

Accreditation Council of  
the Eurasian Centre for Accreditation and  
Quality Assurance in  
Education and Health Care  
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**REPORT  
OF THE EXTERNAL EXPERT COMMISSION  
ON THE RESULTS OF THE EVALUATION OF  
THE EDUCATIONAL PROGRAMME  
7R01116 "GENERAL SURGERY"  
OF NJSC "MEDICAL UNIVERSITY OF KARAGANDA" FOR  
COMPLIANCE WITH THE STANDARDS FOR ACCREDITATION OF  
POSTGRADUATE EDUCATION PROGRAMMES (RESIDENTIAL  
SPECIALTIES) OF MEDICAL EDUCATIONAL ORGANIZATIONS**

Period of external expert evaluation: 15-17.05. 2024

**Almaty, 2024**

## CONTENT

	List of designations and abbreviations	3
1.	Composition of the external expert commission	4
2.	General part of the final report	7
2.1	Presentation of the educational programme in the specialty - 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda"	7
2.2	Information on previous accreditation	8
2.3	Brief characteristics of the results of the analysis of the report on self-assessment of the educational programme 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda" and conclusions on completion	8
3.	Description of the external expert evaluation and conclusion	9
4.	Analysis for compliance with standard for accreditations based on the results of the external evaluation of the educational programme 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda"	9-12
5.	Recommendations for improving the educational programme 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda"	12-37
6.	Recommendation to the Accreditation Council for accreditation educational programme 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda"	37-39
7	Annex 1. Quality profile and criteria for external evaluation and educational programme of residency in the specialty of educational programme 77R01116 "GENERAL SURGERY"	39-41
8	Annex 2. List of documents studied as part of the external expert evaluation	41-42

## LIST OF DESIGNATIONS AND ABBREVIATIONS

1	<b>Abbreviation</b>	<b>Designation</b>
2	<b>AC</b>	Academic Council
3	<b>AP</b>	Academic Policy
	<b>SCES</b>	State Compulsory Education Standard
	<b>DAA</b>	Department of Academic Affairs
	<b>DET</b>	Distance Educational Technologies
	<b>DI and ID</b>	Department of Informatization and Infrastructure Development
	<b>DHRM</b>	Department of Human Resources Management
	<b>USHEM</b>	Unified System of Higher Education Management
	<b>ECAQA</b>	Eurasian Centre for Accreditation and Quality Assurance in Education and Health Care
	<b>FCC</b>	Final Certification Commission
	<b>End-of-course assessment</b>	End-of-course assessment
	<b>IL</b>	Instruction Letter
	<b>IEP</b>	Individual Educational Plan
	<b>EC</b>	Elective Component
	<b>CED</b>	Catalog of Elective Disciplines
	<b>MOH</b>	Ministry of Health
	<b>NJSC “MUK”</b>	Non-Commercial Joint-Stock Company "Karaganda Medical University"
	<b>MUK</b>	Karaganda Medical University
	<b>NCIE</b>	National Center for Independent Examination
	<b>EP</b>	Educational programme
	<b>APS</b>	Assessment of Practical Skills
	<b>ICU</b>	Intensive care unit
	<b>AAR</b>	Assessment of Admission Rating
	<b>OSCE</b>	Objective Structured Clinical Examination
	<b>MD</b>	Major Disciplines
	<b>PHC</b>	Primary Health Care
	<b>Academic staff</b>	Academic Staff
	<b>RK</b>	Republic Kazakhstan
	<b>WP</b>	Working programs
	<b>WC</b>	Working curriculum
	<b>SSS</b>	Student support service
	<b>IWR</b>	Independent work of residents
	<b>IWRT</b>	Independent work of residents with teachers
	<b>PMS</b>	Employee performance management system
	<b>TB</b>	Terobyte
	<b>TVET</b>	Technical and vocational education
	<b>TC</b>	Typical curriculum
	<b>EMCD</b>	Educational and methodological complex of the discipline
	<b>CSET</b>	Center for simulation and educational technologies
	<b>SR and PD</b>	School of residency and professional development
	<b>AMEE</b>	Associations of medical education in Europe
	<b>CBL</b>	Case-based learning
	<b>ECTS</b>	European Credit Transfer System
	<b>GPA</b>	Grade point average
	<b>PBL</b>	Problem-based learning
	<b>RBL</b>	Research-based learning
	<b>TBL</b>	Team-based learning

### 1. Composition of the External Expert Commission

In accordance with the order of the ECAQA No. 15 dated 02.05.2024, the External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation of the educational programme of residency in the specialty 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda" in the period from 15 to 17.05.2024 in the following composition:

<b>№</b>	<b>Status in the EEC</b>	<b>Full name</b>	<b>Academic degree/title, position, place of work/place of study, year, specialty</b>
1	Chairman	Zhanalina Bakhyt Sekerbekovna	Doctor of Medical Sciences/Associate Professor, Professor of the Department of Surgical and Paediatric Dentistry of the West Kazakhstan Medical University named after Marat Ospanov.
2	International expert	Nasyrov Ruslan Abdullaevich	Doctor of Medical Sciences, Professor, Vice-Rector for Research, Head of the Department of Pathological Anatomy with a Course in Forensic Medicine of the St. Petersburg State Paediatric Medical University of the Ministry of Health of the Russian Federation, Member of the New York Academy of Sciences.
3.	International expert	Troinich Yana Nikolaevna	Vice-Rector for Educational and Training Work of the Armenian-Russian International University "Mkhitar Gosh", Translator of Medical Literature - Logosfera Publishing House.
4.	Academic expert	Zhumalina Akmaral Kanashevna	Doctor of Medical Sciences, Professor, Head of the Department of Paediatric Diseases with Neonatology of the West Kazakhstan Medical University Marat Ospanov.
5.	Academic expert	Madyarov Valentin Manarbekovich	Doctor of Medical Sciences, Head of the Department of Surgery with a Course in Anaesthesiology and Resuscitation of the Kazakh-Russian Medical University.
6.	Academic expert	Nugmanova Aigul Maratovna	Doctor of Medical Sciences, Head of the Department of Paediatrics with the Course of CID NJSC "Kazakh-Russian Medical University".
7.	Academic expert	Apbasova Saulesh Akhatovna	Candidate of Medical Sciences, Assistant of the Department of Pathological Anatomy and Forensic Medicine named after Professor Yu.V. Pruglo NJSC "Semey Medical University".

8.	Academic expert	Yesetova Gulstan Utegenovna	Candidate of Medical Sciences, Head of the Department of Pulmonology NJSC "Kazakh National Medical University named after S.D. Asfendiyarov".
9.	Academic expert	Sadykova Ainur Maralovna	Candidate of Medical Sciences, Associate Professor of the Department of Infectious and Tropical Diseases NJSC "Kazakh National Medical University named after S.D. Asfendiyarov".
10.	Academic expert	Tuksanbaeva Gulfariza Usenbaevna	Candidate of Medical Sciences, Associate Professor, Associate Professor, Professor of the Department of Neurology, Psychiatry, Rehabilitation and Neurosurgery of the South Kazakhstan Medical Academy".
11.	Academic expert	Iztleuov Yerbolat Maratovich	Candidate of Medical Sciences, Head of the Department of Radiology of the NJSC "West Kazakhstan Medical University Marat Ospanov ", internal auditor of the management service.
12.	Academic expert	Pak Laura Alekseevna	MD, PhD, Associate Professor, Head of the Department of Clinical Oncology and Nuclear Medicine of the NJSC "Semey Medical University".
13.	Academic expert	Kamhen Vitaly Bronislavovich	PhD, Associate Professor, Associate Professor of the Department of "Health Policy and Organization" of the NJSC "Al-Farabi Kazakh National University".
14.	Academic expert	Daniyarova Bayan Lashinovna	Deputy Director for Strategic Development of the KGP "Regional Clinical Hospital" of the Healthcare Department of the Karaganda Region.
15.	Expert-employer	Dyusembek Nazira Askerbekkyzy	Second-year resident in the specialty "Adult and Paediatric Neurology" of the NJSC "Astana Medical University".

The EEC report includes a description of the results and the conclusion of the external evaluation of the educational programme 77R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda" for compliance with the Standards for accreditation of postgraduate education programmes (residency specialties) of medical educational organizations and conclusions (hereinafter referred to as the Standards for accreditation), recommendations of the EEC for further improvement of approaches and conditions for the implementation of the above-mentioned educational programme and recommendations for accreditation for the ECAQA Accreditation Council for Accreditation.

## 2. General part of the final report

## 2.1 Presentation of the educational programme 7R01116 "GENERAL SURGERY" of the NJSC "Medical University of Karaganda"

Name of the organization, legal form of ownership, BIN	Non-profit Joint-Stock Company " Medical University of Karaganda", BIN: 190140033600
Management body	Sole shareholder - Ministry of Health of the Republic of Kazakhstan, Management body - Board of Directors, executive body - Management Board
Full name of the first director	Turmukhambetova Anar Akylbekovna, Chairman of the Management Board - Rector
Date of establishment	The University was founded in 1950. RSE on the Right of Economic Management "Karaganda State Medical University" was reorganized into NJSC "Medical University of Karaganda" on the basis of order No. 82 of the Ministry of Finance of the Republic of Kazakhstan dated 01/25/2019
Location and contact details	Republic of Kazakhstan, Karaganda region, Karaganda, st. Gogolya, 40, 100008
State license for educational activities in residency (date, number)	License for educational activities No. KZ32LAA00016018 dated 06.05.2019
Year of commencement of the implementation of the accredited educational programme (EP)	Start year - 2018 Total number of graduates since the beginning of the residency programs - 17 people.
Duration of training	3 years
Number of residents in the current academic year	1st year - 9 people. 2nd year - 7 people. 3rd year - 20 people.
Quality indicators in residency	Number of residents in the "General Surgery" program expelled over a period of 5 years - 11 people (at their own request; of which 2 were transferred to other universities), including for academic failure - 0 people.  Employment rate, % in dynamics over 5 years: 2019 – 100% 2020 – 100% 2021 – 100% 2022 – 100% 2023 – 100%
Full-time teachers/part-time workers involved in the implementation of the EP, incl. % of Sedateness	Total number of teachers – 8, including full-time - 5, (including 3 clinical mentors)  Sedateness, % ? Categorization, % - 100%

## 2.2 Information about previous accreditation

The educational programme (hereinafter referred to as the EP) in the specialty "7R01116 - General Surgery" was developed at NJSC "MUK" in 2015 in accordance with the Order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state mandatory standards and model professional educational programmes in medical and pharmaceutical specialties".

In 2019, NJSC "MUK" passed the repeated institutional accreditation of the university in the Independent Agency for Accreditation and Rating (hereinafter referred to as IAAR), the EP in the specialty

"7R01116 - General Surgery" was accredited by IAAR and has an accreditation certificate AB 2593; 06/14/2019-06/13/2024. In 2020, the EP was included in the National Register of Educational programmes with the Classifier of Areas of Training of Personnel with Higher and Postgraduate Education as an "active EP" ([https://epvo.kz/register/education\\_program/application/31229](https://epvo.kz/register/education_program/application/31229)). The duration of study is 3 years. In 2021, due to the change in codes and renaming of educational programmes accredited by IAAR, the procedure for recognizing accreditation was carried out with the subsequent re-issuance of certificates according to the criteria described in the Regulation on the transit policy of IAAR, and post-accreditation monitoring of the educational programme "7R01116 - General Surgery" was also completed.

### **2.3 Brief description of the results of the analysis of the self-assessment report of the educational residency programme in the specialty "7R01116 General Surgery" of the NJSC "Medical University of Karaganda" and conclusions on the completeness**

The self-assessment report of the educational residency programme in the specialty "7R01116 - General Surgery" (hereinafter referred to as the report) is presented on 118 pages of the main text, annexes on 13 pages.

The report is characterized by the completeness of answers to all 9 main standards for accreditation and criteria, structuring taking into account the recommendations of the Guide to conducting self-assessment of the educational programme provided to the educational organization by the accreditation centre - ECAQA, as well as the internal unity of information. A cover letter signed by the rector Turmukhambetova Anar Akyzbekovna is attached to the report, which confirms the reliability of the quantitative information and data included in the self-assessment report.

The report contains a self-assessment table indicating the responsibility of each employee. There is only one employee responsible for all standards - Badyrov R.M., Associate Professor of the Department of Surgical Diseases.

Self-assessment of the educational programme "7R01116 - General Surgery" was carried out on the basis of order No. 396 dated October 17, 2023 "On approval of the composition of the working group for conducting self-assessment of educational programmes".

