

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

**REPORT
OF EXTERNAL EXPERT COMMISSION
ON THE RESULTS OF EDUCATIONAL PROGRAM EVALUATION
7R01105 ADULT HEMATOLOGY
OF KARAGANDA MEDICAL UNIVERSITY NON-PROFIT JOINT STOCK
COMPANY
FOR THE COMPLIANCE WITH THE STANDARDS FOR PROGRAMME
ACCREDITATION OF POSTGRADUATE EDUCATION
(RESIDENCY SPECIALTIES) OF MEDICAL EDUCATIONAL
ORGANIZATIONS**

External peer review period: May 24 -26, 2023

Karaganda, 2023

CONTENTS

	List of designations and abbreviations	2
1.	Membership of the external expert commission	5
2.	General part of the final report	7
2.1	Educational program presentation on the specialty - 7R01105 ADULT HEMATOLOGY	7
2.2	Information about previous accreditation	9
2.3	Conclusion on the results of the report review on self-assessment of educational program 7R01105 ADULT HEMATOLOGY for compliance with the Accreditation Standards of Postgraduate Education Programs (Residency Specialty) of Medical Education Organizations and conclusions	10
3.	External peer review description and conclusion	11
4.	Analysis on compliance with accreditation standards on the results of external evaluation of educational program 7R01105 ADULT HEMATOLOGY.	15
5.	Recommendations for improvement of the educational program 7R01105 ADULT HEMATOLOGY	42
6.	Recommendation to the Accreditation Board	42
	Appendix 1. Quality profile and criteria of external evaluation and educational program of residency in the specialty of educational program 7R01105 ADULT HEMATOLOGY.	44
	Appendix 2. List of documents reviewed within the framework of the external expert evaluation	45

LIST OF SYMBOLS AND ABBREVIATIONS

Abbreviation	Designation
AC	Academic Committee
AP	Academic Policies
HEI	Higher Education Institution
SCES	State Comprehensive Education Standard
DAA	Department of Academic Affairs
DET	Distance education technologies
DIID	Department of Informatisation and Infrastructure Development
D.M.	Doctor of Medicine
HRMD	Human Resources Management Department
UHEMS	Unified higher education management system
QA	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
CQASRPD	Commission for Quality Assurance of the School of Residency and Professional Development
SOPE	State-Owned Public Enterprise
Ph.D.	Doctorate Degree in Medicine
MH	Ministry of Health
LEB	Local Executive Board
NJSC	Non-Profit Joint Stock Company
KMU NJSC	Karaganda Medical University Non-Profit Joint Stock Company
NCIE	National Centre for Independent Examinations
SC	Science Centre
RDC	Research and Development Centre
RDW	Research and Development Work
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
MS	Middle School
PS	Principal Subject
PC	Principal Competences
PHC	Primary Health Care
HETP	Higher-Education Teaching Personnel
RK	The Republic of Kazakhstan
LO	Learning Outcomes
WC	Working Curriculum
SSS	Student Support Services

IWR	Independent Work of Residents
IWRT	Independent Work of Residents With Teachers
EPMS	Employee Performance Management System
SES	Secondary Education School
SC	Secondary School
TByte	Terabyte
VET	Technical and Vocational Education/
LLP	Limited Liability Partnership
MC	Model Curriculum
TP	Teaching Package
KOHD	Karaganda Oblast Health Department
ATF	Advanced Training Faculty
CSET	Centre for Simulation and Educational Technologies
PSC	Practical Skills Centre
CCE	Centre for Continuing Education
SRPD	School of Residency and Professional Development
SRMEE	Association for Medical Education in Europe
CBL	Clinical based learning
ECTS	European Credit Transfer and Accumulation System
GPA	Grade Point Average
PBL	Problem-Based Learning
RBL	Research-Based Learning
TBL	Team- Based Learning
ON	Learning Outcomes

1. Membership of the external expert commission

In accordance with the order № 15 of 11.05. 2023, the External Expert Commission (hereinafter - EEC) was formed to conduct an external evaluation of the educational program of the residency in the specialty 7R01105 Adult Hematology in the period from 24 to 26 May 2023 in the following members:

No.	Status as a member of the EEC	Full name	Academic degree, academic title, position, place of work/place of study, course, specialty
1	Chairman	KUDABAEVA KHATIMYA ILYASOVNA	Associate Professor, Candidate of Medical Sciences, Professor of the Department of Internal Diseases No. 1 of the West Kazakhstan Marat Ospanov State Medical University NJSC
2	Foreign expert	RYZHKIN SERGEY ALEXANDROVICH	Doctor of Medical Sciences, Head of the Department of Radiotherapy and Radiology named after Academician A.S. Pavlov, Head of the Department of Additional 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)
3	Academic expert	AFRIKYAN SHUSHANIK GEVORKOVNA	PhD in Pharmacy/Candidate of Pharmaceutical Sciences, Associate Professor of the Department of Pharmacy, Head of the Department of Organization of Computer Examinations of Yerevan State Medical University named after M. Heratsi, Republic of Armenia
4	Academic expert	URAZOVA SALTANAT NURGOZHAYEVNA,	Doctor of Medical Sciences, Head of the Department of Family Medicine No. 3 of the Astana Medical University NJSC
5	Academic expert	SHABDARBAYEVA DARIA MURATOVNA,	Doctor of Medical Sciences, Professor, pathologist of the highest category, medical examiner of the highest category, Head of the Department of Pathological Anatomy and Forensic Medicine named after Professor Yu.V. Y.V. Pruglo of the Semey Medical University NJSC
6	Academic expert	RAMAZANOVA RAIGUL MUKHANBETOVNA	Doctor of Medical Sciences, Professor of the Department of Internal Diseases of the S.D. Asfendiyarov Kazakh National Medical University NJSC
7	Academic expert	ZHUMALINA AKMARAL KANASHEVNA,	Doctor of Medical Sciences, Professor, Head of the Department of Pediatric Diseases with Neonatology of the West Kazakhstan Marat Ospanov State Medical University NJSC
8	Academic expert	TULEUTAeva RAYKHAN YESENZHANOVNA,	Candidate of Medical Sciences, Head of the Department of Pharmacology and Evidentiary Medicine of Medical University NJSC
9	Academic expert	BAIGOZHINA ZAURE ALPANOVNA,	Candidate of Medical Sciences, Dean of the School of Nursing of the Astana Medical University NJSC, Member of the Association for Medical Education in Europe (AMEE)
10	Academic expert	RAMAZANOVA SHOLPAN KHAMZAEVNA	Candidate of Medical Sciences, Acting Associate Professor of the Department of Clinical Disciplines of Al-Farabi Kazakh National University
11	Academic expert	YERALIEVA BIBIKHAN ABDALIEVNA,	Candidate of Medical Sciences, Assistant of the Department of Clinical Pharmacology of the S.D. Asfendiyarov Kazakh National Medical University NJSC
12	Academic expert	ISPOSUNOVA GULNARA AKHMETKAZYEVNA	doctor – urologist of the highest qualification category, assistant of the Department of Urology of the S.D. Asfendiyarov Kazakh National Medical University NJSC
13	Academic expert	DOSANOVA ASEM KALELOVNA	PhD, Associate Professor of the Department of Pediatric Surgery of the Astana Medical University NJSC

14	Academic expert	DOSHAKANOVA ASEL BAIDAULETOVNA	Candidate of Medical Sciences, Head of the Department of Postgraduate Education of Kazakh Order "Badge of Honor" Scientific Research Institute of Eye Diseases LLP
15	Representative of employers	DANIYAROVA BAYAN LASHINOVNA	Deputy Director for Strategic Development of the Regional Clinical Hospital of the Karaganda Region Health Department;
16	Representative of doctoral students	ORAZBAY AKNUR DAURENKYZY	doctoral student of the first year of study in the specialty "Biology" of the Karaganda Buketov University NJSC Buketov NJSC

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

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

The EEC report contains the evaluation of the educational program 7R01131 Adult and Pediatric Endocrinology for compliance with the Accreditation Standards for Postgraduate Education Programs (Residency Specialty) of Medical Education Organizations and Conclusions (hereinafter - Accreditation Standards), recommendations of the EEC on further improvement of approaches and conditions for the implementation of the above educational program and recommendations for the ECAQA Accreditation Board.

