

To the Accreditation Council of the
Eurasian Centre for Accreditation and
Quality Assurance
in Higher Education and Health Care
26.05.2023

**REPORT
OF THE EXTERNAL EXPERT COMMISSION
BASED ON THE RESULTS OF THE EVALUATION OF THE
EDUCATIONAL PROGRAM
7R01128 “UROLOGY AND ANDROLOGY IN ADULT, CHILDREN”
KARAGANDA MEDICAL UNIVERSITY NJSC
FOR COMPLIANCE WITH THE STANDARDS OF ACCREDITATION OF
POSTGRADUATE EDUCATION PROGRAMS (RESIDENCY SPECIALTIES)
IN THE MEDICAL EDUCATIONAL ORGANIZATIONS**

External expert assessment period: May 24-26, 2023

Karaganda, 2023
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LIST OF DESIGNATIONS AND ABBREVIATIONS:

Abbreviation	Designation
AC	Academic Committee
AC	Academic Committee
AP	Academic Policies
HEI	Higher Education Institution
SCES	State Compulsory Educational Standard
DAA	Department of Academic Affairs
DET	Distance Education Technologies
DIID	Department of Informatisation and Infrastructure Development
HRMD	Human Resources Management Department
UHEMS	Unified Higher Education Management System
ECAQA	Eurasian Centre For Accreditation and Quality Assurance in Higher Education and Health Care
FAC	Final Attestation Commission
FA	Final Attestation
IEP	Individual Education Plan
IWP	Individual Work Plan
SC	Selection Component
IHIS	Integrated Healthcare Information System
CED	Catalogue of Elective Disciplines
MH	Ministry of Health
LEB	Local Executive Board
MES	Ministry of Education and Science (now Ministry of Science and Higher Education)
NJSC	Non-Commercial Joint Stock Company
KMU NJSC	Karaganda Medical University Non-Commercial Joint Stock Company
NCIE	National Centre for Independent Examinations
OCCH	Oblast Children's Clinical Hospital
OCH	Oblast Clinical Hospital
EP	Educational Program
PSA	Practical Skills Assessment
ICU	Intensive Care Unit
TRA	Tolerance Rating Assessment
OSCE	Objective Structured Clinical Examination
PS	Principal Subject
PHC	Primary Health Care
HETP	Higher-Education Teaching Personnel
RK	Republic of Kazakhstan
WC	Working Curriculum
SSS	Student Support Services
IWR	Independent Work of Residents
IWRT	Independent Work of Residents with Teachers
IWRT	Independent Work of Residents with Teachers
EPMS	Employee Performance Management System
TByte	Terabyte
VET	Technical and Vocational Education
MC	Model Curriculum
TP	Teaching Package

CSET	Centre for Simulation and Educational Technologies
SRPD	School of Residency and Professional Development
SRMEE	Association for Medical Education in Europe
CBL	Clinical-based Learning
ECTS	European Credit Transfer and Accumulation System
GPA	Grade Point Average
PBL	Problem-based Learning
RBL	Research-based Learning
TBL	Team- based Learning
ON	Learning Outcomes

1. Composition of the external expert commission

In accordance with ECAQA Order No. 15 dated May 11, 2023, an External Expert Committee (hereinafter - EEC) has been formed to conduct an external evaluation of 7R01123 “Adult and Pediatric Pulmonology” residency educational program in the period of May 24-26, 2023 with the following composition:

No.	Status as part of the EEC	Full name	Academic degree/title, function, place of work/place of study, course, specialty
1	Chairperson	Kudabayeva Khatimya Ilyasovna	Associate Professor, Can.M.Sc., Professor of the Department of Internal Medicine No.1 of Marat Ospanov West Kazakhstan Medical University, NJSC
2	Foreign expert	Ryzhkin Sergey Alexandrovich	Dr. M.Sc., Head of the Department of Radiotherapy and Radiology named after Academician A.S. Pavlov, Head of the Department of Further Professional Education of the Russian Medical Academy of Continuous Professional Development (Moscow), Scientific Secretary of the Department of Medical and Biological Sciences of the Academy of Sciences of the Republic of Tatarstan, accredited expert of the Federal Service for Supervision of Education and Science (Rosobrnadzor)
	Foreign expert	Afrikyan Shushanik Gevorgovna	PhD in Pharmacy/Candidate of Pharmaceutical Sciences, Associate Professor of the Department of Pharmacy, Head of Computerized Examination Organization Department of Yerevan State Medical University named after M. Geratsi, Republic of Armenia
3	Academic expert	Urazova Saltanat Nurgozhayevna	Dr.M.Sc., Head of the Department of Family Medicine No. 3 of Astana Medical University, NJSC
4	Academic expert	Shabdarbayeva Dariya Muratovna	Dr. M.Sc., Professor, Head of the Department of Pathological Anatomy and Forensic Medicine named after Prof. Yu.V. Pruglo of

			Semey Medical University, NJSC
5	Academic expert	Ramazanova Raigul Mukhanbetovna	Dr.M.Sc., Professor of the Department of Internal Medicine, S.D. Asfendiyarov Kazakh National Medical University, NJSC
6	Academic expert	Zhumalina Akmaral Kanashevna	Dr.M.Sc., Professor, Head of the Department of Pediatric Diseases with Neonatology of Marat Ospanov West Kazakhstan State Medical University, NJSC
7	Academic expert	Tuleutayeva Raikhan Yesenzhanovna	Can.M.Sc., Head of the Department of Pharmacology and Evidence-Based Medicine, Semey Medical University, NJSC
8	Academic expert	Baigozhina Zaure Alpanovna	Can.M.Sc., Dean of the School of Nursing, Astana Medical University, NJSC
	Academic expert	Ramazanova Sholpan Khamzayevna	Can.M.Sc., Acting Associate Professor of the Department of Clinical Disciplines, Al-Farabi Kazakh National University
	Academic expert	Yeralieva Bibikhan Abdaliyevna	Can.M.Sc., Assistant of the Department of Clinical Pharmacology of S.D. Asfendiyarov Kazakh National Medical University, NJSC
	Academic expert	Isposunova Gulnara Akhmetkazyevna	Urologist of the highest qualification category, Assistant of the Department of Urology, S.D. Asfendiyarov Kazakh National Medical University, NJSC
	Academic expert	Doshakanova Assel Baidauletovna	Can.M.Sc., Head of the Postgraduate Education Department of Kazakh Order of the “Badge of Honor” Eye Diseases Research Institute, LLP
	Academic expert	Dosanova Asem Kalelovna	PhD, Associate Professor, Department of Pediatric Surgery, Astana Medical University, NJSC
9	Employers' representative	Daniyarova Bayan Lashinovna	Deputy Director for Strategic Development, Regional Clinical Hospital, Department of Health Care of Karaganda region
10	Representative of doctoral students	Orazbay Aknur Daurenkyzy	First-year doctoral student in Biology specialty of Ye.A. Buketov Karaganda University, NJSC
	Residents' representative	Kurak Aidana	First-year resident in Adult and Pediatric Endocrinology specialty at Astana Medical University NJSC

ECAQA observer - Umarova Makpal Aldibekovna, Head of Accreditation and Monitoring Department.

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

The EEC report contains the evaluation of 7R01128 “UROLOGY AND ANDROLOGY IN ADULT, CHILDREN”_ educational program for compliance with the Standards for Accreditation of Postgraduate Education Programs (Residency Specialty) of Medical Education Organizations and Conclusions (hereinafter - Accreditation Standards), EEC recommendations for further improvement of approaches and conditions for implementation of the above educational program and the recommendations for the ECAQA Accreditation Council.

2. General part of the final report

2.1 Presentation of the educational program of the residency in the specialty 7R01128

"Urology and andrology in adult and children"

Name of the organization, legal form of ownership, BIN	Karaganda Medical University Non-profit Joint Stock Company, BIN 190140033600
Management body	Ministry of Health of the Republic of Kazakhstan
Full name of the first head	Turmukhambetova Anar Akylbekovna
Date of creation	1950
Location and contact details	Republic of Kazakhstan, Karaganda, Gogol str. 40, tel. 8-7212-50-06-31
State license for educational activities in residency (date, number)	KZ32LAA00016018 dated May 6, 2019
The year of the start of the accredited educational program (EP)	2012
Duration of training	3 years
The total number of graduates since the beginning of the implementation of the EP	21
The number of residents on the EP since the beginning of the current academic year	15
Full-time teachers/ part-timers involved in the implementation of the YP, including % of the academic degree holders rate	The total number of teachers is 2, including full-time teachers – 2, part-time teachers - 0. Academic degree holders rate, % - 100 Categorization, % - 100%.
Website Instagram Facebook with active pages	www.qmu.kz @officialkmu

Training in the specialty of the educational program 7R01128 "Urology and andrology in adult and children" has been conducted since 2012 in accordance with the license in the direction 7R011 Healthcare (medicine), KZ32LAA00016018 dated May 6, 2019.

In 2020, the educational program in the specialty "Urology and Andrology, including for children" was included in the register of the Unified Higher Education Management System (hereinafter – ESUVO) of MES RK. (http://esuvo.platonus.kz/#/register/education_program/application/24278). In 2021, the educational program was renamed to 7R01128 "Urology and andrology, adult, children" (Order of the Ministry of Health of the Republic of Kazakhstan No. KR DSM 43 dated May 25, 2021).

To meet the needs of urologists-andrologists of the Karaganda region and the Republic of Kazakhstan, training in the specialty 7R01128 "Urology and andrology, adult, children" is carried out both under an educational grant and at the expense of the LEA (local executive authority), at the expense of medical organizations of the Karaganda region and at their own expense on a contractual basis. So, in the specialty 7R01128 "Urology and andrology, adult, children" in the 2022-2023 academic year, 15 residents are studying at the 1st, 2nd and 3rd courses: 5 residents in the first year, 3 of them - on an educational grant, 1 - at the expense of medical organizations of the Ulytau region, 1 - at their own expense for on a contractual basis; in the second year – 5 residents, 3 - on an educational grant, 1 - at the expense of medical organizations of the Ulytau region, 1 - at the expense of own funds on a contractual basis; in the third year – 5 residents, of which 2 – at the expense of

medical organizations of the Karaganda region; 1 - at the expense of medical organizations of the Ulytau region; 2 - at their own expense on a contractual basis.

A distinctive feature of the residency training at the KMU NJSC is that an on-site residency is actively conducted in the country's clinics. So, an on-site residency was held:

- in the Kostanay City Hospital PSE. Resident of the 3rd year of study Ilya Kiselyov, group 10-002 UR, period September 7, 2020 - May 14, 2021 (by order No. 167).

- in the "Central Hospital" of Temirtau: residents Kim Valery - in the period October 1, 2019 - November 30, 2019 by order No. 216; Grishin Artem - in the period October 15, 2020 - July 5, 2021. (petition No. 01-05-07-1072 by order No. 205 and in the period October 5, 2022 - April 26, 2023. petition No. 01-05-07-569 by order No. 245); Zaripov Ilyas – in the period October 28, 2021 - December 12, 2021 (by order No. 277); Tulegenov Talgat - in the period October 5, 2022 - April 26, 2023 (by order No. 245).

- in the Multidisciplinary Hospital PSE in Zhezkazgan. Residents Kayrberlin Daulet, in the period September 7, 2021 - July 5, 2022. (petition No. 01-17-2982, Order No. 211 and in the period February 6, 2023-June 3, 2023, petition No. 01-17-2982, Order No. 29); Yerbosynov Anuar, period December 8, 2021 - July 5, 2022, petition No. 01-17-2982, order No. 324).

- in the Central Hospital PSE in Balkhash. Resident Aidarov Talgat, period September 20, 2021 - June 22, 2022, Order No. 226.

The analysis of the contribution of teachers to improving the effectiveness of the educational process is discussed at the meetings of the department; the issues of the effectiveness of training, interaction with clinical mentors to improve the clinical training of residents are considered; clinical mentors have completed a training course on improving pedagogical skills; with the development and introduction of distance technology, the opportunities for participation of resident urologists-andrologists at international webinars and Congresses have expanded.

The head of the educational program in the specialty 7R01128 "Urology and andrology, adult, children" is an associate professor of the Department of Surgical Diseases of the Karaganda Medical University NJSC, Doctor PhD Asamidjanov E.M.

According to the SCES of 2022 (Order No. 63 dated July 4, 2022) <https://adilet.zan.kz/rus/docs/V2200028716> the resident is on duty 4 times a month (day, night duty), participates in diagnostic and therapeutic activities, which is reflected in the evaluation sheets of the portfolio of each resident urologist. When studying the portfolio of a resident in the specialty 7R01128 "Urology and andrology, adult, children", experts found that the portfolio sufficiently represented and confirmed the amount of work done for the 2022-2023 academic year.

2.2 Information about previous accreditation

The accreditation of EP 7R01128 "Urology and andrology, adult, children" was carried out by the Independent Agency for Quality Assurance in Education in Kazakhstan (IQAA). Certificate SA No. 0121/5, valid from June 19, 2017 - June 17, 2022. (<https://disk.yandex.ru/d/wiwwOnDIOGEing>)

2.3 Conclusion based on the results of reviewing the report on the self-assessment of the educational program of the residency in the specialty 7R01128 "Urology and andrology, adult, children" for compliance with the standards of accreditation of postgraduate education programs (specialty residency) of medical educational organizations and conclusions.

The report on the self-assessment of the educational program (hereinafter referred to as the report) is presented on 115 pages of the main text, 5 appendices, tables and copies placed on 36 pages, as well as electronic versions of 2 documents located at the link <https://drive.google.com/drive/folders/1wN7PUm5XG6nAdhdjz4Ykk6noGDkXfHBQ>

The report is characterised by completeness of answers to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for the self-assessment of the educational programme provided to the educational organisation by the accreditation centre - ECAQA, as well as internal unity of information. The report is accompanied by

a cover letter signed by the Chairman of the Board-Rector A.A. Turmukhambetova, which confirms the reliability of quantitative information and data included in the self-assessment report.

The report contains a list of 9 members of the internal self-assessment commission indicating the place of work and position of each employee, as well as information on the criteria of specialized accreditation indicating the responsibility of the contractor for conducting self-assessment of the educational program - E.M. Asamidanova

Self-assessment of the educational program 7R01128 "Urology and andrology, adult, children" was carried out on the basis of the order of the rector of the University No. 274 dated September 16, 2022. "Approval of the working group on self-assessment of educational programs."

The report was reviewed by an accreditation expert: assistant of the Department of Urology of S.D.Asfendiyarov KazNMU, a doctor of the highest qualification category Isposunova Gulnara Akhmetkazievna.

In all standards the real practice of the university on training residents in the specialty 7R01128 "Urology and andrology, adult, children", taking into account the beginning of admission of students in 2015, reasoned data, examples of implementation of educational programme objectives, national and international events, methodological support, confirming compliance with the requirements of accreditation standards are given. The description in the self-assessment report is sufficiently complete and updated on the number of residents, teachers, administration, information on selection and admission, training results, results of knowledge and skills assessment, material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, plans for development and improvement, etc.