All standards provide the University's real practice of training residents in the specialty "7R01116 - General Surgery" taking into account the start of admission of students in \_2018, substantiated data, examples of the implementation of the objectives of the educational programme, national and international events, methodological support, confirming compliance with the requirements of standard for accreditations. 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 and technical base of the university and clinical sites, contractual obligations with partners (universities, associations, sites), financial information, plans for development and improvement, etc. The report is submitted to the ECAQA in its final form, with data adjustments according to the above recommendations, written in competent language, the wording for each standard is clear and understandable and described in accordance with the criteria of the standards, the tables contain references in the text and have continuous numbering.

### **3. Description of the external expert evaluation**

The external expert work within the framework of the evaluation of the educational programme "7R01116 - General Surgery" of the NJSC "Karaganda Medical University" was organized in accordance with the Guidelines for the external evaluation of educational organizations and educational programmes of the ECAQA / Dates of the visit to the organization: May 15-17, 2024. The sequence of the visit over 3 days is presented in detail in Annex 3 to this report

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

- interviews with management and administrative staff - 33 people;
- interviews with residents - 39 people;

studying the website - <https://muk.qmu.kz/ru/ob-universitete/>;

- interviews - 25 teachers, employers - 17, graduates - 24;

- survey of teachers, postgraduates and residents - 25, 9 and 39, respectively;
  - observation of resident training: not visited
- review of resources in the context of fulfilling standards for accreditation: 3 practice/clinical engagement bases were visited, including the Clinic of the NJSC "Medical University of Karaganda", Ardak Street 1, building 3 (general surgery)
- Regional Clinical Hospital of DPH KO, N. Nazarbayev Ave. 10a (general surgery)
- Infection Center of the Regional Clinical Hospital, Okhotskaya Street 2a (Infectious diseases for adults, children), where training is conducted on 2 educational programmes with the participation of 7 full-time teachers/part-time workers;
  - study of educational and methodological documents - in the amount of 44 units both before the visit to the organization and during the visit to the departments (the list of documents studied is in Annex 2).

The staff of the accredited organization ensured the presence of all persons specified in the visit program and in the lists of interview sites and conversations (Table 1).

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

<b>№</b>	<b>Position</b>	<b>Quantity</b>
1	Vice-Rector for Academic Affairs - Toleubekov Kuantbek Kuanyshbekovich	1
2	Vice-Rector for Scientific and Clinical Affairs - Turgunov Yermek Meyramovich	1
3	Executive Director - Bekturganov Zakir Zakar'yanovich	1
4	<u>Deans:</u> - School of Residency and Professional Development - Tashkenbaeva Venera Bazarbekovna	1
	- School of Public Health - Dauletkalieva Zhaniya Abaevna	1
5	<u>Heads of the Residency and Master's Programmes:</u> - 7R01114 "Neonatology" - Kizatova Saule Tanzilovna	1
	- 7R01120 "Paediatrics" - Yeremicheva Galina Georgievna	1
	- 7R01112 "Neurology (Adult, Children)" - Grigolashvili Marina Archilovna	1
	- 7R01115 "Nephrology (Adult, Children)" - Bacheva Irina Viktorovna	1
	- 7R01126 "Therapy" - Toyynbekova Rakhima Zhaksylykovna	1
	- 7R01116 "General Surgery" - Ruslan Maratovich Badyrov	1
	- 7R01117 "Oncology (adult)" - Kabildina Nailya Amirbekovna	1
	- 7R01107 "Infectious diseases for adults, children" - Alshynbekova Gulsharbat Kanagatovna	1
	- 7R01110 "Radiology" - Zholdybaeva Gulfairuz Ablaevna	1
	- 7R01145 "Pathological anatomy" - Stabaeva Leila Medeubaevna	1
6	- 7M10119 Public health - Kulov Dyusentai Barkenovich	1
	Meeting with members of the <u>Academic Committee of the Senate, the School Quality Assurance Commission by level of education (master's degree, residency):</u> - Laryushina Yelena Mikhailovna, Head of the Department of Internal Medicine, Member of the Academic Committee of the Senate	1
	- Sarsenbaev Kasym Kuandykovich, Dean of the International Medical Faculty, Member of the Academic Committee of the Senate	1
	- Talieva Gulbanat Nurgaliyevna, Associate Professor, Chairman of the Commission for Quality Assurance of the School of Public Health	1
	- Kalishev Marat Guzairovich, Professor, Member of the Commission for	1



	Quality Assurance of the School of Public Health	
	- Belyaev Ruslan Andreevich, Associate Professor of the Department of Neurology, Psychiatry and Rehabilitation, Chairman of the Commission for Quality Assurance of the School of Public Health and Rehabilitation	1
	- Ogizbaeva Alina Vitalievna, Associate Professor of the Department of Emergency Medical Care, Anaesthesiology and Resuscitation, Secretary of the Commission for Quality Assurance of the School of Public Health and Rehabilitation	1
	<u>Meeting with employees of structural divisions</u>	1
	- Director of the Department of Academic Affairs - Sharapieva Sulushash Beketovna	
	- Compliance Officer - Urmashov Alexander Nikolaevich	1
	- Director of the Library - Amirova Yana Olegovna	1
	- Director of the Department of Human Resources Management - Kravtsiv Yelena Aleksandrovna	1
	- Deputy Director of the Department of Economics and Finance - Mukhanova Madina Kakimovna	1
	- Head of the Department of Strategic Development and Quality Management - Bukeyeva Aliya Satybaldievna	1
7	- Head of the Center for Simulation and Educational Technologies - Kemelova Gulshat Seitmuratovna	1
	- Head of the Career Development Centre - Tokzhumanova Gulzhanat Maratovna	1
	- Head of the Information Technology Department - Mukhametova Yelena Leonidovna	1
	- Head of the Youth Department - Ungarbaeva Aigul Amanzholovna	1
	- Specialist of the International Cooperation Department - Aman Rakhat Muratuly	1
8	Centre for Simulation and Educational Technologies - Head of the Centre - Kemelova Gulshat Seitmuratovna	1
9	<u>Interview with students of the EP</u> (General Surgery, Oncology (Adult), Radiology, Neonatology, Infectious diseases adults, children, Pediatrics, Pathological anatomy, Nephrology (adult, children), Neurology (adult, children), Public health	47
10	<u>Interview with the Academic staff of the EP</u> (General surgery, Oncology (adult), Radiology, Neonatology, Infectious diseases for adults, children, Paediatrics, Pathological anatomy, Nephrology (adult, children), Neurology adult, children), Public health	35
13	<u>Interview with graduates of the EP</u> (General surgery, Oncology (adult), Radiology, Neonatology, Infectious diseases adults, children, Paediatrics, Pathological anatomy, Nephrology (adult, children), Neurology (adult, children), Public health	24

14	<p><u>Interview with employers of graduates of the residency and master's degree programmes of the EP</u></p> <ul style="list-style-type: none"> <li>- General surgery (Bobyrev Semyon Sergeevich, chief physician of the Clinic of the Medical University of Karaganda; Tshai Boris Valentinovich, head of the surgical centre of the RCH DPH KO)</li> <li>- Oncology (adult) (Toksambaev Gamal Saylyauovich, director of MH No. 3; Omarova Orynkul Seitkazievna, deputy director for control and quality of patient services of MH No. 3)</li> <li>- Radiology (Kurmangaliev Yerkin-Daur Toleuovich, director of the MSE on the REM "Multidisciplinary Hospital of Professor Kh.Zh. Makazhanova")</li> <li>- Neonatology (Nurkeeva Zharkyn Syzdykovna, director of the MSE "RCH" PC No. 2; Tusupbekov Serikbol Dzhakhanovich, director of the MDH of Balkhash)</li> <li>- Infectious diseases of adults, children (Nurlybaev Yerzhan Shakirovich, Director of the MSE "RCH"; Kenzhibaev Samat Yengibayevich, Director of the MSE on the REM "Multidisciplinary Hospital of the city of Temirtau")</li> <li>- Paediatrics (Derkach Nina Grigoryevna, Deputy Director for Medical Work of the Multidisciplinary Regional Children's Hospital of Karaganda; Akhmetova Gulnara Bitimovna, Deputy Director for Medical Work of the Multidisciplinary Children's Hospital of Karaganda)</li> <li>- Nephrology (adult, children) (Kapinos Yelena Viktorovna, Head of the Nephrology Department of the MSE "RCH"; Kunts Yelena Aleksandrovna, Head of the Nephrology Department of the Multidisciplinary Regional Children's Hospital)</li> <li>- Adult and paediatric neurology (Malik Gulnara Sovetovna, Chief Physician of the Neurorehabilitation Centre "Luch"; Akimzhanova Neilya Nurlanovna, Director of the Diagnostic and Treatment Laboratory "Epi-Lab")</li> <li>- Public health (Sultanov Alshynbay Kamalovich, Director, PhD, State Institution "Medical and Physical Culture Dispensary" of the Department of Physical Culture and Sports of the Karaganda Region"; Sergaliev Talgat Sovetovich, Head of the Public Health Service, PhD, Doctor of the Highest Category of the Regional Mental Health Centre)</li> </ul>	17
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On the last day of the visit to the organization, a meeting of the EEC members was held on the results of the external evaluation. A final discussion of the results of the external evaluation of educational programmes, examination of documents, interview results, and questionnaires was held. The EEC members began to draft the final report of the EEC. Generalizations of the external evaluation results were made. The experts individually filled out the "Quality Profile and Criteria for External Evaluation of Educational programmes of the ECAQA Standards for accreditation". The EEC members did not make any comments. Recommendations for improving educational programmes were discussed and the chairperson, B.S. Zhanalina, held a final open vote on recommendations for the ECAQA Accreditation Council for the accreditation period of 5 years.

While conducting a survey of residents, the majority of respondents (79.49%) believe that it is necessary to accredit an educational organization or educational programmes. According to 64% of teachers, the survey conducted by the ECAQA is useful for developing recommendations for improving key areas of activity of the accredited educational organization. Comfortable conditions were created for the work of the EEC; access to all necessary information and material resources was organized. The Commission notes the high level of the University's corporate culture, the high degree of openness of the team in providing information to the members of the EEC. The Commission highlights the high satisfaction of residents of various specialties in acquiring practical skills at NJSC "MUK" and the absence of worthy competitors in comparison with other medical organizations and research centres.

At the end of the visit, the Chairman of the EEC announced recommendations for the management and employees of the educational organization based on the results of the external evaluation as part of the specialized accreditation.

#### **4. Analysis of compliance with standards for accreditation based on the results of the external evaluation of the residency educational programme in the specialty “7R01116 General Surgery” of NJSC “Medical University of Karaganda”**

Further, evidence of implementation and compliance with standards and substandards is presented, as well as deficiencies identified during the external evaluation, a conclusion on compliance with standards for accreditation and recommendations for improving the quality of the educational programme.

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

#### **1.1 Mission Statement**

The mission of NJSC "Medical University of Karaganda " is to develop society, improve health and quality of life of the population of Kazakhstan by achieving excellence in science, education and practice. The mission of NJSC "MUK" was approved by the decision of the Senate of the University of NJSC "MUK", protocol No. 1 dated October 22, 2019. According to the Quality Policy, NJSC "MUK" undertakes to ensure a high level of training of specialists for the healthcare system of the Republic of Kazakhstan, including residents, who meet the requirements and expectations of all stakeholders (<https://muk.qmu.kz/ru/ob-universitete/>).

Vision: a world-class research university serving the benefit of Kazakhstani society.

The mission of the EP in the specialty "7R01116 - General Surgery" was developed on the basis of the Code of the Republic of Kazakhstan dated July 7, 2020 "On the health of the people and the healthcare system", and in accordance with the Mission of the NJSC "MUK" is aimed at training highly qualified specialists who are able to meet the needs of society in providing medical care to patients with a nephrological profile, apply and develop advanced innovative technologies in medicine, science and practice, use the achievements of information and communication technologies, strengthen the health of the population, specialists must be ready to adapt to the changing conditions of the healthcare system at the level of the state and the world community, continue learning throughout their lives, contribute to the development of society.

The mission of the residency programme "General Surgery" was reviewed and discussed with the participation of all stakeholders: students, employers and faculty (hereinafter referred to as the Academic staff) at a meeting of the Council of the School of Residency and Professional Development (Minutes No. 11 of 07.07.2022), approved by the Quality Assurance Committee of the School of Residency and Professional Development (Minutes No. 3 of 05.07.2022), approved by the decision of the Board, minutes No. 16 of 13.07.2022. The educational programme is posted at the link and is available to the public

In 2020, the educational programme in the specialty "General Surgery" was included in the register of the Unified System of Higher Education Management (hereinafter referred to as the Unified System of Higher Education Management) of the Ministry of Education and Science of the Republic of Kazakhstan. In 2021, the EP specialty code was changed to 7R01116 "General Surgery" (Order of the Ministry of Health of the Republic of Kazakhstan No RK MOH 43 dated 05.25.2021), the EP was posted on the Unified Platform of Higher Education (hereinafter referred to as the UPHE).