2. General part of the final report

2.1 Presentation of the residency educational program in the specialty 7R01105 Adult Hematology

Name of organization, legal form of ownership, BIN	Karaganda Medical University non-profit joint stock company, BIN 190140033600
Management body	The Ministry of Health of the Republic of Kazakhstan
Full name of the first supervisor	Anar A.Turmukhambetova
Creation date	1950
Location and contact data	Republic of Kazakhstan, Karaganda, Gogolya str. 40, tel. 8-7212-50-06-31
State license for educational activity in residency (date, number)	No. 14020603 dated 14.04.2015 KZ32LAA00016018 dated 06.05.2019.
Year of implementation of the accredited educational program (EP) started	2015
Duration of training	2 years
Total number of graduates since the beginning of the implementation of the EP	7
Number of residents at the EP from the beginning of the current academic year	4
Full-time lecturers/part-time lecturers involved in the implementation of the EP, including % with academic degree	Total number of gteaching staff - 2, including full-time - 2, part-time - 0. Academic degree, % - 100 Categorization, % -100
Website Instagram Facebook with active pages	www.qmu.edu.kz @officialkmu

Karaganda Medical University Non-Profit Joint Stock Company was established in 1950. Now it is a leading medical university of Kazakhstan in training qualified personnel for the health care system and has a high reputation in the provision of educational, scientific and therapeutic-diagnostic services, has a high national rating among medical universities of Kazakhstan.

Since 2019, KMU NJSC has received the status of a research university (Resolution of the Ministry of Health of RK dated June 27, 2019 No. 453). In the field of medical education, science and practice partners of the University are medical universities and research centers of Kazakhstan, Russia, Belarus, Georgia, Tajikistan, Uzbekistan, as well as France (University of Poitiers), Italy (University of Milan), Japan (Shimane University), Great Britain (University of London St. George) and others. The University actively participates in the implementation of international projects of the Erasmus+ program.

In dynamics for the last 5 years, the number of accepted residents for the educational program (EP) Adult Hematology varies due to the number of places allocated under the state order and the number of accepted residents studying on a contractual basis in accordance with the needs of medical organizations of the region and RK (Table 2; Annex 3, 4). The number of accepted residents for the educational program Adult Hematology in 2018-2019 academic year - 4 people, in 2021-2022 - 2 people, in 2022-2023 academic year accepted 2 people. During the last year the allocation of places under the state order is noted.

During the last 5 years the number of residents was 11 people: in 2017-2018 enrolled 3 residents (state order), in 2018-2019- 4 residents (state order), in 2019-2020 and 2020-2021- there was no enrollment, in 2021-2022- 2 residents at the expense of the medical organization, in 2022-2023- 2 residents on the basis of state order. Graduation amounted to 7 residents, 100% are employed in their specialty, 2 of them work as senior residents, 1 graduate - in Ph- doctoral studies, 4 residents are training in the current year.

The average final grade point average of 7 graduates for 2019-2022 was 88.1% (57.1% "excellent", 42.9% "good")

The head of the EP is Professor Turgunova L.G., Chairman of the Educational Programs Committee on the specialty Adult Hematology, developer and reviewer of clinical protocols of diagnosis and treatment, an expert in the field of quality of medical services for patients with hematological profile. Professor Turgunova L.G. is a professor of the highest category, has the award "Densaulyk saqtau isine qoqqan ylesı yshın", medal for the 30th anniversary of Independence of Kazakhstan. Graduates of EP residency " Adult Hematology" are in demand, the employment rate is 100%.

From 2021-2022 academic year residents are involved in the performance of research works within the framework of the project office of the Hematology Center. Thus, in 2021-2022 residents Kakhanova M.A. and Antonova N.E. are involved in clinical research "Assessment of quality of life of patients with multiple myeloma in Central Kazakhstan" (2021-2023), Kakhanova M.A. - "PCR analysis of mutational status of genes of variable regions of immunoglobulins (rearrangement of IgHV genes) in patients with chronic lympholeukemia in Kazakhstan" (2022-2023).

For 2018-2022, residents of the OP "Hematology Adult" published 10 publications, including 4- in Committee For Quality Assurance Of Education And Science, 3-Scopus, performed 5 presentations at international and national conferences, 8 reports at the Republican Schools of Hematology, organized by Kazakhstan Professional Society of Oncohematologists, Republican Association of Hematologists of Kazakhstan (Appendices 12, 13). Graduate of the residency in 2020. Mehantseva I.V. continues her doctoral studies on the basis of KMU NPJSC.

Residency hematology residents Spakova A.V., Turdybekova A.M., Margulan T. participated in providing care to patients with hematological diseases during the pandemic COVID-19 under the guidance of clinical mentors, were awarded with a Letter of Gratitude from Hematology Center LLP.

In October and December 2022, residents-hematologists were speakers at the interdisciplinary workshop with the participation of Baikov Vadim V., Doctor of Medical Sciences, Head of the

Pathomorphology Laboratory, Pavlov First Saint Petersburg State Medical University Of St Petersburg (Saint Petersburg, Russia). Within the framework of the program "Visiting foreign professors" and joint work with the partner university a course of lectures by Prof. Vavilova T.V., devoted to the problems of hemostasis in blood diseases, liver diseases, peculiarities in pregnant women, "Course of hepatology" by Dr. Esmememos, professor of the University Clinic of Aachen, Germany) was held. Aachen, Germany) by K.K. Esmembetov.

The clinical preceptors under whose supervision residents perform clinical activities are:

1. A.V. Zinchenko - clinical mentor of the Internal Medicine Department, deputy director for clinical work of Hematology Center LLP, chief non-staff hematologist of the Healthcare Department of Karaganda region (HDKR), hematologist of the highest category

2. Bruner O.V. - Clinical mentor of the Internal Medicine Department, resident of Hematology Center LLP, doctor - hematologist 1 category

3. Alina G.A. - clinical mentor of the Internal Medicine Department, resident of Hematology Center LLP, doctor - hematologist 1 category

4. Vetrova S.F. - clinical mentor of the Internal Medicine Department, resident of the Hematology Center LLP, doctor-hematologist, category 1

The results of Higher-Education Teaching Personnel (HETP) research work for the last 5 years are presented in the form of oral/poster reports at scientific-practical conferences in the Republic of Kazakhstan (XIII Congress of Oncologists and Radiologists of CIS and Eurasia, April 29, 2022; conference on COVID;) and abroad (3- ATTD 2020, 2021, 2022; 2- EHA, 2021, 2022) and publications in international peer-reviewed journals (3- ATTD 2020, 2021, 2022; 2- EHA, 2021, 2022).

Based on the annual rating assessment of the department's activity, positive dynamics is noted: in 2019-2020 academic year the fulfillment of key indicators of the Internal Medicine Department amounted to 78%, in 2021 - 2022 academic year - 87%, in the rating of 2021-2022 academic year - 88%. For the last 3 years, the Internal Medicine Department takes the 1st place among the clinical departments of the university on the fulfillment of the indicators of the departments' activity.

The development plan of the educational program of residency in the specialty " Adult Hematology" provides for incoming and outgoing academic mobility of residents to partner universities, visiting professors, which is implemented according to the plan of academic mobility. From May 25 to June 7, 2018 residents K.N. Zhauynbekova, A.M. Turdybekova, A.J. Anafina studied at the Kazakh Medical University of Continuing Education (Kaz MUCU) on the basis of the Research Institute of Oncology and Radiology, Almaty. In 2021-2022 academic year the resident Antonova N.E. underwent academic mobility in National Scientific Oncological Center LLP, Astana (05.05.2022 - 31.05.2022), in 2022-2023 academic year the residents Antonova N.E., Kakhanova M.A., Selivanov M.I. - at the I.I. Mechnikov Northwestern Medical University, St. Petersburg, Russia (28.11.2022 - 11.12.2022).

Incoming academic mobility is also developed: in 2022-2023 academic year a resident from S.D. Asfendiyarov Kazakh National Medical University is studying within the framework of academic mobility and 4 residents from I.I. Mechnikov North-Western State Medical University were trained. Satisfaction of residents with the results of academic mobility is high.

2.2 Information on previous accreditation

In 2017 the EP on specialty Adult Hematology was accredited by the Independent Kazakhstan Quality Assurance Agency in Education (IQQA), registration number SA No. 0121/4, accreditation validity period: June 17, 2022).

2.3 Conclusion on the results of the report review on self-assessment of educational program 7R01105 Adult Hematology for compliance with the Accreditation Standards of Postgraduate Education Programs (Residency Specialty) of Medical Education Organizations and conclusions

The report on self-assessment of the educational program of the residency specialty 7R01105 Adult Hematology (hereinafter - the report) is presented on 106 pages of the main text, appendices on 9 pages, located at the link

<https://drive.google.com/drive/folders/1pdCvvF1zipqSvbyN9b9UVEg5NIvvJdId?usp=sharing>.

