

Accreditation Council of the
Eurasian Center for Accreditation
and Quality Assurance in
Higher Education and Health Care
June 15, 2023

**REPORT
OF THE EXTERNAL EXPERT COMMITTEE
FOLLOWING THE EVALUATION
OF ADULT AND PEDIATRIC GASTROENTEROLOGY
EDUCATIONAL PROGRAM
OF KARAGANDA MEDICAL UNIVERSITY
NON-COMMERCIAL JOINT-STOCK COMPANY
FOR COMPLIANCE WITH ACCREDITATION STANDARDS FOR
POSTGRADUATE EDUCATION PROGRAMS
(RESIDENCY SPECIALTY) OF MEDICAL EDUCATIONAL
ORGANIZATIONS**

period of external expert evaluation: May 24-26, 2023

Karaganda, 2023

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LIST OF SYMBOLS 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

ECAQA

1. Composition of the External Expert Committee

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 Gevorkovna	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	Can.M.Sc., Acting Associate Professor of the

		Khamzayevna	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 7R09140 “Adult and Pediatric Gastroenterology” 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 7R09140 “Adult and Pediatric Gastroenterology” Residency

Educational Program

Name of organization, legal ownership form, BIN	“Karaganda Medical University” Non-Commercial Joint-Stock Company, BIN 190140033600
Management authority	Ministry of Health Care of the Republic of Kazakhstan
Full name of the first executive	Turmukhambetova Anar Akyzbekovna
Date of establishment	1950
Location and contact details	40 Gogol str., Karaganda city M01K6T3 Karaganda region, Republic of Kazakhstan Phone: +7 7212 503930, Fax: +7 7212 518931, E-mail: info@qmu.kz
State license for educational activity in residency (date, number)	No. 14020603 issued on April 14, 2015 KZ32LAA00016018 dated May 06, 2019
Information on branches, subsidiaries (if any)	none
Year of the accredited educational program (EP) implementation	2016
Length of schooling	2 years
Total number of graduates since EP implementation	11 residents (for the period 2019 - 2022)
Number of residents at the EP from the beginning of the current academic year	8 first-year residents 6 second-year residents
Full-time teachers/ part-time teachers involved in the implementation of the EP, including % of academic degree holders rate	Total number of teachers – 9, including full-time – 8, part-time – 1; clinical tutors, part-time employees - 6 Academic degree holders rate of HETP, % - 100 Categorization of HETP and clinical tutors, % - 100
Web-site Instagram Facebook with active pages	Official website: www.qmu.kz @officialkmu https://www.facebook.com/Officialkmu/

The educational program (EP) on 7R01104 “Adult and Pediatric Gastroenterology” specialty was first developed and implemented in KMU NJSC in 2016 in accordance with the National Qualifications Framework, professional standards approved in accordance with paragraph 2 of Article 117 of the Labor Code of the Republic of Kazakhstan dated November 23, 2015, and the State Compulsory Standard of Postgraduate Education.

In 2016, the Karaganda State Medical University in accordance with the license No. 14020603 dated April 14, 2015 on “Gastroenterology including Pediatric” specialty carried out the first enrollment. 1 resident was enrolled on the basis of a contractual order and the results of entrance examinations. Since 2019, the educational activity is implemented in accordance with the license in the field of “7R091 Health Care”; KZ32LAA00016018 dated May 06, 2019.

The length of schooling is 2 years. Year of the first graduation was 2019.

In 2018, the EP was accredited by the Independent Accreditation and Rating Agency (registration number: AB No. 1785, EP accreditation validity period: from June 14, 2018 to June 13, 2023). Within the framework of specialized accreditation, the recommendations were given to increase the hours for the practical part of the educational process for the next academic year. As of the 2019 academic year, there was a redistribution of hours of the educational process with a focus on clinical

training of the resident - 75% of hours were allocated for independent work of the resident under the guidance of a clinical tutor, 15% - independent work of the resident, 15% - practical training with a teacher. Changes in the volume of educational load were reflected in the developed educational program in 2022, the Working Curriculum (WC) for the specialty, where 80% of hours are allocated for practical work under the guidance of a clinical tutor and independent work of the resident, 20% - for practical training with a teacher. In order to master practical skills in simulation conditions, additional WR hours are allocated to work in the Center for Simulation and Educational Technologies. In 2020 - 2021, 2021-2022 academic year, 18 hours are allocated for mastering practical skills in the Center of Simulation and Educational Technologies in the 1st and 2nd year of training. If necessary, the residents have the opportunity of additional access to work in the Center of Simulation and Educational Technologies to consolidate the acquired skills in simulation conditions, actively participate in regularly held interdisciplinary competitions "Territory of Emergency Conditions". Due to the recommendations on the entrance examination the program of the entrance examination is revised, which includes the result of comprehensive testing on the profile of the residency educational program, independent examination and GPA in biomedical sciences for the entire period of training (bachelor's and internship), portfolio evaluation (medical experience, scientific achievements, corresponding to the profile of the educational program).

In the implementation of the EP, much attention is paid to research work of residents, development of academic mobility of residents between HEIs within the country, invitation of visiting professors from near and far abroad.

Implementation of the EP is carried out by 5 departments of the University: Department of Internal Medicine, Department of Pediatrics and Neonatology, Department of Oncology and Radiation Diagnostics, Department of Surgical Diseases, Department of Pathology.

The structure of the KMU NJSC is presented on the University's website <https://qmu.edu.kz/ru/contents/view/260>. The graduates of the "Adult and Pediatric Gastroenterology" residency program are in demand; the employment rate is 100%.

2.2 Information on Previous Accreditation

In 2018, the educational program in 7R09140 "Adult and Pediatric Gastroenterology" specialty was accredited by the Independent Accreditation and Rating Agency/IAAR (registration number: AB No. 1785, accreditation validity period: from June 14, 2018 to June 13, 2023).

2.3 Opinion following the Self-Evaluation Report reviewing of 7R09140 "Adult and Pediatric Gastroenterology" Educational Program for Compliance with Accreditation Standards for Postgraduate Education Programs (Residency Specialty) of Medical Educational Organizations and Conclusions

The Report on Self-Evaluation of the Residency Education Program in 7R09140 "Adult and Pediatric Gastroenterology" specialty (hereinafter referred to as the Report) is presented in 108 pages of the main text, copies or electronic versions of the documents located at the following link <https://drive.google.com/drive/folders/1pdCvvFIzipqSvbyN9b9UVEg5NIvvJdId?usp=sharing>

The Report is characterized by completeness of answers to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for conducting self-evaluation of the educational program provided to the educational organization by the accreditation center - ECAQA, as well as internal unity of information. The Report is accompanied by a cover letter signed by the President of KMU NJSC, Turmukhambetova A.A., which confirms the reliability of quantitative information and data included in the self-evaluation Report.

The Report contains a list of 9 members of the internal self-evaluation committee with the indication of responsibility of each employee, information about the representative of the organization responsible for the self-evaluation of the educational program - Laryushina Ye.M., Can. M.Sc., Professor, Head of the Department of Internal Medicine.

The self-evaluation of 7R01104 “Adult and Pediatric Gastroenterology” educational program was carried out on the basis of the order of the University President No. 274 dated September 16, 2022 “On Approval of the Composition of the Working Group for the Self-Evaluation of Educational Programs”.

The Report was reviewed by the Accreditation Expert, Professor, Zhumalina A.K., and the reviews noted the strengths and areas for improvement, as well as recommendations for additions and changes, which in the process of feedback from the representative of the HEI were taken into account and appropriate changes and additions were made to the self-evaluation report.

In all standards the real practice of the University on training of residents in the 7R01104 “Adult and Pediatric Gastroenterology” specialty is given, taking into account the beginning of student admission in 2016, reasoned data, examples of implementation of educational program objectives, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. The description in the self-evaluation Report is sufficiently complete and up-to-date in terms of the number of residents, teachers, administration, information on selection and admission, results of training, results of knowledge and skills evaluation, material and technical base of the University and clinical facilities, contractual obligations with partners (universities, associations, and facilities), 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 literate language, 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 numbered consecutively.

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

3. Description of the External Expert Evaluation and Conclusion

The external expert work within the framework of the evaluation of 7R01104 "Adult and Pediatric Gastroenterology" educational program was organized in accordance with the Guidelines for the external evaluation of educational organizations and educational programs of ECAQA and according to the program approved by the ECAQA order No. 15 dated May 11, 2023 by the ECAQA General Director, Sarsenbayeva S.S. and agreed with the President, Turmukhambetova A.A.

The dates of the visit to the organization are May 24-26, 2023.

The external evaluation is aimed at validation of the self-evaluation Report data and verification of indicators indicating the degree of compliance with the criteria of accreditation standards.

The sequence of the visit within 3 days is presented in detail in the Visit Agenda (hereinafter referred to as the Agenda), which is available in the documentation of the accreditation center. The Agenda provides evidence of implementation of all planned activities in the external peer review process.

In order to obtain objective information, the following methods and their results were used by the EEC members:

- interview with management and administrative staff - 7 people;
- interviews with residents – 4 people;
- review of the website www.qmu.kz;
- interviewing 5 staff members, 3 faculty members, 2 tutors;
- questionnaire survey of teachers and residents - 32 and 63, respectively;
- observation of resident training: attendance of practical training on the topic: “Interdisciplinary Patient: Diagnosis and Treatment of Bleeding” (“Intellectual Quest Game”) for the residents of the specialties: *Adult and Pediatric Gastroenterology* (“Adult Hepatology” discipline, “Hepatology” module), Adult Hematology (“Consultative Hematology” discipline, “Outpatient

Hematology” module), Adult and Pediatric Pulmonology (“Intensive Therapy in Pulmonology” discipline, “Inpatient Pulmonology” module, “Adult Pulmonology” module);

- review of resources in the context of meeting accreditation standards: 2 clinical educational bases were visited, including the Oblast Children's Clinical Hospital, the Oblast Clinical Hospital, where training in the 7R01104 “Adult and Pediatric Gastroenterology” educational program is conducted with the participation of 3 full-time faculty members;
- study of training and methodological documents in the amount of 19 items both before and during the visit to the organization (the list of studied documents is in **Appendix 2**).

The staff of the accredited organization ensured the presence of all persons specified in the visit Agenda and according to the lists of interview and survey sites (Table 1).