During the implementation of the program activities, namely, following the results of the conversation with the members of the Board of Directors of NJSC "MUK", heads of the EP, employees of the structural divisions, in interviews with residents and doctors of the department, compliance with the criteria of the standard was established. However, not all participants in the educational process know the mission of the educational programme, and took part in the formation of proposals for formulating the mission, while the mission was communicated to potential residents through the website, social networks, and information letters to medical organizations.

According to the Development Program for 2019-2023, the activities of NJSC "MUK" were carried out in the status of a research university, which contributed to strengthening the potential of the university

through the integration of scientific research, education and practical activities into an integral system. The Development Program for 2024-2028 has been updated, the purpose of which is to develop NJSC "MUK" as a world-class research university through the integration and development of its educational and research activities (high-quality medical education based on obtaining modern theoretical knowledge and real practical skills in clinical facilities; improving the quality of medical care based on access to advanced technologies and scientific developments; conducting scientific research with the transfer of their results to practical healthcare; increasing the financial stability and efficiency of systems based on the integration and sharing of resources).

During the visit to the divisions of NJSC "MUK", experts noted the strengths of the educational organization in relation to the accredited educational programme, especially in the clinical training of residents, the acquisition and development of clinical skills.

In 2020, new communication and information platforms for distance learning were mastered: Microsoft Teams, Webex Cisco, and Zoom. On the Moodle platform, within the framework of the ERASMUS+ project "BERNICA", the course "CLINICAL NUTRITION PRACTICE IN CHRONIC KIDNEY DISEASES (CNPCKD)" was developed in English with subsequent adaptation into Russian and Kazakh (<https://e-learning.qmu.edu.kz/>)

Residents participate in clinical reviews, consultations, general rounds with the head of the department, perform night shifts, work in ultrasound and endoscopic diagnostics rooms, where they are taught the skills of a professional attitude to work in a medical organization and inter-professional communication of specialists of various profiles and levels.

The results of the study of the documentation demonstrate that the mission of the organization and the mission of the educational programme of the residency in the specialty "Nephrology for Adults, Children", namely the educational process, is built in accordance with the State Compulsory Educational Standard and current LSI in postgraduate education and healthcare.

## **1.2 Professionalism and professional autonomy**

To verify standard 1, at a meeting with the Vice-Rector for Academic Affairs - K.K. Toleubekov, Vice-Rector for Scientific and Clinical Affairs - Ye.M. Turgunov, Dean of the School of Residency and Professional Development - V.B. Tashkenbaeva, heads of the EP, etc., the experts asked the following questions: - Do residents work at 0.5 positions in clinics; - What are the functional responsibilities of clinical mentors? During the answers, representatives of the university administration noted that, based on the order of the Ministry of Health of the Republic of Kazakhstan dated December 21, 2020 No RK MOH-305 "On approval of the nomenclature of specialties and specializations in the field of health care, the nomenclature and qualification characteristics of positions of health workers" (<https://adilet.zan.kz/rus/docs/V2000021856>), residency students have the opportunity to work additionally as a resident physician under the guidance of a clinical mentor in the chosen field of medicine for 0.5 rates in medical organizations. The functional responsibilities of clinical mentors are spelled out in the Regulation on Clinical Mentors, which all interested parties are familiar with.

*While conducting a survey of 37 residents, it was found that 89.74% of residents would recommend studying in this educational organization to their acquaintances, friends, and relatives. And 97.44% of respondents believe that the heads of the educational programme and teachers are aware of the problems of students related to education. To the question "Do you think this educational organization allows you to acquire the necessary knowledge and skills in your chosen specialty?", also 97.44% of residents answered positively, 2.56% are not sure about this.*

*80% of the 25 teachers surveyed responded that they were satisfied with the organization of work and the workplace in this educational organization, and 20% partially agreed with this statement. The experts determined that the organization has a healthy microclimate. According to 88%, a teacher has the opportunity to realize himself as a professional in his specialty in the educational organization. For your information, a total of 25 people responded, while teaching experience up to 10 years - 16%, over 10 years - 84%.*

## **1.3 Final learning outcomes**

The experts established a clear continuity between the final results of the previous training of

residents (prerequisites) and training in residency, and subsequent continuous professional development programs. The University has a practice of informing residents about the final learning outcomes. The final learning outcomes of residents are aimed at mastering the professional competencies of the resident, reflected in the competency/learning outcome map "7R01116 - General Surgery" and are defined on the basis of the Dublin descriptors.

Upon completion of the training programme, in accordance with the order of the Ministry of Health of the Republic of Kazakhstan No. RK MOH-249/2020 "On approval of the rules for assessing the knowledge and skills of students, assessing the professional readiness of graduates of educational programmes in the field of health care and specialists in the field of health care", the Academic Policy of NJSC "MUK" and the "Regulations on the residency of NJSC "MUK", control over the quality of training of residency graduates is carried out in the form of final certification, which is carried out by the NCIE with the participation of representatives of practical health care, in the form of a 2-stage exam: Stage 1 - comprehensive testing, Stage 2 - assessment of practical / clinical skills at the patient's bedside.

During a meeting with potential employers of residency graduates, they noted the high level of training of residents, emphasized their strong clinical training and acquired skills, as well as their readiness for independent work (under the programs that are being implemented at the university at the time of the external evaluation). Employers emphasized that graduates apply not only the acquired skills in their practical activities, but also strive to constantly master and improve new clinical practices in their individual professional activities. Also, graduates and residents of NJSC "MUK" noted that during their studies at the university, they mastered both theoretical and clinical skills. While talking with residency graduates, some of them noted the weakness of their skills when working with children and wished for future graduates to rotate across various clinical sites so that there are no gaps in their training.

The bulk of special skills and knowledge corresponding to various roles of a healthcare specialist is mastered by residents at clinical sites with which there is an agreement. Residents acquire new and practice previously acquired skills in collecting anamnesis, examining patients, clinical thinking, interpreting laboratory and instrumental studies, drawing up a plan for treatment and diagnostic, preventive and anti-epidemic measures, performing medical manipulations, communication skills, making diagnostic and therapeutic decisions, especially during duty. The final results of residents are presented on the university website and in the syllabuses of disciplines.

The surveyed teachers answered that 64% are fully satisfied with the level of previous training of residents, and 32% are partially satisfied.

The experts established a clear continuity between the final results of previous training of residents (prerequisites) and training in residency and subsequent continuous professional development programs. Residents are informed about this.

#### **1.4 Participation in formulating the mission and final outcomes**

While forming the program, its goals and final outcomes, the programme was discussed, reviewed and approved sequentially according to the hierarchy: by the academic committee, the Quality Assurance Committee, the Council of the SR&PD, the Senate of the NJSC "MUK", the Chairman of the Board - the Rector of the NJSC "MUK", which is confirmed by the minutes of the meetings. All EPs of the NJSC "MUK" undergo internal and external examination in accordance with the established procedure and are included in the national Register of educational programmes. If it is necessary to make additions or changes to the EP, the "Sheet of Changes to the Educational programme" (F NJSC "MUK" 1.4 / 21-05 / 1) is filled out. In accordance with the developed EP, TC, the head of the EP, the Academic staff develops WC, syllabuses for a module / discipline, CED, the form, structure and procedure for the development of which are determined by the University independently. The mission and goals of the EP are focused on the professional orientation of the residency graduate as a highly professional specialist in demand in the healthcare system of the Republic of Kazakhstan.

During the conversation with residents and employers, experts received an answer to the question "Do you participate in formulating the mission and goals of the organization, educational programme?", "What is the personal contribution of residents to improving the educational programme?". Residents of the EP "7R01116 - General Surgery" answered these questions that they have a real opportunity to

participate in organizing the curriculum of the specialty during the direct discussion and approval of the EP, at the level of developing the IEP and elective disciplines at meetings of the Council of the SR and PD, the Senate, however, employers of the surgical profile answered that they are not part of the collegial advisory bodies of the university - the Senate of NJSC "MUK", the Council of the SR and PD, and are only sometimes invited to department meetings to monitor and improve the EP. Also, one of the mechanisms for continuous monitoring and improvement of the EP is the systematic survey of teachers, students and employers.

**Conclusions of the EEC on the criteria. Compliance with 14 standards (including 9 basic, 5 improvement standards): fully - 8/4, partially - 1/1.**

**Recommendations for improvement:**

- 1) To develop and implement a CED on research management for surgical residents - 1.1.6
- 2) To ensure the participation of key and other stakeholders in developing the mission of the EP, since not all residents and employers know the mission – 1.4.1

## **Standard 2: EDUCATIONAL PROGRAMME**

### **2.1 Framework parameters of the postgraduate medical education programme**

To implement the educational programme 7R01116 "General Surgery", the organization's documents contain teaching and methodological complexes, which define the goal, take into account the integration of practical and theoretical components, and independent work. The university positions itself as a model used to implement the program with a modular-competency approach. EP 7R01116 "General Surgery" is practice-oriented, as evidenced by the distribution of classroom and independent work of residents, the results of visiting clinical sites, the results of interviews with clinical mentors, teachers and the residents themselves. The reports show that the university maintains a balance between mastering practical skills under the guidance of qualified teachers and the use of innovative teaching technologies. Residents spend most of their academic work at the patient's bedside, supervising patients, performing night shifts and working in clinical settings and training in emergency conditions at the centre for simulation and educational technologies (CSET). On 05/16/2024, they visited clinical sites 7R01116 "General Surgery" - the Clinic of the NJSC "Medical University of Karaganda" and the Regional Clinical Hospital of DPH KO. During the visit to the clinical sites, the experts received convincing data that the residents study the clinical protocols for the diagnosis and treatment of RK, International consensuses in the field of surgery, clinical recommendations of leading international organizations in order to implement treatment and diagnostic measures based on evidence-based medicine, practical classes are conducted according to plan, before the start of the class, residents answer tests, receive feedback from the teacher, have the opportunity to improve their practical skills. Residents who have completed the training and successfully passed the end-of-course assessment are awarded the qualification of a Surgeon and are issued a certificate of completion of residency, a state-issued document approved by the order of the Minister of Education and Science of the Republic of Kazakhstan dated January 28, 2015 No. 39 "On approval of the types and forms of state-issued educational documents and the Rules for their issuance" (with additions and amendments dated 05/04/2020), which corresponds to level 7 of the National Qualifications Framework and the Framework for Qualifications in the European Higher Education Area. (ESG 1.2).

Written works are checked in the system "Strikeplagiarism.com (Antiplagiat system of the Polish company Plagiat.pl). The University has developed an internal document - the Code of Academic Integrity, and is drawn up in accordance with the Law of the Republic of Kazakhstan dated February 18, 2011 No. 407-IV "On Science" (with amendments and additions as of 04/10/2019), and the principles of academic integrity are also reflected in the Academic Policy of the University.

Practical activities of residents in the clinic are carried out under the guidance of experienced clinical mentors, a corresponding regulation has been developed. Future surgeons register their academic achievements, as well as skills and abilities that can affect their personal development, in the Portfolio, which is an alternative criterion for assessing the achievement of the final learning outcomes. Feedback from residents and clinical mentors, as interviews with both parties showed, is maintained daily, at the patient's bedside, or based on the results of medical documentation in KIIS, and regular surveys are also

conducted.

The resident mentoring system is determined by the Regulation on Residency, approved by the Decision of the Board of the NJSC "MUK" dated August 23, 2022, Protocol No. 18. Residency training is carried out under the supervision of the Academic staff and a clinical mentor, whose activities are regulated by the "Job Descriptions of the Clinical Mentor". The clinical mentor is appointed from among qualified practical healthcare specialists working at the residency bases, who have a certificate and at least 5 years of experience in the relevant specialty. Clinical mentors in the specialty 7R01116 "General Surgery" are doctors of the highest qualification category.

Admission to the residency programme, its implementation, assessment methods and other aspects are carried out regardless of religious, national affiliation and gender differences.