The report has a completed form and is characterized by completeness of answers to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for the self-assessment of the educational program provided to the educational organization by the accreditation center - , as well as the internal unity of information. The report is accompanied by a cover letter signed by the rector Turmukhambetova A.A., which confirms the reliability of quantitative information and data included in the self-assessment report.

The report has a list of 9 members of the internal self-assessment commission with the indication of responsibility of each employee, information about the representative of the organization responsible for the self-assessment of the educational program - Ernazarova M.A., chief specialist of the department of strategic development and quality management of KMU NJSC.

Self-evaluation of the educational program Adult and Pediatric Endocrinology was conducted based on the order of the Rector of the University № 274 of 16.09.2022 "On the creation of a working group to conduct specialized self-evaluation and report writing".

The report was reviewed by accreditation expert Ramazanova R.M., 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-assessment report.

In all standards the real practice of the University on training residents in the specialty 7R01105 - ADULT HEMATOLOGY is given, taking into account the beginning of admission of students in 2015, 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-assessment report is sufficiently complete and updated on the number of residents, staff, administration, information on selection and admission, training results, results of knowledge and skills assessment, material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, plans for development and improvement.

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

The quality of the self-assessment report served as a basis for the transition to the next stage of the accreditation procedure - external assessment. The experts planned validation of the report data, comparison of the 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

External expert work within the evaluation of the educational program Adult and Pediatric Endocrinology was organized in accordance with the Guidelines for external evaluation of QA educational organizations and educational programs and under the program approved on 20.05.2022 by QA General Director Sarsenbaeva S.S. and agreed upon with the Rector of Medical University of Karaganda NJSC Turmukhambetova A.A. Visit dates: May 24 -26, 2023.

The external evaluation is aimed at validation of the self-assessment report data and verification of indicators certifying 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 Program (hereinafter - the program), which is in the documentation of the accreditation center. The program is a proof of implementation of all planned activities within the framework of the external expert review.

On the first day of the visit - May 24, 2023 was held a meeting with members of the Board of Medical University of Karaganda NJSC - Toleubekov K.K., Turgunov E.M. Discussed issues of internal quality assurance policy in higher and postgraduate education, planning, monitoring of implementation, provision of resources, evaluation of educational programs, work with departments; issues of clinical resources for training residents, scientific directions of the university, motivation systems and participation in research and development of teachers of residency departments. EEC members met with employees of departments responsible for admission and employment of graduates with the head of the Career Development Department Tokzhumanova G.M., Dean of the Residency School Tashkenbaeva V.B., Dean of Nursing Education Estemesova K.A., Director of the Institute of Life Sciences Kluyev D.A., the questions about the formation of the state order for specialties, selection and admission procedures, paid training, career guidance work, feedback with applicants and applicants, work with departments, monitoring the employment of graduates, satisfaction with the quality of training of graduates were discussed.

They visited the university library, the area of which is 1526 square meters, the area of book storage - 941.6 square meters. The number of seats in the reading rooms is 443. The library includes: the department of acquisition and bibliography and the department of service of scientific and educational literature (consists of the scientific literature subscription, two subscriptions of educational literature, reading room and periodicals hall, hall of electronic resources, interactive hall). The computer park of the library consists of 113 computers, including 88 thin clients (TC), 21 personal computers (PC) are located in the subdivisions of the library, 4 PCs and 63 TCs - in the hall of electronic resources and 25 TCs - in the interactive hall, the whole park of computers is connected via INTERNET. Wi-Fi zone is spread throughout the library. There are 2 scanners for users in the e-resources room. The Interactive Hall is equipped with a short-focus projector. For students there is the Hall of the Researcher, equipped with 15 computers connected to the Internet, which allows to have access to all information resources of the university. Service of users in the electronic halls is provided from Monday to Friday from 09-00 to 20-00, on Saturday from 09.00 to 18-00. To implement the educational process in the specialty " Adult Hematology" the book supply of basic and additional literature is 100%. Among them, the total number of textbooks, including in the Kazakh language-1314 copies, scientific literature - 785 copies, periodicals - 4, electronic publications - 7.

The experts also visited the university gym and the Student Service Center (SSC). In the SSC a student and resident can get all the necessary documents signed with an electronic digital signature through a personal account on the portal cos.qmu.edu.kz., previously ordering the necessary service. The result of the service is sent to the student's e-mail.

Then the experts visited the Centre for Simulation and Educational Technologies (CSET). The area of the Centre for Simulation and Educational Technologies is 1300 square meters, 42 training rooms. It is equipped with 400 types of simulation equipment, including 57 high-tech simulators.

Meetings were held with members of the Academic Senate Committee and the Quality Assurance Committee of the Residency School (master's, PhD, residency); with members of Human Resource Management and the Center for Simulation and Educational Technology Department; and with members of the Economics and Finance Department.

On the second day of the visit we visited 3 practice/clinical training bases, including the Hematology Center LLP, 17 Sakena Seyfullina St., where training on the educational program Adult Hematology is conducted with the participation of 7 full-time faculty members.

At the clinical bases, the experts attended 2 practical classes, including attending an open lesson on "**Multidisciplinary Consilium: diagnosis and treatment of bleeding**", organized by the lecturers of the Internal Medicine Department of KMU NPJSC. The lesson was attended by residents of the 1st and 2nd year of training in the specialties of **Adult Hematology**, Gastroenterology adult, including pediatric, Pulmonology adult, including pediatric. There were 18 residents in attendance. The class was conducted by teachers: Doctor of medical sciences, Professor Ibraeva L.K., Candidate of medical sciences, Professor Laryushina E.M., Doctor of medical sciences, Professor Turgunova L.G. Place:

training room of the Internal Medicine Department on the basis of the Regional Clinical Hospital of SME HDKR at the address: 41/43, Yerubaeva str;

In the second half, interviews with students, lecturers, graduates and employers were conducted.

To obtain objective information, the following methods and their results were used by the EEC members: students, teachers, graduates and employers:

- interview with management and administrative staff - 7 people;
- -nterviews with residents - 84 people;
- exploring the Web site <https://www.qmu.edu.kz/ru>;
- interviewing 40 staff, 35 lecturers and tutors;
- faculty and resident questionnaires - 32 and 63, respectively;
- review of resources in the context of meeting accreditation standards: 3 bases of clinical engagement were visited, including "Regional Clinical Hospital" SME, Healthcare Department of Karaganda Region, where training on 6 educational programs is conducted with the participation of 6 full-time teachers /12 part-time clinical mentors. In addition, Hematology Center LLP (S.Seyfullina str., 17), Regional Children's Clinical Hospital of SME, Healthcare Department of Karaganda Region (Yerzhanov str., 8) were visited;
- examination of educational and methodological documents placed in 44 annexes (88 items) both before the visit to the organization and during the visit to the subdivisions (the list of the studied documents is in Annex 2).

From the side of the team of the accredited organization ensured the presence of all persons specified in the visit program and according to the lists of interview and interview sites (Table 1).

Table 1 - The number and category of participants participating in meetings, interviews, conversations with EEC members

No.	Full name	Number
1	Members of the Board of Karaganda Medical University Non-Profit Joint Stock Company	2
2	Employees of departments responsible for the admission and employment of graduates	4
3	Heads of educational programs	4
4	Members of the Academic Senate Committee, the Quality Assurance Commission of the Residency School	9
5	Employees of the Department of Human Resources Management and the Center for Simulation and Educational Technologies	3
6	Staff of the Economics and Finance Department	1
7	Residents	84
8	Faculty members	35
9	Alumni (residency)	39
10	Employers (residency)	23

Information on the number and category of participants of meetings, interviews, interviews with members of the EEC on the specialty 7R01105 - ADULT HEMATOLOGY

No.	Full name	Number
1	Meeting at the clinical base of Hematology Center LLP, Karaganda with the head of the EP Professor Turgunova L.G., medical director Klodzinski A.A., clinical mentors deputy director for medical work Zinchenko A.V., hematologist of the 1st category Bruner O.V., resident physician of the 1st year residents Lysenko A.O. (round-the-clock inpatient facility), resident physician of the 2nd year residents Kahanova M.A. (day patient facility), resident physician of the 2nd year residents Antonova (Romaniko) N.E.	7