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

No.	Function	Quantity
1	1st and 2nd year residents in 7R01104 “Adult and Pediatric Gastroenterology” specialty	4
2	Teachers: 1. Tukbekova B.T., Head of the Department of Pediatrics and Neonatology 2. Yeremicheva G.G., Professor of the Department of Pediatrics and Neonatology 3. Kabildina N.A., Head of the Department of Oncology and Radiation Diagnostics 4. Zholdybayeva G.A., Assistant Professor of the Department of Oncology and Radiation Diagnostics 5. Turlybekova S.A., Assistant of the Department of Pediatrics and Neonatology	5
3	Yamshikova N.V., Clinical Tutor, Pediatric Gastroenterologist of the Highest Category Lozinskaya I.A., Tutor, Gastroenterologist of the Highest Category	2
4	Zhumakayeva Zh.K., Deputy Head of Therapeutic Service of the Oblast Clinical Hospital Kabdulina N.V., Head of Gastroenterology Department	2
5	Laryushina Ye.M., Head of the Department of Internal Medicine, clinical Professor Turgunova L.G., Professor Ibrayeva L.K.	3
6	Alumni, employees of the Oblast Children's Clinical Hospital: 1. Karimova P.A., Endoscopist, Gastroenterologist 2. Samoilova N.M., 2nd year doctoral student of "Medicine" specialty, Gastroenterologist 3. Seisenbekova A.K., Assistant-trainee of the Department of Internal Medicine, KMU NJSC, Gastroenterologist	3
7	Employers (Oblast Clinical Hospital of the Karaganda Oblast Health Department): 1. Nurlybayev Y.Sh., Director 2. Lozinskaya I.A., Head of the Hepatology Center 3. Derkach N.G., Deputy Director for Medical Affairs	3

On the last day of the visit to KMU NJSC, a meeting of EEC members on the results of the external evaluation was held. Final discussion of the results of the external evaluation of the educational program, study of documents, results of interviews, surveys, and questionnaires was held. EEC members began designing the EEC final Report. The results of the external evaluation are

summarized. The experts individually filled in the “Profile of Quality and Criteria for External Evaluation of 7R01104 “Adult and Pediatric Gastroenterology” educational program for compliance with the ECAQA Accreditation Standards”. No comments were made by the EEC members. Recommendations for the improvement of the educational program were discussed and the Chairperson, Kudabayeva Kh.I. conducted the final open voting on recommendations for the ECAQA Accreditation Council for the accreditation period.

Comfortable conditions were created for the work of EEC; access to all necessary information and material resources was organized. The Committee notes a high level of corporate culture of the University, a high degree of openness of the staff in providing information to the members of the EEC.

During the questionnaire survey of residents, a total of 88.9% evaluated the work of the External Expert Committee on Accreditation as positive, 9.52% as satisfactory, 1.59% doubted the answer. The majority of respondents (85.71%) believe that accreditation of educational organization or educational programs should be carried out.

According to 90.63% of teachers, the questionnaire survey conducted by ECAQA is useful for developing recommendations for improving key areas of activity of the accredited educational organization.

At the end of the Visit Agenda, the Chairperson of the EEC announced recommendations on the results of external evaluation within the framework of specialized accreditation for the management and staff of the educational organization.

4. Analysis for Compliance with Accreditation Standards following the External Evaluation of 7R01104 “Adult and Pediatric Gastroenterology” Residency Educational Program

Standard 1: MISSION AND FINAL RESULTS

Proof of compliance:

1.1 Mission Statement

The mission of the residency EP in the specialty: “Adult and Pediatric Gastroenterology” is developed in accordance with the institutional (general university) mission, and is aimed at training a highly qualified gastroenterologist, able to meet the needs of society in providing medical care to patients, to apply and develop advanced innovative technologies in medicine, science and practice throughout life, to strengthen the health of the population. In the implementation of the program activities, namely, based on the results of interviews with the first executive of the organization, members of the advisory and consultative body of the Academic Senate Committee, Academic Council, in interviews with residents and faculty, compliance with the criteria of **standard 1** was established. All participants of the educational process know the mission of the educational program, were involved in the development of proposals to formulate the mission, and the mission was communicated to potential residents through the website, social networks, informational letters to medical organizations. The organization's strategic plan for the period of 5 years, including such areas as educational, research, clinical, which confirms the fulfillment of the accreditation standard and demonstrates the goals, objectives and prospects of the organization, was reviewed. *It was found from interviews with residents that before the beginning of classes the 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.*

In the process of visiting KMU NJSC subdivisions, the experts noted the strengths of the educational organization in relation to the accredited educational program, including: definition of the mission and final learning outcomes of the residency program are conducted in cooperation with key stakeholders.

In KMU NJSC of education there are subdivisions directly related to the “Adult and Pediatric Gastroenterology” educational program, which can be noted as the best practice in education, in particular, to ensure the quality of the educational process, KMU NJSC has sufficient and compliant with the requirements the resources of the implemented EP, which allow to apply patient-oriented and

holistic approach in the care and treatment of patients. This conclusion is made because the procedures of planning, provision of educational resources are determined by KMU NJSC independently, based on the analysis of the needs of EP in accordance with the “Planning and Provision of Educational Resources” regulation (Academic Policy of KMU NJSC, Section 7-2). The EP reflects the principal competency (PC1) to provide residents with effective patient-centered care that includes interventions to treat and prevent disease. The concept of patient-centered approach in the EP is a key element of the quality of care provided to patients.

The results of the documentation study demonstrate that the mission of the organization and the mission of the “Adult and Pediatric Gastroenterology” educational program, were discussed by the Academic Committee (Minutes No. 4, June 07, 2019), approved by the Academic Council (Minutes No. 7, June 18, 2019), approved at the meeting of the Academic Council and by the Chairperson of the Board - the President of KMU NJSC (June 27, 2019, Minutes No. 10). In 2020, the EP in the “Gastroenterology, including Pediatric” specialty was included in the register of the Unified Higher Education Management System (UHEMS) of MES RK (registration date is June 05, 2020). In 2021, the EP was renamed into “Adult and Pediatric Gastroenterology” (order of the Ministry of Health of the Republic of Kazakhstan No. KR DSM 43 dated May 25, 2021).

In 2022, the EP “Adult and Pediatric Gastroenterology” was updated in connection with the approval of a new SCES (Order of the Minister of Health of the Republic of Kazakhstan dated July 04, 2022, No. KR DSM-63). The EP was approved at a meeting of the Quality Assurance Committee of the Residency School (Minutes No. 3, July 05, 2022), discussed at a meeting of the Council of the School of Residency and Professional Development (Minutes No. 11, July 07, 2022) and approved by the decision of the Board of the KMU NJSC (Minutes No. 16, July 13, 2022). The EP was updated in the UHEMS on March 28, 2023 and is available to the public and all interested parties (http://esuvo.platonus.kz/#/register/education_program/application/31235).

1.2 Competence and Professional Autonomy

Training under the “Adult and Pediatric Gastroenterology” program is carried out on a technically equipped clinical base, with a strong staff, which contributes to the fulfillment of the mission, while guarantees are defined for students about the conditions of study and work to support their own health. As a result of training, a resident in 7R01104 “Adult and Pediatric Gastroenterology” specialty receives a holistic vision of the processes, the ability to select effective and safe treatment, which generally determines an individual approach to patients – the autonomy of decisions in favor of the patient. A resident under the supervision of a advisor / tutor receives special knowledge, develops practical skills, for the evaluation of which formative, summative and standardized approaches are used.

To verify the **standard 1**, a meeting was held with the Head of the organization, Turmukhambetova A.A. and members of the University Board. During the conversation, the experts asked the following questions: *“What has changed in general at the University with obtaining the status of a research University?”*. During the answers, the Director of the organization confirmed, *“Funding for research activities is increasing, including attracting HETP, students, in the implementation of grant research of the Ministry of Education and Science of the Republic of Kazakhstan and the Ministry of Health of the Republic of Kazakhstan, the implementation of intra-university grants. It is planned to retrofit the University's research laboratories with high-tech equipment, which will allow the University to participate in international grants. In the future, it is planned to obtain GLP certificates by laboratories.”*

The experts asked about the involvement of teachers and students in the work of the methodological committee, the involvement of employers and all interested parties in the formation of proposals for the components of the choice of programs, the complexity and prospects for the development of the educational and scientific process in the KMU NJSC and *allowed the experts to learn about approaches to attracting employees of clinical bases for teaching, about the strategy and tactics of recruiting residents, information security of education, as well as problems in the management and development of human resources*. During the answers, the President of the

organization voiced the vision and key measures for the implementation of the development strategy, integration of clinical, scientific and educational activities, experts also reviewed the strategic plan for 5 years, some financial documents, the annual plan for 2023 and the report for 2022, conducted interviews with employees of the human resources department and the financial and economic sector.

The experts conducted a survey of 63 residents (39 questions) on the resource <https://webanketa.com/>. It is established that 80.95% of residents will recommend studying at this University to their acquaintances, friends, relatives. Moreover, 82.5% of respondents believe that the Heads of the educational program and teachers are aware of the problems of students related to learning. To the question “Do you think this University allows you to acquire the necessary knowledge and skills in your chosen specialty?”, the 96.8% of residents answered positively, 1.6% could not answer this question yet and 1.6% would like to believe it.

Interviewed 32 teachers (25 questions of the questionnaire) they also answered that 93.8% are satisfied with the organization of work and workplace at this university, and 6.3% partially agree with this statement. The experts have determined that the University has a healthy microclimate, since the Head is quite accessible to both residents and employees, responds promptly to applications and requests to improve the quality of training. In the questionnaire, 93.8% of teachers are satisfied with the microclimate of the University, and 6.25% are partially satisfied. According to 93.8% of the University, teachers have the opportunity to realize themselves as a professional in their specialty. Teaching experience of respondents: up to 5 years – 6.25%, up to 10 years 12.5%, over 10 years – 81.25 %.

1.3 Final Learning Outcomes

The final learning outcomes of the residents' training are aimed at the development of professional competencies by the resident, reflected in the competence map /learning outcomes of “Adult and Pediatric Gastroenterology” EP. Determined on the basis of the Dublin descriptors, the final learning outcomes are aimed at mastering clinical skills in the specialty, communication with patients and colleagues, the formation of professionalism, regulatory literacy, research skills, personal and professional growth throughout life. The goals and final learning outcomes are presented in the register of UHEMS of the Ministry of Education and Science of the Republic of Kazakhstan (http://esuvo.platonus.kz/#/register/education_program/application/24213) and are available to all stakeholders.

When visiting clinical bases and interviewing students of the educational program in “Adult and Pediatric Gastroenterology” residency specialty, experts saw that residents diagnose and carry out treatment, prevention, medical rehabilitation, dynamic observation of adult and pediatric patients with digestive pathology at all levels of medical care.

The interviewed teachers answered that 87.5% fully satisfied with the level of previous training of residents, and 13.5% are partially satisfied.

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. KMU NJSC has developed 34 additional education programs, including for the 7R01104 “Adult and Pediatric Gastroenterology” specialty. The residents are informed about this.

The 87.5% of teachers-respondents believe that students have a high level of knowledge and practical skills after completing the training program, and 12.5% partially agree with this.

1.4 Involvement in the Formulation of the Mission and Final Results

Residents, employers, administrative and managerial staff, teachers take an active part in the development of the mission, the final results of training.

Representatives from resident gastroenterologists, employers are members of the collegial advisory bodies of the University - the Senate of the KMU NJSC, the Council of SRPD, are invited to meetings of departments. During the conversation with residents and employers, 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?”. The residents replied that they are part of the collegial

advisory bodies of the university – the Council of the SRPD. The experts were provided with protocols and regulations on the composition of the school (Igenbekova A.T., 1st year resident, September 08, 2022).

The employers replied that they were members of the Senate of the KMU NJSC. The University actively cooperates with external stakeholders. Master classes, training seminars, scientific and practical conferences, round tables are held. The mission of the organization is interrelated with the final results of training, since one of the elements of monitoring the quality of training is the mandatory assessment of the knowledge of residents and trainees who have completed training. The final results of the trainees' training are reflected in the working training programs.