## 2.2 Scientific method

The educational programme 7R01116 "General Surgery" includes the scientific foundations and methodology of medical research, including clinical research and clinical epidemiology. The introduction of scientific foundations and methodology of medical research in the EP is carried out on the basis of the Law of the Republic of Kazakhstan "On Science", "Development Program of the Non-Commercial Joint-Stock Company" Medical University of Karaganda "for 2024-2028", one of the areas of which is Leadership in Research. As part of the implementation of this area, a program for the development, support and promotion of university researchers is being developed and implemented through the involvement of students, interns, residents, young scientists under 35 years of age in the implementation of research programs and projects. During a conversation with residents, the experts learned that they use scientific data in training and know the basics of evidence-based medicine. The teachers said that they teach residents methods of critical evaluation of literature, scientific data, and the application of scientific developments. During the training, residents study educational and scientific literature in the university library, use electronic resources, electronic scientometric databases (Scopus, PubMed, Elsevier, Cohrane library). Residents studying in the EP "General Surgery" and the teaching staff of the department regularly participate in the implementation of research through the analysis of literary data and clinical observations, which result in the publication of clinical cases in scientific journals.

The share of scientific work in the assessment sheet of the portfolio in residency is 20%, which affects the end-of-course assessment of the resident and is a mechanism for activating students in this section of the work.

However, at the Department of Surgical Diseases 7R01116 "General Surgery" there is no clearly organized scientific work among residents. The scientific work of residents of EP 7R01116 "General Surgery" is limited to writing individual articles; there are no approved scientific projects.

The forms of training are organized in the format of the "Journal Club" at the Department of Surgical Diseases, participation of residents in scientific and practical conferences, seminars.

The University has its own journal "Medicine and Ecology", which is included in the List of publications recommended by the Committee for Quality Assurance in Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan for publishing the main results of scientific activity (Order No. 368 dated March 19, 2024).

While surveying residents of all specialties, it was found that the educational organization has access to the participation of students in research work. To the question: "Am I currently doing research under the guidance of my teacher or mentor?", 87.18% (34) of respondents answered - yes, this is so, 5.13% (2) - yes, I have started planning the implementation of R&D, 5.13% (2) I have no desire to do R&D, 2.56% (1) are unsure with the answer.

## 2.3 Structure, content and duration of the residency programme

The content, scope and sequence of courses of the residency programme 7R01116 "General Surgery" strictly correspond to the 2022 State Compulsory Educational Standards and the 2023 Standards and Practice of the specialty and are reflected in the WC. The basis for achieving the objectives of training in the specialty is the acquisition by residents of the necessary knowledge and key competencies, the major disciplines (MD) of the main component and the elective component. While drawing up the training

trajectory, the sequence of modules/disciplines was observed, taking into account the pre- and post-requisites, the content of which is aimed at achieving knowledge, skills and abilities, ensure a step-by-step approach to their study.

The duration of residency training in the specialty "General Surgery" according to the State Compulsory Educational Standard of the Republic of Kazakhstan is 3 years and includes 6,300 academic hours, which is 210 credits (at the rate of 1 credit equals 30 academic hours). The EP consists of modules/disciplines of core disciplines, as well as an elective component.

The EP includes the study of major disciplines of the compulsory component - (200 credits/6000 hours), an elective component - (8 credits/240 hours), end-of-course assessment - (2 credits/60 hours). According to the State Compulsory Educational Standard of the Republic of Kazakhstan, the structure of the EP "General Surgery" is formed from various types of classroom and extracurricular work. The volume of classroom work is 20% of the volume of each discipline, independent clinical work under the guidance of a clinical mentor - 70%, independent clinical work - 10%.

The EP in the specialty 7R01116 - "General Surgery" gives residents the opportunity to plan and implement an individual learning path throughout their training, preparing for work in the chosen specialty. One of the determining factors for the formation of the CED are the recommendations of the clinical mentor, to update the EP taking into account the needs of practical healthcare.

The catalogue of elective disciplines is formed according to the list of disciplines of the elective component, reviewed annually at a meeting of the department and approved at a meeting of the Council of the SR&PD. The elective component (8 credits) can be selected from the presented disciplines: "Abdominal oncosurgery", "Ultrasound diagnostics in surgery", "Endovideosurgical interventions in abdominal surgery", "Endoscopic methods of diagnosis and treatment in surgery".

Residents' practical skills are reinforced by performing clinical work within the framework of the IWRT, IWR at the clinical sites of the department, participation of residents in the competition "Territory of emergency conditions" organized by the CSET, which ensures the integration of the learned theoretical material of the program with the practical application of the acquired knowledge. The integration of theory and practice contributes to the formation of connections that ensure the integrity of the educational process.

The training of specialists in residency in the specialty "General Surgery" is carried out in order to provide the healthcare industry with qualified personnel capable of providing medical care to the population with surgical diseases, taking into account the requirements of national legislation.

Thus, the disciplines of the EP are logically interconnected and are consistently studied by residents. When studying the disciplines of the EP, the continuity of basic medical education is ensured by the prerequisites of the disciplines. The implementation of specialized disciplines in the EP demonstrates the professional focus of the curriculum.

## **2.4 Organization of training and the relationship between postgraduate medical education and the provision of medical care**

The management of the educational process, reflected in the self-assessment report (Standard 2) and general approaches to management were confirmed during a conversation with the Dean of the SR&PD, V.B. Tashkenbaeva.

The resident mentoring system is determined by the Regulation on Residency, approved by the Decision of the Board of the NJSC "MUK" dated August 23, 2022, Protocol No. 18 and demonstrates the importance of the role of a clinical mentor in the development of future paediatricians as practical clinicians.

A wide range of beds in the largest multidisciplinary medical institutions give residents the opportunity to carry out practical activities in close cooperation with doctors of related specialties, participate in multidisciplinary consultations, implement continuity in the management of patients at the hospital level, hospital - outpatient clinic, have well-equipped auxiliary departments (endoscopic, morphological, radiation, functional and laboratory diagnostics).

The experts got acquainted with the work of the departments, including the work of specialized departments, and during the cross-interview it was established that there is a constant connection between the residents-graduates and their curators, the relationship between curators and clinical mentors with



stakeholders is monitored. This is facilitated by the mentoring that is carried out in the organization. During the conversation with the residents, the experts saw that the organization promotes the development of practical competencies of the residents.

*Of the 39 residents surveyed, 89.74% responded that teachers use active and interactive teaching methods in classes quite often, 7.69% believe that they rarely or sometimes, 2.56 do not know what it is.*

**Conclusions of the EEC on the criteria. Compliant with 22 standards (including 18 basic, 4 improvement standards): fully – 17/4, partially – 1/1.**

**Recommendations for improvement:**

1) To develop a CED for EP 7R01116 – “General Surgery” on the scientific foundations and methodology of medical research – 2.2.1

### **Standard 3: ASSESSMENT OF RESIDENTS**

#### **3.1 Assessment methods**

The policy and procedures for assessing the academic achievements of residents at NJSC “MUK” are carried out in accordance with the set goals and learning outcomes for the implementation of the EP and the assigned qualifications within the framework of the current rating system and control of the educational process, in accordance with directive, regulatory and internal documents. The comprehensive assessment of the academic achievements of residents at the university is regulated by the "Rules of the rating system for assessing the academic performance of students" (section 5-7 of the Academic Policy of NJSC "MUK"), compliance with which is mandatory for all students and structural divisions of the university - participants in the educational process.

In order to determine the degree of achievement of the final learning outcomes and mastered competencies by residents of EP 7R01116 - "General Surgery", current monitoring of academic performance, midterm and end-of-course assessment are carried out.

Formative assessment of the academic performance of students is carried out for each completed assignment, which includes all types of academic work and the development of practical skills using simulation technologies, patient care, duty at clinical sites, etc.). During current monitoring of academic performance, academic achievements are assessed on a 100-point scale, by calculating the arithmetic mean of all grades received during the academic period.

The period for conducting the midterm assessment is approved by the Chairman of the Board - Rector of the NJSC "MUK", the schedule for conducting the final control and midterm assessment - by the Vice-Rector for Academic Affairs. The end-of-course assessment is carried out upon completion of the discipline/module, the midterm assessment in the form of portfolio defence - upon completion of the academic period ("Conducting midterm assessment" (section 5-8 of the Academic Policy of NJSC "MUK").

The end-of-course assessment is carried out upon completion of the discipline/module in the form of a comprehensive 2-stage exam - Stage 1 - clinical exam (assessment of practical skills) (50%), Stage 2 - written exam, in the final years - testing (50%). The clinical exam is carried out in the form of certification of practical skills "at the patient's bedside", according to the assessment sheet. The written exam is conducted on the session.kgmu.kz platform with checking the resident's written response for originality in the Strikeplagiarism.com system (Anti-plagiat system of the Polish company Plagiat.pl), as well as with coding of the residents' works, ensuring the objectivity of the assessment.

The University uses additional assessment methods residents in the specialty 7R01116 - "General Surgery" such as a portfolio, assessment of scientific activity. The portfolio is defended at the end of each academic year to assess the resident's mastery of the competencies provided for by the EP.

Control and measuring tools are compiled in accordance with the State Educational Standard, Tupolev, EP, and syllabus.

According to the order of the Ministry of Health of the Republic of Kazakhstan No RK MOH-249/2020 "On approval of the rules for assessing the knowledge and skills of students, assessing the professional training of graduates of educational programmes in the field of health care and specialists in the field of health care", the Academic Policy of NJSC "MUK" and the "Regulations on the residency of

NJSC "MUK", control over the quality of training of residency graduates is carried out in the form of end-of-course assessment. To ensure objectivity and transparency of assessment, the university has developed checklists: "Maintenance of medical records/medical history" in the surgical hospital, "Night/day duty" in the surgical hospital, "360°-resident assessment".

To conduct the end-of-course assessment of residents, a final attestation commission (hereinafter referred to as the FAC) is formed. The FAC includes: 1) The Chairman of the FAC - a representative of practical healthcare or an employee of a scientific organization who does not work at the university, corresponding to the profile of the specialists being graduated. 2) Members of the FAC - highly qualified specialists in practical healthcare corresponding to the profile of the specialists being graduated. The composition of the FAC is discussed annually at a meeting of the departments, the Council of the SR&PD and the Senate of the NJSC "MUK" and is approved by order of the Chairman of the Board - Rector of the NJSC "MUK" no later than December 31 and is valid for a calendar year. The results of the comprehensive exam are registered in the AIS "Platon" system.

In order to ensure compliance with uniform requirements and resolve controversial issues when assessing examination papers for the period of the midterm assessment of students, an appeal commission is created by order of the dean of the SR&PD (Order No. 8a dated September 15, 2023). While passing the end-of-course assessment, a student who does not agree with the result of the comprehensive exam files an appeal during stage 1 (comprehensive testing), and an appeal of stage 2 no later than the next working day after the announcement of its results.

In 2020, a written exam was introduced on the session.kgmu.kz platform, in the 2021-2022 academic year, a new form of portfolio assessment sheet was introduced during its defence.

Methods for assessing residents in the specialty "General Surgery" are being developed and discussed with external stakeholders. Examination materials are discussed at a department meeting and undergo expert assessment by external reviewers - representatives of practical healthcare - with the chief surgeon of the Karaganda region, head of the surgical centre of the MSE "Regional Clinical Hospital" DPH KO Tskhai B.V., and deputy director for medical affairs of the MSE "Multidisciplinary Hospital No. 1" Matyushko D.N.

The control and measuring tools are updated annually by 30%. The responsible teacher for the discipline/module coordinator imports the examination material into the AIS "Platon" or AS "Session" a week before the start of the final assessment.

The registrar's office unit monitors compliance with the deadlines for submitting examination materials by departments.

To ensure transparency and objectivity of the end-of-course assessment, the registrar's office forms a pool of proctors from among the Academic staff who do not have a conflict of interest during the period of its implementation. The registrar's office unit conducts proctor briefings before the start of the exams and forms a schedule of proctors' duty.

### **3.1.6 Facilitate the involvement of external examiners in the assessment of residents.**

Participation of representatives of practical healthcare at all stages of the assessment, heads of departments, attending physicians, nursing staff, as well as patients during the 360° assessment of residents, ensures the objectivity and fairness of the assessment. Thus, for the end-of-course assessment in the 2023-2024 academic year, by order of 21.12.23 No. 4 "On approval of the composition of the AC for the 2023-2024 academic year" representatives of practical healthcare were included in the certification committee. Sagimbaev B.Zh., PhD, Director of the MSE "Karaganda Regional Centre for the Prevention and Control of AIDS" of the Health Department of the Karaganda Region, was approved as the chairman. It should be noted that employees of clinical sites should be more actively involved in assessing the training of surgical residents.

### **3.2 Relationship between assessment and learning**

The methods used to assess students' competencies are described in syllabuses. It should be noted that the report presents a table of assessment methods and teaching methods, which contains

methodological errors. Also, during the interview with teachers, it was clarified that there is no clear understanding between the learning domains and assessment methods in them.

The university has developed standardized checklists, but upon closer examination by the EEC experts, their "stereotype" was revealed, that is, the lack of a differentiated approach depending on the specifics of the educational programme.