	(outpatient appointment).	
2	Meeting of EEC members with residents of the 1st year residents in the specialty Adult Hematology: Lysenko A.O., Selivanov M.I.	2
3	Meeting of EEC members with the residents of the 2nd year residents in the specialty Adult Hematology Kakhanova M.A., Antonova N.E. (Romanico)	2
4	Meeting of EEC members with Zhanar K. Zhumakaeva, deputy head of therapeutic service of Oblast Clinical Hospital, Karaganda	1
5	EEC members attend a practical training session with the use of active, innovative learning technologies on the topic: Interdisciplinary patient: diagnosis and treatment of bleeding (intellectual quest game) for residents in 3 specialties: Gastroenterology adult, pediatric (discipline Adult Hematology, module Hepatology), Adult Hematology (discipline Consultative Hematology, module Hematology outpatient and polyclinic), Pulmonology adult, pediatric (discipline Intensive care in pulmonology, module Pulmonology in hospital, adult). Professors: Professor Laryushina E.M., Professor Turgunova L.G., Professor Ibrayeva L.K.	14
6	Meeting of EEC members with residents in 3 specialties: Gastroenterology adult, pediatric, 2nd year, Adult Hematology, 1st,2nd year, Pulmonology adult, pediatric, 2nd year.	18

On the final day of the visit to the Organization a meeting of EEC members on the results of the external evaluation was held. Final discussion of the results of the educational program external evaluation, study of documents, results of conversation, interviews, questionnaires was held. The EEC members started projecting the final report of the EEC. The results of the external evaluation were summarized. The experts individually filled in the "Profile of quality and criteria of the external evaluation of the educational program 7R01105 - ADULT HEMATOLOGY for compliance with the ECAQAA accreditation Standards". No remarks were made by the EEC members. Recommendations for the improvement of the educational program were discussed and the chairperson Kudabaeva H.I. conducted the final open voting on recommendations for the ECAQA Accreditation Council on the accreditation period.

Comfortable conditions were created for the work of the EEC, access to all necessary information and material resources was organized. The Commission notes the high level of corporate culture of the University, a high degree of openness of the staff in providing information to the members of the EEC. In general, it can be noted that in KMU NJSC favorable conditions have been created for the implementation of the educational process, the creative potential of teaching staff and adequate training of medical specialists, according to the requirements of modern society.

During the questionnaire survey of residents - 88.9% assessed the work of the External Expert Commission on Accreditation as positive, 9.5% - as satisfactory. The majority of respondents (85.7%) believe that it is necessary to carry out accreditation of the educational organisation or educational programmes.

According to 90.63% of teachers, the questionnaire survey conducted by ECA is useful for the development of recommendations on improvement of key areas of activity of the accredited educational organisation. 40.6% of the HETP noted that they were personally involved in the activities on preparation for the accreditation of EP as a member of the internal self-assessment commission, 9.4% were engaged in technical support before the ECA EEC meeting, 31.3% wrote sections of the self-assessment report, 50% - collected information for annexes to the self-assessment report. 6.3% of the HETP noted that they were not involved in the preparation of the university for accreditation and 3.1% found it difficult to answer. To the questionnaire "Would you personally like to become an expert on ECA accreditation and quality assurance of education and health care" -28,1% expressed a desire, 18,8% were not interested in this question, 18,75% had already participated in the work of

accreditation commissions of this accreditation centre and 34,4% of HETP had difficulties in answering it.

75% of the HETP believe that the work of the EEC on accreditation can fully cover all the issues related to the quality of implementation, as the visit of the commission is preceded by the stage of programme self-assessment and report writing. 53,1% of the HETP connect this with the fact that the commission examines all the main processes of programme implementation. 40,6 % believe that it depends on the fact that the programme of the commission's visit includes interviews and interviews with stakeholders that allow drawing conclusions about the quality of education, 37,5 % of respondents believe that the programme of the commission's visit is rich and covers all key aspects of education and 15,6 % of teachers are sure that everything depends only on the professionalism and competence of accreditation experts.

Among the activities of the EEC on accreditation, the most important and allowing to obtain evidence of compliance with accreditation standards, the HETP noted: interview with the management - 3.1%; interview with the head of the EP - 3.1%; interviews with students - 15.6%; interviews with employers' representatives - 6.3%; visits to internship sites - 9.4%; reviewing the self-assessment report of the programme - 3.1%; attendance of practical classes - 3.1%. 56.3% note that a single activity cannot solve, but only all of the above listed in the complex.

In conclusion of the visit program 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 based on the results of external evaluation of the educational program of the specialty residency 7R01105 - Adult Hematology.

Standard 1: MISSION AND FINAL RESULTS

Evidence of Compliance:

1.1 Mission Statement

The mission of the EP Adult Hematology is aimed at training a highly qualified doctor-hematologist, 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. The mission of the EP is developed in accordance with the institutional (general university) mission: "Development of society, improvement of health and quality of life of the population of Kazakhstan by achieving excellence in science, education and practice", which was approved on 22. October 2019 by the decision of the Senate of KMU NPJSC, Minutes No. 1 (<https://qmu.edu.kz/ru/contents/view/260>).

The EP is aimed at realization of the fundamental profile competences of the residents of the EP Adult Hematology, which provides training of a professional hematologist with versatile competences. The competences of the graduate of the residency are presented on the website and are available for all interested parties (<https://qmu.edu.kz/ru/contents/view/314>).

During the implementation of the program activities, namely, according to the results of interviews with the first head of the organization, vice-rectors for academic and scientific-clinical work, deans of schools, members of the Academic Committee of the Senate, as well as in interviews with residents, teachers and employers, compliance with the criteria of standard 1 was established. All participants of the educational process know the mission of the educational program, participated in the formation of proposals for mission formulation, with the mission communicated to potential residents through the website, social networks, newsletters to medical organizations. The strategic plan of the organization for the period of 5 years, including such directions as leadership in research, excellence in education and student life, assistance to the health care system in promotion and preservation of health, which confirms the implementation of the accreditation standard and demonstrates the goals, objectives and prospects of the organization, has been studied. Currently, the university has acquired the status of a research university, which allows the unification of the trinity for the training of qualified personnel - education, science and practice. *From interviews with residents*

it was established 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 the university departments, the experts noted the strengths of the university in relation to the accredited educational program, especially in the clinical training of residents, acquisition and practice of clinical skills. Thus, under the accredited program there is a large number of clinical bases providing primary, specialized care to the adult population with hematological diseases. At these bases residents have the opportunity to work in close cooperation with physicians of related specialties, in the intensive care unit, in the functional diagnostics and radiation diagnostics rooms, which are equipped with the most modern technology (computer tomography (CT), magnetic resonance tomography (MRT), ultrasound investigation, etc.). An important fact is the possibility of employment of resident doctors in these clinics on 0.5 rate, and later graduates remain to work at these bases on a permanent basis, which contributes to continuity and reflects the high training of personnel.

KMU NJSC has subdivisions directly related to the educational program 7R01105 - Adult Hematology, which can be noted as the best practice in education, since the EP on the specialty Adult Hematology is included in the register of UHEMS of the Ministry of Education and Science of the Republic of Kazakhstan and contributes to the achievement of the stated mission of the EP, the development of objectives and final results of resident training in the specialty is based on the state programs for the development of health care and education of the Republic of Kazakhstan, on the analysis of external and internal changes, analysis of information obtained by the Ministry of Education and Science of the Republic of Kazakhstan.

The results of the documentation study demonstrate that the mission of the organization and the mission of the educational program 7R01105 - ADULT HEMATOLOGY correspond to the requirements, and the educational process is built in accordance with the State Educational Standards and current laws and regulations (L&R) in postgraduate education and health care.

1.2 Personal professionalism and professional autonomy.

For verification of standard 1 a meeting was held with the Chairman of the Board of KMU NJSC Rector Turmukhambetova A.A., Vice-Rectors for scientific and clinical work Turgunov E.M., for academic work Toleubekov K.K. During the conversation experts asked the following questions: - How the HEI policy has changed with the change of the status of research institute, - Whether the opportunities of the organization to implement its tasks have expanded, - What image activities are carried out to improve the status of the HEI, - How the communication with employers and graduates is maintained. In the course of answers, representatives of the administration noted that certainly with the acquisition of the new status of the HEI the funding for research work has increased, the number of teaching staff participating in research projects has increased, as well as the interest of residents in conducting research, and the most active of them are included in the projects. The HEI maintains close relations with employers and graduates, they work on a regular basis to attract students to the HEI, periodic questionnaires and meetings are held to discuss pressing issues. To improve the image and prestige of the HEI cooperates with many medical universities and research centers of Kazakhstan, Russia, Belarus, Georgia, Tajikistan, Uzbekistan, as well as France (University of Poitiers), Italy (University of Milan), Japan (Shimane University), Great Britain (University of London St. George) and others. This interview provided evidence that the mission of the residency program and the mission of the university are fully consistent with each other.