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EEC conclusions on the criteria. Comply with 17 standards (including 10 basic, 7 improvement standards): fully compliant - 17

Standard 1: fulfilled

Recommendations for improvement identified during the external visit: none

Standard 2: EDUCATIONAL PROGRAM

Proof of compliance:

2.1 Framework Parameters of the Postgraduate Medical Education Program

In order to document standard 2.1, the experts were provided with guidance material and internal regulatory documents via a google disk link. Upon additional request of the experts, the relevant Regulations and other documents were provided. Information was also obtained through interviews and clinic visits.

KMU NJSC has developed a model of competencies of a residency graduate, approved at the meeting of the Academic Committee of the School of Residency and Professional Development (Minutes No. 4, June 07, 2019).

The “Adult and Pediatric Gastroenterology” program provides for the residents to master 6 key competencies. The EP is developed taking into account the competence-based approach and credit-modular technology of credit-based learning, which provides for the modular structure of the EP; the use of ECTS credits to assess the labor intensity; the use of point-rating system of knowledge assessment; increasing the share of hours for independent learning in the form of IWRT and IWR; the possibility of forming an individual learning trajectory.

For the implementation of the educational program there are TMs, where the purpose is defined, the integration of practical and theoretical components, independent work is taken into account. Compliance with the SCES and standard requirements has been established.

Attended a practical session on "Interdisciplinary Patient: diagnosis and treatment of bleeding" (intellectual quest game) for residents of the specialties “Interdisciplinary Patient: Diagnosis and Treatment of Bleeding” (“Intellectual Quest Game”) for the residents of the specialties: **Adult and Pediatric Gastroenterology** (“Adult Hepatology” discipline, “Hepatology” module), Adult Hematology (“Consultative Hematology” discipline, “Outpatient Hematology” module), Adult and Pediatric Pulmonology (“Intensive Therapy in Pulmonology” discipline, “Inpatient Pulmonology” module, “Adult Pulmonology” module). The duration is 3 hours. The experts obtained strong evidence that the training is on track, residents answer the questions posed in groups, receive feedback from the instructor, and have the opportunity to improve skill in the specialties. The University ensures compliance with ethical aspects in the implementation of the educational program. The experts studied the Code of Ethics (Minutes No. 4, August 24, 2019) and during the interview, the residents answered that they are informed about the content of this document.

The analysis of educational activity has shown that the scientific basis and all achievements of science in the advising disciplines are taken into account, additions are made to the bibliography of TM and syllabuses, and teachers apply them in classes.

The system of resident tutoring, which is defined by the “Regulations on Residency” (approved by the Decision of the Board of the KMU NJSC, August 23, 2022, Minutes No. 18), was evaluated. There are 6 mentors, whose tasks are to give recommendations in the course of daily work to further improve professional skills, master the norms of medical ethics and deontology, improve the general educational and cultural level, involvement in the social life of the department and clinical base.

The “7R01104 - Adult and Pediatric Gastroenterology” educational program is implemented in accordance with the Procedure for Informing Residents of their Rights and Responsibilities. *This fact demonstrates compliance with standard 2 in terms of adapting training to the needs of residents.*

The principles of quality and academic integrity are described in the document “Code of Academic Integrity”, which is part of the KMU NJSC Academic Policy. The experts were shown how the written exam is conducted on the platform session.kgmu.kz with coding of residents' works ensuring the objectivity of evaluation. It is shown how to check a resident's written answer for originality using Strikeplagiarism.com service to detect borrowings in academic and scientific papers with the formation of a report and the indication of the percentage of similarity. The written examination is held on the platform session.kgmu.kz with coding of residents' works, ensuring the objectivity of evaluation and checking the resident's written answer for originality using Strikeplagiarism.com service to detect borrowings in academic and scientific works with the formation of a report and indication of the percentage of similarity.

2.2 Scientific Method

The educational program includes scientific foundations and methodology of medical research (elective component “Scientific Project”, 120 hours including, lectures - practical classes - 12 IWRT - 90 IWR - 18). When talking with residents, the assessors learned that they utilize scientific evidence in their teaching and know the basics of evidence-based medicine. The faculty members said that they teach the residents how to critically evaluate literature, articles and scientific data, and how to apply scientific developments. This form of training is organized in the form of a journal club, which is held monthly.

During the questionnaire survey of residents it was found that the University has access to the participation of students in research work (RW) and this is fully satisfied with 92.1% of people, partially satisfied with 6.4%, not satisfied with 1.6%. The residents should be engaged in RW and in response to the questionnaire, 74.6% wrote that they are already engaged in RW, 11.1% are planning to start, 1.6% are in search of an RW topic, 1.6% are not engaged.

2.3 Structure, Content and Duration of the Residency Program

There are documents containing requirements for the structure and content of “Adult and Pediatric Gastroenterology” residency EP. The documents correspond to the State Compulsory Educational Standard of the Republic of Kazakhstan 2018, 2022 (Order No. 647, July 31, 2015 with amendments and additions dated February 21, 2020, Order of the Minister of Health of the Republic of Kazakhstan dated July 04, 2022 No. KR DSM-63).

The length of schooling in “Adult and Pediatric Gastroenterology” residency in accordance with the SCES of the Republic of Kazakhstan is 2 years and includes 4200 academic hours, which is 140 credits (1 credit equals 30 academic hours).

The EP consists of modules/disciplines of compulsory component as well as optional component. The EP includes study of core disciplines of compulsory component (134 credits/4020 h), elective component (4 credits/120 h), and final certification (2 credits/60 h). The content and volume of disciplines of the compulsory component are strictly regulated by the SCES of the Republic of Kazakhstan and MC of the specialty, which is reflected in the EP and WC.

Responsibility for the selection and implementation of innovations in the educational process is the Head of EP, Professor Laryushina Ye.M.

The content of work programs and the catalog of elective disciplines reflect the needs of the health care system. For example, when updating the EP in 2022, two disciplines, the “Computer and Magnetic Resonance Imaging in Gastroenterology” and “Pathomorphology of Digestive Diseases”, due to their relevance in gastroenterological practice, were removed from the CED and were included in the core component modules, the “Gastroenterology” and “Hepatology”.

For example, the EP Head annually conducts career guidance work for undergraduate students, interns and the medical community to attract them to enroll in “Adult and Pediatric Gastroenterology” EP.

The students and interns are involved in RW projects in team projects together with residents, participate in the Journal Club, School of Young Internist. Thus, interns of the “General Medicine” specialty, Rakhmonov M.M. (7-046 group), Tasbulatova A.B. (6-037 group), together with the resident, Yegizgeldinova Zh.Ye. carry out research work on the development of the patient registry with primary biliary cholangitis..

In order to successfully implement the educational program in the “Adult and Pediatric Gastroenterology” specialty, the University has resources to organize the evaluation of practical skills of residents (The department staff developed a standardized approach to the evaluation of students (Certificate of state registration of rights to the object of copyright No. 99 dated January 22, 2015 "Evaluative forms of independent work of a student in a medical university (scientific work), authors Dosmagambetova R.S., Laryushina Ye.M., Turgunova L.G., etc.).

The teachers provide residents with methodical and didactic materials, additional literature for preparation for classes, in which 90.48% are fully satisfied, and 9.52% partially satisfied.

KMU NJSC has 3 own clinics (University Clinic, Clinic of Professional Health, Dental Clinic) and cooperates with 60 medical organizations of Karaganda city, Karaganda region and Astana city.

Clinical bases, which are used to implement the educational program on “Adult and Pediatric Gastroenterology” specialty are medical institutions of city and regional importance: “Oblast Clinical Hospital” (since February 01, 2023 renamed into “Oblast Multidisciplinary Hospital”), Clinic of KMU NJSC Medical University, Clinic of Professional Health of KMU NJSC, “Oblast Children's Clinical Hospital”, Multidisciplinary Hospital No. 3 of Karaganda, Outpatient Clinic No. 15 of Karaganda, “Hippocrates Medical Firm” LLP. The number of training rooms at clinical bases is 36 and usable area is 100%.

To the survey question "Is there sufficient time available for hands-on training (patient supervision, etc.)?", the 90.5% of residents answered in full agreement, and 9.5% were partial agreed. At the same time, 92.1% of residents state that the instructor provides feedback (listening to your opinion, conducting a mini questionnaire, working on mistakes) after the class is over.

At the same time, to the question “Do residents' representatives participate in the development of educational programs?”, the experts received the following answer: 79.4% answered “yes, constantly”, 4.8% - “no, not involved”, 11.1% do not know anything about it, 4.8% have doubts with the answer.

92.6% of the surveyed residents are fully satisfied with the schedule of training sessions, 7.94% - partially satisfied with it.

2.4 Learning Organization and the Relationship between Postgraduate Medical Education and Health Care Delivery

The management of the educational process, reflected in the self-evaluation Report (**standard 2**) and general approaches to management were confirmed during the visit to the organization and during the interview with the Provost for Science and Clinical Work, Turgunov Ye.M., Provost for Academic Affairs, Toleubekov K.K. and with the staff responsible for the organization of the educational process - Kravtsova Ye.A., Dyusembina D.B., Aimbetova D.B.

The experts observed the work of the departments, the Department of Academic Affairs (DAA), the Department of Informatization, the Department of Infrastructure Development, the Department of International Cooperation, and the Center for Simulation and Educational Technologies. Three meetings were held and cross-examination interviews revealed that there is a documentation system in

place that is transparent and accessible to all faculty and staff and includes documents such as annual operating plans, annual reports, unit regulations, faculty and resident contracts and teaching and learning documentation (work program, work study plans, syllabi, journals), assessment tools (checklists, worksheets), certificates, certifications and credentials.

During the visit, the experts saw that the organization promotes the development of residents' practical competencies, including on simulation equipment.

When attending a practical session on “Interdisciplinary Patient: Diagnosis and Treatment of Bleeding” (intellectual quest game) and talking to residents, the experts saw that the organization promotes the development of practical competencies of residents, including on simulation equipment. At the same time, the residents enhance their theoretical knowledge and develop their communication skills.

Resident preparation in 7R01104 – “Adult and Pediatric Gastroenterology” specialty is aimed at meeting the needs of practical healthcare, to ensure high quality of the educational process and training of competitive professionals in the residency, taking into account the needs of the labor market. Therefore, this organization is profiled in the field of gastroenterology, and it provides a lot of opportunities and conditions for qualified residency training of professionals. Thus, when talking to the management of the organization, and the teachers confirmed the experts received information that resident training is carried out directly in clinical departments of gastroenterology profile, where they gain knowledge and improve skills of inpatient treatment, including intensive, as well as outpatient treatment, and get the opportunity to monitor the continuity between the different stages of patient therapy and rehabilitation. The residents of this specialty can supervise patients with diseases such as gastritis, peptic ulcer disease, hepatitis, etc. This is facilitated by tutoring, which is carried out in the organization.

Out of 63 questioned residents, the 92.06% responded that teachers use active and interactive teaching methods in classes quite often, while 6.35% believe that rarely or sometimes.

