan	3	27.08.2021 27.08.2020 27.08.2019
22.	Department Plans	3	2019-2021
23.	Position of the Department of Surgery with the course of anesthesiology and resuscitation	1	28.08.2018

24.	Clinical work plan of the department	3	2019-2021
25.	Order of the Rector on financial assistance 23-20-499 zh/k	1	27.04.2020
26.	Rector's Order No. 26-02-12 unnumbered Intra-University Competition "The Best Teacher of KRMU"	1	17.03.2021
27.	Order No.1-2 "On the organization of the educational process in the residency"	1	01.09.2021
28.	Order No.1-2 "On the assignment of clinical mentors"	1	01.09.2021
29.	Work Curriculum	1	25.06.2021
30.	Strategic development plan of the NEI "KRMU" for 2019-2023.	1	26.12.2019
31.	Agreements and Memoranda of Cooperation with Foreign Higher Medical Institutions	11	2018-2021
32.	Certificate of participation of EP residents at the monthly meetings of the NEI "Federation of Anesthesiologists and Resuscitators" in Almaty	1	
33.	Residency Student Handbook for the 2021-2022 academic year	1	https://krmu.edu.kz/rezidentura/
34.	Certificates, Certificates and Certificates on PK PPS	4	2017-2021
35.	Syllabuses	4	02.07.2021
36.	Tactical plan of NEI Kazakh-Russian Medical University for 2022	1	24.12.2019