**Conclusions of the EEC on the criteria.** Compliant out of 9 standards (including 5 basic, 4 improvement standards): fully - 5/3, partially - 0/1.

**Recommendations for improvement:**

1) To involve external examiners and employees of clinical sites in the assessment of surgical residents 3.1.6

## **Standard 4: RESIDENTS**

### **4.1 Admissions and selection policy**

Admission to residency in the residency specialty EP 7R01116 - "General Surgery" is carried out in accordance with the order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 "On approval of the Model rules for admission to training in educational organizations implementing educational programmes of higher and postgraduate education", with the order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020 No RK MOH-270/2020 "On approval of the rules for placing a state order, admission to training and training of medical personnel in residency", the State Compulsory Educational Standard and the Rules for Admission to Residency for the current academic year. The conditions for admission of residents are described in detail in the "Rules for Admission to Residency" for the relevant academic year, based on LSI.

Information on the residency program 7R01116 - "General Surgery" is available to all interested parties on the website of the USHEM and the University (<https://qmu.edu.kz/ru/contents/view/1239>).

In NJSC "MUK", the "Regulation on Inclusive Education in NJSC MUK" was developed in 2020 dated 09.12.2020. Protocol No. 26, in accordance with the Constitution of the Republic of Kazakhstan, the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600, the Charter and internal regulatory documents of NJSC "MUK".

Admission of persons entering NJSC "MUK" for EP 7R01116 - "General Surgery" is carried out upon their applications on a competitive basis based on the results of the entrance exam, which included stages assessed on a 100-point assessment scale.

The assessment of the entrance exam was formed from three components: GPA value (weighted average assessment of the level of academic achievements for the entire period of study (bachelor's degree and internship)); the result of the 1st stage of an independent examination or the result of a specialist certificate; the result of a comprehensive test in the surgical profile. In case of equal competitive scores, preferential right for admission to residency was given to persons with medical experience (at the time of submission of the applicant's documents), where 1 year of experience was equal to 1 point, subject to the availability of supporting documents. In addition, applicants who had publications and speeches of various levels, awards, participation in specialized Olympiads, start-ups, scholarship holders had preferences with corresponding points, which were additionally added to the results obtained.

Persons are admitted to residency based on the results of the entrance exam in the therapeutic profile and who scored at least 75 points out of a possible 100 points.

### **4.2 Number of residents**

The number of accepted residents is regulated by the state order of the Ministry of Health of the Republic of Kazakhstan, orders of the local executive bodies for the training of medical personnel and the possibilities of their clinical training, the maximum permissible workload of the Academic staff, clinical mentors, material and technical resources of the university and clinical bases.

Every year the University submits a proposal to the authorized body to place a state educational order for the training of medical personnel in residency according to the relevant form. The number of

accepted residents is constantly agreed upon with the relevant stakeholders, taking into account the need for medical personnel in nephrology. The revision is carried out regularly, taking into account the needs of the industry and the situation on the labour market.

#### **4.3 Support and consulting of residents**

The main tasks of the teachers of the NJSC "MUK" and mentors of the clinical base are to provide support for professional orientation and career planning of residents, increase mobility, competitiveness of graduates of the centre in the labour market, expand the framework of social partnership and improve the "resident-university-employer" system. Support and consulting on all issues of organizing the educational process, on mastering compulsory and choosing elective disciplines are carried out by the teaching staff, the head of the EP, the head of the department, the SR and PD. Information about residency training is also posted on the official website of the University (in the tab Education → Applicant → Entrance exams for postgraduate education (Master's degree, residency, doctoral studies) → Residency, Student Portal of NJSC "MUK").

Currently, NJSC "MUK" has a student service centre that provides services to students on a "one-stop shop" basis. In order to ensure and maintain an active dialogue with students, meetings are scheduled for managers at all levels. The official website of NJSC "MUK" has a virtual rector's office, which allows students to submit their proposals for optimizing management processes. The "Reception schedule for personal matters of the rector and vice-rectors" is posted in the "Structure" tab.

The University provides support to residents focused on social, financial and personal needs, and allocates appropriate resources for social and personal support.

The university also has a youth department, a compliance officer, and a student service centre to provide social and personal support to students. These are structural units implementing state youth policy, civic-patriotic, legal, moral, professional, aesthetic, ethno- and multicultural education of residents.

For those wishing to study foreign languages and improve their language skills, the English Club and the Multilingual Club operate at NJSC "MUK". Since October 1, 2019, students, master's students, doctoral students, residents, and employees have been studying there. Since 2013, the university has had a sports club with 20 sections in various sports.

Work is regularly carried out with residents to improve their communicative competence, prevent conflicts in practical medical activities and prevent burnout syndrome. The student support service provides psychological adaptation and information support to students (the university has full-time psychologists). This service operates at the university on the basis of the Regulation on the student support service of NJSC "MUK" (PP NJSC "MUK" 19-2, version 1 of July 08, 2019 with amendments of October 23, 2020, protocol No. 20).

The Student Republic "Samruk" is a student self-government body in the field of implementing the State Youth Policy of the Republic of Kazakhstan. The university also has a Council of Young Scientists and Students, which functions in accordance with the Regulation on the scientific society of young scientists and students of the university.

#### **4.4 Representation of residents**

Residents have a real opportunity to participate in the organization of the specialty curriculum during direct discussions of the educational programme, at the level of developing an individual curriculum and choosing elective disciplines. Representatives of residents are included in the members of the Council of the SR and PD and the Senate.

Resident doctors are regularly invited to meetings of advisory bodies and take part in the discussion of issues in the context of this specialty. Suggestions and recommendations of students are necessarily taken into account by members of the advisory bodies and are taken into account when forming the final decision of the meeting.

#### **4.5 Working conditions**

According to the Decree of the Government of the Republic of Kazakhstan No. 799 dated

10.10.2022. "Rules for the appointment, payment and amount of state scholarships" (<https://adilet.zan.kz/rus/docs/P080000116>), Regulations on the procedure for assigning scholarships established by the President of the Republic of Kazakhstan, residents studying on the basis of an educational grant are paid state scholarships.

Based on the order of the Ministry of Health of the Republic of Kazakhstan dated December 21, 2020 No RK MOH-305 "On approval of the nomenclature of specialties and specializations in the field of health care, the nomenclature and qualification characteristics of the positions of health workers" (<https://adilet.zan.kz/rus/docs/V2000021856>), residency students have the opportunity to work additionally as a resident physician under the guidance of a clinical mentor in the chosen field of medicine for 0.5 rates in medical organizations, or according to a specialist certificate received upon completion of the relevant internship. Resident doctors are granted holidays between academic periods. The duration of holidays during the academic year is at least seven weeks, with the exception of the final year, in accordance with the state mandatory standard of residency in medical specialties and the educational programme for residency specialties.

The medical educational organization implements individual programs for training residents under special circumstances, so in 2023-2024, resident Zhaksylyk M. A., who has the 1st disability group due to terminal CKD, entered the 1st year. Given this fact, the resident was offered to undergo daytime shifts, the academic load, the final certification schedule should be formed taking into account the hemodialysis schedule, general well-being.

**Conclusions of the EEC on the criteria. Compliant with 20 standards (including 14 basic, 6 improvement standards): fully - 13/5, partially 1/1**

**Recommendations for improvement:**

- 1) To involve the most active residents in the process of developing the policy for admission and selection of new residents – 4.1.6

## **Standard 5. ACADEMIC STAFF**

### **5.1 Admission and selection policy**

The NJSC "MUK" has developed, approved and implemented the university's personnel policy, rules for the admission of employees upon employment, the Rules for competitive replacement of vacant positions, to maintain the optimal level of the numerical and qualitative composition of employees, their professional and social development to ensure high quality of the educational process and training of competitive specialists in residency, taking into account the needs of the labour market. The above-mentioned regulatory documents are governed by the Labour Code of the Republic of Kazakhstan, the Law of the Republic of Kazakhstan "On Education" and the order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 13, 2009 No. 338 "On approval of standard qualification characteristics of positions of teaching staff and persons equivalent to them.". Information on vacant positions is posted on Internet resources, including recruiting portals, the website and portal of the university, which allows both university employees and third-party applicants to participate in the competition. The search and selection of highly qualified specialists is carried out on the basis of submitted resumes and interviews. The decision to hire employees is made collegially by a commission for interviewing candidates for employment. The commission considers the candidate's compliance with the stated requirements; the decision of the commission is recorded in a protocol. The main requirements for selecting a candidate for the position are education in the required profile, the level of professional training, and compliance with qualification requirements. Qualification requirements are approved taking into account the current legislation of the Republic of Kazakhstan - the Law of the Republic of Kazakhstan "On Education" and the order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 13, 2009 No. 338 "On approval of standard qualification characteristics of positions of teaching staff and persons equivalent to them", on the basis of which the university developed the Regulation on the Residency of NJSC "MUK".

According to the Regulation on Residency, training is carried out under the supervision of the Academic staff and a clinical mentor. Classes in the residency are conducted by persons with an academic degree of doctor or candidate of science, an academic degree of doctor PhD, as well as doctors with a certificate and at least 5 years of experience that correspond to the profile of the discipline taught. The clinical mentor is appointed by the order of the Chairman of the Board - Rector from among qualified specialists in practical healthcare working at the residency bases, having a certificate and at least 5 years of experience in the relevant specialty.

At the Department of Surgical Diseases for EP 7R01116 - "General Surgery" there are only 5 (41.7%) full-time teachers and 3 mentors (according to the Regulations on Residency, the teacher / resident ratio should be 1: 3, i.e. the proportion of full-time teachers should be 12).

At the Department of Surgical Diseases, training of residents in the specialty "General Surgery" is carried out by the following employees:

1. Associate Professor of the Department of Surgical Diseases, Doctor PhD Badyrov Ruslan Muratovich, surgeon of the 1st qualification category. Head of the surgical block of the Clinic of the NJSC "MUK", is the head of the educational programme "General Surgery";

2. Professor of the Department of Surgical Diseases, PhD. Abatov Nurkasi Tulepbergenovich, surgeon of the highest qualification category, chief surgeon of the Clinic of the NJSC "MUK".

3. Associate Professor of the Department of Surgical Diseases, Doctor PhD Yusifov Zamig Alizaminovich, surgeon of the highest qualification category.

4. Associate Professor of the Department of Surgical Diseases, Doctor PhD Kalieva Dinara Keneskhonovna, surgeon of the highest qualification category

5. Assistant of the Department, Khasenov Zhasulan Dalelbekovich, surgeon of the highest qualification category

6. Tskhai Boris Valentinovich - head of the surgical center of the MSE "Regional Clinical Hospital" of the DPH KO, surgeon of the highest category - clinical mentor, chief surgeon of the Karaganda region

7. Aimagambetov Yerbol Maratovich - Deputy Director for Medical Affairs of the MSE on the REM "Multidisciplinary Hospital named after prof. Kh.Zh. Makazhanova", surgeon of the highest category - clinical mentor

8. Musayev Arastun Yemzaevich - head of the surgical department of the MSE MH No. 1 of Karaganda, surgeon of the highest category - clinical mentor

The presented data on the presence of 15 teachers does not correspond to reality, since the 15 teachers included - 2 urologists, a traumatologist, anaesthesiologist, 2 employees of the department of oncology and radiation diagnostics, who cannot teach such cycles as - Emergency surgery, planned surgery and other purely surgical cycles.

Due to the fact that the department has a low staffing level, it is not possible to determine the degree.

The university ensures a balance between teaching, research and treatment activities, which is reflected in the IWPT. The distribution of activities is carried out on the basis of job descriptions, depending on the categories of the teaching staff. The average teaching load of the faculty implementing the EP on residency is reviewed annually, which amounted to 650 hours for the 2023-2024 academic year (Senate Decision of 04/28/2022, Protocol No. 7).

Research work is an integral part of the activities of the university's faculty and a prerequisite for the training of residents.

The results of the research work of the faculty over the past 5 years are presented in the form of publications in peer-reviewed journals, certificates of registration of intellectual property rights, oral / poster presentations at scientific and practical conferences in the Republic of Kazakhstan (annual Central Asian Conference; 2018, 2019, 2020 - Man and Medicine of Kazakhstan COVID Conference).

Improving the clinical and pedagogical qualifications of the faculty and clinical mentors is carried out at least once every 5 years, respectively. Upon completion of advanced training, supporting documents are submitted to the department, the HR department, and also uploaded to the AIS "Platon".