EEC conclusions on the criteria. Comply with 30 standards (including 22 basic, 8 improvement standards): fully compliant - 30

Standard 2: *fulfilled*

Recommendations for improvement identified during the external visit: *none*

Standard 3: EVALUATION OF RESIDENTS

Proof of compliance:

3.1 Evaluation Methods

Comprehensive evaluation of academic achievements of residents in the University is regulated by the “Rules of Rating System of Evaluation of Academic Achievement of Students” (Section 5-7 of the Academic Policy of KMU NJSC), compliance with which is mandatory for all students and structural subdivisions of the University - participants of the educational process. In order to determine the degree of achievement by the residents of “Adult and Pediatric Gastroenterology” EP final learning outcomes and mastered competencies, the current progress control, interim and final attestation is carried out.

The final control and intermediate attestation of residents is carried out in accordance with the academic calendar, WS and syllabuses.

Current control of students' progress is carried out for each completed task of the resident (integrated task, which includes all types of academic work (classroom and extracurricular), including the mastering of practical skills using simulation technologies, patient management, duty at clinical bases, etc.).

Final control is carried out at the end of the discipline/module in the form of a complex 2-stage examination - stage 1 - clinical examination (certification of practical skills) (50%), stage 2 - written examination, on final courses - testing (50%). Clinical examination is conducted in the form of

certification of practical skills “at the bedside of the patient”, according to the evaluation sheet “Evaluation Sheet of Clinical Examination”.

The written examination is held on the session.kgmu.kz platform with checking the resident's written answer for originality in the “Strikeplagiarism.com” system (Anti-Plagiarism system of the Polish company Plagiat.pl), as well as with coding of the resident's work, ensuring the unbiased evaluation. Computerized testing is conducted using the Platon information system for graduate residents. Portfolio defense is held at the end of each academic year to evaluate the resident's mastering of the competencies provided by the EP, according to the form of the evaluation sheet (“Portfolio Evaluation Sheet”) established in the University by the committee.

The examination of the test instruments (700 tests, 40 written tasks) showed that the organization has implemented a proper evaluation policy that allows for a versatile evaluation of residents' learning achievements, such as checklists, tests and tasks, examination tickets and that they are satisfied with all of them. Also, receive regular feedback from teachers. The appeal system of assessment results is reflected in the regulation on interim and final attestation and during the period of work of the educational organization, there were no applicants for appeal by residents. Thus, it is established compliance with the **standard 3**.

Thus, to verify the data of **standard 3**, the experts asked questions to the Dean of the School of Residency and Professional Development, Tashkenbayeva V.B. and checked the documents and methods of resident evaluation. The University has standardized tests and extended clinical problems for the written exam that are written by the department chair and approved at the department meeting. During the experts' visit to the departments, the FI and documents confirming their review and approval were demonstrated: Minutes No. 2 dated September 05, 2022 and extract from the minutes of the meeting of the Board of the School of Residency and Professional Development, Minutes No. 2 dated September 08, 2022.

Controls are reviewed (external) by the Head of the Hepatology Center of the Oblast Clinical Hospital and the Chief Supernumerary Hepatologist of the Health Department of Karaganda region, Gastroenterologist of the Highest Category, Lozinskaya I.A. An internal review was also conducted by Professor of the Department of Internal Medicine of KMU NJSC, Can.M.Sc. A.R. Alina.

During the visit to the University and during the interview with Professor Ye.M. Laryushina, the expert committee verified that there is a documentation system that is transparent and accessible to all faculty and staff, and includes such documents as annual operating plans, annual reports, unit regulations, faculty and resident agreements, and teaching and learning documentation (work program, work study plans, syllabi, journals), assessment tools (checklists, sheets), certificates, certificates and credentials.

A review of the website showed that its pages contain the documents necessary for the residents, such as a syllabus, samples of tests, tasks, tickets, recommended literature, schedule of practical training, thematic plans of seminars and information about upcoming events in the organization, which is regularly updated.

3.2 Relationship between Evaluation and Learning

The results of resident evaluation are documented as follows: the results of the final control, interim and final certification are discussed at the meetings of the department and the SRPD Council. Due to the results achieved, the department annually revises the technologies in training and resident evaluations, syllabuses, CED, taking into account the wishes of stakeholders.

The University evaluates the reliability of resident knowledge assessments on all forms of residency students supervision. At the same time, it is ensured compliance with the order of the MH RK dated December 11, 2020 No. KR DSM-249/2020 “On Approval of the Rules of Evaluation of Knowledge and Skills of Students, Evaluation of Professional Preparedness of Graduates of Educational Programs in the Field of Health and Specialists in the Field of Health”, as well as internal regulatory documents: “Regulations on the Residency of KMU NJSC”, “Rules of the Rating System of Evaluation of Students' Performance” of the Academic Policy of KMU NJSC. *However, no evidence*

was provided to evaluate the quality of the methods used and the resident evaluation format for validity.

In conducting interviews with 3 faculty members of the department, the experts received strong evidence that there are both successes and challenges in the management of the educational program, depending on the specific clinical setting (resident access to equipment, sufficient number of case patients, time for medical record keeping, independent work of residents). The experts received answers about the professional development program for teachers, funding for this training, availability of certification in teaching methods for teachers.

The residents shared their opinions on the timeliness of test delivery, pre-test counseling, clarity of the entire evaluation procedure and its fairness. *For example, residents said that in general they were satisfied with the training, evaluation methods, and purposefully came to this University, as they believe that the University has excellent clinical facilities and experience in training residents, at the same time, residents would like more independent work with patients, and more interactive methods of training when dealing with complex cases.*

The University management was asked, “Are external examiners involved to improve the fairness, quality and transparency of the evaluation process?”. The following answer was received: for the final evaluation in 2022-2023 academic year by the order No. 316 dated December 30, 2022, “On Approval of the AC Composition for 2022-2023 Academic Year” the representatives of practical health care were included in the certification commission. The Chairperson was approved Toksambayev G.S., the Director of Multiprofile Hospital No.3 of Karaganada city.

Resources for organizing the evaluation of knowledge and practical skills were examined by the experts. A meeting with 3 employers was held. The representatives of employers noted the compliance of graduates' training with the modern development of medical practice and science, that they are satisfied with the basic knowledge and skills of residents. The employers said that they themselves are involved in the evaluation of residents, as they are included in the work of the KMU NJSC advisory bodies and the organization provides feedback to them in the form of questionnaires.

The employers believe that communication skills in residency graduates need improvement.

The experts concluded that the HEI lacked mechanisms to examine and document the reliability, validity and fairness of evaluation methods. In addition, the relevant documents were not provided.

EEC conclusions on the criteria: Comply with 11 standards (including 7 basic, 4 improvement standards): fully compliant – 5/4, partially compliant – 2/0

Standard 3: fulfilled

Recommendations for improvement identified during the external visit:

1) Develop and implement a program to determine the validity and reliability of resident evaluation methods

Standard 4: RESIDENTS

Proof of compliance:

4.1 Enrollment and Selection Policies

The organization has a resident enrollment policy that is implemented based on the Enrollment, Student Progress, and Certification section of the University Academic Policies and is reviewed annually.

V.B. Tashkenbayeva, Dean of the School of Residency and Professional Development (SRPD), told about the policy on resident enrolment. The order of enrollment of citizens in residency is developed in accordance with the “Standard Rules for Enrollment in Educational Organizations Implementing Educational Programs of Higher and Postgraduate Education” (Order of the MES RK No. 600, October 31, 2018) and “Rules for Placement of the State Order, Enrollment and Training of Medical Personnel in Residency” (Order of the MH RK No. KR DSM-270/2020, December 15, 2020).

In 2022, additional criteria were included in the rules of enrollment in the residency: the presence of work experience in the field of health care, research work on the profile of the EP (Program of the entrance exam for educational programs of residency, approved by the Chairperson of the Board, the President on May 12, 2022). In the program of the entrance examination in 2023, a comprehensive testing including questions of biomedical and clinical sciences on the profile of the specialty was introduced.

Information for applicants is available on the KMNU NJSC website (<https://www.qmu.edu.kz/ru/contents/list/1608>).

For the period of entrance examinations to the residency program, examination and appeal commissions for specialties shall be established.

During the period 2016-2022, 20 residents were enrolled in the educational program on “Adult and Pediatric Gastroenterology” specialty, 11 people successfully completed their training. At the same time, 6 people received “excellent” and 5 “good” according to the results of the final examination.

The experts familiarized themselves with the documentation on enrollment of residents, including the Order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020 No. KR DSM-270/2020 “On Approval of the Rules of Placement of the State Order, Enrollment and Training of Medical Personnel in Residency”, Academic Policy of KMU NJSC.

Regarding the practice of academic advising, personal support of residents and the development of not only professional skills, the experts talked to the Heads of EPs, Heads of Departments, Dean and staff of the SRPD. The University has a resident development program that focuses on social, financial and personal needs. The University allocates appropriate resources for social and personal support of residents.

The University has developed the “Regulations on Sending Students of KMU NJSC on a Trip” (approved on April 05, 2021, version 2), which regulates the issues related to the financial support of students' trips to internships, conferences, forums, cultural and mass events held outside the University. Travel expenses are financed from extra-budgetary and budgetary funds of the University.

For social and personal support of students, there is a department of youth work, compliance officer, student service center, which are structural units of the University.

4.2 Number of Residents

The number of enrolled residents is regulated by the state order of the Ministry of Health of RK, orders of LEBs for training of medical personnel and opportunities for their clinical training, maximum allowable load on faculty, clinical tutors (standard 5 “Teachers”), material and technical resources of the University and clinical bases (standard 6 “Educational Resources”, paragraph 6.2. Clinical bases).

Annually the University sends to the authorized body a proposal for placement of the state educational order for training in medical personnel in residency on the appropriate form. The “Adult and Pediatric Gastroenterology” educational program has enrolled 20 residents over the past 5 years.

4.3 Support and Advising of Residents

Counseling on all issues of the organization of the educational process, on the mastering of core and elective disciplines are carried out by the faculty, the Head of the EP, the Head of the Department, SRPD. The SRPD staff together with the department staff provides information support to all students.

The information about residency training is posted on the official website of the University (in the tab Education→Academic Entrance Examination for Postgraduate Education (Master's, Residency, Doctorate) →Residency, Student Portal of KMU NJSC).

In order to ensure and maintain an active dialog with students in the work schedule of managers of all levels, time for meetings is determined. On the official website of KMU NJSC, there is a virtual reception of the President. During the visit, the experts visited the Student Service Center (hereinafter - SSC), which provides services to students on a “one-stop-shop” basis.

KMU NJSC has a system of academic advising of residents for the implementation of student-centered learning. In order to monitor the resident's progress, the Platonus automated information system, the student's personal account, and the academic progress log is used.

4.4 Resident Representation

The University has a policy on learner representation and participation in the development, management and evaluation of the EP (KMU NJSC Academic Policy, section 5-13). Gastroenterology residents have a real opportunity to participate in the organization of the specialty curriculum during the direct discussion and approval of the EP, at the level of development of IWP and elective disciplines at the meetings of the SRPD Council, Senate.

The residents are included in deliberative bodies such as the SRPD Council, Senate. For example, 1st year resident-gastroenterologist, Igenbekova A.T. is a member of the SRPD Council, 2nd year resident-gastroenterologist, Yegizgeldinova Zh.E. is a member of the Senate.

4.5 Work Environment

According to the Decree of the Government of the Republic of Kazakhstan No. 799 dated October 10, 2022. “Rules for Granting, Payment and Amounts of State Scholarships”, Regulations on the Procedure for Granting Scholarships Established by the President of the Republic of Kazakhstan, *residents* studying on the basis of an educational grant shall be paid state scholarships in accordance with the procedure established by the Government of the Republic of Kazakhstan.