During the survey of 63 residents (on the resource <https://webanketa.com/>), out of 22 questions, a number of them were devoted to the quality of the educational process and educational programme. It was found that 81% of residents will recommend to their acquaintances, friends, relatives to study in this educational organisation. And 82.5% of respondents believe that the heads of the educational programme and teachers are aware of the problems of students related to training. To the question "Do you think the university allows you to acquire the necessary knowledge and skills in your chosen speciality?", 96.8% of residents answered positively, 1.6% could not answer this question yet and

1.6% would like to believe so.

Interviewed 32 teachers (21 questions of the questionnaire) answered that 93.8% are satisfied with the organisation of work and workplace in this HEI, and 6.3% partially agree with this statement. The experts determined that there is a healthy microclimate in the HEI, as the manager is quite accessible to both residents and staff, responds promptly to requests, there is a rector's blog, where one can write and get a quick response. Moreover, the rector and management regularly hold meetings with students and faculty, where it is possible to ask questions directly. There are fixed hours of reception, corporate mail, all phones and schedule are indicated. 87.5% of teachers are satisfied with the microclimate of the organisation, and 12.5% are partially satisfied. In the opinion of 90.6% in the university a teacher has an opportunity to realise himself as a professional in his speciality. For information, a total of 32 respondents (total of 522 in the staff), with teaching experience up to 5 years - 6.3%, up to 10 years - 12.5%, more than 10 years - 81.3%.

1.3 Final learning outcomes

The EP Adult Hematology within the framework of the SCES and Qualification Characteristics takes into account the final results of the resident. The objectives, final learning outcomes of the EP implemented by the HEI are presented in the register of the UHEMS of the Ministry of Education and Science of the Republic of Kazakhstan (<http://esuvo.platonus.kz/#/user/rep/submissions/application/45627>) and are available for all interested parties.

Professionalism of residents is achieved due to the structure of the EP, forming the entire set of competencies necessary for the practice of hematology physicians. Thus, the final learning outcomes of the residency program are formulated in the EP and are available for review on the corporate website of KMU NJSC in the section "Resident", "Employer".

The experts have established a clear continuity between the end results of prior resident training (prerequisites) and residency training, and subsequent continuing professional development programs.

1.4 Participation in mission and outcome statements

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, educational program?", "What is the personal contribution of residents to the improvement of the educational program?". Residents of the specialty Adult Hematology answered these questions that they are members of collegial bodies, where they have the opportunity to express their opinions and put forward any ideas. Employers of this specialty also noted their active participation in discussions of the mission and educational program, CED. Many of the representatives of practical healthcare are also clinical mentors of residents, closely cooperate and interact with the staff of the department, participate in the discussion of the development of educational programs, made their proposals on this issue and participated in the discussion of the mission of the specialty. The experts obtained information through interviews and visits to clinical bases.

79.37% of the surveyed residents noted that programme managers and HETP involve students in the work of advisory bodies (Methodological Council, Academic Council, Educational Programmes Committee). However, 4.76% of respondents answered that they are not involved in the work of advisory bodies, and 11.1% do not know anything about it, 4.76% are in doubt. Thus, the majority of residents are involved in the formulation of the mission and end results.

The EEC's conclusions on criteria. Meet out of 17 standards (including 10 basicы, 7 improvement standards): fully-17.

Standard 1: implemented

Recommendations for improvement identified during the external visit: none.

Standard 2: EDUCATIONAL PROGRAM.

Evidence of Compliance:

2.1 Framework for a postgraduate medical education program

To implement the educational program for specialty 7R01105 - ADULT HEMATOLOGY the documents of the organization have teaching materials, where the purpose is defined, the integration of practical and theoretical components, independent work is taken into account. Compliance with the State Educational Standards and standard requirements is established. Attending the practical training on the topic "Interdisciplinary patient: diagnosis and treatment of bleeding" (duration of 3 hours), the experts received convincing data that the training is conducted according to the plan. Before the beginning of the class residents answer tests, receive feedback from the instructor, have an opportunity to improve skills in interdisciplinary interaction, differential diagnosis, diagnosis and emergency care. The University ensures compliance with ethical aspects in the implementation of the educational program. The experts studied the Ethics Code (The Minutes No. 4 of the meeting of the Board of Directors dated 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 showed that the scientific basis and all scientific achievements in the advising disciplines are taken into account, additions are made to the bibliography of teaching materials and syllabuses, and teachers apply them in classes.

The system of mentoring, which is defined by the "Regulations on Residency" (approved by the Decision of the Board of the Karaganda Medical University NJSC dated 23.08.2022, Minutes No.18).

In total, there are 4 clinical mentors in the accredited specialty, whose tasks are to provide clinical training of students, to ensure continuity between medical education and practical training "at the patient's bedside" in the conditions of real practice, which contributes to the improvement of professional competencies, communication skills and will prepare a specialist for independent work. When studying specialized disciplines at the clinical base, the resident is assigned to a department and manages a certain number of patients. When managing patients, the resident fills out medical documentation in the program of the integrated medical information system, uses the capabilities and resources of the clinical base.

The procedure of informing residents about their rights and obligations is reflected in the module/discipline syllabuses, posted on the Karaganda Medical University NPJSC's student portal for independent study by residents, as well as the head of the EP, the teacher informs residents about the EP, their rights and obligations, including the discipline policy, obligations on ethical issues.

This demonstrates compliance with Standard 2 in terms of adapting training to the residents' needs. The quality and academic integrity principles are described in the document "Academic Integrity Code", included in the content of "Academic Policy of Karaganda Medical University NJSC (approved by the Board on 27.08.2021, Minutes No. 1. updated on 14.07.2022, Minutes No. 9).

2.2 Scientific method

The EP " Adult Hematology" provides learning of the competence "Research (PC 5). Implementation of scientific bases and methodology of medical research in EP is carried out on the basis of the Law of RK "On Science", "Development program of non-profit joint-stock company Karaganda Medical University for 2019 - 2023", one of the guidelines of which is "Leadership in research". Within the implementation of this direction the development, support and promotion program of the University researchers through involvement of students, interns, residents, young scientists up to 35 years old in the implementation of research programs and projects is developed and implemented.

In the first year of training, by the head of the EP / teacher, clinical mentor determine the directions and topics of scientific projects, which are reflected in the individual work plan of the resident and approved at the department meeting, and are successively implemented by residents in accordance with the research design. *In Hematology Center LLP residents participate in the performance of research work within the framework of work in the project office.* Provided residents with access to clinical bases of the department, gives the opportunity to work with case histories, in the laboratory, access to information resources, a rich library fund, allows to fully implement scientific

projects. For residents who wish to study management of scientific research in more depth, to continue further training in doctoral studies, the specialty EP provides training in the discipline on component of choice "Scientific project".

In speaking with residents, the experts revealed that they use scientific evidence in teaching and know the basics of evidence-based medicine. Teachers told that they provide training to residents to critically evaluate literature, articles and scientific data, and to apply scientific developments. This form of training is organized in the form of "journal club", which is held 1-2 times a month.

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

41.3% of the questioned residents noted that they personally published one scientific printed work (articles, theses, review), more than one - 39.7%; none - 3.2%; plan to publish in the near future - 11.1%; no answer 3.2%; I just entered the training programme - 1.6%.

2.3 Structure, content and duration of the residency program

The content, scope and sequence of modules/disciplines of the residency educational program, implemented by Karaganda Medical University NPJSC, correspond to the State Educational Standards. In the RUP, EP the logical sequence of mastering modules/disciplines that ensure the formation of competencies is shown. The basis for achieving the objectives of training in the specialty is the acquisition by residents of the necessary knowledge and key competencies in the core disciplines of the main component and elective component. Clinical work of residents during training is conducted under the guidance of clinical mentors, teachers. While forming the EP Adult Hematology the contribution of each discipline to the formation of competencies at a certain level (course) is taken into account, i.e. the responsibility of both core disciplines and elective disciplines for the formation of competent graduates.

The content of the working programs and the catalog of elective disciplines reflected the needs of the healthcare system, including in 2022-2024 the discipline "Obstetric Hematology" was withdrawn from the Catalogue of elective disciplines, because given the relevance of hematological pathology in women of fertile age, especially pregnant and maternity women, the issues of obstetric hematology were introduced in the discipline of the mandatory component "Outpatient Hematology / Consultative Hematology"; in connection with the approval of the Annex to the order of November 5, 2021 "On amendments to the order of the Minister of Health of the Republic of Kazakhstan from November 30, 2020 № KP DSM-218/2020 On approval of the list of specialties and specializations subject to certification of specialists in the field of health care" and the introduction of certification course for doctors-hematologists "Transfusiology", changes were made in the module "Hematology in hospital". as well as the specifics of research and development in and scientific achievements of teachers.

Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes, in which 100% are fully satisfied.

The department's clinical bases for training residents in the specialty Adult Hematology are the Hematology Center LLP, which provides medical services to patients with blood diseases in the round-the-clock inpatient facility, day patient facility, outpatient appointment, and the Professional Health Clinic of Karaganda Medical University NPJSC. In the round-the-clock hospital of Hematology Center LLP, for 28 beds, and in the day patient facility (16 beds) the adult population are provided with emergency and planned medical care for patients with various hematological diseases. Hematology Center LLP provides consultative hematological care for the population of Karaganda and Zhezkazgan regions.

To the question of the survey "Is there enough time for practical training (patient supervision, etc.)", 90.5% of residents answered with full agreement, 4.8% partially agreed, 4.8% did not answer.

According to the results of the questionnaire, 92.1% responded that after the completion of classes the instructor constantly gives them feedback (listening to your opinion, conducting mini questionnaires, working on mistakes), 7.94% believe that sometimes.

95.2% of residents were fully satisfied with the content of the education programme (list of disciplines): partially - 3.2%; 1.6% were in doubt. At the same time, to the question "Are residents' representatives involved in the development of educational programmes?", the experts received the following answer: "Yes, constantly" 79.4%, "No, they are not involved" 4.8%; "I don't know anything about it" 11.1%. Resident representatives are part of collegiate bodies such as the EPC, Residency School Council, and Senate, where they have the opportunity to discuss the EP. In addition, resident representatives are present at department meetings when the EP is being approved and discussed. And also residents mainly made proposals on the topics of speciality electives.

92.1 per cent of the surveyed residents are fully satisfied with the schedule of training sessions.

2.4 Learning organization and the interrelationship between postgraduate medical education and health care delivery

The educational management process as reflected in the self-assessment report (Standard 2) and general management approaches were confirmed by visiting the Hematology Center LLP, Regional Clinical Hospital and talking to the manager and staff. The experts were familiarized with the work of the units, including the Hematology Center, the Medical University Clinic (hematologist's office), and the Regional Clinical Hospital. Meeting at the clinical base of the Hematology Center LLP in Karaganda with the head of the EP Professor Turgunova L.G., medical director Klodzinski A.A., clinical mentors deputy director for medical work Zinchenko A.V., hematologist 1 category doctor Bruner O.V., resident physician of the 1st course Lysenko A.O. (the round-the-clock hospital), resident physician of the 2nd course Kakhanova M.A. (day patient facility), resident physician of the 2nd course Antonova (Romaniko) N.E. (at outpatient appointments), a total of 7 meetings were held and during the cross interview it was established that the EP provides integration of the learned theoretical program material with the practical application of the acquired knowledge.

When attending a practical training session with the application of active, innovative learning technologies on the topic: Interdisciplinary patient: diagnosis and treatment of bleeding" (intellectual quest game) for residents in 3 specialties: Gastroenterology adult, pediatric (discipline Adult Hepatology, module Hepatology), Hematology adult (discipline Consultative Hematology, module Hematology outpatient and polyclinic), Pulmonology adult, pediatric (discipline Intensive care in pulmonology, module Pulmonology in hospital, adult). Teachers: Professor Laryushina E.M., Professor Turgunova L.G., Professor Ibrayeva L.K. and conversation with residents, experts saw that the organization promotes the development of practical competencies of residents, including on simulation equipment. At the same time, residents deepen their theoretical knowledge, develop communication skills.

Resident training in the specialty 7R01105 - ADULT HEMATOLOGY is intended to meet the needs of practical healthcare. Therefore, this organization is a profile in the field of hematology, and provides a lot of opportunities and conditions for qualified training of specialists in hematology. Thus, when talking to the management of the organization experts and teachers confirmed the information that residents are trained directly in the clinical departments: Hematology Center, Medical University Clinic (hematologist's office), Regional Clinical Hospital. Residents of this specialty can supervise patients with such diseases as diseases of blood and hematopoietic tissue.

This is facilitated by the mentoring that takes place in the organization.

Of the questioned residents, 95.2% noted satisfaction with the activities of mentors, supervisors and academic supervisors, 6.35% were partially satisfied, 1.6% were partially dissatisfied, 4.8% of respondents did not answer this question.

Of all respondents, 92.6 per cent said that teachers regularly use active and interactive teaching methods in their classes, 4.8 per cent expressed the opinion that such teaching methods are used only sometimes, "rarely" 1.6 per cent, "don't know what it is" - 1.59 per cent.

The EEC conclusions on criteria. Meet out of 30 standards (including 22 basics, 8 improvement standards): fully met -30.

Standard 2: implemented

Recommendations for improvement identified during the external visit: none.

Standard 3: RESIDENTS EVALUATION.

Evidence of Compliance:

3.1 Evaluation Methods

The analysis of control and measurement tools (tests, clinical tasks/cases) showed that the university has implemented an appropriate assessment policy that allows for a comprehensive evaluation of the educational achievements of residents. During the interview the residents told about the forms of evaluation, for example, in points on a 100-point scale, corresponding to the internationally accepted letter system with numerical equivalent (positive grades, in descending order, from "A" to "D", and "unsatisfactory" - "FX", "F") and grades on the traditional system and that they are satisfied with everything. And also get regular feedback from the faculty members. The system of appealing the results of assessment is reflected in the document "Rules of rating system of assessment of students' performance" (section 5-7 of the Karaganda Medical University NJSC Academic Policy), and for the period of work of the educational organization there were no precedents of appeal.

Thus, to verify the data of Standard 3, the experts asked questions to the head of postgraduate education department Turgunova L.G. and checked the documents and methods of resident assessment. The organization has EP, catalog of elective disciplines, silabuses, tests, situational tasks, which are compiled by the faculty of the department and approved at the meeting of the department by the head of the Internal Medicine Department Laryushina E.M., September 05,2020. Control and measurement tools reviewed by the Director of Hematology Center LLP, doctor hematologist of the highest category Balandinskaya I.G.

E.M. Laryushina, Head of the Department, replied that additions and updates to the Facility Instrumentation are planned to made annually.

During the visit to the organization and during the interview with the staff member Professor Turgunova L.G., the Commission verified that there is a system of documentation that is transparent and accessible to all faculty and staff, and includes such documents as annual operational plans, annual reports, regulations of units, contracts with teachers and residents, and teaching and learning documentation (work program, work study plans, syllabuses, journals), assessment tools (checklists, sheets), certificates, certificates and attestations. A review of the website showed that its pages contain documents required by residents and have information that is regularly updated. This information was obtained during the interview with Prof. Turgunova L.G.

3.2 Relationship between evaluation and learning

During interviews with 4 teachers regarding assessment methods, the experts received convincing information that the automated information system (AIS) Platonus provides a personal account of the student, where his/her data, IEP, history of educational achievements are placed. The residents also shared their opinion about the timeliness of providing tests, counseling before exams, clarity of the whole assessment procedure and its fairness. For example, the residents told that in order to achieve the final learning outcomes, interrelationships between competencies, teaching methods and assessment are established (Table 1). The competency-based, practice-oriented approach allows to ensure the focus of training and assessment on the achievement of specific results and provides an opportunity to assess the mastered competencies, as well as assists learners to better understand what is expected of them, and employers - what this or that qualification means. At the University, the knowledge assessment of residents in the specialty Adult Hematology is considered as a process of collecting information to make judgments about the degree and type of the resident's successful progress towards achieving the requirements for his future activity as a doctor, as set out in the standard.

Resident's current control provides for daily systematic feedback by the faculty and clinical supervisor upon completion of the resident's task "at the patient's bedside". The evaluation sheets used to assess the various resident activities include grading criteria and the weighting of each task in the grade, allowing the trainee to have a clear understanding of the grade. The format of the clinical examination provides in addition to observation, the second important part - discussion, where the resident discusses what was done particularly well, suggestions and further activities to improve the resident's skills and abilities. Application of current control different forms, as well as a comprehensive two-stage approach to evaluation at the end of the discipline/module, interim certification, independent examination of residents with the participation of representatives of practical health care, allow to assess the achievement of learning outcomes in the specialty Adult Hematology. Upon the resident's development of practical skills provided by the program, a mark in the portfolio about their achievement is made by the teacher, clinical mentor. At the end of each academic year the resident forms a report on the implementation of IPR, which is discussed together with the clinical mentor, head of the OP and considered at the meeting of the department. The automated information system (AIS) Platonus provides a personal account of the trainee, where his/her data, IEP, history of educational achievements are placed.