The principles of business ethics and academic integrity in the university are implemented through  
*While surveying teachers, it was found that the majority (80%) are completely satisfied with the*

*organization of work and the workplace in this educational organization, but 20% are partially satisfied. In this educational organization, teachers have the opportunity to engage in scientific work and publish the results of R&D - 84% completely agree, 16% partially. They are satisfied with the salary - 56% completely agree, 12% of respondents did not answer, 28% answered more YES than NO, 4% answered more NO than YES.*

## **5.2 Commitments and development of teachers**

The university ensures a balance between teaching, scientific research and clinical activities. The balance of distribution between the areas of the teacher is determined by the individual work plan of the teacher (hereinafter IWPT). When filling out the IWPT, the teacher is guided by the time standards for calculating the volume of academic work approved by the Senate decision (Senate Decision of 04/05/2023), the average teaching load of the Academic staff, the instructions of the head of the department on the types and volume of academic workload and the implementation of other sections of the plan. All types of IWPT work, with the exception of academic work, are planned by the teacher for the calendar year and approved by the head of the department at a department meeting. Academic work is planned for the academic year.

The distribution of types of activity is carried out on the basis of job descriptions, in which 20% is for scientific work, 70% for academic work, and 10% is for the public activities of the university. The share of types of academic work in residency is distributed as follows: classroom - 20%, work with a clinical mentor - 70%, and 10% for the independent work of the resident. The average teaching load of the Academic staff implementing the EP in residency is reviewed annually, which amounted to 650 hours for the Academic staff for the 2023-2024 academic year, and 1,500 hours for clinical mentors. (Senate Decision of 04/05/2023, Protocol No. 8).

The full-time employees of the department, including clinical mentors, systematically undergo advanced training in educational, clinical, and scientific areas of activity. In order to stimulate the scientific activity of the teaching staff, incentive bonuses are established for the publication of scientific papers in journals with an impact factor of more than 1, in international peer-reviewed scientific publications (indexed in the Web of Knowledge; Scopus). Additional payment is paid for teaching classes in English to the Academic staff with an IELTS certificate (5.5 points and above) or TOEFL (525 points and above) in the amount of 100% of the BDO (including external part-time workers (master's students, doctoral students)).

Support is provided to young teachers under 30 years of age in the form of a monthly incentive payment.

For achievements in professional activities, employees are awarded with certificates of honour, letters of thanks, medals and awards. Information on the results of work assessment and recognition of achievements in all types of activities is presented at meetings of the Senate, on the university website and in the periodical "MEDIK".

The conducted personnel policy allows maintaining a balance between the ratios of academic and professional qualifications of teachers, ensuring the quality of the educational process.

In the educational organization, there is an opportunity for career growth and development of teacher competencies - 84% of the surveyed teachers completely agree, 16% partially agree with this. 84% of respondents studied in professional development programs during the given year, 16% from 1 to 5 years. The organization implements social support programs for teachers - 64% answered that "yes, such programs exist", 28% of respondents do not know about this, 4% are unsure about the answer.

**Conclusions of the EEC on the criteria. Compliant with 8 standards (including 7 basic, 1 Standard improvement): fully -6/1, partially 1/0**

### **Recommendations for improvement:**

- 1) For effective teaching and learning, to consider the teacher-resident ratio of 1:3 – 5.1.1

## **Standard 6: EDUCATIONAL RESOURCES**

### **6.1 Material and technical support and equipment**

Medical University of Karaganda has sufficient material and technical base, allowing to create all

conditions for training qualified specialists with achievement of final outcomes and competencies in EP 7R01116 – “General Surgery”

The total area of the main academic buildings of the University is 29160.6 sq.m., the area of the dormitories is 30162.9 sq.m., the area of the Clinic of the Medical University is 2122 sq.m. Lecture halls and classrooms are equipped with multimedia support, with Internet access and modern computers. At the clinical base, residents undergo primary safety training with confirmation of this training in the Safety Journal of the specialized departments. The library plays a leading role in providing residents with information resources, the total area of the library is 1526 sq.m., the area of the book storage is 941.6 sq.m. The number of seats in the reading rooms is 443 seats. The library structure includes: acquisition department, bibliography department, scientific and educational literature service department (consists of scientific literature subscription, two educational literature subscriptions, a reading room and a periodicals room, an electronic resources room, an interactive room). The library's computer park consists of 113 computers, including 88 thin clients (TC), 21 personal computers (PC) are located in the library departments, 4 PCs and 63 TCs are in the electronic resources room and 25 TCs are in the interactive room, the entire computer park is connected to the INTERNET. Wi-Fi zone is distributed throughout the library. There are 2 scanners installed for users in the electronic resources room. The interactive room is equipped with a short-focus projector. For students, there is a Research Fellow's Room equipped with 15 computers connected to the Internet, which allows access to all information resources of the university. The library of the MUK has 2 information kiosks, with the help of which users can make an electronic order for the necessary literature from the electronic catalogue based on the WEB-IRBIS module. The total fund of the university library as of 01.11.2022 is 450,374/42,710 (copies / titles) and meets the requirements for literature provision. For the implementation of the educational process in the specialty 7R01116 "General Surgery"), the book supply with basic and additional literature is 100%. Of these, the total number of textbooks, including in the Kazakh language, is 815 copies, scientific literature - 539 copies, periodicals - 10, electronic publications - 10.

Over the past 3 years, there has been a trend towards an increase in subscriptions to educational electronic resources. The volume of the electronic catalogue of the NJSC “MUK” is 83,740 records.

The university has the opportunity to widely use the CSET by residents. The centre can simulate various clinical situations close to the real working conditions of a doctor. It is equipped with simulation equipment and demonstration devices for mastering practical skills in the specialty, as well as providing emergency care in the practice of an internist: a virtual ultrasound simulator with a LiveScan SONOSIM sensor, mannequins for practicing rectal skills, installing a nasogastric tube, gastric lavage, a SimMan patient simulator with software for performing intensive care skills in various clinical situations, phantoms for practicing catheterization skills of peripheral and central (Nasco, LF01012U) veins in adults and children, oro- and nasotracheal intubation of the trachea in adults. Residents have access to the electronic patient database Damumed, which is provided by the clinical base. Individual logins and passwords for access to IMIS are issued to residents employed by resident doctors in medical and preventive institutions.

Satisfaction of students and teachers with the material and technical support of the educational process is analysed annually based on the results of the questionnaire.

## **6.2 Clinical bases**

The clinical bases involved in the implementation of the EP "General Surgery" have round-the-clock multidisciplinary hospitals, including emergency and planned surgery departments, day hospitals, clinical and biochemical, immunological, bacteriological laboratories, centres/offices of functional and ultrasound, radiation diagnostics, computed tomography rooms, endoscopy, equipped with the appropriate modern equipment and the necessary conditions for training residents. Residents master the skills of providing specialized care at the outpatient level during outpatient appointments in the offices of a surgeon of the University Clinic, Regional Clinical Hospital, Multidisciplinary Hospital No. 1, Multidisciplinary Hospital named after prof. Makazhan, Temirtau Central Hospital, Balkhash Central Hospital.

Clinical supervision of residents is provided by clinical mentors, who are heads of surgery departments and experienced general surgeons with more than 5 years of experience in the specialty, and have the highest and first qualification categories. A significant portion of residents in the specialty



"7R01116-General Surgery" are employed at clinical sites as resident physicians, surgeons at 0.5 rates. Of the 2nd year residents - 100%, 3rd year - 95% are employed. Residents have the opportunity to broadly master skills according to the educational trajectory under the guidance of clinical mentors while working in departments during the daytime and during night shifts (at least 4 mandatory shifts per month according to the Regulation on Residency). Residents record all their achievements and reflect them in a portfolio (evaluation sheets), certified by clinical mentors and curators.

The clinical bases of the EP "7R01116 - "General Surgery" have a sufficient number of patients with various surgical nosologies in specialized departments, covering the entire topic of the educational programme. Residents have the opportunity to freely access the electronic resources of hospitals under the guidance of clinical mentors, fully master the integrated medical information system (IMIS).

### **6.3 Information technology**

The main information platform for obtaining the necessary information on the educational process for residents of all courses and specialties is the Student Portal, an additional information resource is the "Platon" platform for obtaining information on the results of current and final academic performance

Residents and teachers have access to educational electronic resources. Users are informed by sending information to the corporate Outlook mail, as well as posting information on the MUK website, the MUK Portal, the MUK Student Portal, a page on the Instagram social network and the Telegram messenger. The MUK website has a "Library" section in Kazakh, English and Russian. The library also provides feedback to readers on the Student Portal and Telegram bot, where students can ask questions, view the calendar of events, documents, instructions and videos on working with electronic resources, etc. Every year, the library conducts monitoring (questionnaires) of all categories of readers on the quality of using the reference and search apparatus, as well as on issues of improving and expanding the database of information resources of the MUK library.

### **6.4 Clinical teams**

At the MUK, residents have the opportunity to learn teamwork skills with colleagues and other healthcare professionals, while working in clinical and diagnostic units equipped with the necessary equipment in sufficient quantity to carry out the required manipulations.

Residency students participate as listeners during consultations, carry out instructions from senior colleagues within their competence. Students have free access to patients at clinical sites and all the conditions for improving their practical skills.

In the questionnaire, residents noted that they have free access to patients at clinical sites and all the conditions for improving their practical skills - 96% of teachers completely agree with this, 4% partially agree.

### **6.5 Medical scientific research and achievements**

The university's research activities are currently carried out in the educational programme provides for mandatory mastering of research skills. The introduction of scientific foundations and methodology of medical research in the EP is carried out on the basis of the Law of the Republic of Kazakhstan "On Science", "Development Program of the Non-Commercial Joint-Stock Company "Medical University of Karaganda" for 2019 - 2023", one of the areas of which is Leadership in Research (6.3.1 Development Program of NJSC "MUK" for 2019-2023), "Development Program of NJSC "Medical University of Karaganda" for 2024-2028".

As part of the implementation of this direction, a program for the development, support and promotion of university researchers is being developed and implemented through the involvement of students, interns, residents, young scientists under 35 years of age in the implementation of research programs and projects. The topics of research projects are selected by the resident in the first year of study with the help of a curator and clinical mentor, and then the topic is approved at a department meeting.

As part of the implementation of R&D, residents conduct an analysis of literary sources during the IWR, working in the library using electronic resources. The Academic staff provides advisory assistance in the performance of R&D by residents, which allows them to improve the skills of conducting scientific

research and statistical processing. Thus, the formation of skills in the field of scientific research methodology among residents allows them to critically evaluate medical information for rational use in practical activities. The provided access to the clinical databases of the department makes it possible to work with case histories during the collection of clinical material. Sufficient material and technical base of NJSC "MUK" (library collection, electronic resources, access to a shared laboratory, etc.) contribute to the implementation of R&D by residents and the formation of the skill of conducting scientific research with possible further application of this knowledge upon admission to PhD doctoral studies. Thus, a graduate of 2021 Duisenov G.N. has been a doctoral student at NJSC "Astana Medical University" since 2023, a graduate of 2022 Grigolashvili S.G. and 2023 graduate Urazbaev N.K. are doctoral students of the NJSC "Medical University of Karaganda" of the 2nd and 1st year, respectively. Resident of the 2023-2024 class Bayakhmetov I.M. plans to enter doctoral studies after completing his residency.

Upon completion of training, residents present the results of their research activities at scientific conferences and in the form of publications.

The examination is carried out in the form of an analysis of the need for specialists, an analysis of resident training methods, and the results allow us to draw conclusions about the quality of innovative changes in postgraduate education. For example, all residency graduates are 100% employed and have positive characteristics as specialists.

Every year, leading specialists are encouraged by certificates, cash bonuses, and various awards from the University, the Ministry of Health of the Republic of Kazakhstan, and the government based on the results of their clinical, scientific and pedagogical work.

### **6.6 Expertise**

The examination is carried out at the stages of development, approval and updating of the EP. The policy and procedures for the examination of the EP are regulated by the Regulation on the Management of the EP of the NJSC "MUK". The EP for residency areas is developed by the head of the EP in accordance with the National Qualifications Framework, professional standards, Dublin descriptors and the European Qualifications Framework. The examination of the EP Concept is carried out by the Academic Committee of the Senate of the NJSC "MUK". The EP undergoes an internal examination in the Quality Assurance Commission under the SR&PD. The composition of the commission is approved at a meeting of the school and includes faculty from the school, representatives of practical healthcare (employers) and residents. Residency EPs are approved by the Board. EPs are included in the USHEM upon approval by external expert reviewers.

All stakeholders, including students and employers, are involved in the process of developing the EP and monitoring educational activities within the EP.

In NJSC "MUK", an effective continuous mechanism for internal quality assessment and examination of the EP has been formed, ensuring control over the implementation of the curriculum and the tasks set, as well as feedback for their improvement. In order to ensure high-quality implementation of the EP, the university's Academic staff is constantly working to improve the content of the EP, conducting their analysis with review by leading specialists in the field of pulmonology.