On the basis of the Order of the Ministry of Health of RK dated December 21, 2020 No. KR DSM-305/2020 “On Approval of the Nomenclature of Specialties and Specializations in the Field of Health Care, Nomenclature and Qualification Characteristics of Positions of Health Care Workers”, the *residents* have the possibility of additional work in the position of a resident physician under the guidance of a clinical tutor in the chosen field of medicine at 0.5 rate in medical organizations, or according to the certificate of a specialist obtained upon completion of the relevant internship.

Resident physicians are granted vacations between academic periods. The duration of vacations during the academic year is not less than seven weeks, except for the final year, in accordance with the state compulsory standard of residency in medical specialties and the educational program for residency specialties.

The residents under the guidance of tutors provide inpatient care to patients with gastroenterological profile, conduct outpatient and polyclinic appointments, carry out preventive measures, information and awareness-raising work, participate in laboratory and instrumental studies, are on duty at the clinical bases of KMU NJSC at least four times a month.

EEC conclusions on the criteria. Comply with 30 standards (including 14 basic, 6 improvement standards): fully compliant - 30

Standard 4: fulfilled

Recommendations for improvement identified during the external visit: none

Standard 5: TEACHERS

Proof of compliance:

5.1 Employment and Selection Policy

Total number of employees for “Adult and Pediatric Gastroenterology” is 9, of which 8 are full-time teachers, 1 is part-time. The experts are introduced to the personnel policy (In the Rules of Employee' Employment in KMU NJSC, Rules of Competitive Replacement of Vacant Positions, Personnel Policy reflect the procedure and rules of selection of potential employees in accordance with the requirements of the standard qualification characteristics of positions of medical education employees based on the order of the MES RK dated July 13, 2009 No. 338 “On Approval of Standard Qualification Characteristics of Positions of Pedagogical Employees and Equated Persons” with additions and amendments.

The tutoring system for residents is determined by the Regulation on Residency, approved by the Decision of the Board of the KMU NJSC dated August 23, 2022, Minutes No. 18.

There is an Employee Performance Management System (EPMS), a competition “Best in Profession” for the teachers of KMU NJSC, a survey of students “Teacher in view of students” to evaluate the achievements of the teachers of the residency program..

In order to verify the data of **standard 5**, external experts obtained the opinion of teachers on personnel policy, which includes approaches to the development of pedagogical competence of teachers, motivation to work with residents, implementation of tutorship. The conversation with Kravtsova Ye.A., Director of Human Resources Management Department, included such questions as: *stimulating the need for additional training, criteria for selection and recruitment of faculty, how clinical tutors are selected, motivation of tutors, for how long a contract with a tutor is signed, interaction with the academic sector and departments.* The experts learned about approaches to attracting clinical site staff to teach (there are 7 faculty members in total), strategies and tactics for resident recruitment, information support for the educational program, and identifying problems in human resource management and development.

During the questionnaire survey of teachers it was found that the majority (93.75%) are fully satisfied with the organization of work and workplace in the university, but 6.25% are partially satisfied. In this University, the teachers have the opportunity to engage in scientific work and publish the results of research and development - 90.63 % fully agree, 9.4% partially agree. Satisfied with the work of HR (human resources) service - 87.5% completely agree, and 9.4% partially agree. Salary is satisfactory - 53.1% completely agree, 12.5% partially agree, 25% agree. Responded that “more yes than no”.

5.2 Faculty Commitment and Development

During the meeting with the Head of the Human Resources Department and during the interview with the teachers, the experts received an opinion on the approaches to the development of pedagogical competence of teachers, motivation to work with residents, the implementation of mentoring, which includes that according to the rules of attestation of teaching staff and scientific staff of KMU NJSC. Certification of scientific and pedagogical personnel is carried out at least once every three years.

In order to stimulate the HETP and research staff of KMU NJSC in the implementation of key indicators entailing an improvement in working conditions in terms of changing the position / category of the position, salary increases, an extraordinary certification is carried out in June-month annually. Professor Laryushina Ye.M. is the Head of the Department of Internal Diseases, the indicators of which are the highest among the clinical departments in the KMU NJSC.

The experts received answers about the teacher-training program, which is held annually and 4 teachers participating in the implementation of the educational program have been trained. These activities are funded by the University. The expert checked the certificates of teachers on the “Topical Issues of Gastroenterology”.

To stimulate the research activity of teachers, incentive allowances are established for the publication of scientific papers in journals with an impact factor >1, in international peer-reviewed scientific publications (indexed in the Web of Knowledge. Scopus). The surcharge for teaching

classes in English by a teacher with an IELTS certificate (>5.5 points) or TOEFL (>525 points) is + 100% of the value of the basic official salary (including external part-time undergraduates, doctoral students).

Experts have found that teachers initiate research topics for residents stimulate the need for additional training and independent work with literature, medical documentation.

90.6% of the surveyed teachers believe that there is an opportunity for career growth and development of teacher competencies at the University, and 9.38% partially agree with this. 87.5% were trained in professional development programs during this year, 9.38% over 5 years ago and 3.13% answered, "I don't remember when it was".

The University implements social support programs for teachers – 78.1% answered that "yes, there are such programs", 3.1% "I have already used it", 3.1% of respondents answered that there are no such programs, and 15.6% of respondents do not know about it.

EEC conclusions on the criteria. Comply with 7 standards (including 5 basic, 2 improvement standards): fully compliant – 7.

Standard 5: fulfilled

Recommendations for improvement identified during the external visit: none

Standard 6: LEARNING RESOURCES

Proof of compliance:

6.1 Material and Technical Support and Equipment

The material and technical base of the University is constantly being improved, modern equipment, reagents, technical means of training are being purchased. The study rooms are designed for up to 10 seats and are located in the buildings of clinical bases. The study rooms are fully equipped for seminars / practical classes; they have the necessary cabinet furniture, computer equipment: multimedia consoles with monitors. All classrooms of the department are provided with unlimited Internet access.

The survey of teachers showed that 93.8% of respondents fully agree that the University has enough equipment and resources to train residents according to accredited programs, 6.3% partially agree. The 87.5% are completely satisfied with the organization of the educational process, and 12.5% are partially satisfied.

93.8% of teachers are fully satisfied with the organization of work and workplace at the University, 6.3% are partially satisfied.

6.2 Clinical Facilities

A review of the resources showed that they correspond to the goals and objectives of educational activities. Visited the clinical base of the University - Oblast Children's Clinical Hospital. Experts have determined that the clinic meets all the necessary requirements for the implementation of the educational process in the pediatric component. There is a joint activity agreement with KMU NJSC (No. 347 dated September 01, 2022). In the structure of the clinic, there is a hospital with 9 departments, *including 15 gastroenterological beds*, an outpatient clinic, 7 paraclinical departments, a total bed fund of 290 beds.

The experts visited the Oblast Clinical Hospital and the experts also noted that the hospital meets all the necessary requirements for the implementation of an educational program in the specialty. There is an agreement on joint activities with KMU NJSC (agreement No. 353 dated September 01, 2022). In the structure of the clinic there is a polyclinic, a hospital with 25 departments / centers; *including a gastroenterology department with 24 beds, a Hepatological center*, 6 paraclinical departments. During the visit of experts, 6 residents of the 2nd year of study were trained at the clinic, and the University staff demonstrated collegial and ethical relations with medical staff, the management of the clinical base. A sufficient number of thematic patients have been provided, modern equipment is available to students, and employees who simultaneously perform the roles of teachers and curators (mentors) provide high-quality training. Before starting the relevant discipline of the

educational program, the resident receives a syllabus from the teacher and knows what skills he/she should acquire and develop during the training.

During visits to clinical bases where experts conducted a survey of resources, their compliance with training programs, accessibility for teachers and residents, how modern this equipment is and meets the needs of students and practical healthcare. Experts have obtained evidence of the implementation of standard 6, as well as validation of the information of the self-evaluation Report.

Interviews were conducted with 4 residents in “Adult and Pediatric Gastroenterology” specialty. Experts asked questions about satisfaction with training, sufficiency of time for patient supervision, work at Damumed with medical documentation, satisfaction with teaching methods and qualifications of teachers, social and moral support of residents in need, participation in “Journal clubs”, availability of a resource of international databases of professional literature. *In general, residents are satisfied with the training, evaluation methods, and purposefully enrolled in the KMU NJSC, as they believe that the University has good resources, image and international connections, at the same time residents would like more independence in managing patients, conducting international events.*

Residents showed their commitment to the organization of education, 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, demonstrated competence in answering questions from foreign experts Prof. Ryzhkin S.A., Associate Professor Afrikyan Sh.G. The experts studied the residents' documents (portfolios, the results of the assessment of residents-checklists, the results of the survey of residents).

6.3 Information Technology

For the implementation of the educational process in “Adult and Pediatric Gastroenterology” specialty, the book supply of basic and additional literature is 100%. The book fund in the “Adult and Pediatric Gastroenterology” specialty is 4227 publications, of which the total number of textbooks is 2144, including in Kazakh, is 1397 copies, Russian - 2302, English – 528, scientific literature – 2066 copies in all languages of instruction, periodicals – 5, electronic publications – 12. Evidence was reviewed and obtained during a visit by experts to the library.

For the effective use of new information technologies and access to patient data and health information systems within the framework of both educational and medical process, residents of “Adult and Pediatric Gastroenterology” specialty use a comprehensive medical information system (CMIS) for patient management, making medical, diary entries, forming sheets of medical appointments, making diagnoses, registration epicrisis and the appointment of laboratory and instrumental methods of research, for attaching the conclusions of outpatient admission.

Fast and prompt transfer of information in all directions of the educational trajectory is provided by the information platforms of corporate mail, Outlook, Student Portal, SharePoint.

To be acquainted with the patient's anamnesis, their comorbid background, the residents in practice use the electronic passport of the patient's health, which allows them to collect full information about concomitant diseases and previous clinical and laboratory-instrumental methods of examination.

Resident gastroenterologists actively participate in training at webinars, master classes, Schools held within the framework of International, Republican conferences, Associations of gastroenterological profile of the Republic of Kazakhstan, which is reflected in the resident's Portfolio.

6.4 Clinical Teams

Clinical management of the residents' work is carried out by clinical tutors, of which 2 are the Head of the Department, 1 is the Chief part-time Gastroenterologist, 1 is the Chief part-time Pediatric Gastroenterologist and 1 is the Chief part-time Hepatologist of the Karaganda region, doctors with more than 15 years of experience in the specialty.

4 resident gastroenterologists are employed as resident doctors in the Oblast Clinical Hospital at 0.25 rates, 1 resident - in the University Clinic at 0.5 rates.

The residents have the opportunity to master skills extensively under the guidance of clinical tutors when working in the Departments during the daytime and during night shifts (4 mandatory night

shifts per month). Residents record all their achievements and reflect them in their portfolios (evaluation sheets), certified by clinical tutors and supervisors.

The clinical bases of the “Adult and Pediatric Gastroenterology” EP have a sufficient number of patients with various diseases of the digestive organs in adults and children, the possibility of mastering ultrasound diagnostics and endoscopy within the specialty. Residents work in the Integrated Health Information System (IHIS).