During the organizational visit, the management was questioned: "Are external examiners involved in order to improve the fairness, quality and transparency of the evaluation process? The answer was that representatives of practical health care are involved.

The experts inspected the resources for organizing the assessment of knowledge and practical skills, namely the practical skills center, the registrar's office, and the training center.

During the conversation with the representative of employers - deputy head of the therapeutic service of Karaganda Regional Clinical Hospital Zhanar K. Zhumakaeva, it was noted the compliance of graduates' training with the modern development of medical practice and science. Evaluation methods for residents in the specialty Adult Hematology are developed and discussed with external stakeholders. Examination materials are discussed at the department meeting and are peer-reviewed by external reviewers - representatives of practical healthcare: freelance hematologist Zinchenko A.V. and the director of Hematology Center LLP Balandinskaya I.G.

Control and measurement tools are updated annually by 30%. The responsible teacher for the discipline/ coordinator of the module provides loading of the examination material into AIS "Platonus" or AS "Session" one week before the final control.

The Registrar's office unit controls the compliance with the deadlines for the submission of examination material by the departments.

To ensure transparency and objectivity of the final control, the registrar's office forms a pool of proctors from among the faculty members who have no conflict of interest during the period of the final control. The registrar's office unit conducts briefing of proctors before the beginning of exams and creates a schedule of proctors on duty.

The EEC's conclusions on criteria: Meet out of 11 standards (including 7 basics, 4 improvement standards): fully -9, partially -2.

Standard 3: implemented

Recommendations for improvement identified during the external visit:

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

Standard 4: RESIDENTS

Evidence of Compliance:

4.1 Selection and Admission Policy

Admission of students to the residency in Karaganda Medical University NJSC is carried out on the basis of the section "Rules of admission, students' progress, certification" by the Academic Policy

of Karaganda Medical University NPJSC, which is reviewed annually. Persons who have completed the EP of higher education and internship are admitted to the residency program. Persons are admitted to the EP in the residency program on their applications based on the results of the entrance exam on a competitive basis. For the period of conducting entrance examinations to the residency, the examination and appeal commissions for specialties are created.

About the policy on resident admission told the dean of the residency school and additional education Tashkenbaeva V.B. Approaches to the resident admission are built on the requirements of the country and internal regulations, namely, in accordance with the Model Rules for training in educational organizations implementing the EP of higher and postgraduate education (Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 of October 31, 2018) and the Rules of government procurement, admission to training and admission of medical staff in residency (Order of the Ministry of Health of the Republic of Kazakhstan No. KR DSM-270/2020 dated December 15, 2020).

Karaganda Medical University NJSC regularly reviews its residency admission policies: for the 2019-2020 academic year (approved by Karaganda Medical University NJSC Senate on October 22, 2019, Minutes No. 1), for the 2021-2022 academic year (approved by the Senate on May 21, 2021, Minutes No. 10), and for the 2022-2023 academic year (approved by the Board of Directors on May 27, 2022, Minutes No. 37) (<https://www.qmu.edu.kz/media/qmudoc/OPResRus.pdf>)

Thus, the experts have validated the data according to Standard 4. In general, all criteria are met. The experts reviewed the documentation on residents' admission, including the "Academic Policy", orders on admission to the residency.

For the period of 2016-2022, 15 residents were admitted to the educational program on the specialty 7R01105 - Adult Hematology, 3 people successfully completed their training. At the same time, 4 people received "excellent" and 3 "good" according to the results of the final examination. Thus, the experts have validated the data according to standard 4. In general, all criteria are met. The experts familiarized themselves with the documentation on the admission of residents, including the Students Admission Policy of Karaganda Medical University NPJSC. Many of the documents are well drafted.

Karaganda Medical University NJSC has a system of residents' academic advising for the implementation of student-centered learning.

For this purpose, the resident is assigned a responsible teacher (supervisor), who provides the functions of an academic mentor.

To ensure effective information support for the processes of educational activity management, the university uses the automated information system "Platonus", personal office of a student, academic progress log, which allow monitoring the resident's academic progress. Every month the responsible teachers on the discipline, the head of the educational program conducts attestation of students with information about absences, poorly performing students. In case of failure of the resident, the head of the department, the head of the EP informs the dean's office of the Residency and Professional Development School. Matters of attestation are discussed monthly at the meetings of the department, the council of the Residency and Professional Development School..

Residents are included in deliberative bodies such as the Residency and Professional Development School Council and the Senate.

4.2 Number of residents

The number of accepted residents is regulated by the public contracts of the The Ministry of Healthcare of the Republic of Kazakhstan, contracts of local executive board for training the medical staff and opportunities for their clinical training, the maximum allowable load on teaching staff, clinical tutors (standard 5 "Teachers"), material and technical resources of the university and clinical bases (standard 6 "Educational resources", item 6.2. Clinical bases).

Every year the university sends to the authorized body a proposal for government educational procurement for the training of medical personnel in residency according to the appropriate form. The number of accepted residents is constantly coordinated with relevant stakeholders taking into account

the need for medical personnel in hematology. Regular revision shall be done taking into account the need of the industry and the labor market situation. The procedure for determining the number of accepted residents is regulated by the State educational contract of the MH RK, at the expense of medical organizations and local executive board (LEB).

Overall, a total of 15 residents have been admitted in the specialty 7R01105 - Adult Hematology since 2015.

4.3 Support and counseling for residents

Support and counseling in the residency on the EP "Adult Hematology" is carried out with the direct participation of faculty and clinical mentors of the clinical base, where the training of residents is carried out. Consulting on all issues of the educational process organization on the mastering of compulsory and elective disciplines is carried out by the faculty, head of the EP, head of the department, Residency and Professional Development School. The staff of the Residency and Professional Development School together with the staff of the department provide information support to all students. Information about residency training is also posted on the University's official website (in the tab Education→Academic Entrance Examination for Postgraduate Education (Master's, Residency, Doctorate) →Residency, Karaganda Medical University NJSC Student Portal.

In order to ensure and maintain an active dialog with students in the managers' work schedule at all levels, time for meetings is determined. On the official website of Karaganda Medical University NJSC there is a virtual reception of the rector, which allows students to submit their proposals for optimization of management processes. Also, students can send their proposals to deans, vice-rectors and other heads of structural units via corporate e-mail.

To ensure effective information support of educational activity management processes of the university, the automated information system (personal meetings, corporate mail, telegram-bot, where deans, deputy deans of schools, employees of structural divisions participate), "PLATONUS" is used, which informs students about the educational process, as well as provides the possibility of electronic interaction with the Unified higher education management system (UHEMS). Currently, the KMU NJSC has a Student Service Center (hereinafter - SSC), which provides services to students on the principle of "one window". The principle of work is in the quality and availability of services, inadmissibility of bureaucracy and red tape in the provision of services. Anti-corruption, accountability and transparency in the sphere of services. AIS provides optimization of work of all participants of the process and electronic document flow.

KMU NJSC has a system of residents' academic advising for the implementation of student-centered learning.

For this purpose, the resident is assigned a responsible teacher (supervisor), who provides the academic mentor functions (see Standard 2.1.9).

To ensure effective information support of the educational activity management processes of the university, the automated information system "Platonus", the student's personal profile, and the academic progress log are used, which allow monitoring of the resident's academic progress. Every month the responsible teachers of the discipline, the head of the EP holds monthly attestation of students with information about absences, poorly performing students. In case of failure of the resident, the head of the department, the head of the EP informs the dean's office of Residency and Professional Development School. Matters of attestation are discussed monthly at the meetings of the department, the council of the Residency and Professional Development School.

4.4 Residents' representation

Residents have a real opportunity to participate in the organization of the specialty curriculum during the direct discussion of the EP, at the level of development of the individual curriculum and selection of elective disciplines. Resident representatives are included in the members of the Residency and Professional Development School Council and Senate.

Resident physicians are regularly invited to the meetings of advisory bodies and participate in the discussion of issues in the context of the specialty. Proposals and recommendations of trainees are

necessarily taken into account by members of the advisory bodies and are taken into account in the formation of the final decision of the meeting.

4.5 Labor conditions

According to the Decree of the Government of the Republic of Kazakhstan № 799 dated October 10, 2022. "Rules of appointment, payment and amounts of state scholarships", Regulations on the procedure for awarding scholarships established by the President of the Republic of Kazakhstan, residents studying on the basis of an educational grant are paid state scholarships in accordance with the procedure established by the Government of the Republic of Kazakhstan.