The report is submitted to ECAQA in a completed form, with data corrected according to the above recommendations, written in a competent language, the wording for each standard is clear and understandable and described in accordance with the criteria of the standards, tables are referenced in the text and are numbered cross-numbered.

The quality of the self-assessment report served as a basis for the transition to the next stage of the accreditation procedure - external assessment. The experts planned validation of the report data, comparison of information from the report with the information that will be obtained during the visit to the educational organisation, i.e. verification of quantitative and qualitative indicators.

3. Description of the external expert assessment

The external expert work within the framework of the evaluation of the educational programme "Urology and andrology, adult, children" was organised in accordance with the Guidelines for the external evaluation of educational organisations and educational programmes of ECAQA and according to the programme approved on 11.05.23 by the Director General of ECAQA S. Sarsenbaeva and agreed with the Chairman of the Board-Rector A. Turmukhambetova.

Dates of the visit to the organisation: 24-26 May 20223.

The external evaluation focuses on validation of the self-assessment report data and verification of indicators indicating the degree of compliance with the criteria of accreditation standards.

The sequence of the 3-day visit is presented in detail in the Visit Programme (hereinafter referred to as the programme), which is in the documentation of the accreditation centre. The Programme is the proof of implementation of all planned activities within the framework of the external expert evaluation.

In order to obtain objective information, the members of the EEC used the following methods and its results:

- interview with management and administrative personnel - 7 people;
- interviews with residents – 84 people;
- exploring the website <https://www.qmu.edu.kz/ru>;
- interviewing 35 teachers, including 3 clinical mentors and 1 tutor;

- survey of teachers and residents - 32 and 63, respectively;
- monitoring the training of residents: members of the EEC attended a practical lesson on the topic “Surgical tactics for bladder stones. Treatment options for bladder stones. Laparoscopic access to bladder stones”, a lesson with residents of group 10-001UR was conducted by Ph.D. Zhunusov Serik Ashimovich. On the basis of the clinic of Regional Clinical Hospital PSE;
- review of resources in the context of the implementation of accreditation standards: 2 clinical training bases were visited, including the clinic of the Karaganda Medical University NJSC (Ardak str., building 3) and Karaganda Regional Clinical Hospital PSE (10A Nazarbayev ave.), where residents of the accredited educational program are trained, among other things;
- the study of 31 educational and methodological documents, both before the visit to the organization and during the visit to the units (the list of studied documents is in **Appendix 2**).
- experts reviewed 65 applications with documents and visual inspection of documents, as well as during an external expert assessment, the members of the EEC studied the main documents (mission, strategic plan until 2025, TP disciplines, syllabuses, control and measuring tools, checklists, resident portfolios, individual plans of residents of different years of study, publications of teachers, the rules of admission to the residency, personnel policy, the program of the internal quality assurance system, training resources were viewed directly at the clinical bases of the departments (classrooms, office equipment available for residents to work with literature, patient documentation, educational and methodological literature), residency resources on the website of the KMU NJSC, which allowed to identify compliance of the educational organization's activities with the basic accreditation standards.

On the part of the staff of the accredited organization, the presence of all persons specified in the visit program and according to the lists of interview sites and interviews is ensured (Table 1).

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

No.	Position	Quantity
1	Chairman of the Management Board - Rector of Karaganda Medical University NJSC	1
2	Vice-Rector for Academic Work	1
3	Vice-Rector for Scientific and Clinical Work	1
4	Head of Career Development Department	1
5	Deans of schools	6
6	Director of the Institute of Life Sciences	1
7	Heads of educational programs	10
8	Members of the Senate Academic Committee	22
9	Director of the Human Resources Management Department	1
10	Chief Specialist of the Department of Human Resources Management	1
11	Chief Specialist of the Center for Simulation and Educational Technologies	1
12	Director - Chief Accountant of the Department of Economics and Finance	1
13	Deputy Director of the Economics and Finance Department	1
14	Residents	84
15	Higher-education teaching personnel	35
16	Graduates (residency)	43
17	Employers (residency)	26

The sequence of the visit during May 24-26, 2023 is presented in detail in the Program of the visit, which is in the documentation of the accreditation center and in the Appendix to this report.

On the first day of the visit – on May 24, 2023 - a meeting was held with members of the Board of KMU NJSC, K.K. Toleubekov, E.M. Turgunov, the Vice-Rector for Academic Affairs,

K.K. Toleubekov and the Vice-Rector for Scientific and Clinical Work were introduced to the members of the EEC and given information about the purpose of the visit. The Vice-Rector announced a strategy for the development of postgraduate education, including residency programs, which indicates a clear vision of the university and interest in improving residency programs taking into account the needs of practical healthcare. Experts asked questions about the academic workload of teachers, clinical mentors. This interview allowed us to obtain evidence that the mission of the residency program and the mission of the university fully correspond to each other.

The issues of internal quality assurance policy in higher and postgraduate education, planning, monitoring of implementation, provision of resources, evaluation of educational programs, work with departments; issues of clinical resources for training residents, research areas of the university, motivation systems and participation in research of teachers of residency departments were discussed. The members of the EEC met with employees of the departments responsible for the admission and employment of graduates with the head of the Career Development Department G.M. Tokzhumanova, Dean of the Residency School of V.B. Tashkenbayeva, Dean of Nursing education K.A. Estemesova, Director of the Institute of Life Sciences D.A. Klyuev. The issues of forming a state order for specialties, selection and admission procedures, paid training, career guidance, feedback from applicants and applicants, work with departments, monitoring the employment of graduates, satisfaction with the quality of graduate training were discussed.

Interviews with the heads of educational programs made it possible to concretize information about the distribution of working hours of teaching staff, the possibility of realizing creative potential, the equipment of the material and technical base of departments that train under accredited educational residency programs, as well as to evaluate the mechanisms of involvement of residents in the research process and their motivation for the implementation of leadership in science at all levels of education.

An interview with members of the Academic Committee of the Senate, the Commission on School quality assurance by level of education (Master's degree, PhD, residency) allowed experts to find out how the Policy of Internal Quality Assurance in Postgraduate Education functions in the context of ESG. The issues of monitoring educational programs by all stakeholders were discussed. *However, no information was received on mechanisms for assessing the validity and reliability of resident assessment methods.*

The following tasks of the deanery are also analyzed - the formation of a state order for specialties, the admission of residents, the provision of resources, the evaluation of educational programs of the residency. It is established that the deanery closely cooperates with departments that train residents. The resources of the residency program are provided by cooperation with 52 foreign partner organizations. Within the framework of academic mobility of HETP and students, work is being carried out to develop partnerships with foreign universities, since during the reporting period teaching staff training under an accredited educational program visited the Russian Federation, South Korea, Lithuania.

Expert meetings were held with employees of the Department of Human Resources Management and the Center for Simulation and Educational Technologies; with employees of the Department of Economics and Finance. They made it possible to clarify the situation about the average age of HETP (52 years), the settling down of department staff, the percentage of HETP who speak foreign languages, as well as methods of encouraging HETP for carrying out scientific activities, the possibility of publications at the expense of the university in rating journals.

The university library was visited. The total area of the library is 1526 sq. m., the book storage area is 941.6 sq. m. The number of seats in the reading rooms is 443 seats. The library's computer park consists of 113 computers, 88 of them are thin clients (TC), 21 personal computers (PC) are in the active hall, the entire computer park is connected to the Internet. The Wi-Fi zone is distributed throughout the library. There are 2 scanners installed for users in the electronic resources hall. The interactive hall is equipped with a short-focus projector. For students, there is a Researcher's Hall

equipped with 15 computers connected to the Internet, which allows them to have access to all information resources of the university.

To implement the educational process in the specialty 7R01128 "Urology and andrology, adult, children", the book supply of basic and additional literature is 1034, of which 266 publications in Kazakh, 188 in English, 336 in Russian, scientific literature - 514, while in Kazakh -73, 105 - in English, 580 Russian Russian periodicals – 6 in Russian, electronic publications -13, of which in Kazakh and English -3, in Russian - 7.

We visited the sports hall of the University and the Student Service Center. In the Student Service Center, a resident can receive all the necessary documents signed with an electronic digital signature through a personal account on the portal cos.qmu.edu.kz by pre-ordering the necessary services. The result of the service is sent to the resident's email address.

In order to assess compliance with **Standard 6**, when visiting the Department of Academic Work, the experts were shown the distance learning platform "Platonus" and the university's own development "Session", integrated with the Antiplagiarism Antiplagiarism system. The experts were shown how they are used in the training and evaluation of residents.

In the afternoon, the experts visited the Center for Simulation and Educational Technologies (CSET), whose area is 1300 sq.m., there are 42 classrooms. The equipment of the CSET is more than 400 types of simulation equipment, including 57 high-tech simulators. Visiting the CSET is possible as part of the independent work of a resident by appointment in a specially designed form. For surgical specialties, there is an extensive amount of simulation equipment, involving the development of basic practical skills.

Thus, during the first day of the visit, the experts managed to validate the data of the report on the self-assessment of the educational program according to standards 1,3,7,8 ,9 and partially 2,5 and 6.

On the second day of the visit, on May 25, 2023, in order to assess the resources that ensure the effective implementation of the educational program, the experts visited the clinical bases of the departments. Experts G.A. Isposunova, D.M. Shabdarbayeva, A.K. Dosanova visited 2 bases of clinical training, including the university clinic, where training is conducted according to 3 educational programs: "*Urology and andrology, adults, children*", "*Anesthesiology and resuscitation, children, adults*", "*Pediatric surgery*". The Regional Clinical Hospital was also visited, where training is conducted on 2 educational programs: "*Anesthesiology and resuscitation, children, adult*" and "*Urology and andrology, adults, children*". Meetings were held at the clinical bases with the heads of the educational programs of the residency in the specialty 7R01128 "*Urology and andrology, adult, children*" E.M. Asamidjanov, 7R01106 "*Pediatric surgery*" M.S. Askarov, 7R01102 "*Anesthesiology and intensive care for adults, children*" D.V. Vasiliev

According to the individual plan of the resident (IPR), students receive an teaching materials (TM) with the designated final results of the educational program. Revision of the thematic plan, with the inclusion of relevant topics, the development of a catalog of elective disciplines is carried out annually. It was noted that due to the trend in the development of technologies for intraluminal and endovideosurgical interventions, the catalog of elective disciplines has been expanded for the program 7R01128 "*Urology and andrology, adult, children*" over the past 5 years. Elective disciplines such as: "*Percutaneous urology*", "*Innovative urology*" were added.

The material and technical support of departments and clinical bases, study rooms, places for work and recreation of residents has been studied. It is established that the clinics are equipped with modern medical and diagnostic equipment, and also have their own simulation equipment for practicing practical skills of endovideosurgery. Residents have free access to the provision of diagnostic and therapeutic activities, including the surname and first name of the resident is officially indicated in the plan of operations (photo 1, next to the name of the resident, the letter "p" is placed as a note in parentheses).

№	Ф.И.О ПАЦИЕНТА	Название операции	Зем	Бригада Хирургов
1.	Кудайбергенова А.	Тонзиллотомия	1Н	Есмиров Д.К
2.	Горошкин 1974	ФЕЗ	12	Есмиров
3.	Ярыгина 1993	ПРПН	113	Есмиров
4.	Акишев 1959	Земорроботомия	2/1	Юсифов/Аюманов (р)
5.	Зрицов 1967	Земорроботомия, пластика	3Н	Бадиров/Батышев (р)
6.	Нелтаев 1960	БЧТУР АГПН	3/2	Асалиданов/Касимов (р)
7.	Соколова 1980	Кистэктомия	3/3	Зубков
8.	Бадурбаева 1972	ВЛХЗ	2/2	Абатов/Уразбаев (р)
9.	Симонович 1966	ВЛХЗ	2/3	Бадиров
10.	Найина 1959	Земорроботомия, пластика	3/3	Батышев (р)
11.	Зришин 1979	Земорроботомия	3/3	Абатов/Аюманов (р)
12.	Вашев 1980	Операция Бергмана	2/1	Юсифов/Уразбаев (р)
13.	Жаппи 1971	БЧТУР АГПН	2/2	Сымаев
14.	Касенов 1965	Лапарос кистэктомия	2/3	Асалиданов/Асанов (р)
15.	Баладин 1971	Пластика ПМС	2/3	Асалиданов/Симиряков (р)
16.	Белевцев 2.6	Орхидапексия спров	3/4	Абатов/Сымаев
17.	Юмаев 2.6.5	РПЗ	4/1	Аскарров/Тухенова (р)
18.	Зануров 15.1	Мармара	4/2	Аскарров/Исмакова (р)
19.	Ербек б.т.	Устранение гипоспадии	4/3	Аскарров/Абдулхамидов (р)
			4/4	Аскарров/Тухенова (р)

Photo 1. Urological surgery plan

The resident's access to the IHIS and DAMU electronic systems is carried out independently (provided that the resident is employed at 0.25 or 0.5 rates in the clinic), or using the login / password of the clinical mentor.

In the resident's office, personal computers are allocated for access to electronic systems.

Some of the residents of the specialty "7R01128- "Urology and andrology adult, children"" are employed in clinical bases as resident urologists at 0.5 rates. 1 student of the 1st year and 4 students of the 3rd year were employed.

According to the IWP, the resident doctor participates in day/night shifts, which

is reflected in their portfolio along with the total number of mastered skills, assists, self-performed manipulations and operations. The members of the expert commission were familiarized with the plan of operations for May 25, 23 (photo 1), where teachers were involved as operators, and resident urologists acted as assistants in operations.

There is a specially designated place - a room for lunch and relax. There is a cloakroom for students on the first floor of the MPI.

The experts studied the documentation on the educational program 7R01128 - "Urology and andrology adult, children", which confirmed compliance with the accreditation standards, including documentation on 2 teachers and 4 clinical mentors of residents, documentation was also provided at the request of the commission members.

In the afternoon, interviews were conducted with residents, teachers of residency educational programs, graduates and employers.

In general, all residents noted the sufficiency of library and electronic resources, the availability of communication with university staff and representatives of practical healthcare, the conduct of research projects and the possibility of passing an on-site residency within the framework of the educational program to the appropriate medical institutions. Residents showed their commitment to the organization of education, were active in answering questions from external experts, demonstrated their judgments on the organization of training, assessment of their skills, and advisory support. In an interview with students, almost all residents of the specialty 7R01128 - "Urology and andrology adult, children", are satisfied with the educational process, material and technical conditions. Among the participants of this interview were representatives of students who are members of the Residency School Council, confirming the participation of student stakeholders in the creation and revision of residency educational programs.

Of the possible improvements in the educational process, the students themselves note limited academic mobility and show a desire to exchange experience and knowledge not only within the Republic of Kazakhstan, but also in the countries of the near and far abroad. Residents of the specialty took an active part in the interview, noting favorable conditions for learning and acquiring practical skills. One resident works part-time at the simulation center, being a tutor for bachelors. Residents noted their active participation in research work, preparation of scientific articles.

The interview with the teachers took place as part of a confidential conversation, almost all university employees show satisfaction with working conditions and his pay. Over the past year,

there has been an increase in wages due to the inclusion of the treatment rate in the basic rate. Taking into account the categorization the HETP also has a motivational influence, since the contribution to both educational, scientific and educational activities is evaluated differentially.