Students have free access to patients at clinical bases and all conditions for improving their practical skills – 96.88% of teachers fully agree with this, 3.13% partially agree, - % found it difficult to answer.

6.5 Medical Scientific Research and Advances

The topics of research projects are chosen by the resident in the first year of studying with the help of the EP Head, mentor and clinical tutor, further the topic is approved at the departmental meeting. Details on the participation of residents studying on the “Adult and Pediatric Gastroenterology” EP in scientific research were presented at the department in the form of a table, the analysis of which indicates a high performance of research projects implementation. For example, the 2-year resident Zholomanova G.K. was awarded the III degree diploma for the poster report at the VII Central Asian Gastroenterology Week-2021; residents Kadyrova A.Zh., Gofman S.Ya., Chunkeneyeva A.S. were awarded the I degree diploma for the poster report at the V Congress of Hepatologists/Gastroenterologists of Kazakhstan “Gastro Hepato Transplant News 2022”; residents Yegizgeldinova Zh.Ye., Zholomanova G.K., Seisenbekova A.K. were honored with the II degree diploma for the poster report at the same congress.

Residents, Zhirenbayeva A.M. and Igenbekova A.T. are executors in clinical research of fundamental-applied character (order No. 52 dated January 23, 2023 on inclusion in the temporary scientific team, Head, Prof. Laryushina Ye.M.).

In 2018-2023, the residents of the “Adult and Pediatric Gastroenterology” EP published 13 publications, 13 of them - in publications of the Russian Science Citation Index (RSCI), 12 speeches at international and national conferences were prepared

Interviews with 3 full-time faculty members revealed that there were both successes and challenges in educational management, depending on the specific base (resident access to equipment, sufficient number of subject patients, time for medical record keeping, independent work. The experts received answers about the professional development program for teachers, financing of this training, availability of certification in teaching methods for teachers.

6.6 Expertise in the Field of Education

The Adult and Pediatric Gastroenterology EP is regularly evaluated by obtaining feedback from residents, faculty, and employers, as well as by analyzing residents' learning achievements. Resident and residency alumni surveys are used as feedback for interventions and corrective action plans to improve the EP.

The expertise is conducted in the form of analyzing the needs of specialists, analyzing resident training methods, and the results allow conclusions to be drawn about the quality of innovative changes in postgraduate education. For example, Prof. Ye.M. Laryushina was the coordinator of the “Setting Peer Review Instruments and Goals for Medical/Health Education (SPRING)” International Project initiated within the framework of Erasmus+ projects “Capacity Building for Higher Education (CBHE)” (2019-2022).

In order to motivate the teaching staff to conduct research in the field of medical education as an indicator of the department's activity is the availability of publications in this field. The HETP, implementing the EP, have publications on the examination of the EP quality, the role of tutoring in the training of residents, speeches on the evaluation of the effectiveness of teaching and evaluation methods, methodological recommendations. During the departmental visit, publications by faculty members from the Department of Internal Medicine were presented as proof.

6.7 Training in Other Institutions

The development plan of the Adult and Pediatric Gastroenterology EP provides for incoming and outgoing academic mobility of residents to partner universities, invitation of visiting professors, which is implemented according to the plan.

Within the framework of the implementation of the academic mobility program:

from March 4 to 15, 2019, the residents of the "Adult and Pediatric Gastroenterology" specialty, Samoilova N.M. and Kaisina A.A., underwent training at the Ilsan National Health Insurance Clinic (Koyani, Republic of Korea) as part of academic mobility.

in 2018-2019 academic year residents Tatiyeva M.A., Khamidov R.I. - residents of the specialty "Adult and Pediatric Gastroenterology", studying at the Research Institute of Cardiology and Internal Medicine JSC of the Ministry of Health of the Republic of Kazakhstan were trained at the Department of Internal Medicine KMU NJSC.

in 2019-2020 academic year the 2nd year residents Kaisina A.A., Samoilova N.M. studied for 2 weeks in the Research Institute of Cardiology and Internal Medicine of the Ministry of Health of the Republic of Kazakhstan (Almaty).

in 2021-2022 academic year, the 2nd year resident Zholomanova G.K. was trained in the "Adult Hepatology" discipline at the National Scientific Oncology Center of Nur-Sultan during the period of April 11 - April 22, 2022.

On September 19-23, 2022 the "Hemostasiology Course by Professor Vavilova T.V. of the Almazov NMRC (St. Petersburg, Russia) was held for the residents studying on the "Adult and Pediatric Gastroenterology" EP within the framework of the "Visiting Professor" program <https://www.instagram.com/p/CjAPY48sZmb/>

From April 10 to April 15, 2023 "Hepatology Course" was conducted by Professor of the University Clinic of Aachen (Germany) Ysmembetov K.K.

EEC conclusions on the criteria. Comply with 21 standards (including 10 basic, 11 improvement standards): fully compliant – 21

Standard 6: fulfilled

Recommendations for improvement identified during the external visit: none

Standard 7: EVALUATION OF THE EDUCATIONAL PROGRAM

Proof of compliance:

7.1 Monitoring and Evaluation Mechanisms

In KMU NJSC evaluation and EP monitoring is carried out in accordance with the Regulation on Academic Policy (approved by the Senate on August 27, 2021), the Regulation on Educational Program Management (September 09, 2020, order No. 14, amended on January 11, 2021, order No. 1). The monitoring system is a continuous multilevel process that covers the evaluation of all spheres affecting the quality of the EP.

The EP monitoring mechanism includes several steps: planning, data collection, analysis/conclusions, necessary improvements followed by monitoring of changes. All University structures involved in the implementation and quality management of the EP participate in the monitoring of the EP. Each stage and level in the quality assurance system of EP is regulated by relevant regulatory documents.

The School of Residency and Professional Development (SRPD) Board is responsible for the management of the educational program. The quality of the EP is ensured by: Dean of the School of Residency and Professional Development, Head of EP, module coordinators, responsible for the discipline, Heads of departments, teachers. From the 2020-2021 academic year, the Committee for ensuring the quality of EP has been established, the main function of which is to monitor the implementation of the educational program and evaluate the satisfaction of all stakeholders (Regulation on the EP Department).

Monitoring of the OP at the University level is carried out through discussion of the context of the program at the SRPD Council, the members of which are teachers of departments, employers and students.

The department staff according to the Department Plan conduct intra-departmental monitoring. Monthly at the meetings of the department, school discuss the methodological support of the EP, the implementation of the curriculum, the results of quality control of the educational process, the analysis of learning achievements of students.

The questionnaires for students, are coordinated with SRPD, include questions on the degree of satisfaction with the quality of the educational process, the provision of resources, relationships with the staff of various departments, the quality of the educational process in the departments, support and information.

The questionnaires for employers evaluate employers' satisfaction with the level of graduates' training, demand for graduates in the labor market, and provide recommendations for improving resident training. The results of the questionnaire are discussed at the meeting of the SRPD; the EP is corrected on the basis of feedback with the participation of stakeholders.

The SRPD together with the Head of the EP analyze the percentage of employment of graduates. The majority of graduates work as gastroenterologists. For example, Seisenbekova A.K. works as an assistant at the Department of Internal Medicine of KMU NJSC, Samoilova N.M., and Kaisina A.M. study in Ph-doctoral program

7.2 Feedback from Faculty and Residents

The analysis of the results of the residents' questionnaire for the academic year 2021-2022 showed high satisfaction (92%) with the quality and clinical environment of training, organization and equipment of resources of the educational process in all disciplines of “Adult and Pediatric Gastroenterology” specialty (Minutes of the meeting of the Department of Internal Medicine No. 10, June 15, 2022).

7.3 Resident and Alumni Outcomes

The School of Residency and Postgraduate Development, in conjunction with the Head of EP, monitors the employment of residency graduates on an annual basis. The employment rate of graduates in the “Adult and Pediatric Gastroenterology” specialty was 100%.

The employers are annually surveyed on their satisfaction with the level of training of graduates. The results of the 2022 employer survey showed a high percentage of satisfaction with the quality of resident training (87%), with employers rating the level of achievement of competencies such as patient supervision, communication and collaboration, training and development, safety and quality of care particularly highly.

7.4 Stakeholder Engagement

Interviews with 3 employers were conducted offline and included such questions as: the knowledge of the University mission, participation in the mission development 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 tutoring, providing the department and residents with the necessary resources for practical training and formation of clinical thinking, about the problems of interaction with departments and universities in general.

7.5 Procedure for Approval of Educational Programs

The EP has passed the stages of internal and external peer review. Thus, the “Adult and Pediatric Gastroenterology” EP received positive reviews from Kaliaskarova K.S., the Professor of the National Scientific Oncological Center of Astana, Dr. M.Sc., Chief part-time gastroenterologist/hepatologist of the MH RK, President of the Association of gastroenterologists/hepatologists and transplatologists “GHTG” and Muldayeva G.M., the Professor of the Department of Family Medicine, KMU NJSC, Dr. M.Sc., gastroenterologist, therapist.

Inclusion of the EP in the register of UHEMS EPs proceeds through the stage of external independent expertise.

The procedure of EP approval is carried out in accordance with the “Regulations on the Management of the Educational Program” of KMU NJSC. The RP is subject to approval procedures with representatives of practical health care in the specialty, undergoes expert review by the Quality Assurance Committee of the School of Residency and Professional Development (SRPD), is discussed at the Board of the SRPD and approved at the meeting of the Board of the KMU NJSC.

EEC conclusions on the criteria. Comply with 15 standards (including 10 basic, 5 improvement standards): fully compliant – 15

Standard 7: *fulfilled*

Recommendations for improvement identified during the external visit: *none*

Standard 8: MANAGEMENT AND ADMINISTRATION

Proof of compliance:

8.1 Management

The management of the educational program is carried out in accordance with the Law of RK “On Education”, the Order of the Minister of Education and Science of the Republic of Kazakhstan No. 595 “On Approval of the Standard Rules of Educational Organizations Activities of Relevant Types”, the Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 “On Approval of the Standard Rules of Admission to Education Organizations Implementing Educational Programs of Higher and Postgraduate Education”, the Order of the Minister of Health of the Republic of Kazakhstan No. KR DSM-249/2020 “On Approval of the Rules of Knowledge and Skills Assessment”, the Order of the Minister of Health of the Republic of Kazakhstan No. KP DSM-249/2020 “On Approval of the Rules of Knowledge and Skills Evaluation, Evaluation of Professional Preparedness of Educational Program Graduates in Health Care and Health Care Specialists”, SCES, as well as established by the internal regulatory document of the [Academic Policy of KMU NJSC](#), Regulations on the Management of the Educational Program, Regulations on Residency.

The order of students' enrollment is regulated by the Order of MES RK No. 600, as well as the internal regulatory document – [Policy of Students' Enrollment in KMU NCJS](#), approved on May 27, 2022 at the meeting of the Board of Directors (or.37).

Management of the educational program is carried out on the basis of the Regulations on the management of the educational program in KMU NJSC (September 09, 2020, or. 14 of the Board meeting). The coordination, control and monitoring of the implementation of programs is carried out by the School of Residency and Professional Development under the supervision of the Provost for Scientific and Clinical Work (Organizational structure approved by the order No. 40 of the Board of Directors dated October 03, 2022).