### **6.7 Training in other institutions**

One of the main processes of the Bologna Declaration and one of the important aspects of the process of integrating Kazakhstani universities and science into the international space is academic mobility. The university has developed and approved the "Regulation on the organization of academic mobility" ("Academic Policy" of NJSC "MUK", section 7-7).

NJSC "MUK" is included in the Directory of Medical Schools "Avicenna" of the World Health Organization and the World Federation for Medical Education. NJSC "MUK" is a member of the Association for Medical Education in Europe (AMEE), the Association for the Study of Medical Education (ASME), the Organization for the Protection of PhD in Biomedicine and Health in the European System (ORPHEUS), the European University Association (EUA), the Organization for University Mobility in Asia and the Pacific (UMAP), the International Association for the Development of Education (IADE), the Association of Higher Education Institutions of the Republic of Kazakhstan, the Association of Medical Education in Asia (AMEA).

In 2016, a memorandum of cooperation was signed with Lund University, Sweden.

Every year, more than 300 students take part in international scientific conferences and research. Thus, on the initiative of the university, the Central Asian International Conference on Medical Education has been held since 2012.

The university participates in the implementation of republican programs and projects of scientific research in the field of health care, international multicentre studies SMART, METALL, UTIAP. However, when talking with teachers and residents of the EP "7R01116 - "General Surgery", academic mobility in this EP is poorly developed.

**Conclusions of the EEC on the criteria. Compliant with 18 standards (including 11 basic, 7 improvement standards): fully - 10/7, partially 1/0**

**Recommendations for improvement:**

- 1) To ensure academic mobility of residents and teachers of the EP "General Surgery" - 6.7.1

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

### **7.1 Monitoring and evaluation mechanisms**

At NJSC "MUK", the evaluation and monitoring of the EP is carried out in accordance with the regulation on the Academic Policy (approved by the Senate on 08/27/2021), the Regulation on the management of the educational programme (dated 09/09/20 amend. 14, amended on 01/11/21 amend. 1). The monitoring system is a continuous multi-level process that covers the assessment of all areas affecting the quality of the EP.

The EP monitoring mechanism includes several stages: planning, data collection, analysis/conclusions, and necessary improvements with subsequent monitoring of changes. In accordance with the Academic Policy of NJSC "MUK", all university structures involved in the implementation and quality management of the EP participate in the EP monitoring. Each stage and level in the EP quality assurance system is regulated by the relevant regulatory documents. The decision on the management of the educational programme is assigned to the school councils, the quality of the EP is ensured by the participants in its implementation: the Dean of the School, the Head of the EP, module coordinators responsible for the discipline, heads of departments, teachers. Since the 2020-2021 academic year, the EP Quality Assurance Commission has been created, the main function of which is to monitor the implementation of the educational programme and evaluate the satisfaction of all stakeholders (Regulations on the EP Management).

One of the mechanisms for continuous monitoring and improvement of the EP is the systematic survey of teachers, students and employers. The results obtained are discussed at meetings of the department, Schools, meetings of the Academic Committee, the University Senate.

### **7.2 Feedback from teachers and residents**

Teachers and residents have the opportunity to participate in the evaluation and subsequent improvement of the educational programme on a regular basis through various feedback channels.

Feedback from consumers is supported in each structural unit. The University's advisory bodies (SR and PD, Quality Assurance Commission) have due representation of stakeholders in the evaluation of the educational process and the final results of resident training programs, members of the SR and PD, the Commission participate in the discussion, review of the developed EP, monitor the EP in order to identify weaknesses for subsequent corrective measures and improvement of the EP.

For feedback from teachers and residents, the blog of the Chairman of the Board is used, where students and employees of the University receive answers to their questions about the conditions for the implementation of the educational programme.

### **7.3 Results of residents and graduates**

The percentage of graduates employed in the specialty "General Surgery" was 100%. In a survey conducted in 2023, 226 employers (100% response rate), including 7 in the specialty "General Surgery", noted that the level of achievement of the necessary competencies by graduates in the EP "General

Surgery" was 5 points; 100% of employers noted that graduates have a sufficient level of knowledge and skills to perform their duties efficiently and effectively; not a single employer rated the quality of training as low.

#### **7.4 Stakeholder Involvement**

Stakeholders are involved in the monitoring process by receiving ongoing feedback in the form of questionnaires, participation in various events (young scientists' competitions, participation in conferences).

Additionally, boxes for complaints and suggestions are placed. The feedback results are analysed and discussed at meetings of the SR and PD, departments, and the Senate. The feedback results are taken into account when planning work to improve the EP.

The interview with employers was conducted offline. The overall share of employer satisfaction is 92%. Based on the survey results, it can be concluded that respondents are satisfied with the training of NJSC "MUK" graduates; NJSC "MUK" graduates have sufficient knowledge, skills, and competencies. The respondents gave Recommendations for improving the quality of training in terms of practical classes, increasing the number of hours in specialized disciplines and practical skills, especially the development of communication and manual skills. It was also recommended to expand the volume of training with foreign organizations (master classes, trainings) and international cooperation with other universities.

#### **7.5 Procedure for approving educational programmes**

NJSC "MUK" has developed mechanisms for approving educational programmes that provide for the evaluation of programs at the stages of planning, implementation, analysis of results, and implementation of changes, which allows monitoring the process of implementing the educational programme and the progress of residents, and ensures the identification and timely resolution of emerging problems.

The policy and procedure for the examination of the EP are regulated by the Regulation on the management of the educational programme of NJSC "MUK". The examination of the Concept of the EP is carried out by the Academic Committee of the Senate of NJSC "MUK", and the internal examination of the EP is carried out by the Quality Assurance Commission at the School of Residency and Professional Development.

**Conclusions of the EEC on the criteria. Comply with 10 standards (including 7 basic, 3 improvement standards): fully - 7/3.**

**Recommendations for improvement: no**

### **Standard 8: MANAGEMENT AND ADMINISTRATION**

#### **8.1 Management**

In accordance with license No KZ32LAA00016018 dated 06.05.2019 in the direction 7R091 "Healthcare (medicine)", the implementation of residency educational programmes is carried out.

The educational programme is managed in accordance with:

- the Law of the Republic of Kazakhstan - "On Education" (Government Resolution of July 27, 2007 No. 319-III LRK),
- Order of the Minister of Education and Science of the Republic of Kazakhstan No. 595 - "On approval of the Model rules for the activities of educational organizations of the corresponding types",
- Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 - "On approval of the Model rules for admission to training in educational organizations implementing educational programmes of higher and postgraduate education",
- Order of the Minister of Health of the Republic of Kazakhstan No RK MOH-249/2020 - "On approval of the rules for assessing the knowledge and skills of students, assessing the professional readiness of graduates of educational programmes in the field of health care and specialists in the field of health care",
- SCES;

Internal documents:

- Academic Policy of NJSC “MUK”,
- Regulation on the Management of the Educational programme,
- Regulation on Residency.

The Academic Policy of NJSC “MUK” defines the internal selection criteria and their rules, according to the rating system of academic performance assessment; conducting midterm assessment; rules for final assessment; rules for granting students’ academic leave; rules for transfer, expulsion and reinstatement; organization of academic mobility; rules for issuing duplicate documents; rules for organizing the educational process using distance learning technologies; rules and procedure for checking works for originality; rules for recognizing the results of formal and informal training; rules for awarding scholarships and vacant educational grants, rules for assessing the achievements of students.

The procedure for admitting students is regulated by Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600, and an internal regulatory document - the Policy for Admission of Students to NJSC “MUK”, approved on 05/27/2022 at a meeting of the Board of Directors. The procedures for admission and selection of residents are described in detail in Standard 4.

The EP is managed on the basis of the Regulation on the management of the educational programme in NJSC "MUK" (09.09.2020, pr. 14 of the Board meeting).

Control and monitoring of the implementation, execution of programs is carried out by the SR and PD under the supervision of the Vice-Rector for Scientific and Clinical Affairs (Organizational structure dated 03.10.2022, pr. 40 of the Board of Directors).

Assessment of residents and achievement of final learning outcomes is carried out on the basis of an independent examination.

Completion of the training of a resident physician is documented by the Department of Academic Affairs in the form of assigning a specialist qualification in the relevant educational programme and issuing a specialist certificate.

In accordance with Article 39 of the Law of the Republic of Kazakhstan "On Education" No. 319-III dated July 27, 2007 ([https://online.zakon.kz/Document/?doc\\_id=30118747&pos=3;-106#pos=3;-106](https://online.zakon.kz/Document/?doc_id=30118747&pos=3;-106#pos=3;-106)) and the order of the Minister of Education and Science of the Republic of Kazakhstan dated January 28, 2015 No. 39 "On approval of types of educational documents, forms of educational documents of the state sample and the rules for their registration and issuance, the main requirements for the content of educational documents of their own sample and the rules for their registration and issuance, as well as the form of a certificate issued to persons who have not completed education in educational organizations" upon completion of postgraduate training programs and receiving a positive assessment of the final certification, students in the programme 7R01116 - "General Surgery" are issued a "Certificate of Completion of Residency" of the state sample with the award of the qualification of physician - surgeon.

Ensuring the quality of the educational process in residency is determined by the fulfilment of mandatory requirements for the level of training (State Compulsory Educational Standards, EP), the creation of a system for monitoring the effectiveness of the Academic staff and the implementation of the resident's individual educational plan. Monitoring the quality of the educational process is carried out by the School Quality Assurance Commission, heads of educational programmes, and the School.

## **8.2 Academic Leadership**

In NJSC “MUK”, the governing body is the Board of Directors, the executive body is the Management Board: Chairman of the Management Board - Rector, Vice-Rector for Academic Affairs, Vice-Rector for Strategic Development and International Cooperation, Vice-Rector for Research and Clinical Affairs, Managing Director.

The Management Board is responsible for financial and economic activities, the safety of the university's property, for organizing the fight against corruption, and resolves issues related to the university's activities in accordance with its competence, determined by the legislation of the Republic of Kazakhstan and the Charter of NJSC “MUK”. The composition of the members of the Management Board is approved by the Board of Directors.

One of the collegial representative bodies is the School Council (Regulations on the School

Council dated 26.08.2019, pr. 8 of the Management Board), which organizes its work under the leadership of the Dean of the School. The School Council includes: the dean, deputy deans, teaching staff - 60%, employers - 20% and students - 20%. The main functions of the School Council are: consideration and approval of strategic directions for the development of the school, including the opening of new educational programmes for the training of specialists, consideration and examination of the educational programme, working curricula, determination of forms of end-of-course assessment in agreement with departments / heads of educational programmes and other functions.

The School Council approves the School Quality Assurance Commission (QACS) and acts on the basis of the regulation on the management of the educational programme. QACS is an advisory body and is in direct interaction with the School Council. The purpose of the QACS: examination of the content and conditions of the EP implementation, assessment of compliance with the assessment policy, analysis of student satisfaction regarding the quality of the EP and/or disciplines/modules, the presence of facts of violation of academic integrity.

The purpose of the University Senate: consideration, submission of proposals and approval of documents on issues of educational, research, clinical activities of the university; creation of the necessary conditions for students and the faculty of the university; definition of the concept of the development program for scientific, educational and clinical activities of the university.

The main educational, research and clinical units that train residents - departments, manage the educational process to ensure the quality of the services provided based on a competence-oriented approach, as well as conduct training.

*To the question in the questionnaire "Do the organization's managers listen to your opinion regarding issues related to the educational process, research, clinical work?", 72% of teachers answered that they do so systematically, 24% answered "sometimes", 4% - no answer.*

### **8.3 Budget for training and resource allocation**

The budget of NJSC "MUK" is formed from several sources: the republican budget (state order for the training of personnel for higher and postgraduate education, advanced training of medical workers, development of scientific research, transfers); local budget; provision of paid educational and other services.

Financial matters in NJSC "MUK" are supervised by the Managing Director and structural divisions responsible for budget management: the Department of Economics and Finance, the Department of Public Procurement. The financing of the EP depends on the formation of the annual state order. Every year, the Decree of the Government of the Republic of Kazakhstan approves the state educational order for the training of specialists with higher and postgraduate education, and in accordance with the Order of the Acting Minister of Health of the Republic of Kazakhstan dated January 19, 2021 No RK MOH-6 "On approval of the methodology for forming the cost of training in educational programmes in the field of health care", a financial and economic calculation of the cost of training students within the framework of the state educational order is carried out.

NJSC "MUK" forms a University Development Plan, which is reviewed by the Management Board and approved by the Board of Directors for 5 years, and the plan is adjusted annually depending on changes in the needs of the departments and the university.