University teachers participate in the implementation of 15 scientific and technical projects. The introduction of the positions of research assistant, associate research professor and research professor allows you to shift the focus to research work by limiting the academic load from 650 hours to 200 hours per year.

The system of encouragement of teachers includes bonuses for the publication of articles in rating journals included in the database Scopus and Web of Science. Experts have found that teachers initiate research topics for residents, stimulate the need for additional training and independent work with literature, medical documentation.

One of the important tools of the accreditation examination is conducting interviews with employers - representatives of practical healthcare who are not affiliated with the university. In general, employers are satisfied with the competencies of graduates. Interviews with employers included such questions as: knowledge of the university's mission, participation in the development of the mission and proposals to the strategic plan, participation in the work of advisory bodies, satisfaction with the basic knowledge and skills of residents, participation in the training of residents through mentoring, providing the department and residents with the necessary resources for practical training and the formation of clinical thinking, about the problems of interaction with departments and universities in general, 100% employment of residency graduates. Employers have shown interest in developing communication skills among graduates of the residency.

Thus, during the second day of the visit, experts validated the data of the report on the self-assessment of the educational program according to the standards 2,3,4,5,6,7,8,9.

On the **last day of the visit**, on May 26, 2023, a meeting of the EEC members on the results of an external assessment was held at **the university**. The final discussion of the results of the external assessment of the educational program, the study of documents, the results of interviews, interviews, questionnaires was held. The members of the EEC started designing the final report. Generalizations of the results of external assessment are made. Experts have individually filled out the "Quality profile and criteria for external evaluation of the educational program 7R01128 - "Urology and andrology adult, children", for compliance with the Standards of ECAQA accreditation". No comments were made by the members of the EEC. Recommendations for improving the educational program were discussed and the final open vote on recommendations for the ECAQA Accreditation Council was held by the Chairman H.I. Kudabayeva.

The recommendations of the experts were presented at a meeting with the management on May 26, 2023.

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 corporate culture of the University, the high degree of openness of the team in providing information to the members of the EEC.

In general, it can be noted that favorable conditions have been created in the Karaganda Medical University NJSC for the implementation of the educational process, the creative potential of the teaching staff and adequate training of medical specialists, according to the requirements of modern society.

When conducting a survey of residents, 88.9% rated the work of the External Expert Commission on Accreditation as positive, and 9.52% as satisfactory. The majority of respondents (85.7%) believe that it is necessary to carry out accreditation of educational organizations or educational programs.

According to 90.6% of teachers, the survey conducted by ECAQA is useful for developing recommendations for improving the key areas of activity of an accredited educational organization. 40.6% of the HETP noted that they were personally involved in the activities to prepare for the accreditation of the EP as a member of the internal self-assessment commission, 9.4% were engaged

in technical support before the ECAQA EEC meeting, 31.3% wrote sections of the self-assessment report, 50% collected information for appendices to the self-assessment report. 6.3% of HETP noted that they were not involved in the preparation of the university for accreditation and 3.1% found it difficult to answer. To the questionnaire question "Would you personally like to become an expert on ECAQA accreditation and quality assurance of education and healthcare" - 28.1% expressed a desire, 18.8% were not interested in this question, 18.8% have already participated in the work of the accreditation commissions of this accreditation center and 34.4% of HETP had difficulty answering.

75% of HETP believe that the work of the EEC on accreditation can fully cover all issues related to the quality of implementation, since the visit of the commission is preceded by a stage of self-assessment of the program and writing a report. 53.1% of HETP attribute this to the fact that the commission examines all the main processes of program implementation. 40.6% of HETP believe that it depends on the fact that the program of the commission's visit includes interviews with interested parties, allowing to draw conclusions about the quality of education, 37.5% of respondents believe that the program of the commission's visit is rich and covers all key aspects of education and 15.6% of HETP are sure that everything depends only on professionalism and competence experts on accreditation.

Among the activities of the EEC on accreditation, the most important and allowing to obtain evidence of compliance with accreditation Standards, the HETP noted: interview with management – 3.1%; interview with the head of the EP – 3.1%; interview with students – 15.6%; interview with representatives of employers – 6.3%; visiting practice bases – 9.4%; reviewing the self-assessment report of the program – 3.1%; attending practical classes – 3.1%. 56.3% of residents note that a single event is not can solve, but only all of the above in the complex.

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

4. Analysis of compliance with accreditation standards based on the results of an external assessment of the educational program of the residency in the specialty 7R01128 - "Urology and andrology, adult, children"

Standard 1: MISSION AND END RESULTS

Evidence of compliance:

1.1 Mission statement and final results

The accredited educational program (EP) of the residency "Urology and andrology, adult, children" and its Mission were discussed at the meeting of the Academic Council of the KMU NJSC on June 27, 2019, order 10.

EP was approved by the decision of the Board of Directors on May 27, 2022, order 37.

The EP is posted at the link (<https://www.qmu.edu.kz/ru/contents/view/1261>) and is available to the public.

The Mission of EP 7R01128- "Urology and andrology, adults, children" is to train highly qualified specialists in the field of urology, including children, who are able to meet the needs of society in providing qualified care to urological patients, apply and develop advanced innovative technologies in urology, science and practice, use the achievements of information and communication technologies, strengthen the health of the population.

The University is the largest medical university in the country, training specialists at all levels of higher and postgraduate education, in all areas in the field of healthcare. The University's activities are based on the integration of academic, scientific and clinical activities to provide high-quality and modern medical care to the population and the training of professional personnel.

When implementing the activities of the visit program, namely, following the results of an interview with the heads of the organization, in interviews with residents and teachers, compliance with the criteria of **standard 1** was established. All participants in the educational process know the

mission of the educational program, took part in the formation of proposals for the formulation of the mission, while the mission was brought to the attention of potential residents through the website, social networks, informational letters to medical organizations. The strategic plan of the organization for 3 years has been reviewed, confirming the implementation of the accreditation standard and demonstrating the goals, objectives and prospects of the organization. From interviews with doctoral students, it was found that before the start of classes, teachers inform about the mission, work plans of the educational organization, tell where to get the necessary information about the educational program, teachers, training bases. The University has all the resources necessary to form professional qualities and achieve the final results stated in the mission of the educational program in accordance with national and international requirements and needs of the healthcare sector.

EP 7R01128- "Urology and andrology, adults, children" was developed according to the State Residency program for medical specialties, a standard professional curriculum for medical specialties of the residency. The mission of the EP was brought to the attention of all employees of departments, residents by posting syllabuses and information about the residency on the university's website.

The results of studying the documentation demonstrate that the mission of the university and the mission of EP 7R01128-"Urology and andrology, adults, children" and the educational process are built in accordance with the SCES and current laws and regulations (L&R) in postgraduate education and healthcare.

1.2 Professionalism and professional autonomy

According to the Academic Policy of the KMU NJSC (approved by the decision of the Senate on August 27, 2021, Protocol No. 1), the university has autonomy. In accordance with the license for the right to conduct educational activities and according to the classifier of training areas, develops an EP based on the current SCES and MC.

The EP is developed in accordance with the National Qualifications Framework, Professional Standards, Dublin Descriptors and the European Qualifications Framework.

The YP has a modular structure in which the effectiveness of learning outcomes is achieved by following an integrated approach.

The responsibility of the administration and HETP in the preparation of EP 7R01128- "Urology and andrology, adult, children" was ensured by a consistent procedure for reviewing and approving the program: the Academic committee of the school of residency and professional development, the Academic Council, the Academic Council, the chairman of the Board-the rector of KMU NJSC, which is confirmed by the minutes of meetings.

EP 7R01128 - "Urology and andrology, adults, children" has passed internal and external examination in accordance with the established procedure, and is included in the national Register of educational programs. Then syllabuses are developed for the discipline. Every year, the head of the EP, together with clinical mentors, with representatives of practical healthcare, discusses and compiles a list of elective disciplines to form a catalog of elective disciplines. The catalog of elective disciplines was expanded and elective disciplines were added: "Percutaneous urology", "Innovative urology".

Syllabuses on disciplines are reviewed annually taking into account the introduction of new methods of diagnosis and treatment, international recommendations and updating protocols for the diagnosis and treatment of diseases of the urological and andrological profile of the Republic of Kazakhstan, countries of the near and far abroad, the map of the provision of the discipline with educational and methodological literature is updated.

The head of the department determines the clinical bases where the resident will be able to maximize access to patients according to his training profile. Contracts with clinical bases for the implementation of EP residency are updated annually. Residents have the opportunity to master the tactics of managing patients with various diseases of the urological and andrological profile. When managing patients, residents expand and deepen their skills in managing urological patients, working at the emergency room level, managing comorbid patients, participating in interdisciplinary consultations, pregnancy consultations, shifts in a surgical hospital with the definition of diagnostic

and therapeutic tactics, providing emergency care to patients with various pathologies of internal organs. At the same time, the versatility of clinical bases allows you to improve the skills of differential diagnostic search, determine the examination plan and treatment of patients.

The training of residents is conducted under the guidance of clinical mentors from among urologists, including: Tsvetkova A.S., Zhunusova S.A., Pak D.A. Indicators of the effectiveness of the work of a clinical mentor are the acquisition by students of medical skills and competencies in the specialty and the passage of an independent examination.

Visits to the clinical base, open classes, meetings with teachers and residents allowed experts to see that residents are being fooled by the direct-to-patient approach in the clinical process. Each resident has an individual level of professionalism. The formation of professionalism is formed on the basis of direct training at the workplace, where residents face clinical situations of resuscitation and anesthesiological practice of various levels of complexity, adopting the experience of senior colleagues, and thereby building their own behavior model.

Academic freedom of teachers is manifested in the compilation of syllabuses, CED, IEP, WC. All educational and methodological documentation is reviewed and approved at meetings of the EPC, Academic and Board of Studies.

63 residents (of various specialties, including urologists) participated in the survey and questionnaire. Of these, 25.4% are residents of the 1st year of study, 44.44% are residents of the 2nd year of study, 15.87% are residents of the 3rd year of study. According to the results of the survey, 80.95% of respondents fully agree that they will recommend studying at this educational organization to their acquaintances, friends, relatives, partially agree – 17.46%, and completely disagree with this statement 0%, doubt the answer – 1.59%.

82.54% of residents are fully agree with the statement that program managers and teachers are aware of the problems of residents related to learning, 15.87% of residents are partially agree, 1.59% of residents completely disagree with this statement.

According to the survey results, 79.37% of respondents believe that program managers and teachers constantly involve students in the work of advisory bodies (methodological council, academic council, committees of educational programs), 4.76% answered that no, they do not involve students, while 11.11% do not know about it, 4.76% doubt the answer, and 5.3% expressed the opinion that they are sometimes involved in this work.

90.48% of residents are fully satisfied with the conditions and equipment and classrooms of this educational organization, 7.94% of residents are partially satisfied, and 1.59% of residents are completely dissatisfied.

32 teachers surveyed, including those with experience up to 5 years - 6.25%, from 5 to 10 years – 12.5%, over 10 years experience – 81.25%. Among the HETP, residencies accounted for 78.13%.

87.5% are fully satisfied with the organization of the educational process, 12.5% are partially satisfied. 93.75% of respondents are completely satisfied with the organization of work and workplace, 6.25% of respondents are partially satisfied. There is an opportunity for career growth and competence development for teachers in the organization: 90.63% fully agree, 9.38% partially agree.

1.3 Final learning outcomes

The EP 7R01128- "Urology and andrology, adult, children" takes into account the main final results of the resident's training in communication; professionalism; regulatory knowledge; research; personal and professional development throughout life.

The results of the residents' training are described in detail. Experts have established a clear continuity between the final results of the previous training of residents (prerequisites) and training in residency, and subsequent programs of continuous professional development.

The EP "Urology and andrology, adult, children" was developed taking into account the modular technology of training and the transition to ECTS credits and is aimed at mastering the key competencies of a resident in this specialty, provides residents with the opportunity to plan and

implement an individual learning trajectory taking into account the specifics of the chosen specialty, determining the disciplines of the component of choice.

Thus, the final results of the residents' training are the training of highly qualified specialists who are able to meet the needs of society in providing medical care to urological patients.

1.4 Participation in the formulation of the mission and final results

Residents, potential employers, administrative and management personnel, HETP take an active part in the formation of the mission, the final results of the training of the EP. Representatives from resident urologists, potential employers are members of the collegial advisory bodies of the university – the Senate of the KMU NJSC, the Council of the SRPD, etc., are invited to meetings of departments.

Participation and support of external stakeholders in the implementation of the quality assurance policy is ensured by the availability of information for employers on the university's website, conducting external audits at departments, meetings and reports, round tables with stakeholders.

This information is documented in the self-assessment report of the educational program in the specialty 7R01128 "Urology and andrology, adult, children" and was confirmed during an interview with residents and employers. The experts received a clear answer to the question "Do you participate in the formulation of the mission and goals of the organization, the educational program?", "What is the personal contribution of residents to the improvement of the educational program?". *In response to these questions, residents noted that they are members of collegial bodies, where they have the opportunity to express their opinions and put forward any ideas. Employers of this specialty also noted their active participation in the discussion of the mission and educational program. Residents in 79.37% of the survey noted that program managers and teaching staff involve students in the work of advisory bodies (methodological council, academic council, EPC). The answer is no, 4.76% showed no involvement and 11.11% of respondents do not know anything about it, 4.76% of respondents doubt the answer.*

Conclusions of the EEC according to the criteria. Out of 17 standards comply: fully - 17.

Standard 1: completed

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

Standard 2: EDUCATIONAL PROGRAM

Evidence of compliance:

2.1 Framework parameters of the postgraduate medical education program

The EP "Urology and andrology for adults, children" was developed taking into account the modular technology of training and the transition to ECTS credits. The EP is aimed at mastering the key competencies of a resident in this specialty, and provides an opportunity for residents to plan and implement an individual learning trajectory, taking into account the specifics of the chosen specialty, determining the disciplines of the component of choice. When drawing up the learning trajectory, the sequence of passing modules / disciplines is observed, taking into account pre- and post-requirements, the content of which is aimed at achieving knowledge, skills and abilities, providing a step-by-step approach to their study. The final results of the residents' training in the desired specialty are formed throughout the entire educational program, within the framework of the studied disciplines of the module.

Residents are informed about the necessary competencies, which are reflected in the educational and methodological complex of disciplines and are available for review on the University's website at the link: <https://qmu.edu.kz/ru/contents/view/314>.

The modules of the educational program are logically structured, consistent, taking into account pre- and post-requirements, and their content is aimed at mastering the key competencies of a resident in this specialty.

The achievement of key competencies is achieved through the use of traditional and active teaching methods, simulation training, including trainings on emergency conditions in the CSET, academic researches (RBL), the project method. To acquire deeper knowledge and skills in the specialty, residents study elective disciplines of the component of their choice, directly participate in online conferences, schools, seminars in the specialty with a certificate.

The analysis of educational activities showed that the scientific basis and all the achievements of science in the advising disciplines were taken into account, additions were made to the bibliography of the TM and syllabuses, and teachers apply them in the classroom. Residency training is carried out taking into account the principles of continuity of basic medical education, postgraduate and continuing medical education throughout professional life.