Upon completion of postgraduate training programs and obtaining a positive evaluation of the final certification, residents are issued a “Certificate of Residency Completion” of the state sample with the award of qualification of a medical professional.

8.2 Academic Leadership

The management of the educational process is carried out according to the organizational structure of KMU NJSC: Chairperson of the Board-Predsdident, Provost for Academic Affairs, and Provost for Strategic Development and International Cooperation, Provost for Scientific and Clinical Affairs, Managing Director. The issues of residency training and clinical process of the University are under the supervision of the Provost for scientific and clinical work.

The School of Residency and Professional Development directly manages the residency educational programs and coordinates the residents' activities. The school is subordinate to the Provost for Scientific and Clinical Work. The School of Residency and Professional Development is administered by the Dean. The School provides resident supervision, liaison support to the practice health sector and residency alumni. The main educational, scientific and clinical subdivisions that provide training for residents are the departments. During the visit to the department received

supporting documents organization of the educational process in KMU NJSC: the working curriculum of the educational program, the schedule of training sessions and the resident's IEP.

To the question “Do the heads of the organization listen to your opinion regarding the issues of educational process, research and development, clinical work”, 84.38% of teachers answered that systematically, 12.5% answered “sometimes”, -% “quite rarely”, 3.13% “no answer”.

8.3 Training Budget and Resource Allocation

The budget of the KMU NJSC 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 University has developed the “Regulations on Sending Students of KMU NJSC on a Trip”, approved on April 05, 2021, version 2, which also regulates issues related to the financial provision of their trips to internships, conferences, forums, cultural and mass events held outside the University. The average pedagogical load of the HETP implementing the residency EP is revised annually, which amounted to 650 hours for the academic year 2022-2023 (Senate Decision dated April 28, 2022, Minutes No. 7).

During the reporting period, the development of academic mobility, inviting visiting professors from near and far abroad should be noted in the implementation of the EP. In 2022-2023 academic year, the University provided funding for 2 visiting professors.

8.4 Administration and Management

DAA, HRMD, Deans of Schools and Heads of Departments carry out organizational management of the educational process, including EPs. During the visit, the experts were familiarized with the regulation of the educational process (academic calendar, number of academic groups, volume of academic work, teaching load of teachers), calculation of hours, timetable, agreed WC, classroom fund, contingent of students, residents' portfolios, attestation sheets.

Operational management of the EP is carried out by: Deans, Heads of the EP, Discipline Module Coordinators, Heads of Departments, and Teachers. The total number of HETP is formed on the basis of the average ratio of students to teachers: residency - 1:3. The calculation of teaching load of HETP is made according to the Model Rules of activity of higher education organizations and the state standard of education and in the residency is 650 hours per year.

The monitoring system includes the following stages:

- constant analysis of the implementation of the University's plans, its goals and formulated success factors, namely integral characteristics reflecting certain performance results is carried out; directly measurable indicators that allow to quantitatively assess the degree of achievement of the set goals are defined;
- analysis of the efficiency and effectiveness of processes is carried out;
- management analyzes the achievement of objectives and quality in the field of management system, processes and plans of the University;
- information collection and processing functions are distributed among staff members.

A system of key performance indicators (KPI) of top management, deans of schools, heads of departments, academic and other divisions of the University functions to evaluate the efficiency of the University's activities.

8.5 Requirements and Regulations

Interaction of KMU NJSC with the Ministry of Health of the RK, MSHE RK on the organization of the educational process in the residency is carried out through the implementation of the Order of the Minister of Health of the Republic of Kazakhstan dated July 4, 2022 No. KR DSM-63 “On Approval of State Compulsory Education Standards on the Levels of Education in Health” and is consistent with the priority directions of national legislative and program documents. Cooperation with the health sector is carried out on the basis of the conclusion of the General Agreement between the Health Department of Karaganda region and KMU NJSC, agreements concluded between KMU NJSC and chief physicians (directors) of health organizations. During the visit to clinical bases were

familiarized with the documents: agreement on joint activity with KMU NJSC (No. 347 dated September 01, 2022) and (agreement No. 353 dated September 01, 2022).

Information was received and confirmed by documents that the department staff are members of professional societies, accredited independent experts, participate in outbound medical and recreational national programs, outbound medical and recreational teams, development of standards and protocols of diagnosis and treatment, participate in the work of specialized and standing commissions of health care organizations and local authorized bodies

EEC conclusions on the criteria. Comply with 15 standards (including 8 basic, 7 improvement standards): fully compliant - 15

Standard 8: fulfilled

Recommendations for improvement identified during the external visit: none

Standard 9: CONTINUOUS IMPROVEMENT

Proof of compliance:

During the visit and conversation, it was revealed that the University continuously improves the implementation of educational programs. In particular, for the accredited EP in 2019 during the development of the EP the final results and competencies of residents were revised and analyzed taking into account the current trends in the development of diagnosis and treatment in gastroenterology. In 2021-2022 academic year, interim certification of residents in the form of portfolio defense at the end of the academic year was introduced.

Monitoring of current academic performance is conducted and discussed monthly at the departmental meeting, SRPD Council meeting.

The results of the end-of-year interim evaluation and the results of the Independent Examination (NCIE) are also discussed at meetings of the Department, the SRPD Council and the Senate. The results of the analysis, recommendations of the certification commission determine the need to improve the EP. Resources are monitored annually for continuous improvement. The library fund is constantly updated with basic and additional literature in three languages (Kazakh, Russian, and English). Residents have a good opportunity to work in various information resources of the library and publishing center, CSET (electronic textbooks, discs with films and illustrations, electronic manuals, simulators and mannequins with software), as well as educational resources of the Internet. The availability of internet and interactive classroom at the clinical sites allows residents to work online, participate in various webinars, master classes, etc.

The University's personnel policy aimed at continuous improvement of pedagogical and professional competencies, motivation of HETP's achievements, contributes to 100% staffing of teaching staff of the Educational Program. The HETP realizing the EP of 7R01104 "Adult and Pediatric Gastroenterology" specialty has 100% staffing, high scientific, pedagogical and clinical qualification. In order to improve the EP, the Development Plan of the "Adult and Pediatric Gastroenterology" EP for 2020-2023 was developed and approved (approved at the Council of SRPD, Minutes No. 2, dated October 15, 2020). The practice of active participation in the development and evaluation of the EP of the 7R01104 "Adult and Pediatric Gastroenterology" residents' specialty, in the discussion of the catalog of elective disciplines has been introduced in KMU NJSC, which guarantees a timely process of updating the EP based on past experience, current activities and future prospects.

EEC conclusions on the criteria. Comply with 1 standard (1 basic): fully compliant – 1

Standard 9: fulfilled

Recommendations for improvement identified during the external visit: none

<p>CONCLUSION: During the external evaluation of the educational program, it was found that out of 147 standards (including 91 basic standards and 56 improvement standards) 89 basic accreditation standards and 56 improvement standards demonstrate full compliance. 2</p>
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basic standards were partially met. Non-compliance of standards was not found.

5. The recommendations on improvement of the educational program on 7R01104 “Adult and Pediatric Gastroenterology” specialty:

1) Develop and implement a program to determine the validity and reliability of resident evaluation methods (3.1.4, 3.1.6).

ECAQA

6. Recommendation to the ECAQA Accreditation Council

The EEC members came to the unanimous opinion to recommend the Accreditation Council to accredit the **7R0110 “Adult and Pediatric Gastroenterology”** 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.

Chairperson of the External Expert Committee

KUDABAYEVA KHATIMYA ILYASOVNA

/Signature/

Foreign Expert

RYZHKIN SERGEY ALEXANDROVICH

/Signature/

Foreign Expert

AFRIKYAN SHUSHANIK GEVORKOVNA

/Signature/

National Academic Expert

URAZOVA SALTANAT NURGOZHAYEVNA

/Signature/

National Academic Expert

SHABDARBAYEVA DARIYA MURATOVNA

/Signature/

National Academic Expert

RAMAZANOVA RAIGUL MUKHANBETOVNA

/Signature/

National Academic Expert

ZHUMALINA AKMARAL KANASHEVNA

/Signature/

National Academic Expert

TULEUTAYEVA RAIKHAN YESENZHANOVNA

/Signature/

National Academic Expert

BAIGOZHINA ZAURE ALPANOVNA

/Signature/

National Academic Expert

RAMAZANOVA SHOLPAN KHAMZAYEVNA

/Signature/

National Academic Expert

YERALIYEVA BIBIKHAN ABDALIYEVNA

/Signature/

National Academic Expert

ISPOSUNOVA GULNARA AKHMETKAZYEVNA

/Signature/

National Academic Expert

DOSHAKANOVA ASSEL BAIDAULETOVNA

/Signature/

National Academic Expert

DOSANOVA ASEM KALELOVNA

/Signature/

Expert - Representative of Practical Health Care

DANIYAROVA BAYAN LASHINOVNA

/Signature/

Expert - Representative of Doctoral Students

ORAZBAY AKNUR DAURENKYZY

/Signature/

Expert - Representative of Residents

KURAK AIDANA ZHANAIDAROVNA

/Signature/

6. Рекомендация Аккредитационному совету ЕЦА

Члены ВЭК пришли к единогласному мнению рекомендовать Аккредитационному совету аккредитовать образовательную программу **7R01104 «Гастроэнтерология 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

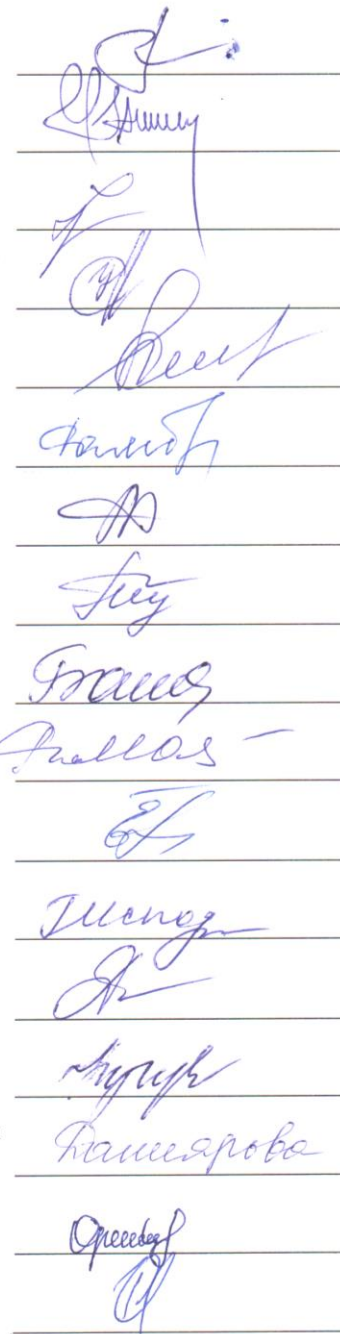
Национальный академический эксперт
ДОШАКАНОВА АСЕЛЬ БАЙДАУЛЕТОВНА

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 of external evaluation and 7R0110 “Adult and Pediatric Gastroenterology” residency educational program (summary)
KMU NCJS**