The financial condition of NJSC "MUK" is characterized as stable and sufficient for the implementation of educational activities, no arrears in wages to employees are allowed, the share of wages in the university's expenses is consistently high, employees are paid remuneration, a social package is provided: discounts on advanced training, retraining, training in a master's degree and for children of employees, as well as discounts on medical care and recreation areas.

### **8.4 Administration and management**

NJSC "MUK" has the appropriate administrative and management staff (95) and Academic staff (987), the total number is 1082 employees, excluding auxiliary persons, of which 279 are men, 803 are women; part-time workers - 348. The management structure of the University assumes the effective implementation of the educational programme, effective management, and timely provision of the

necessary educational resources.

Requirements for Academic staff when elected to vacant positions are determined by job descriptions and the Charter of NJSC "MUK". The University has developed and approved regulations on structural divisions (school, department) and job descriptions of the university Academic staff.

The University staffing table is approved by the University Board of Directors, and the annual academic load of the University and departments is approved by the Senate upon the submission of the Department of Academic Affairs. The total number of Academic staff is formed based on the average ratio of students and teachers: master's degree - 1:6, doctoral degree - 1:4, residency - 1:5, 1:10 (depending on the course). The calculation of the teaching load of the teaching staff is carried out in accordance with the Model Rules for the Activities of Higher Education Organizations and the state compulsory educational standard, and in residency it is 650 hours per year.

The Academic staff of NJSC "MUK" specialty 7R01116 - "General Surgery" together with the Republican Centre for Disease Control of the Ministry of Health of the Republic of Kazakhstan actively participates in the development and implementation of clinical protocols for the diagnosis and treatment of various diseases, professional standards in the specialty. Internal assessment of the quality of education is implemented in the processes of internal audit (QMS), self-assessment (accreditation), fulfilment of key performance indicators (KPI), which leads to continuous improvement and self-improvement.

Representatives of practical healthcare are included in the advisory bodies (School Council, School Quality Assurance Commission, and Senate) for the development of residency programs, their improvement, and have the right to vote when making changes, suggestions and comments to the educational process, as well as when approving the EP for residency.

Cooperation with the healthcare sector is carried out on the basis of the conclusion of the General Agreement between the Health Department of the Karaganda Region and the NJSC "MUK", agreements concluded between the NJSC "MUK" and the chief physicians (directors) of healthcare organizations. Official status of cooperation with partners in the healthcare sector is given through the conclusion of perpetual memorandums and agreements with clinical bases for organizing training, as part of the implementation of the EP.

## **8.5 Requirements and regulations**

The medical organization follows the recommendations of national authorized bodies that establish the number and list of recognized residency specialties, for the preparation of which postgraduate education programs are developed.

The mechanism of interaction of NJSC "MUK", as a medical higher education institution, with authorized bodies (the Ministry of Health of the Republic of Kazakhstan, the Ministry of Higher Education of the Republic of Kazakhstan) and the healthcare sector is regulated by the LSI specified in paragraph 8.1.1 of this standard.

Interaction of NJSC "MUK" with the Ministry of Health of the Republic of Kazakhstan, the Ministry of Higher Education of the Republic of Kazakhstan on issues of organizing the educational process in residency is carried out through the implementation of state LSI.

**Conclusions of the EEC on the criteria. Compliant with out of 11 standards (including 8 basic, 3 improvement standards): fully – 8/3.**

**Recommendations for improvement: no**

## **Standard 9: CONTINUOUS RENEWAL**

NJSC "MUK" initiates procedures for: - regular review and updating of the organizational structure; - the process of training residents, structure, program content, learning outcomes/competencies, assessment of knowledge and skills, learning environment; - improving management. The university corrects deficiencies, allocates resources for continuous improvement in order to adapt to changing circumstances and needs in postgraduate education, as well as taking into account the opinions and interests of various stakeholder groups, which are reflected in the Development Program of NJSC "Medical University of Karaganda" for 2024-2028, approved on December 11, 2023 by the Decree of the Government of the

Republic of Kazakhstan No. 1105 (<https://adilet.zan.kz/rus/docs/P2300001105>).

In 2019, when developing 7R01116 - "General Surgery", the final results and competencies of residents were reviewed and analysed, taking into account modern trends in the development of diagnostics and treatment in nephrology. At the beginning of the academic year, syllabuses are reviewed and changes are made to improve the educational programme, control forms are revised annually, test questions and written assignments are updated by 30% taking into account new concepts of diagnosis and treatment. Thus, in the 2021-2022 academic year, interim certification of residents was introduced in the form of portfolio defence at the end of the academic year. Monitoring of current academic performance is carried out and discussed monthly at a meeting of the department, the Council of the SR and PD. The results of the interim certification at the end of the academic year and the results of the independent examination of the NCIE are also discussed at meetings of the department, the Council of the SR and PD and the Senate. The results of the analysis, recommendations of the certification committee determine the need to improve the educational programme.

The library stock is constantly updated with basic and additional literature in three languages (Kazakh, Russian, and English). The Academic staff actively participates in scientific projects, grant research, scientific and technical programs within the framework of Grants of the Ministry of Education and Science of the Republic of Kazakhstan, as well as intra-university competitions for Grants. Continuous improvement of the educational process in residency in the specialty 7R01116 - "General Surgery" helps to modernize the EP and graduate well-trained specialists in demand in various regions of the Republic of Kazakhstan.

**Conclusions of the EEC on the criteria. Comply out of 2 standards (including 1 basic, 1 Standard of improvement): fully - 1/1.**

**Recommendations for improvement: no**

#### **CONCLUSION:**

During the external evaluation of the educational programme, it was found that out of 114 standards (including 81 basic standards and 33 improvement standards), 106 standards for accreditation demonstrate full compliance, including 75 basic standards and 31 improvement standards. 4 (3.5%) basic, 4 (3.5%) improvement standards are partially fulfilled. No discrepancies in standards have been identified.

#### **Strengths:**

1. The status of a research university allows for greater integration of education, science and practice in accordance with its mission.
2. Digitalization of the resident assessment process and commitment to the principles of academic integrity.
3. Availability of an information system for monitoring and evaluating the activities of the Academic staff and connection with the motivation system.
4. Organization of simulation training based on the CSET, which has international recognition (ASPIRE award from the AMEE Association for Medical Education in Europe, entry into the international SESAM and SSH registries)
5. High quality of education, confirmed by the results of an independent assessment of the knowledge and skills of NCIE graduates.
6. Effective management of the university's activities due to organizational, financial, personnel and academic autonomy and developed corporate governance.
7. Regular participation of the university in major international projects, conferences on medical education and partnership with leading foreign universities ensures constant monitoring of current trends and adaptation of internal processes to modern standards, providing the university with a noticeable competitive advantage.



**5. Recommendations for improvement of the educational programme 77R01116 "GENERAL SURGERY" of the NJSC " Medical University of Karaganda ":**

- 1) To develop and implement a catalogue of electronic disciplines on research management for surgical residents (1.1.6).
- 2) To ensure the participation of key and other stakeholders in the development of the mission of the educational programme (1.4.1)
- 3) To develop a catalogue of electronic disciplines for the educational programme 7R01116 - "General Surgery" on the scientific foundations and methodology of medical research (2.2.1).
- 4) To involve external examiners and employees of clinical sites in the assessment of surgical residents (3.1.6).
- 5) To involve the most active residents in the process of developing the policy for admission and selection of new residents (4.1.6).
- 6) For effective teaching and learning, to take into account the teacher-resident ratio of 1:3 (5.1.1).
- 7) To ensure academic mobility of residents and teachers of the educational programme "General Surgery" (6.7.1).

## 6. Recommendation to the ECAQA Accreditation Council

The members of the EEC came to a unanimous opinion to recommend that the ECAQA Accreditation Council to accredit the educational programme **7R01116 "General Surgery" of the NJSC "Medical University of Karaganda"** for a period of 5 years.

	Full name	Signature
Chairman	Zhanalina Bakhyt Sekerbekovna	
International Expert	Nasyrov Ruslan Abdullaevich	
International Expert	Troinich Yana Nikolaevna	
Academic Expert	Zhumalina Akmaral Kanashevna	
Academic Expert	Madyarov Valentin Manarbekovich	
Academic Expert	Nugmanova Aigul Maratovna	
Academic Expert	Apbasova Saulesh Akhatovna	
Academic Expert	Yesetova Gulstan Utegenovna	
Academic Expert	Sadykova Ainur Maralovna	
Academic Expert	Tuksanbaeva Gulfariza Usenbaevna	
Academic Expert	Iztleuov Yerbolat Maratovich	
Academic Expert	Pak Laura Alekseevna	
Academic Expert	Kamhen Vitaly Bronislavovich	
Employer Expert	Daniyarova Bayan Lashinovna	
Student Expert	Dyusembek Nazira Askerbekkyzy	

Приложение 1.

Профиль качества и критерии внешней оценки образовательной программы  
77R01116 «ОБЩАЯ ХИРУРГИЯ» НАО «Медицинский университет Караганда»  
(обобщение)

Стандарт	Критерии оценки	Количество стандартов	БС*/СУ	Оценка		
				Полностью соответствует	Частично соответствует	Не соответствует
1.	<b>МИССИЯ И КОНЕЧНЫЕ РЕЗУЛЬТАТЫ</b>	14	9/5	8\4	1\1	
2.	<b>ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА</b>	22	19/3	17\4	1\0	
3.	<b>ОЦЕНКА РЕЗИДЕНТОВ</b>	9	6/3	5\3	0\1	
4.	<b>РЕЗИДЕНТЫ</b>	20	14/6	13\5	1\1	
5.	<b>АКАДЕМИЧЕСКИЙ ШТАТ/ПРЕПОДАВАТЕЛИ</b>	8	7/1	6\1	0\1	
6.	<b>ОБРАЗОВАТЕЛЬНЫЕ РЕСУРСЫ</b>	18	11/7	10\7	1\0	
7.	<b>ОЦЕНКА ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММЫ</b>	10	7/3	7\3		
8.	<b>УПРАВЛЕНИЕ И АДМИНИСТРИРОВАНИЕ</b>	11	8/3	8\3		
9.	<b>НЕПРЕРЫВНОЕ УЛУЧШЕНИЕ</b>	2	1/1	1\1		
		114	81/33	114		

**Список документов, изученных членами ВЭК в рамках проведения внешней оценки образовательной программы резидентуры:**

1. Отчет по самооценке ОП «Общая хирургия»
2. Приложения к отчету по самооценке ОП «Общая хирургия»
3. Академическая политика НАО «МУК»
4. Балльно-рейтинговая буквенная система оценки учебных достижения
5. Приказы по академической мобильности НАО «МУС»
6. Приказы по выездной хирургии
7. График тренировок ГО и ЧС
8. Индивидуальный план работы резидента
9. Кадровая политика НАО «МУК»
10. Каталог элективных дисциплин
11. Квалификационные требования к ППС
12. Контрольно-измерительные средства
13. Договора с клиническим базами
14. Кодекс академической честности
15. Лицензия на право ведения образовательной деятельности
16. Средняя педагогическая нагрузка ППС
17. Нормы времени для расчета объема учебной работы
18. Приказ об утверждении профессиональных стандартов в области здравоохранения
19. Образовательная программа «Общая хирургия»
20. Оценка удовлетворенности работодателей
21. Оценочные листы резидента
22. Приказ об утверждении руководителей ОП
23. Планирование научной работы резидента
24. Сертификаты клинических наставников
25. Положение о резидентуре НАО «МУК»
26. Положение об управлении образовательной программой в НАО «МУК»
27. Правила приема сотрудников при трудоустройстве
28. Правила присвоения звания «Лучший преподаватель ВУЗа НАО «МУК»»
29. Приказы о переводе резидентов из другого ВУЗа
30. Расписание занятий
31. Рабочие учебные планы (РУП) Общая хирургия 2023-2026 уч.год.
32. Справки с мест трудоустройства 2-3 курса
33. Журнал по технике безопасности
34. Списки трудоустроенных выпускников
35. Формы резидентуры
36. Выписки и заседания кафедры
37. Силлабусы за 1,2,3 курсы
38. Выписка заседания кафедры за ноябрь 2023
39. Информация по резидентам 1,2,3 курсов
40. Отчет о работе кафедры хирургических болезней за 2022-2023 гг.
41. План работы кафедры хирургических болезней на 2022-2023 гг.
42. План работы кафедры хирургических болезней на 2023-2024 гг.
43. Пример индивидуального плана работы преподавателя
44. Отчет о планировании по поступления на послевузовское образование профессорско-преподавательского состава НАО МУК