When drawing up the learning trajectory, the sequence of passing modules / disciplines is observed, taking into account pre- and post-requirements, the content of which is aimed at achieving knowledge, skills and abilities, providing a step-by-step approach to their study. The final results of the residents' training in the desired specialty are formed throughout the entire educational program, within the framework of the studied disciplines of the module. Residents are informed about the necessary competencies, which are reflected in the educational and methodological complex of disciplines and are available for review on the University's website at the link: <https://qmu.edu.kz/ru/contents/view/314>.

The achievement of key competencies is achieved through the use of traditional and active teaching methods, simulation training, including trainings on emergency conditions in the CSET, academic researches (RBL), the project method. To acquire deeper knowledge and skills in the specialty, residents study elective disciplines of the component of their choice, directly participate in online conferences, schools, seminars in the specialty with a certificate.

The continuity of education is observed on the basis of the established final results of undergraduate and internship studies. Transparency of the process of training residents, including methods, tools of training and evaluation, are implemented by informing on the university's website, Platonus AIDS. The mentoring system, which is described in the document "Regulations on Clinical Mentoring", was evaluated.

There are 4 mentors whose tasks are to assist the resident in mastering and improving the necessary clinical skills – "on-site training". *95.24% of the surveyed respondents noted that they were satisfied with the mentors' activities, 4.76% - partially satisfied.*

The procedure for informing residents about their rights and obligations is reflected in the "Academic Policy". https://drive.google.com/drive/folders/1fN2AjXp2PidFazaKDdXGPT-BM835CmLw?usp=share_link

This indicates compliance with Standard 2 in terms of adapting training to the needs of residents. Along with the principles of quality and academic integrity, which are described in the document "Academic Policy", and according to paragraph 37 of Annex 5 of the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 30, 2018 3 595 "On approval of Standard rules for the activities of educational organizations of appropriate types", the university checks educational, scientific and methodological documents for elements of plagiarism and to determine the level of originality using the StrikePlagiarism electronic software.

2.2 Scientific method

Scientific research is a mandatory component of education and implies the integration of educational, practical and research processes, with the result in the form of publications of scientific papers, presentations at conferences of various levels.

Knowledge of the basics of evidence-based medicine is mandatory in the course of training in residency in the specialty 7R01128 "Urology and andrology for adult, children".

As part of the independent work of the resident (IWR), training of residents in the skills of critical evaluation of literature, articles and scientific data by writing abstracts, presentations in accordance with the thematic plan of the discipline is provided.

All residents are actively involved by the staff of clinical departments and the Department of Science in the recruitment, analysis and statistical processing of the material. Residents of EP 7R01128 "Urology and andrology, adult, children" take an active part in the research activities of the university, which was said in a conversation with them and proved by the scientific publications presented, which are reflected on Google drive. https://drive.google.com/drive/folders/1fN2AjXp2PidFazaKDdXGPT-BM835CmLw?usp=share_link

During the conversation with the 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, articles and scientific data, the use of scientific developments.

During the survey of residents, it was found that the educational organization has access to the participation of students in research work. 92.1% of residents fully agree with the statement that KMU NJSC has access to participation in research work, 6.4% - partially agree with this statement, 1.6% - disagree. To the questionnaire question "Are you currently engaged in research work?" - 74.6% of residents answered "yes" - , 11.1% of residents answered "no"; 11.1% of residents answered "I plan to start"; 1.6% of residents answered "in search of a research topic"; 1.6% of residents answered "I don't want to do research".

41.3% of the surveyed residents noted that they had personally published one scientific printed work (articles, abstracts, review), more than one – 39.7%: none – 3.2%; plan to publish in the near future – 11.1%; there is no answer 32.7%; I just enrolled in a training program – 1.6%.

2.3 Structure, content and duration of the residency program

The content, volume and sequence of the courses of EP 7R01128 "Urology and andrology, adult and children" strictly correspond to the SCES. The basis for achieving the objectives of training in the specialty is the acquisition by residents of the necessary knowledge and key competencies, profiling disciplines (PD) of the main component and the component of choice Residency training includes classroom work, independent clinical work under the guidance of a teacher/clinical mentor and the student's independent work (hereinafter referred to as SIW). The volume of classroom work is 10% of the volume of each discipline, independent clinical work under the guidance of a clinical mentor – 75%, SIW – 15%.

The training is carried out full-time, the training period is 3 years.

There are documents containing requirements for the structure and content of educational programs. The responsibility for the choice and introduction of innovations in the educational process is borne by the department and teachers. For the successful implementation of EP 7R01128 "Urology and andrology, adult and children", there are sufficient resources to organize the assessment of practical skills of residents (powerful clinical bases, simulation center).

90.5% of residents noted that they were completely satisfied that there was a sufficient number of patients to be supervised or assisted in operations; 4.8% were partially satisfied; 4.8% did not respond. 95.2% of residents are fully satisfied with the content of the educational program (list of disciplines): partially – 3.2%; 1.6% doubted the answer.

90.4% of residents fully agree that teachers provided them with methodological and didactic materials, additional literature to prepare for classes, partially agree - 9.5%.

Working curricula contain all the disciplines of the mandatory component of the standard curricula developed by the State Educational Institution of the Republic of Kazakhstan in this specialty, on the basis of which training is conducted. The distribution of disciplines by hours, semesters is carried out by the EPC and the Dean's office of internship and residency according to the SCES, the MC and the list of elective disciplines, coordinated with the vice-rector for academic activities. An individual working curriculum is formed for each resident for the entire period of study, coordinated with the curator and approved by the Dean of internship and residency. The individual work plan reflects the training schedule, the mode of classes (number of hours per day), the list of sections and disciplines, the number of hours by sections and disciplines, types of training

sessions, forms of knowledge control. Syllabuses indicate the place and time of training consultations for each resident.

In the academic year, one academic period is provided, ending with an intermediate certification (or final certification in the final year). Vacations are granted to students once during the academic year, the total duration of which is at least 5 weeks, with the exception of the final course.

The schedule of training sessions in the disciplines of the EP is completely satisfied with 92.06% of the residents surveyed.

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

The responsible Vice-rector for educational activities in the residency is the Vice-Rector for Academic Activities. Clinical bases are selected by the department, and their compliance with the specialty of the residency program is determined by the Department of Clinical Work. Training of residents in the specialty 7R01128 "Urology and andrology for adults and children" is carried out in the clinic of the KMU NJSC at the address of Karaganda, Ardak line and in the Regional Clinical Hospital PSE at 10A Nazarbayev Ave.

The clinics have been accredited as a medical organization. The drafting of a contract and a comprehensive plan of joint work with clinical bases is under the control of the Department of Clinical Work.

The management of the educational process reflected in the self-assessment report (**standard 2**) and general approaches to management were confirmed during a visit to the Postgraduate Education Center and conversations with the head and employees. At the same time, the verification of **standard 2** showed that there is all the necessary documentation for the implementation of the educational program of the residency 7R01128 "Urology and andrology for adult and children". The experts got acquainted with the work of the departments of the clinical bases, visited the library. The experts held 11 meetings and during a cross-interview it was established that the implementation of the educational program meets the requirements of the authorized bodies in the field of higher education and healthcare.

In a conversation with residents, experts saw that the organization promotes the development of practical competencies of residents. At the same time, residents deepen their theoretical knowledge, develop communication skills.

When asked about the number of seminars that are held during the month as part of the residency survey, 52.6% answered that seminars are held once a week, 26.3% did not give an answer, 21.1% answered that they are held daily.

73.7% of residents are sure that this university allows them to acquire the necessary knowledge and skills in their specialty, 10.5% cannot answer this question yet, 15.8% answered that they would like to believe it.

78.9% of respondents have an excellent assessment of the organization of clinical training, 10.5% have a good impression, 10.6% are not satisfied.

89.5% of the residents surveyed fully agree that the teacher (mentor, curator) is an example for them as a professional doctor, a person (ethics, communication, appearance, speech), and 10.5% replied that they completely disagree.

84.2% of respondents are completely satisfied with the number of patients to be supervised or assisted in operations, 10.5% are completely dissatisfied, 5.3% did not respond.

100% of residents believe that there is sufficient time for practical training (patient supervision, clinical rounds, clinical reviews, assistance in operations).

The majority of teachers surveyed (85.7%) fully agree that residents have free access to patients at clinical bases and all conditions for improving practical skills, 14.3% of residents partially agree.

Thus, the training of residents in the specialty 7R01128 "Urology and andrology for adult and children" is aimed at meeting the needs of practical healthcare. Residents are trained directly at the

clinical bases. This is facilitated by mentoring, which is carried out in accordance with the developed "Regulations on Mentoring".

95.2% of the surveyed residents are completely satisfied with the mentors' activities, and 6.4% are partially satisfied, 1.6% are partially dissatisfied, 4.8% of respondents did not answer this question.

Conclusions of the EEC according to the criteria. Out of 30 standards comply: fully - 30.

Standard 7: completed

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

Standard 3: ASSESSMENT OF RESIDENTS

Evidence of compliance:

3.1 Assessment methods

The applied system of assessment of knowledge, skills and abilities of residents corresponds to the practice adopted at the national level and is defined in the standardized operating procedure (SOP) "Development and approval of a system for evaluating educational achievements".

According to the Academic Policy of the university, the syllabuses for each discipline indicate the types of final control and the calculation of the final grade for the discipline/ module. These calculations of the TRA, the FCE of the discipline / module were made by the staff of the CID, the department and the Department of Digitalization in the AIDS "Platonus", "Session". The type of control, teaching method and assessment methods are taken into account when the teacher fills out an electronic journal in AIDS "Platonus" and determines the peculiarity and originality of the electronic journal of the SOP "Electronic journal maintenance".

The review of control and measuring instruments is carried out at several levels – inside the department – from an employee of the department, inside the university – from an employee of the university or external review, when employees of external organizations, associations or employers act as reviewers. Reviews are recorded at a meeting of the department or meetings of the EPC.

To evaluate residents, clinic staff and patients are involved (360 degree assessment). Scientific work is reviewed and evaluated when residents speak at conferences, publish articles.

The study of control and measuring tools (tests, situational tasks, control questions) showed that the appropriate evaluation policy has been implemented in the KMU NJSC, which allows a comprehensive assessment of the educational achievements of residents.

During the interview, residents talked about the forms of assessment, for example, the use of assessment sheets to assess practical skills and that they are satisfied with everything. Residents said that they receive regular feedback from teachers.

The system of appeal of evaluation results is reflected in the document "Academic Policy" and during the reporting period there were no precedents of appeal at the department.

To verify the data of **Standard 3**, the experts asked the heads of the educational program questions: where the rules for conducting the current, intermediate and final certification are described. The experts checked the documents and guidelines for the assessment of residents. There is a database of test tasks in the amount of 250-400 per discipline for 3rd-year residents, residents of the 1st and 2nd courses have 10-20 extended clinical tasks for each discipline for the "Session" platform, which were compiled by the developers of the EP and approved at the AC meeting. The control and measuring instruments are reviewed by internal and external experts.

The head of the Education Department replied that additions and updates of FI are planned to be carried out annually.

During a visit to the clinical base and during an interview with the head of the PhD department, E.M. Asamidanov, the commission made sure that there is a documentation system that is accessible to all teachers and staff and includes documents such as annual plans, annual reports, regulations of departments, contracts with teachers and residents, in full educational and methodological documentation (EP, working curricula, syllabuses, journals), evaluation tools (checklists, statements),

certificates, certificates and certificates. A review of the website showed that its pages contain the necessary information for residents of the TM and there is information that is regularly updated.

The curriculum of the discipline defines various types of ongoing monitoring of students' progress: oral survey, written control, tests, combined control, case solving, homework presentations, assessment at the "workplace", mastering practical skills in the CSET, evaluation of assignments on the Moodle platform, etc. Thus, the current monitoring of students' progress is carried out for each completed task by a resident (an integrated task that includes all types of educational work (classroom and extracurricular), including the development of practical skills using simulation technologies, patient management, duty at clinical bases, etc.). The policy of grading for a task with an indication of its components, content, criteria and deadlines for evaluating tasks in disciplines are reflected in the syllabus.

The current control is carried out by a teacher and a clinical mentor. The teacher is personally responsible for the timeliness and correctness of filling in electronic journals. The assessment of the current control is carried out using evaluation sheets that allow evaluating various types of resident activities.

Interim certification of residents in the KMU NJSC is carried out in accordance with the WC, the academic calendar. Intermediate certification includes final control at the end of the discipline/module and portfolio protection at the end of the academic period. The frequency and timing of the interim certification are approved by the Chairman of the Board - Rector of KMU NJSC. The final control is carried out at the end of the discipline / module in the form of a complex 2-stage exam – stage 1 – clinical examination (certification of practical skills) (50%), stage 2 - written exam, final courses - testing (50%). The clinical exam is conducted in the form of certification of practical skills "at the patient's bedside", according to the evaluation sheet "Evaluation sheet of the clinical exam".

The written exam is conducted on the session.kgmu platform.kz with verification of the resident's written response to the originality in the system "Strikeplagiarism.com " (Polish company's Anti-Plagiarism system Plagiat.pl), as well as with the coding of the residents' works, ensuring the objectivity of the assessment. Computer testing is carried out using the Platonus information system for graduate students. Grades for disciplines are placed in electronic statements in the Platon system (Platonus - <http://platon.kgmu.kz/>). The student is allowed to take the exam, provided that the curriculum is completed in the discipline, and the TRA is obtained in the discipline by at least 50%.

Portfolio protection is carried out at the end of each academic year to assess the development by a resident of the competencies provided for by the EP, according to the form of the evaluation sheet established at the university ("Portfolio Evaluation Sheet" Appendix 3), by a commission consisting of the head of the EP, teachers of departments, clinical mentors, representatives of practical healthcare.

The survey showed that 89.5% of residents are completely satisfied with the methods of assessing knowledge and skills, and 10.55% would like to change.

Of all respondents, 94.7% said that teachers regularly use active and interactive teaching methods in the classroom, 5.26% expressed the opinion that such teaching methods are used only occasionally.

According to the survey results, 73.7% replied that after the end of classes, the teacher constantly conducts feedback with them (listens to your opinion, conducts a mini questionnaire, works on mistakes), 26.3% believe that it happens sometimes.

3.2 The relationship between assessment and learning

During the visit to the KMU NJSC, the members of the EEC confirmed that the methods of assessment of residents are comparable with the methods of teaching and cover the assessment of all the competencies of students, both during practical classes and during exams.

The results of the assessment of residents are documented as follows: assessment sheets are filled in, the assessment is displayed, and entered in the journal. During the passage of each discipline, resident urologists solve advanced clinical tasks on the "Session" platform, which was

developed by the university staff and has a patent. *But it is worth noting that this program does not provide for evaluating the validity and reliability of evaluation methods.*

The department evaluates the reliability and validity of assessment methods by examining assessment sheets on an ongoing basis, analyzing and approving tests.

When conducting interviews with teachers regarding assessment methods, experts received convincing information that an objective assessment of theoretical knowledge is carried out using an oral survey and testing, practical skills using checklists, solving clinical problems on the "Session" platform. Residents also shared their opinion on the timeliness of providing tests, consulting before exams, the clarity of the entire assessment procedure and its fairness.