Standard	Evaluation criteria	Number of standards	BS*/IS	Evaluation		
				Fully compliant	Partially compliant	Not compliant
1.	MISSION AND FINAL RESULTS	17	10/7	10/7		
2.	EDUCATIONAL PROGRAM	30	22/8	22/8		
3.	EVALUATION OF RESIDENTS	11	7/4	5/4	2/0	
4.	RESIDENTS	30	18/12	18/12		
5.	ACADEMIC STAFF/TEACHERS	7	5/2			
6.	LEARNING RESOURCES	21	10/11	10/11		
7.	EVALUATION OF THE EDUCATIONAL PROGRAM	15	10/5			
8.	MANAGEMENT AND ADMINISTRATION	15	8/7			
9.	CONTINUOUS IMPROVEMENT	1	1/0			
		147	91/56	89/56	2/0	
				147		

List of documents reviewed by the EEC members as part of the external evaluation of the residency educational program

No.	Name of documents	Quantity
1.	<p>- “Gastroenterology, including Pediatric Gastroenterology” residency EP was discussed by the Academic Committee (Minutes No. 4 dated June 07, 2019), approved by the Academic Council (Minutes No. 7 dated June 18, 2019), approved at the meeting of the Academic Council and by the Chairperson of the Board-the President of the KMU NJSC (June 27, 2019, Minutes No. 10)</p> <p>- “Adult and Pediatric Gastroenterology” EP (with updates, 2022), approved at the meeting of CQASRPD (Minutes No. 3 dated July 05, 2022), discussed at the meeting of the Board of SRPD (Minutes No. 11 dated July 07, 2022) and approved by the decision of the Board of the KMU NJSC (Minutes No. 16, dated July 13, 22)</p>	2
2.	<p>- Working curriculum for 2021-2023 academic years of the residency 7R09104 “Adult and Pediatric Gastroenterology” residency specialty (No. 101/3545 dated August 12, 2021)</p> <p>- Working curriculum for 2022-2024 academic years of the 7R09104 “Adult and Pediatric Gastroenterology” residency specialty" (No 101/3027 dated June 15, 2022)</p>	2
3.	Catalog of Elective Disciplines for the 7R01104 “Adult and Pediatric Gastroenterology” educational program, 2022, reviewed and approved at the meeting of the Council of the School of Residency and Professional Development, Minutes No. 4, dated November 10, 2022	1
4.	<p>- Syllabus on the “Gastroenterology” module discussed and reviewed at the meeting of the Department of Pediatrics and Neonatology, Minutes No. 10, dated May 27, 2022, Oncology and Radiation Diagnostics, Minutes No. 1 dated August 26, 2022, Internal Diseases, Minutes No. 1, dated May 31, 22, approved by EP Head on May 31, 2022</p> <p>- Syllabus on the “Adult Hepatology” discipline, discussed and reviewed at the meeting of the Department of Internal Diseases, Minutes No. 10A, dated June 29, 2022, approved by EP Head on April 29, 2022</p>	2
5.	The list of clinical skills taught by the Department of Internal Diseases in the Central Medical Center for the 1st-year students of the educational program in 7R09104 “Adult and Pediatric Gastroenterology” discipline in the 2022-2023 academic year, approved by EP Head, Head of the Department of Internal Diseases, Laryushina Ye.M., September 05, 2022	1
6.	<p>Agreement on joint activities with KMU NJSC:</p> <p>- Oblast Children's Clinical Hospital State Municipal Enterprise of the DH KR (No. 347 dated September 01, 2022)</p> <p>- Oblast Children's Clinical Hospital State Municipal Enterprise of the DH KR (agreement No. 353 dated September 01, 2022)</p>	2
7.	Methodological recommendations with the use of active, innovative teaching methods on the topic: “Interdisciplinary Patient: Diagnosis and Treatment of Bleeding” (intellectual quest game) for residents in 3 specialties: Adult and Pediatric Gastroenterology (“Adult Hepatology” discipline, Hepatology module), Adult Hematology (“Consultative Hematology” discipline, Outpatient Hematology module), Adult and Pediatric Pulmonology (Intensive Therapy in Pulmonology discipline,	1

	Adult Pulmonology in Hospital module)	
8.	Portfolio of the 2nd year resident of “Adult and Pediatric Gastroenterology” specialty of Kadyrova Angelina Zhumabekovna. - 1st degree diploma in the competition of poster reports of the Congress of Hepatologists/Gastroenterologists of Kazakhstan. June 27, 2022 Kadyrova A.Zh. et al. - 1st degree diploma in the competition of poster reports of the IV International conference “Gastroenterology-2023”, 3-4.03.23, Ivacheva S.Ya., Kadyrova A.Zh., Chunkeneeva A.S. et al.	3
9.	- Individual work plan of resident, Igenbekov A.T. for 1 year of study, group 8-001, for 2022-2023 academic year, approved at the meeting of the Department of Internal Diseases, Minutes No. 2 dated September 05, 2022 - Extract from the minutes of the meeting of the Department of Internal Diseases, Minutes No. 2 dated September 05, 2022 On the discussion and approval of the individual plan of the resident (IPR) in the specialties of the residency	2
10.	- The report of the resident, Zholomanova G.K. for the 2021-2022 academic year, discussed and approved at the meeting of the Department of Internal Diseases, Minutes No. 10A, dated June 29, 2022	
11.	Individual work plan of the teacher: Head of the Department of Internal Diseases, Professor Ye.M. Laryushina for 2022-2023, approved at the meeting of the Department of Internal Diseases, Minutes No. 2 dated September 05, 2022	1
12.	Materials on academic mobility of HETP: - The program of classes on the “Strategic planning and quality assurance in a medical university” discipline by the Head of the Department of Internal Diseases, Can.M.Sc., Laryushina Yelena Mikhailovna for teachers of the Tajik State Medical University in the period from December 19 to 21, 2022 - Invitation letter from the President of the Tajik State Medical University, Dr.M.Sc., Gulzoda M.K. to participate in the academic mobility of the HETP of Professors Turgunova L.G. and Laryushina Ye.M., dated December 14, 2022	2
13.	Acts of introduction of innovative teaching methods into the educational process: - the name of the offer: “Quest-Game”, approved by the Provost for Academic Affairs of the KMU NJSC Riklefs V.P., January 23, 2023 - the name of the sentence: “Multidisciplinary Consultation”, approved by the Provost for Academic Affairs of the KMU NJSC, Riklefs V.P., October 13, 2022 - the name of the offer: “The School of a Young Internist”, approved by the Provost for Academic Affairs of the KMU NJSC, Riklefs V.P., February 10, 2022 - the name of the offer: “Training based on the Prevention of Medical Errors (TAME)”, approved by the Provost for Academic Affairs of the KMU NJSC, Riklefs V.P., October 13, 2022	4
14.	Acts of implementation of RW results in the educational process: - the name of the offer: “Algorithm of Preventive Counseling: Individual in-Depth Preventive Counseling”, approved by the Provost for Academic Affairs of the KMU NJSC, Riklefs V.P., September 29, 2022 - the name of the offer: “Individual Risk Cards for the Development of Cardiovascular Diseases”, approved by the Provost for Academic Affairs of	3

	<p>the KMU NJSC, Riklefs V.P., May 04, 2022</p> <ul style="list-style-type: none"> - the name of the offer: “Preventive Model of Management of Risk Factors of Cardiovascular Diseases in the Primary Consultation of Patients”, approved by the Provost for Academic Affairs of KMU NJSC, April 28, 2023 	
15.	<p>Questionnaire analysis:</p> <ul style="list-style-type: none"> - Evaluations of residents' satisfaction with the quality of the educational process, considered at the meeting of the Commission for Quality Assurance at the School of Residency and Professional Development, Minutes No. 3, dated April 06, 2023, signed by the Chairperson, Zhusupova A.M. - Satisfaction of employers of graduates of the 2021-2022 academic year, considered at the meeting of the Commission on Quality Assurance at the School of Residency and Professional Development, Minutes No. 2, dated February 02, 2023, signed by the Chairperson, Zhusupova A.M. - Analysis of the survey of residents of the KMU NJSC in “Adult and Pediatric Gastroenterology” specialty for the 2021-2022 academic year, conducted upon completion of training in each discipline; discussed at the meeting of the Department of Internal Diseases, Minutes No. 10A, dated June 29, 2022 	3
16.	<p>Materials of the final control:</p> <ul style="list-style-type: none"> - Specification of test assignments of the 2nd stage of final control for 2nd-year residents of 7R01104 “Adult and Pediatric Gastroenterology”, approved at the meeting of the Department of Internal Diseases, Minutes No. 2, dated September 05, 2022 - Clinical task for the final control in the form of a written assignment on the Session platform for “Gastroenterology” module for 1st-year residents of 7R01104 - Adult and Pediatric Gastroenterology module; the materials of the final control were approved at the meeting of the Department of Internal Diseases, Minutes No. 2, dated September 05, 2022 - Clinical task for the final control in the form of a written task on the Session platform on “Nutritionology” discipline for 1st-year residents of 7R01104 - Adult and Pediatric Gastroenterology; materials of the final control were approved at the meeting of the Department of Internal Diseases, Minutes No. 2, dated September 05, 2022 - Clinical task for the final control in the form of a written assignment on the Session platform for “Gastroenterology” module (“Ultrasound Diagnostics” discipline) for residents of the 1st year of study specialty 7R01104 – Gastroenterology adult, children - Review (external) of test tasks for final control in “Adult Hepatology” discipline for residents of 7R01104 “Adult and Pediatric Gastroenterology” for 2022-2023 academic year from the Head of the Hepatological Center of the OCH SME, Chief part-time hepatologist of the Karaganda region, gastroenterologist of the highest category, Lozinskaya I.A., August 31, 2022 - Review (internal) of the materials of the final control on “Hepatology” module for 2nd-year residents in 7R01104 “Adult and Pediatric Gastroenterology”, Professor of the Department of Internal Diseases of the KMU NJSC, Can. M. Sc., Alina A.R. - Extract from the minutes of the meeting of the Department of Internal Diseases, Minutes No. 2 dated September 05, 2022. On the discussion of 	8

	<p>the forms and materials of the final control of residents in the specialties of the residency.</p> <ul style="list-style-type: none"> - Extract from the minutes of the meeting of the Council of the School of Residency and Professional Development, Protocol No. 2 dated September 08, 2022 - Review of clinical tasks for the final control of “Gastroenterology” module for residents of “Adult and Pediatric Gastroenterology” specialty for 2022-2023 academic year, Head of the Gastroenterology Department of the OCH SME of Karaganda, Chief part-time gastroenterologist of the DH of KO, Kabdulina N.V., September 02, 2022 	
17.	<p>“Peer Review methodology in ensuring the quality of higher medical education”. Methodological recommendations/ KMU, Karaganda, 2022, 77 pages. Riklefs V.P., Laryushina Ye.M., Kaliyeva Sh.S., Turgunova L.G., Muldayeva G.M., Sheryazdanova D.N., Approved at the meeting of the Senate of the KMU NJSC dated December 29, 2022, Minutes No. 5</p>	1
18	<p>The work plan of the Journal Club of the Department of Internal Diseases for 2022-2023 academic year, reviewed and approved at the meeting of the Department of Internal Diseases, Minutes No. 2, dated September 05, 2022</p>	1
19	<p>The program of the School of the young internist of the Department of Internal Diseases for 2022-2023 academic year, reviewed and approved at the meeting of the Department of Internal Diseases, Minutes No. 2, dated September 05, 2022</p>	1