During the visit, the management was asked the question: "Are external examiners involved in order to improve the fairness, quality and transparency of the assessment process?". And the answer was received that during the Final State Certification of residents, leading specialists from practical healthcare are involved as chairmen and members of the SAC. Experts examined the resources for organizing the assessment of knowledge and practical skills, namely, a simulation center with evaluation sheets for each practical skill.

The interviewed representatives of employers also pointed out that the training of graduates of KMU NJSC corresponds to the modern development of medical practice and science, since residents study at the clinic with all powerful human resources and the necessary full equipment to provide qualified and high-tech care to patients. The employers said that they themselves participate in the assessment of residents, as they are included in the examination commissions. The HEI systematically conducts feedback with employers. Employers evaluate the skills of residents on an ongoing basis and gave a high rating during the interview. Also, they believe that they wanted to see such skills of residency graduates as critical thinking and communication skills as the strongest.

The conclusions of the EEC according to the criteria Out of 11 standards comply: fully – 9, partially 2, do not correspond - 0

Standard 3: completed

Recommendations:

- 1) Develop and implement a program to determine the validity and reliability of resident assessment methods (subp. 3.1.4; 3.1.6)

Standard 4: RESIDENTS

Evidence of compliance:

4.1 Admission policy and selection

The admission policy is presented in detail on the website of KMU NJSC. The resident counseling service is represented by the admissions office, the dean's office (dean, deputy dean, chief specialist, specialist), employees of the registrar's office, ITD, library, curators, clinical mentors, military department, accounting, head of legal and passport and visa work. The head of the department told about the policy on the admission of residents. Approaches to the admission of residents are based on the requirements of the country and internal regulations, namely, admission to the residency is carried out in accordance with the Order of the MES RK "On approval of Standard rules for admission to educational organizations implementing educational programs of higher and postgraduate education" dated October 31, 2018 No. 600, SCES RK – 2022.

Applications for the residency are accepted from July 3 to July 25. Entrance exams to the residency are held from August 8 to August 16, enrollment – until August 28. Residency classes begin on September 1. Admission of citizens to the residency is carried out on a competitive basis based on the results of entrance exams. Applicants to the residency pass the entrance exam in the specialty. When applying for residency, the applicant's personal achievements, the results of research work, etc., and the Rules for placing a state order, admission to training and training of medical personnel in residency are also taken into account (Order of the MOH RK No. KR DSM-270/2020 of December 15, 2020)

Admission of students to the residency is carried out on the basis of the Academic Policy of the KMU NJSC of the section "Admission rules, student progress, certification", which is reviewed annually (Appendix 24).

Admission of persons entering the KMU NJSC for the educational residency program of the specialty "Urology, adult, children" is carried out according to their applications on a competitive basis based on the results of the entrance exam. For the period of the entrance examinations to the residency, examination and appeal commissions for specialties are created.

The number of applications is reviewed regularly, taking into account the needs and the situation on the labor market. The procedure for determining the number of resident doctors accepted is regulated by the State Order of the Ministry of Health of the Republic of Kazakhstan, taking into account the possibilities of clinical, practical training, the maximum permissible load on curators, the availability of educational, methodological and scientific literature, the throughput capacity of clinical bases, as well as the material and technical resources of the University. Enrollment of persons in the residency is carried out based on the results of the entrance exam in the profile and those who have scored at least 50 points out of a possible 100 points for commercial department. Persons who have scored the highest points on the entrance exam are enrolled for training under the state educational order on a competitive basis: for residency – at least 75 points. Assessment of knowledge based on a point-rating system taking into account all forms of activity – scientific, educational, etc. – ensures the validity of the procedure for admission of residents and guarantees the availability of the necessary basic knowledge of applicants.

The duration of mastering the educational program of the residency in the specialty "Urology and andrology for adults and children" is 3 years. Changes concerning admission to the residency are reflected in the Academic Policy of the HEI, in the admission rules. So, for example, in 2020, in accordance with the circular letter of the Ministry of Health (ex. No. 14-02-11/3875-I dated July 16, 2020), graduates of the internship in 2020 must find a job in medical institutions by July 22 of this year in accordance with the decision of the Republican Commission for the Personal Distribution of Young Specialists dated June 30, 2020. A prerequisite for admission to residency in 2020 and 2021 is the availability of a place of work in medical organizations. Persons working in dispensaries, infectious diseases hospitals, polyclinics, ambulance stations will have a preferential right in the competitive selection.

The website of KMU NJSC presents information materials on admission – a list of documents, programs for admission; Academic policy, a catalog of elective disciplines, academic calendar, schedules. The page is accessible to an external user.

The number of residents is determined based on the possibilities of clinical training, as well as the needs of practical healthcare.

Thus, the experts carried out data validation according to **Standard 4**. In general, all the criteria meet, there are no disadvantages. The experts got acquainted with the documentation on the admission of residents, including the "Academic Policy". Regarding the practice of academic counseling, personal support of residents and the development of not only professional skills, experts interviewed clinical mentors. The organization has a program for the development of residents, which includes residents in advisory bodies, such as the EPC, AC, and the Council of Young Scientists.

The HETP of the department conducts career guidance work among students of bachelors, interns, priority areas of training in residency are determined. At meetings with graduates, information is provided about the content of the educational program in the specialty, clinical bases, HETP, etc. Information about the EP in the specialty of residency is available to all interested parties on the university's website.

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 for the training of medical personnel and taking into account the possibilities of clinical, practical training, the maximum permissible load on teaching staff, the

provision of educational, methodological and scientific literature, as well as the material and technical resources of the University.

During the entire existence of the residency, 21 urologists-andrologists have been released, at the moment 15 people are studying. The number of accepted residency trainees corresponds to the possibilities of clinical and practical training, the maximum permissible load on managers, as well as the logistical capabilities of the organization. The number of accepted residency trainees is constantly coordinated with the relevant stakeholders, taking into account the need for medical personnel in various fields of medicine. The revision is carried out regularly taking into account the needs of the industry and the situation on the labor market.

4.3 Support and consultation of residents

Support and consulting in the residency in the specialty "Urology and andrology" is carried out with the direct participation of a teacher or a clinical mentor of the clinical base where the training of resident urologists-andrologists is carried out. Consulting on all issues of the organization of the educational process for the development of compulsory and elective disciplines is carried out by the curator, the head of the clinical department, the School of Residency and Professional Development. The staff of the School of Residency and Professional Development together with the staff of the department provide information support, advise and guide in choosing a specialty. Information about residency training is also posted on the official website of the University (education→applicant→entrance exams for postgraduate education (master's degree, residency, doctoral studies) →residency, the Portal of the KMU NJSC and the Student portal of the KMU NJSC).

In order to ensure and maintain an active dialogue with students, the schedule of work of managers at all levels has determined the time for meetings. On the official website of KMU NJSC <https://qmu.edu.kz/ru> there is a virtual reception of the rector, which allows students to submit their proposals for optimizing management processes. Also, students can send their proposals to deans, vice-rectors and other heads of structural divisions via corporate e-mail.

To ensure effective information support for the management of educational activities of the university, the automated information system "PLATONUS" is used, which informs students about the conduct of the educational process, and also provides the opportunity for electronic interaction with the information systems of authorized bodies (ESUVO). Since 2018, a student service center has been operating in the KMU NJSC, providing services on the principle of "one window".

Also in the "Structure" tab there is a "Reception schedule for personal issues of the rector and vice-rectors". The heads of departments receive visitors during the working hours of the departments. All departments have established schedules for teachers' consultations. To ensure effective information support for the management of educational activities of the university, the automated information system "PLATONUS" is used, which informs students about the conduct of the educational process, and also provides the opportunity for electronic interaction with the information systems of authorized bodies (ESUVO). If a resident fails, the head of the EP informs the Dean's office of the School of Residency and Professional Development.

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

Financial support consists in providing residents studying under the grant with a monthly scholarship, a hostel is provided to those in need on a first-come, first-served basis. The university has developed a "Regulation on sending students to the trip of the KMU NJSC, approved on April 5, 2021, which regulates issues related to the financial support of events held outside the university. For social and personal support of residents, there is a youth work department, a compliance officer, a student service center, which are structural units implementing the state youth policy, civil-patriotic, legal, moral, professional, aesthetic, ethno- and multicultural education of residents. The main objectives of the Youth Work Department are the implementation of the university's policy in the field of moral patriotic education of students, the implementation of measures aimed at revealing the creative potential of youth, as well as the implementation of the state youth policy. The compliance

officer organizes the work on the formation of an anti-corruption culture, on issues of respect for integrity and ethics, on the identification and reduction of corruption risks, the implementation of the main directions of the anti-corruption legislation of the Republic of Kazakhstan.

In order to reveal the creative potential of residents, great attention is paid to socio-cultural, educational, scientific work with students. An effective form of disclosure of the creative potential of residents is the cultural and mass work carried out by the creative circles of the KMU NJSC. Currently, there are 27 circles functioning in the KMU NJSC.

For those who want to learn foreign languages and improve their language skills, there is an English club and a Multilingual Club. Since 2013, there has been 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 Republic "Samruk" is a student self-government body in the field of implementation of 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 Regulations on the Scientific Society of Young Scientists and Students of the University.

The University and directly the faculty of the department and clinical mentors support residents in career planning and employment issues. KMU NJSC provides support in improving the professionalism of residents. In particular, residents participate in internships, scientific conferences, professional webinars, forums, projects dedicated to urology and andrology.

The University provides support in case of a professional crisis and involves resident urologists-andrologists in solving their problem situations. If there are cases of various disagreements with colleagues, residents use a wide opportunity to choose a clinical base, discuss problems personally with the head of the EP, the curator, respecting confidentiality. The Student Support service provides psychological adaptation and information support for students (there are full-time psychologists at the university). This service operates at the university on the basis of the Regulations on the student support service of the KMU NJSC.

Support and counseling in the residency in the specialty "Urology and andrology for adult, including children" is carried out with the direct participation of the curator or clinical mentor of the clinical base where the training of residents is carried out.

Thus, during the conversation of the EEC experts with residents, it was established that safe conditions for training residents were created and provided in the KMU NJSC. To protect the interests of residents, to assist them in educational, scientific, and non-educational activities, various services are provided for the organization of counseling, psychological, social, and medical support for students. The experts of the EEC confirmed that experienced teachers and professors are involved in the consultation. In addition, before the start of each module, the teacher of the group informs his residents about his work schedule, the time when residents can seek advice on this discipline.

For personal growth and development, sports and creative events in the team there is a sufficient resource base (Internet, WIFI available on the 100% territory of center, library, computer classes, reconstructed and improved territories of the center's buildings). The study rooms are equipped with projectors, a screen, a video wall, and all necessary office equipment.

To develop the intellectual level of residents and expand their knowledge in various scientific fields, residents take an active part in scientific and practical conferences held by the University. Residents are involved in the work of the Council of Young Scientists, which also solves emerging problematic issues. *According to the survey: a variety of teaching methods are used in the process of teaching residents: lectures (18.75%), oral analysis of the topic (59.38%), rewriting thematic information from monographs (6.5%), problem-oriented learning (71.88%), interactive learning (43.75%), execution of abstracts (6.25%), implementation of projects, term papers (37.5%), practical classes on clinical skills in the clinical training center (53.6%), analysis of situational tasks (81.25%), preparation and solution of cases (56.25%), oral survey of students (59.38%), solving tests (46.88%), work in small groups (59.38%), written assignments (50%).*

4.4 Representation of residents

During the conversation with the representatives, it was found out that the quality of the implementation of the educational program is ensured by the participation of residents in the discussion of the mission of the EP, access to which is open through posting on the website of the KMU NJSC. Residents have a real opportunity to participate in the organization of the specialty curriculum during the direct discussion of the educational program, 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 SRPD, the QAC of the School 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 their specialty. Suggestions and recommendations of students are necessarily taken into account by members of advisory bodies and taken into account when forming the final decision of the meeting.

Along with supervisors and teachers, residents are included to participate in the consideration of issues related to the educational process and the approval of training materials on residency, the development of an individual work curriculum and elective disciplines. This fact was also confirmed by residents during their interviewing.

According to the survey results, 79.37% of respondents believe that program managers and teachers constantly involve students in the work of advisory bodies (methodological council, academic council, committees of educational programs), 4.76% answered that no, they do not, while 11.11% do not know anything about it, and 4.76% doubt the answer.

During the visit by the EEC experts, it was confirmed that feedback from residents is being collected at the stage of mastering the taught discipline (at the end of studying the discipline), as well as on issues related to training / work conditions, problem situations.

4.5 Working conditions

On the basis of the Order of the Ministry of Health of the Republic of Kazakhstan dated December 21, 2020 No. KR DSM-305/2020 "On approval of the nomenclature of specialties and specializations in the field of healthcare, nomenclature and qualification characteristics of positions of healthcare workers" residents have the opportunity to work 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 the certificate a specialist received at the end of the relevant internship.

At the same time, combining training with work (no more than 0.5 rates) in areas of activity close to his future specialty, in his free time, is allowed with the consent of the curator, the head of the department and the curator. In the presence of certificate, residents of the 2nd year of study are allowed to conduct independent medical activities in public and private medical institutions, outside of school hours.

During the visit to the clinical base, experts found that residents have unlimited access to patients, to all medical manipulations, can work in the IHIS electronic system, to all types of medical equipment and to all departments of clinical bases. Information about residency training is also posted on the official website of the University <https://www.qmu.edu.kz/media/qmudoc/OPResRus.pdf>

88.89% of residents answered that they personally have access to equipment (educational and real) in order to master practical skills in their specialty, 7.94% of residents partially agree with it. There are offices for conducting theoretical classes with residents, there is a separate room for rest, changing clothes, eating, etc. 90.48% of residents are fully satisfied with the conditions and equipment of classrooms and classrooms of the university, 7.94% of residents are partially satisfied, 1.59% of residents are completely dissatisfied.

The educational load of residents is planned according to the Law of the Republic of Kazakhstan "On Education". The schedule of classes from 8 am to 5 pm is regulated by the EP, developed on the basis of SCES 2022, sanitary and epidemiological rules and regulations, curricula and recommendations of health and education authorities.

Work in the residency is the main and dominant duty of the resident.

The EP maintains a balance of all types of activities: patient management, work in IHIS, participation in anesthesia, night shifts, participation in clinical and anatomical conferences, etc. A resident's duty schedule is drawn up in a certain unit of the clinical base, according to the discipline. Residents with work experience may have an individual learning trajectory (with rotation by departments), and the choice of elective discipline also affects the learning trajectory.

Conclusions of the EEC according to the criteria. Out of 30 standards comply: fully - 30.

Standard 4: completed

Recommendations for improvement identified during the external visit: none

Standard 5: TEACHERS

Evidence of compliance:

5.1 Recruitment and selection policy

The KMU NJSC has formed and is implementing a personnel policy and a management system for the effectiveness of employees' activities to maintain at an optimal level the numerical and qualitative composition of employees, their professional and social development to ensure the high quality of the educational process and the training of competitive specialists in the residency, taking into account the needs of the labor market.

The policy of selection and admission of academic staff at the University is carried out in accordance with the Labor Code of the Republic of Kazakhstan No. 414-V dated November 23, 2015 (with amendments and additions as of November 18, 2022),.

Rules for the admission of employees for employment in the KMU NJSC (AR KMU NJSC 12/4 Version 2), the Rules of competitive replacement of vacant positions (AR KMU NJSC 0/9 dated April 5, 2022), personnel policy, which reflects the procedure and rules for the selection of potential employees in accordance with the requirements of standard qualification characteristics of positions of medical education workers on the basis of the order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 13, 2009 No. 338 "On approval standard qualification characteristics of positions of teaching staff and persons equated to them" with additions and amendments as of March 31, 2022.

Announcements of competitions are publicly available on the university's website, which allows both university employees and third-party applicants to participate in the competition. The decision on hiring employees is made collectively by the commission for conducting interviews with candidates for employment.

The University conducts a personnel policy taking into account the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 606: "On approval of the average ratio of the number of students to teachers for calculating the total number of teaching staff of higher and (or) postgraduate education organizations, with the exception of military, special educational institutions, educational organizations in the field of culture".

The ratio of classroom work to the total academic load of the educational program of the residency is 10% of the volume of each discipline of the EP. For the effective development of practical competencies by residents, clinical mentors are involved in work at the clinical base.

The resident is trained on the basis of an individual education plan (IEP), compiled in accordance with the working curriculum and the standard curriculum in the specialty, taking into account the elective disciplines chosen by him. IEP is discussed and approved at a meeting of the department. The amount of study load and clinical work in the specialty sections is determined by the individual work plan of the resident doctor to ensure sufficient time for preparation and mastering of the disciplines and skills, taking into account the specifics of the specialty.

The Department of Human Resources Management (HRM) conducts an independent assessment of the competencies of the HETP. The university has implemented an employee performance management system (EPMS), a competition "Best by profession" for HETP of clinical departments (AR KMU NJSC 12/7 Version 2), a competition "Best by profession" for HETP, a

questionnaire of students "Teacher through the eyes of students" to assess the achievements of teachers of the residency program.

According to the Regulations on Residency (AR KMU NJSC 4-4 Version 2), training sessions in the residency are conducted by persons with a doctorate or PhD degree, an academic PhD degree, as well as doctors who have a certificate for admission to clinical work and experience of at least 5 years, which correspond to the profile of the discipline taught. This information was confirmed as a result of the visit of experts to the university.

The following employees work at the Department of Surgical Diseases to train residents in the specialty "Urology and andrology for adult and children":

1. Yerkebulan Asamidanov, Associate Professor of the Department of Surgical Diseases, PhD, urologist-andrologist of the 2nd qualification category. The head of the urological service of the clinic of the Medical University, is the head of the educational program

2. Zhunusov Serik, PhD, Associate Professor, urologist-andrologist of the highest qualification category, head of the Department of Urology of the Regional Clinical Hospital, chief freelance urologist of the Health Department of the Karaganda region (HDKR).

3. Abenov Boranbai – clinical mentor, urologist, head. department of the SME Zhezkazgan Multidisciplinary Hospital;

4. Dmitry Pak – clinical mentor, urologist, Head of the Department of Emergency Urology of the SME Regional Clinical Hospital of HDKR;

5. Alexander Tsvetkov - clinical mentor, urologist of SME Karaganda MH No. 1,

6. Omarov Evgeny - clinical mentor, head. department of the SME Central Hospital of Temirtau.

In order to verify the data of Standard 5, external experts obtained the opinion of teachers on the personnel policy, which includes the policy of recruitment and admission of teachers and clinical mentors, stimulation and motivation of practical healthcare professionals. The conversation with the head of the personnel department of KMU NJSC included such questions as how specialists are attracted and motivated to educational activities and allowed experts to learn about approaches to attracting employees of the clinical base for teaching, about the strategy and tactics of recruiting teachers, information security of the educational program, as well as to identify problems in human resource management and development, all clinical mentors in the discipline have completed courses of pedagogical skills and are proficient in teaching methods.

During the survey of teachers, it was found that the majority (93.75%) are completely satisfied with the organization of work and workplace in this educational organization, but 6.25% are partially satisfied. In this educational organization, teachers have the opportunity to engage in scientific work and publish the results of research - 90.63% - fully agree, 9.38% - partially agree. Satisfied with the work of the HR service (HR) - 87.5% fully agree, 9.38% partially agree. Satisfied with the salary - 53.13% fully agree, 12.5% disagree, 25% - more "Yes" than "NO", 9.38% - more "NO" than "YES".

5.2 Teacher commitment and development

Experts have received evidence that the teachers of the residency program are provided with ample opportunities for professional and personal improvement: internships, seminars, an internal system of professional development, state and English language courses, cooperation with foreign universities and recognized experts from near and far abroad in the profile specialty within the framework of academic mobility programs, information and communication technologies are highly developed. There is a developed system of social support - sports infrastructure, preferential treatment in a dental clinic, an active trade union, catering.

The staff of the Department of Surgical Diseases systematically undergo advanced training in educational, clinical, scientific areas of activity. Information about teachers involved in the implementation of the EP "Urology and andrology for adult and children" and trained in professional skills are presented below:

1. E.M. Asamidanov, was trained on the topic "Topical issues of urology and andrology" from July 15, 2019 to July 26, 2019, 108 hours; on the topic "Endovideosurgical interventions in urology" from November 9, 2020 to November 20, 2020, 108 hours.

2. S.A. Zhunusov took part in the work of the Ist Congress of Urologists of the CIS countries and the XIV Conference of young Medical scientists of the CIS countries dedicated to the 25th anniversary of independence of the Republic of Kazakhstan, which were held at the Scientific Center of Urology named after Academician B.U.Jarbusynov JSC (June 9-10, 2016); listened to the lectures of the seminar on "Modern methods of HPV treatment: The use of the drug "Panavir", May 19, 2017, 3 hours; participated as a listener in the Interdisciplinary Forum of the Scientific Center of Urology named after B.U.Jarbusynov "Topical aspects of reproductive health" on November 2, 2018, 15 academic hours; participated in the XVIII Congress of the Russian Society of Urologists united with the Russian-Chinese Forum on Urology (November 8-10, 2018); completed a training course on safety standards in endoscopy (November 24, 2018); took part in the seminar "Preparation of examiners for an objective structured clinical exam" (June 12-14, 2019), 18 hours; took part as a listener in the master class "Innovations in urology: (conservative and operational approaches)" June 20-21, 2019, 16 hours; took part in the Scientific and practical conference "Urology of Kazakhstan, from history to prospects"; in the XXII Congress of the Russian Society of Urologists (September 14-17, 2022).

3. A.S. Tsvetkov: was trained on the topic "Topical issues of urology and andrology", November 9-21, 2020, 108 hours; on the topic "Endourology, including pediatric endourology", July 1-14, 2022, 120 hours.

During the conversation of the EEC experts with representatives of management personnel, it was established that the personnel policy of KMU NJSC for personnel development consists in planning, developing measures to stimulate and reward achievements in work. The types of incentives and the procedure for their application are determined by the legislation of the Republic of Kazakhstan.

One of the priority directions of the development of the HETP of the residency is to increase the level of pedagogical skills. During the reporting period, the teachers of the department underwent advanced training on the following topics: "Development of communication skills of teachers of clinical disciplines at the university", "Standardized patient in medical education", "Effective teacher", "Development of communication skills of students in clinical disciplines".

At a meeting with the head of the personnel department and during interviews with teachers, experts received an opinion on approaches to the development of teachers' pedagogical competence, motivation to work with residents, mentoring, which includes the organization of cycles of improving pedagogical qualifications (a certificate of completion of a cycle of 60 hours), financial incentives in the form of bonuses for employees. *Regarding the support of participation in conferences (international, republican), 62.5% of teachers were paid for travel, travel, registration fees, 9.4% - only travel, 3.1% of the interviewed teachers were not paid, 15.6% did not contact the management about this, 9.4% of respondents did not respond.*

Experts have found that teachers initiate research topics for residents, stimulate the need for additional training and independent work with literature, medical documentation. Confirmation of this fact was received during an interview with residents.

There is an opportunity for career growth and development of teacher competencies at the university - 89.6% of the surveyed teachers answered, and 9.4% partially agree with this. 87.5% of respondents studied at professional development courses, 9.4% of respondents studied more than 5 years ago, 3.1% of respondents studied does not remember when it was.

82.1% of teachers fully agree that they can be realized as professionals in their specialty in this educational organization, and 17.9% partially agree.

The university implements programs of social support for teachers - 78.1% answered that "yes, there are such programs", 3.1% "I have already used it", 3.13% of respondents answered that there are no such programs, and 15.6% of respondents do not know about it. Of all respondents, 75% note

that the management of the organization systematically listens to the opinion of teachers regarding questions on the educational process, research, clinical work, 14.3% of residents believe that it happens sometimes, 10.7% of residents did not give an answer.

It is noteworthy that 95.2% of the residents surveyed are satisfied with the activities of mentors, curators and scientific supervisors, 4.8% are partially satisfied.

Conclusions of the EEC according to the criteria. Out of 7 standards comply: fully -7.

Standard 5: completed

Recommendations for improvement identified during the external visit: none

Standard 6: EDUCATIONAL RESOURCES

Evidence of compliance:

6.1 Logistics and equipment

The University has sufficient material and technical base to create all conditions for the training of qualified specialists in the specialty "7R01128- "Urology and andrology for adult and children".

The material and technical base of the university includes: lecture halls, study rooms, educational and research laboratories, a library, information technology facilities, cultural and social facilities, university clinics, clinical bases - leading medical institutions of Karaganda.

The total area of the main academic buildings of the university is 29160.6 sq.m., the area of dormitories is 30162.9 sq.m. Lecture halls and auditoriums are equipped with modern computers and multimedia equipment with Internet access. On the territory of the Medical University Clinic (2122 sq.m.) there are also study rooms. All clinical bases have conditions for providing first aid to residents, anti-epidemic measures are observed, conditions for independent work of a resident (IWR) are created.

At the clinical bases, residents undergo initial safety instruction and fixation in the Safety and health log. At intervals of 6 months, residents undergo repeated safety instruction. The person responsible for this is the clinical mentor. The control of ensuring safe working conditions and occupational safety at workplaces is assigned to the heads of structural divisions.

The library plays a leading role in providing residents with information resources. The total area of the library is 1526 sq. m., the book storage area is 941.6 sq. m. The number of seats in the reading rooms is 443. The libraries include: the department of acquisition and bibliography and the department of maintenance of scientific and educational literature (consists of a subscription of scientific literature, two subscriptions of educational literature, a reading room and a hall of periodicals, a hall of electronic resources, an interactive hall). The library's computer park consists of 113 computers that are connected to the Internet. The Wi-Fi zone is distributed throughout the library. There are 2 scanners installed for users in the electronic resources hall. The interactive hall is equipped with a short-focus projector. For students, there is a Researcher's Hall equipped with 15 computers connected to the Internet, which allows them to have access to all information resources of the university.

There are 2 information kiosks installed in the library, with the help of which users can make an electronic order of the necessary literature from an electronic catalog based on the WEB-IRBIS module.

The survey of teachers showed that 71.4% of respondents fully agree that the organization has enough equipment and resources to train residents in accredited programs, 25% partially agree, 3.6% doubted the answer.

The teachers replied that during the classes, they have a syllabus and UMKD (96.4%), control and measuring instruments (75.0%), a training journal (60.7%), monographs (46.4%), a log of workings (25.0%).

The level of previous training of residents when applying for training programs fully satisfies 57.1% of respondents, 39.3% of residents are partially satisfied, 3.6% of residents did not give an answer.

85.7% are completely satisfied with the organization of the educational process, 10.7% are partially satisfied, 3.6% completely disagree.

6.2 Clinical bases

The main clinical bases of the 7R01128 program "Urology and andrology for adult and children" are the SME Regional Clinical Hospital, the Clinic of the Medical University of the KMU NJSC, the Karaganda Multidisciplinary Hospital No. 1, Central Hospital of Temirtau, Multidisciplinary Hospital of Zhezkazgan.

Residents have the opportunity to study at these clinical bases, where there are offices of an adult/pediatric urologist, a day hospital, a clinical and biochemical laboratory, functional and ultrasound diagnostics rooms, an endoscopy room, an X-ray room, operating rooms equipped with modern equipment.

The members of the expert commission visited the Regional Clinical Hospital with a bed fund of 100 beds, of which 60 are surgical, including 6 beds for children with surgical and urological diseases. The university staff ensures collegial and ethical relations with medical staff, the management of the clinical base. A sufficient number of thematic patients have been provided, which are available to residents. The staff of the clinics simultaneously perform the roles of teachers and clinical mentors, provide high-quality training in compliance with ethics and deontology. Before starting the relevant discipline of the educational program, the resident receives a syllabus from the teacher and knows what skills he should acquire and develop during the training.

The experts decided that the courses of the clinics correspond to the objectives of the residency program in the specialty "Urology and andrology for adult and children".

During the interview with the residents, experts asked questions about satisfaction with training, sufficiency of time for the clinic, working out practical skills, working with patients, working in IHIS and Damomed with medical documentation, satisfaction with teaching methods and teachers' qualifications, social and moral support, participation in "Magazine Clubs", availability of an international database resource professional literature. In general, residents are satisfied with the training, assessment methods, and purposefully enrolled in the KMU NJSC, as they believe that the university has good resources, image and international relations. Residents showed their commitment to the University, were active in answering questions from external experts, demonstrated their judgment on the organization of training, assessment of their skills, advisory support, opportunities to participate in research, financing. Experts have studied the documents of residents (portfolios, the results of the assessment of residents-checklists, the results of the survey of residents).

The results of the survey of residents showed that 87.3% of respondents are satisfied with the organization of the conditions of rest and nutrition of students (rest rooms) on the territory in between classes, 9.52% are partially satisfied.

6.3 Information technology

In order to implement the tasks of digital transformation with the use of modern IT technologies, the Program "Informatization Roadmap - 2021" was developed and approved at KMU NJSC (Order of the Acting Rector No. 30 dated February 7, 2017 on the basis of the decision of the University Council dated January 31, 2017, Protocol No. 3). Information support of residents' work under the accredited educational program "Urology, andrology for adults and children" is carried out through: Mass media (Facebook, Telegram, etc.), the website of the university and the clinical base; electronic ticker; television monitors in the foyer of academic buildings; official information boards of the rector's office, deans.

Residents and teachers have access to the following educational electronic resources: Cochrane Library, CBS eBooks, EBSCO, BMJ Best Practice, BMJ Learning, electronic library of medical university "Student Consultant, electronic medical library "Doctor Consultant".

Informing users is carried out by sending mail to Outlook corporate mail, as well as posting information on the university's website, the portal and the student portal of the KMU NJSC, the page on the social network Instagram and the Telegram messenger. The website has a section "Library" in Kazakh, Russian and English. The library's feedback with readers is carried out on the student portal

and Telegram bot, in which students have the opportunity to ask a question, view the calendar of events, documents, instructions and videos on working with electronic resources, etc. Every year, the library conducts monitoring (questioning) of all categories of readers on the quality of the use of the reference and search apparatus, as well as on issues of improving and expanding the library's information resources base.

When preparing educational and methodological literature, teachers use the educational resources of the library (electronic textbooks, electronic manuals, scanned educational literature), the Internet, as well as the results of their own scientific and research activities. *63.2% of residents are fully and 15.8% are partially satisfied with the library fund of the KMU NJSC, while 21.0% are partially dissatisfied. 84.2% of residents are fully provided with the necessary educational literature, 5.3% answered that partially, while 10.5% believe that they were not provided with the necessary literature.*

At the clinical bases of the university there is an opportunity to hold conferences, meetings, classes in a remote format. For this purpose, special Microsoft teams 365, Zoom programs are used, which provide free communication of teachers and residents via the Internet.

6.4 Clinical teams

Residents of specialty 7R01128 - "Urology and andrology for adult, children" work closely in a team with residents and doctors of various specialties of therapeutic, surgical and pediatric profile.

Independent work of residents under the guidance of a clinical mentor at clinical bases is constantly accompanied by the participation of residents in teamwork together with fellow residents of related specialties ("General Surgery", "Obstetrics and Gynecology", "Pediatrics", "Anesthesiology and Resuscitation", etc.), which is expressed in a joint discussion of the patient management plan, taking into account the recommendations consulting doctors.

Residents take an active part in conducting telemedicine sessions, followed by recording the results of an interdisciplinary consultation in the CMIS, participate in air ambulance teams during the transportation of severe patients, in pathoanatomical conferences, commissions for the study of fatal outcomes.

Residents in the course of clinical practice provide advisory and methodological assistance to interns of the 6th and 7th year of the specialty "General Medicine" with the supervision of patients of various profiles, including those in the intensive care unit. Methodical assistance of residents to interns of this specialty is also provided in the conditions of the CSET in the form of tutoring.

On a daily basis, resident urologists participate in the joint management of patients with mentors, coordination of the plan of diagnostic and therapeutic measures, etc. Residents themselves conduct seminars on topical issues of urology, where students are both students of all levels, as well as health care and HETP.

Residents develop skills of coordination of work with colleagues and other healthcare professionals during examination, patient treatment, and, especially, when providing care to patients. *Students have free access to subjects and facilities at clinical bases and all conditions for improving their practical skills – 85.7% of teachers fully agree with this.*

6.5 Medical research and achievements

The scientific research of the staff of the Department of Surgical Diseases with the course of urology is the basis of the scientific work of the residents. There is experience in conducting joint scientific work with the faculty of the Department of Microbiology, where resident urologists and their clinical mentors provided research material (tissue fragments from the extracted internal stent catheter) to study the flora of the urinary tract, catheter-associated infection. *During the conversation with the residents, it was found out that they take an active part in the implementation of the scientific work of the department and clinical bases. According to the results of the survey, 74.6% of residents confirmed that they are currently engaged in scientific work under the guidance of their teacher or mentor, 11.11% have started planning research, 1.59% of residents have not expressed a desire to engage in research, the same number of respondents are looking for a research topic.*

Interviews with teachers showed that there are no problems in the management of education.

6.6 Expertise in the field of education

The examination of the quality of the implemented educational program is a systematic process and is carried out by the following structures: DAA (approval of the EP), Dean's Office of Internship and Residency (implementation of the EP), Educational Programs Committee (EPC) (planning, development and evaluation of the OP), TGD (monitoring of the EP), Quality Management System Department. The EPC includes teachers, representatives of professional associations, employers, students.

The Accreditation and Rating Department monitored various aspects of educational activities in order to obtain independent information aimed at improving the quality of the organization of the educational process. In the course of each study, recommendations were formed for making changes in order to improve the organization of the educational process at the departments and modules of the university.

The examination is carried out in the form of an analysis of the needs for specialists, an analysis of the methods of teaching residents, and the results allow us to draw conclusions about the quality of innovative changes in postgraduate education.

According to the survey results, 95.24% of respondents were completely satisfied with the organization of teaching (the amount of time for practical training, the venue of seminars, the topics of seminars), 4.76% of respondents were partially satisfied.

6.7 Training in other institutions

Within the framework of academic mobility, memorandums of cooperation were signed with 24 medical universities of Kazakhstan, with 83 universities of the near and far abroad.

As part of the development of strategic partnership, a memorandum of cooperation with Lund University (Sweden) was signed in 2016.

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

On the initiative of the University, the Central Asian International Conference on Medical Education has been held since 2012, the main purpose of which is to exchange experience on improving medical education.

The University participates in the implementation of republican programs and projects of scientific research in the field of healthcare, international multicenter research SMART, METALL, UTIAP.

The staff of the department are working to establish relations, actively interact with republican professional associations on the organization of academic mobility.

The possibility of academic freedom is determined by the fact that the EP is developed on the basis of the National Qualifications Framework corresponding to the qualifications framework for the European Higher Education Area.

Experts have found that there is no residency program jointly developed with partner universities in the specialty 7R01128 "Urology and andrology, adults and children".

Conclusions of the EEC according to the criteria. Out of 21 standards comply: fully – 19, partially -2, do not correspond - 0.

Standard 6: completed

Recommendations for improvement identified during the external visit:

- 1) To retrofit the CSET for carrying out practical skills in the endoscopic plan (p.6.1.2).
- 2) Expand the geography of academic mobility of residents (p.6.7.3)

Standard 7: EVALUATION OF THE EDUCATIONAL PROGRAM

Evidence of compliance:

7.1 Monitoring and evaluation mechanisms

After analyzing the educational program 7R01128 "Urology andrology, adult and children", experts found that the monitoring and evaluation of EP is carried out at all levels, a multi-level approach is used, including profiling / graduating and related departments, profile EPC, DAA, Academic Council, Senate, Student government, Center for Admission and Professional Orientation of Students (general monitoring the quality of educational programs through a survey of stakeholders (employers, professional associations and students).

Created by a team of authors, the program 7R01128 "Urology andrology, adult and children" was discussed at a meeting of the Department of Surgical Diseases (Protocol No. 1, reviewers: chief freelance urologist of the Health Department of the Karaganda region S.A. Zhunusov; Deputy Director of the Central District Hospital of Temirtau D.A. Pak). Then it was considered at the meeting of the School of Residency and Professional Development (Protocol No. 4, June 7, 2019), approved by the Decision of the Board, the Senate of the KMU NJSC (Protocol No. 10, June 27, 2019).

The EP is coordinated with the supervising vice-rector, approved by the Chairman of the Board, Rector of the KMU NJSC. The EP has passed an external examination in the Unified Higher Education Management System (ESUVO) and, after a positive decision of the experts, is placed in the register (http://esuvo.platonus.kz/#/register/education_program/application/24278).

In accordance with the Law of the Republic of Kazakhstan dated July 27, 2007 No. 319-III "On Education", "Rules of competitive replacement of vacant positions of teaching personnel and researchers of KMU NJSC, the university has a quality control system of educational and methodological documentation, including the content of educational programs.

7.2 Feedback from teachers and residents

Teachers and residents have the opportunity to participate in the evaluation and subsequent improvement of the educational program on a regular basis through various [feedback channels](https://kaznmu.edu.kz/rus/wp-content/uploads/2022/02/sop-poryadok-i-formy-provedeniya-obratnoj-svyazi.pdf)<https://kaznmu.edu.kz/rus/wp-content/uploads/2022/02/sop-poryadok-i-formy-provedeniya-obratnoj-svyazi.pdf>. Feedback is carried out at the department 1 time a year, the head of the department and the teacher responsible for the residency are responsible for collecting and processing the results of the discussion.

The QMS Department monitors the satisfaction of internal and external consumers of the university. In 2022, the [degree of satisfaction with the educational programs](https://drive.google.com/drive/folders/1-1XtCDI6Gpoqfz1XbxaJhaLnQNb8tXBW)<https://drive.google.com/drive/folders/1-1XtCDI6Gpoqfz1XbxaJhaLnQNb8tXBW> of the residents of the final courses was 90%, the high level of satisfaction was in relation to clinical bases, technical equipment, teachers.

The feedback results are analyzed, discussed at the meetings of departments, EPC, AC, and published on the university's website (<https://qmu.edu.kz/r>).

The survey is conducted according to the following types: "Teacher through the eyes of students", "Satisfaction of students with the conditions and learning outcomes", "Satisfaction with the infrastructure", "Graduate satisfaction with the quality of training", "Freshman questionnaire". The survey is conducted online via Google, as well as on paper. The coverage of respondents according to various questionnaires ranged from 75% to 95%.

According to the results of the survey "Teacher through the eyes of students", a report and a certificate are compiled for each teacher with an assessment of students. The materials of the survey of all interested parties (students, employers, teachers) are discussed at the department, an analytical report on the results of the survey is considered. The report data are analyzed, compared with real facts, cause-and-effect relationships are clarified and then a decision is made to make changes to the organization of the educational process, EP.

An annual survey of employers is conducted in order to assess the degree of satisfaction of employers with university graduates, to identify the compliance of the educational program with the real requirements of the labor market, to determine the possibilities for its improvement, as well as the degree of compliance of graduates' competencies with positions in the workplace.

7.3 Results of residents and graduates

An important role in the evaluation of the educational program is played by the results of the final certification of residents conducted at the testing stage by the National Center for Independent Examination, as well as the results of certification exams conducted by the Committee for Control of Medical and Pharmaceutical Activities of the Ministry of Health and Social Development of the Republic of Kazakhstan.

In the specialty 7R01128 "Urology andrology, adult and children", the final state certification is planned to be carried out in 2 stages: determination of the level of theoretical training in the disciplines in the form of testing; certification of practical skills in the CSET.

7.4 Stakeholder engagement

Participation of a wide range of stakeholders in the evaluation and improvement of educational programs in the KMU NJSC is provided by the authorized bodies in the field of education and health (MOH RK), representatives of the public, professional organizations, as well as persons and structures responsible for postgraduate education:

1. MOH RK – independent assessment of residents' knowledge.
2. Employers.
3. Representatives of the Committee for the Control of Medical and Pharmaceutical Services and representatives of practical healthcare.

All interested parties (HETP, residents, employers) are involved in the evaluation process of the program through representation in the relevant structures. The work of all structures ensuring the implementation and evaluation of the educational program is regulated by the Charter of the university, the strategic plan for the development of the university, the annual plans and reports of the university, as well as the relevant QMS procedures. The evaluation results are heard at meetings of the Clinical Council, Schools, MS and US, published in the university newspaper and on the university website.

Interviews with employers were conducted offline and included such questions as: knowledge of the university's mission, participation in the development of the mission and proposals to the strategic plan, participation in the work of advisory bodies, satisfaction with the basic knowledge and skills of residents, participation in the training of residents through mentoring, providing the department and residents with the necessary resources for practical training and the formation of clinical thinking, about the problems of interaction with departments and universities in general, 100% employment of residency graduates, etc. Employers noted the high level of knowledge and practical skills of graduates of the residency.

7.5 Procedure for approving educational programs

The educational program in the specialty 7R01128 "Urology andrology, adult and children" has been developed in accordance with the SCES and the Standard curriculum for this specialty.

The University has developed mechanisms for [approving educational programs](#), providing 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 EP and the progress of residents, and ensures the identification and timely solution of emerging problems.

An examination of the EP is carried out, for compliance with the SCES, the CED is approved according to the proposals of stakeholders and taking into account pre- and post-requirements, evaluates the choice of methods for evaluating the results of training of residents. A systematic study and comprehensive evaluation of the EP is carried out in order to improve and guarantee quality (determining the value of the program, achieving the goal, implementing tasks, the degree of compliance with the needs of society, the requirements of employers, the effectiveness of the training methodology). The evaluation of educational and methodological support and support of the

educational process is carried out. For this purpose, a representative of practical healthcare is involved in an external assessment.

The survey of teachers showed the following: 84.4% of respondents confirmed that they personally participate in the development of methodological materials for the residency program, 3.1% participate partially, 12.5% replied that they do not participate in the development of methodological materials.

Conclusions of the EEC according to the criteria. Out of 15 standards comply: fully – 15.

Standard 7: completed

Recommendations for improvement identified during the external visit: none

Standard 8: MANAGEMENT AND ADMINISTRATION

Evidence of compliance:

8.1 Management

The guarantee of the implementation of the program 7R01128 "Urology andrology, adult and children" is its strict compliance with the requirements of the regulatory rules regarding the admission of residents (selection criteria and number), the learning process, assessment of knowledge and skills, established learning outcomes, program management, which are regulated in the Republic of Kazakhstan by regulatory legal acts of the Ministry of Health of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan.

Residents of the specialty 7R01128 "Urology andrology, adult and children" who have successfully passed the state certification will be issued a state-issued document on the qualification of a urologist-andrologist adult, child.

On the basis of the order of the MES RK dated January 28, 2015 No. 39 "On approval of the types and forms of state-issued education documents and the Rules for their issuance", a certificate of completion of residency will be issued. After passing the FA, the NCIE will be issued a specialist certificate.

All activities for the implementation of the OP are carried out under the direct supervision of educational departments, members of the Educational Programs Committee, the Dean's Office, independent experts.

Transparency in the management of the educational program is carried out through discussion of educational and methodological documentation on the residency program at meetings of departments/modules of the CPC, the Academic Council and after receiving their positive conclusion is approved by the Vice-rector for Academic Activities. Syllabuses, test tasks will be placed in [Platonus AIDS](#)

To quickly bring useful information to residents and teachers, there is an electronic moving news line in the center of the university campus, information for which is updated daily. A meeting of the rector with students is held once every two months.

A survey of teachers showed that 96.9% of teachers fully agree that ethics and subordination in relations between colleagues, teachers and management are observed at the university, the remaining 3.13% completely disagree.

90.63% of respondents are completely satisfied with the organization of work and workplace, and 9.38% of respondents are partially satisfied.

8.2 Academic leadership

The management of the educational process, including at the postgraduate level, is carried out according to the [organizational structure of the KMU NJSC](#). The Executive body of the University is its Rector, Chairman of the Management Board. He is personally responsible for financial and economic activities, the safety of the university's property, for the organization of anti-corruption, establishes the competence of the provost, vice-rectors and other university executives, solves all issues of the university's activities in accordance with his competence, determined by the legislation of the Republic of Kazakhstan and the Charter of the KMU NJSC. Residency issues are supervised

by the Vice-rector for Academic Activities in terms of the educational process and the provost in terms of clinical activities.

The residency programs are directly managed and residents' activities are coordinated by the School of Residency and Vocational Education. The activities are managed by the dean appointed to the position by the order of the rector. The general management of the dean's office is carried out by an elected representative body – the Faculty Council, which organizes its work under the supervision of the Dean of internship and residency. The composition of the Council is approved by the order of the Vice-rector. The Council of the Dean's Office consists of the following positions: Dean of the Faculty of Internship and Residency (Chairman of the Council); heads of departments, professors and associate professors of departments; representatives of interested parties (interns, residents, employers). The Dean's Office is responsible for making the following decisions: development and approval of the mission of programs, rules for organizing the educational process in the residency, recommendations for recruiting residents who train residents. The Dean's Office monitors residents, supports relations with the practical healthcare sector and residency graduates, and interacts with other structural units of the University involved in the implementation and support of residency programs (ADD (EPPCD and AMA), ITD). In order to effectively manage the educational process, the EPC is created.

To the question of the questionnaire "Do the heads of the organization listen to your opinion regarding questions on the educational process, research, clinical work?", 84.38% of teachers answered – yes, 12.5% of teachers answered - sometimes, 3.13% of respondents did not answer this question.

8.3 Training budget and resource allocation

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

The financing of the residency program depends on the formation of an annual state order. Every year, the Government of the Republic of Kazakhstan approves the state educational order for the training of specialists with higher and postgraduate education, according to which the financing of bachelor's, master's, doctoral and residency programs is determined by types of educational institutions.

8.4 Administration and management

The University annually makes changes and additions to the organizational structure. The staffing table of departments/modules providing educational residency programs is approved annually taking into account changes in the number of residents. According to Article 52 of the Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III, the total number of teaching staff is formed based on the average ratio of residents and teachers - 3:1.

KMU NJSC is the first medical university of the Republic of Kazakhstan, which successfully passed the certification of the quality management system in 2005 for compliance of educational, scientific and clinical activities with the requirements of the International Standard ISO 9001 series by the certification body NQA – UK (UK), NQA – Russia.

In 2015, the university was certified by the certification body SGS (Switzerland). In 2016, the university was accredited in the field of healthcare for compliance with accreditation standards for medical organizations providing inpatient care with the assignment of the first category.

The system of internal evaluation, monitoring of the teacher's work and the achievement of intermediate and final results of educational programs is carried out through the certification of HETP in all types of activities.

8.5 Requirements and regulations

The University determines and approves the educational program in the specialty 7R01128 "Urology andrology for adult and children" according to the SCES of the MOH RK No. 647 dated July 20, 2022.

The approval of the program takes place in close cooperation with all interested parties. The structure and content of the WC correspond to the SCES for the specialty 7R01128 "Urology andrology for adult and children". The programs of the disciplines have been developed at the proper scientific and methodological level. The sequence of studying the residency disciplines is built using a system of pre- and post-prerequisites.

Conclusions of the EEC according to the criteria. Out of 15 standards comply (including 8 basic, 7 improvement standards): fully – 15.

Standard 8: completed

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

Standard 9: CONTINUOUS IMPROVEMENT

Evidence of compliance:

KMU NJSC always strives to respond in a timely manner to changing internal and external conditions. In order to continuously improve the educational process, in accordance with the best practice of world educational management, taking into account the needs of practical healthcare of the Republic of Kazakhstan, which is under reform, regularly initiates a review and updating of processes.

The policy of selection of residents, methods of selection and admission of residents are adapted annually to changing expectations and circumstances, human resource needs, changes in basic medical education and curriculum requirements.

The regulations on mentoring are updated annually in accordance with the changing needs in postgraduate education. A convincing example of the process of continuous improvement of approaches to the implementation of educational residency programs is the active participation of stakeholders (primarily representatives of employers) in the formation of an educational strategy that reflects the social responsibility of the Institute for the development of advanced innovative technologies in practical medicine and science, the use of information and communication technologies, as well as the strengthening of public health.

Development of organizational structure, control and management to overcome changing circumstances and needs of postgraduate education, and over time gathering the interests of various stakeholder groups.

One of the significant changes aimed at improving work with graduates of KMU NNJSC, based on the Department of Distribution and Employment of graduates, a Graduate Career Center was created.

Conclusions of the EEC according to the criteria. Out of 4 standards comply: fully – 4.

Standard 9: completed

Recommendations for improvement identified during the external visit: none

Conclusion: When conducting an external evaluation of the educational program, it was found that out of **147 standards** (including basic standards – 91 and improvement standards – 56), 143 accreditation standards, including 89 basic standards and 54 improvement standards, demonstrate full compliance. 2 basic standards and 2 improvement standards have been partially implemented. Non-compliance with the standards has not been established. The implementation of improvement standards testifies to the compliance of the educational organization with international best practices in postgraduate education, clinical training and science.

5. Recommendations for improving the educational program 7R01128 "Urology and andrology, adults, children"

1. Develop and implement a program to determine the validity and reliability of resident assessment methods (3.1.4; 3.1.6)
2. Retrofit the material and technical equipment of the Central Medical Center for conducting practical skills in minimally invasive urology (6.1.2)
3. Expand the geography of academic mobility of residents (6.7.3)

6. Recommendation to the ECAQA Accreditation Council

The EEC members came to the unanimous opinion to recommend the Accreditation Council to accredit the **7R01128 "Urology and andrology, adults, children"** educational program of **Karaganda Medical University NJSC** complying with the Standards for Accreditation of Residency Educational Programs of Medical Education Organization for the period of 5 years.

6. Рекомендация Аккредитационному совету ЕЦА

Члены ВЭК пришли к единогласному мнению рекомендовать Аккредитационному совету аккредитовать образовательную программу 7R01128 «Урология и андрология взрослая, детская» НАО «Медицинский университет Караганды», соответствующую Стандартам аккредитации образовательных программ резидентуры медицинских организации образования на период 5 лет.

Председатель Внешней экспертной комиссии
КУДАБАЕВА ХАТИМЯ ИЛЬЯСОВНА

Зарубежный эксперт
РЫЖКИН СЕРГЕЙ АЛЕКСАНДРОВИЧ

Зарубежный эксперт
АФРИКЯН ШУШАНИК ГЕВОРКОВНА

Национальный академический эксперт
УРАЗОВА САЛТАНАТ НУРГОЖАЕВНА

Национальный академический эксперт
ШАБДАРБАЕВА ДАРИЯ МУРАТОВНА

Национальный академический эксперт
РАМАЗАНОВА РАЙГУЛЬ МУХАНБЕТОВНА

Национальный академический эксперт
ЖУМАЛИНА АКМАРАЛ КАНАШЕВНА

Национальный академический эксперт
ТУЛЕУТАЕВА РАЙХАН ЕСЕНЖАНОВНА

Национальный академический эксперт
БАЙГОЖИНА ЗАУРЕ АЛПАНОВНА

Национальный академический эксперт
РАМАЗАНОВА ШОЛПАН ХАМЗАЕВНА

Национальный академический эксперт
ЕРАЛИЕВА БИБИХАН АБДАЛИЕВНА

Национальный академический эксперт
ИСПОСУНОВА ГУЛЬНАРА АХМЕТКАЗЫЕВНА

Национальный академический эксперт
ДОШАКАНОВА АСЕЛЬ БАЙДАУЛЕТОВНА

Национальный академический эксперт
ДОСАНОВА АСЕМ КАЛЕЛОВНА

Эксперт- представитель практического здравоохранения
ДАНИЯРОВА БАЯН ЛАШИНОВНА

Эксперт – представитель докторантов
ОРАЗБАЙ АҚНҰР ДӘУРЕНҚЫЗЫ

Эксперт – представитель резидентов
ҚҰРАҚ АЙДАНА ЖАНАЙДАРОВНА

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

Standard	Assessment criteria	Number of standards	BS*/IS	Assessment		
				Correspond in full	Correspond partly	Doesn't correspond
1.	MISSION AND END RESULTS	17	10/7	10/7		
2.	EDUCATIONAL PROGRAM	30	22/8	22/8		
3.	ASSESSMENT OF RESIDENTS	11	7/4	5/4	2/	
4.	RESIDENTS	30	18/12	18/12		
5.	ACADEMIC STAFF/TEACHERS	7	5/2	7/2		
6.	EDUCATIONAL RESOURCES	21	10/11	10/9	/2	
7.	EVALUATION OF THE EDUCATIONAL PROGRAM	15	10/5	10/5		
8.	MANAGEMENT AND ADMINISTRATION	15	8/7	8/7		
9.	CONTINUOUS IMPROVEMENT	1	1/0	1/0		
		147	91/56	89/54	2/2	
				143	4	

The list of documents studied by the members of the EEC as part of the external assessment of the residency educational program

No.	Name of documents	Quantity
1.	Certificate of International Accreditation of Educational Programs 2016.	3
2.	State Standard SCES 2022 (Order No. 63 dated July 04, 2022)	1
3.	Law of the Republic of Kazakhstan No. 319-III “On Education” dated July 27, 2007	1
4.	Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 “Standard Rules of Enrollment in Educational Organizations Implementing Educational Programs of Higher Education”	1
5.	Order of the Minister of Health Care of the Republic of Kazakhstan dated December 15, 2020 No. KR DSM-270/2020 “On Approval of the Rules for Placement of the State Order, Enrollment for Education and Training of Medical Personnel in Residency”	1
6.	Order of the Minister of Health Care of the Republic of Kazakhstan dated July 4, 2022 No. KR DSM-63 “On Approval of State Compulsory Standards by Levels of Education in the Field of Health Care”	1
7.	Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 “On Approval of the Rules for the Organization of the Educational Process on Credit Technology of Education”	1
8.	Order of the Minister of Health Care of the Republic of Kazakhstan dated December 11, 2020 No. KR DSM-249/2020 “On Approval of the Rules for Evaluation of Knowledge and Skills of Students, Evaluation of Professional Preparedness of Graduates of Educational Programs in the Field of Health Care and Specialists in the Field of Health Care”	1
9.	“Regulations on the Residency of KMU NJSC”, approved by the decision of the Board dated August 23, 2022, Resolution No. 18	1
10.	Order No. 182 dated September 05, 2023 "On Residency"	1
11.	Academic Policy of KMU NJSC (approved by the decision of the Senate dated August 27, 2021, Resolution No. 1)	1
12.	KMU NJSC Code of Business Ethics	1
13.	Articles of Association of the KMU NJSC	1
14.	Register of educational programs of the UHEMS of the MES RK	1
15.	7R01106 “Pediatric Surgery” educational program	1
16.	List of QMS documents in force in KMU NJSC	1
17.	Composition of collegial advisory bodies of KMU NJSC : Senate of KMU NJSC , Council of SRPD	1
18.	TM in 7R01106 “Pediatric Surgery” specialty	12
19.	Profiles of social pages of KMU NJSC , Department of Surgical Diseases	3
20.	Catalog of elective disciplines on 7R01106 “Pediatric Surgery” specialty	1
21.	“Session”, “Platonus” automated systems	2
22.	Documents confirming participation of residents in scientific and practical conferences of national and international importance	4
23.	Acts of implementation in the specialty of the accredited educational program	2
24.	Personalized resident work plan	9
25.	Reprints of resident articles	1

26.	Certificates of additional resident training	1
27.	Documents confirming the participation of residents in the sanitary and educational work of medical organizations	4
28.	Minutes of the meeting of the academic committee of the residency school	4
29.	Results of the employer's survey	2
30.	Results of the survey "Evaluation of Satisfaction with the Educational Process among Students"	1
31.	Certificates of HETP on professional development in the field of interpersonal interaction in medicine and professional behavior	2
32.	Algorithm for critical appraisal of clinical protocols for diagnosis and treatment AGREE II	1
33.	Order No. 1 "On Approval of the List of SUE Members by Residency Specialties"	1
34.	Order of the Minister of Health Care of the Republic of Kazakhstan dated December 21, 2020, No. KR DSM-304/2020, "On Approval of Provisions on Clinical Base, Clinic of Health Care Education Organization, University Hospital, Residency Base, Integrated Academic Medical Center and Requirements for them"; SCES, Order of the MH RK dated July 04, 2022, No. KR DSM-63	1
35.	Contracts with clinical facilities https://disk.yandex.ru/d/Wx2LxPDGo4UA3w	7
36.	Certificate of state registration of rights to the copyright object No. 99 dated January 22, 2015 "Estimated Forms of Independent Work of a Student in a Medical University (scientific work)", authors Dosmagambetova R.S., Laryushina E.M., Turgunova L.G. et al.	2
37.	Employer survey results for 2022	1
38.	Evaluation sheet "night / day / daily duty in a surgical hospital"	1
39.	Evaluation sheet "medical record keeping / medical record" in a surgical inpatient unit	1
40.	Evaluation sheet "360° - resident evaluation" for all areas of training	1
41.	Evaluation sheet of the residency portfolio	1
42.	Brief description of information resources available to the units and residents of the accredited educational program (to standard 6 "educational resources", p.6.3).	1
43.	Appendix. Table 10. International cooperation (to the standard "educational resources", p.6.7)	1
44.	Table 11. Information about employment of graduates of the educational program (to standard 7 "evaluation of the educational program")	1
45.	"Regulations on inclusive education in KMU NJSC " in 2020 dated December 09, 2020. Resolution No. 26	1
46.	"Policy for student enrollment at KMU NJSC " for the 2019-2020 academic year (approved by resolution of the KMU NJSC Senate, October 22, 2019, app.1), 2021-2022 academic year (approved by resolution of the KMU NJSC Senate on May 21, 2021, app.10), and 2022-2023 academic year (approved by resolution of the Board of Directors on May 27, 2022, app.37)	1
47.	"Policy of applicants' enrollment in the educational programs of postgraduate education" KMU NJSC , approved by the decision of the Senate on October 22, 2019, app.1	1
48.	Composition of the Board of the School of Residency and Professional Development	1
49.	"Regulations on sending on a trip of KMU NJSC students", approved on	1

	June 10, 2019 amended on September 02, 2022, version 1, (https://disk.yandex.ru/d/4cuwsLZDQXVvTA)	
50.	KMU NJSC Student Support Services Regulations (KMU NJSC Board Regulation 19-2, version 1 dated July 08, 2019, as amended on October 23, 2020, app. 20)	1
51.	Regulations on the scientific society of young scientists and students of the University	1
52.	Order No. 182PO dated September 05, 2022 “On Field Residency”	1
53.	Certificates from the resident's work place	10
54.	Diplomas, certificates, diplomas of HETP	29
55.	Personalized teacher's work plan	1
56.	Job description of the Head of the educational program	1
57.	Position description of the professor	1
58.	Extract from the minutes of the Senate meeting of KMU NJSC 37 dated April 28, 2022. “On the distribution of teaching load of HETP”	1
59.	Staff schedule of the Department of Surgical Diseases of the KMU NJSC	3
60.	Teaching load on residency in the 7R01106 “Pediatric Surgery” specialty	3
61.	Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 606: “On Approval of the Average Ratio of the Number of Students to Teachers for Calculation of the Total Number of HETP of Higher and (or) Postgraduate Education Organizations, Except for Military, Special Educational Institutions, Organizations of Education in the Field of Culture”	1
62.	Faculty work time standards for the year 2022 - 2023	2
63.	Safety record	3
64.	List of literature on 7R01106 “Pediatric Surgery” specialty in Kazakh and English language	2
65.	“Pediatric Surgery” WC	3
66.	Certificates confirming residents' participation in scientific activities	12
67.	Review of the residency educational program	2
68.	Resident enrollment document for the 2019-2022,2020-2021,2021-2022 and 2022-2023 academic years	3
69.	Rules for competitive filling of vacant positions at KMU NJSC	1
70.	Annual report on the activities of the KMU NJSC University	1
71.	Regulations on the Board of the KMU NJSC as amended on May 26, 2020	1