Based on the Order of the Ministry of Healthcare of the Republic of Kazakhstan dated December 21, 2020 No. KR DSM-305/2020 "On approval of the nomenclature of specialties and specializations in the field of healthcare, nomenclature and qualification characteristics of positions of healthcare workers", the residency students have the possibility to work additionally in the position of a resident physician under the guidance of a clinical mentor 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 corresponding internship.

In accordance with the current agreements with clinical sites (standard 6.2) "The Clinic undertakes to ensure the admission of trainees to patients and to all structural units of the Clinic in accordance with the needs of the educational process, except in cases where the admission of trainees to the therapeutic process is not allowed by the current legislation and/or patient requirements".

In providing diagnostic and therapeutic activities carried out at the clinical bases, residents work under the guidance of a clinical preceptor. The main role of the preceptor is to teach the practical activities of residents and to achieve competencies necessary for independent medical activity. Under the guidance of mentors, residents provide inpatient and outpatient care to hematology patients in accordance with clinical protocols for diagnosis and treatment, perform diagnostic manipulations, transfusions, participate in the Patient School, and are on duty at the Hematology Center LLP at least four times a month.

Residents have the right to take an academic leave for illness, lasting from 6 to 12 months under the Central Medical Advisory Commission's conclusion at the hospital or outpatient-polyclinic organization (hereinafter - CMAC) according to the form № 026/u, approved by the order of the Ministry of Healthcare of the Republic of Kazakhstan, in case of call-up for military service on the basis of a summons to military service in the form according to the Rules of military registration of persons liable for military duty and conscripts; on childbirth and care of a child up to the age of three years based on the birth certificate. For academic leave, the student submits to the Digitalization Department an application to the Chairman of the Board - Rector, the original and a copy of the document, which is the basis for granting academic leave (the conclusion of the CMAC, or a summons to military service, or birth certificate).

After returning from an academic leave, the student continues his/her education in the same educational program, from the same course (and academic period), from which he/she has taken this leave.

All hematology residents are employed at the clinical base on a 0.5 rate as resident physicians. Planning of duty in hospitals by residents is carried out in coordination with the heads of medical organizations, taking into account the needs in the provision of medical care to patients. In case of industrial necessity, the administration of medical organizations provides staffing by involving residents in additional part-time work in case of their consent.

The EEC's conclusions on criteria. Meet out of 30 standards (including 18 basics, 12 improvement standards): completely - 30.

Standard 4: implemented

Recommendations for improvement identified during the external visit: none

Standard 5: FACULTY MEMBER

Evidence of Compliance:

5.1 Recruitment and selection policies

2 full-time lecturers teaching "Adult Hematology", there are no part-time lecturers in total. The experts familiarized themselves with the rules of admission and selection of employees, the Charter of KMU NPJSC, internal regulatory documents, as well as the personnel policy of the University, which reflects 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. The search and selection of highly qualified specialists is based on submitted resumes and interviews. The decision to hire employees is made collegially, by a commission to conduct interviews with candidates for employment. The commission considers the candidate's compliance with the stated requirements, and the commission's decision is formalized in a protocol.

In order to verify the data of Standard 5, external experts obtained the opinion of teachers on personnel policy. A conversation with the Head of the EP Professor of the Internal Medicine Department, doctor-hematologist of the highest category Turgunova L.G. showed that: "Realization of EP " Adult Hematology " is carried out by the teaching staff of the Internal Medicine Department. General characteristics of the teaching staff involved in the implementation of the EP is presented in Appendix 5 to the self-assessment report and will not be listed in this document. The share of full-time faculty is 100%, the percentage of tenure - 100%, the provision of human resources, including faculty, clinical mentors and teaching staff - 100%.

The experts noted that teachers are certified specialists in the field of the teaching disciplines with more than 20 years of work experience and carry out clinical activities at the clinical bases of the University and University Clinics. The experts learned about effective approaches to recruiting clinical site staff for teaching, strategies and tactics for resident recruitment, information support of the educational program, as well as human resource management and development.

During the questioning of teachers it was found that the majority (93.8%) are fully satisfied with the organisation of work and workplace in the university, but 6.3% are partially satisfied. In this educational organisation teachers have the opportunity to do scientific work and publish the results of research and development - 90.6% fully agree, 9.4% partially agree. They are satisfied with the work of HR (personnel) service - 87,5% fully agree, 9,4% partially agree. Satisfied with the salary - 53.1% strongly agree, 12.5% disagree, 25% - more "Yes" than "No", 9.4% - more "No" than "Yes".

5.2 Faculty Commitment and Development

In order to verify the data of standard 5, during the meeting with the head of the HR department and during the interviews with faculty, the experts obtained an opinion on the approaches to the development of pedagogical competence of teachers, motivation to work with residents, the implementation of mentoring, which includes the improvement of clinical and pedagogical qualifications of teaching staff and clinical mentors at least once every 5 years, respectively. Upon completion of advanced training, the supporting documents are submitted to the department, HR department, and uploaded to the AIS "Platonus".

The experts received answers about the professional development program for teachers, which is held annually and 2 teachers involved in the implementation of the educational program were trained for 2021. These activities are financed by the university. The expert checked the certificates of the teachers. The experts found out that the teachers initiate research and development topics for residents, stimulate the need for additional training and independent work with literature, medical documentation.

In HEI there is an opportunity for career growth and development of teacher's competences - 9.63% of questioned teachers fully agree with this statement, and 9.38% partially agree. 87.5% of the questioned were trained at professional development courses, 9.38% - more than 5 years ago, 3.13% - do not remember when it was.

The university implements social support programmes for teachers - 78.13% answered that "yes, there are such programmes", 3.13% "I have already used it", 3.13% of respondents answered that there are no such programmes, and 15.63% of respondents do not know about it.

At the same time, 95.24% of the surveyed residents are satisfied with the activities of mentors, supervisors and scientific supervisors, 4.8% are partially satisfied with them.

The EEC's conclusions on criteria. Meet out of 7 standards (including 5 basics, 2 improvement standard): fully -7.

Standard 5: implemented

Recommendations for improvement identified during the external visit: none

Standard 6: EDUCATIONAL RESOURCES

Evidence of Compliance:

6.1 Facilities and equipment

The total area of the main academic buildings of the University is 29160.6 square meters, the area of dormitories is 30162.9 square meters. On the territory of the Medical University Clinic, occupying an area of 2122 square meters, the main and auxiliary subdivisions, there are also educational rooms. Lecture halls and lecture rooms are equipped with multimedia support, with Internet access and with modern computers.

The total area of the library is 1526 square meters, the book storage area is 941.6 square meters. The number of seats in the reading rooms is 443 seats. The library includes: the department of acquisition and bibliography and the department of service of scientific and educational literature (consists of the scientific literature subscription, two subscriptions of educational literature, reading room and the hall of periodicals, the hall of electronic resources, interactive hall). The computer park of the library consists of 113 computers, of which 88 thin clients (TC), 21 personal computers (PC) are located in the subdivisions of the library, 4 PCs and 63 TCs - in the hall of electronic resources and 25 TCs - in the interactive hall, the whole park of computers is connected to the INTERNET network. Wi-Fi zone is spread all over the territory of the library. There are 2 scanners for users in the Electronic Resources Hall. The interactive hall is equipped with a short-throw projector. For the students there is a Scientific Employee Hall equipped with 15 computers connected to the Internet, which allows to have access to all information resources of the university. Service of users in electronic halls is provided from Monday to Friday from 09-00 to 20-00, on Saturday from 09.00 to 18-00. There are 2 information booths installed in the library, with the help of which users can make an electronic order of the necessary literature through the electronic catalog on the basis of the module "WEB-IRBIS".

In addition, residents use the resources of the clinical base, IT facilities, internet, equipment, laboratories in their training and internship, which the experts were convinced of during their visit to the clinical base.

The questionnaire survey of teachers showed that 93.8% of respondents fully agree that the university has enough equipment and resources for training residents in accredited programmes, 6.3% - partially agree. 87.5% are fully satisfied with the organisation of the educational process, 12.5% are partially satisfied.

93.8% of teachers are fully satisfied with the organisation of work and workplace in the HEI, 6.3% - partially satisfied.

6.2 Clinical facilities

Review of resources showed that they correspond to the goals and objectives of educational activities, so visited clinical bases, medical institutions of urban and regional importance: Hematology Center LLP, Clinic of Professional Health KMU NPJSC, Regional Clinical Hospital SME (since 01.02.23 renamed Regional Multidisciplinary Hospital) (Annex 7B). of Hematology Center LLP joint work with the Medical University is regulated by the concluded agreements on joint activities within

the framework of the educational process. The number of provided training rooms of the Internal Medicine Department - 7, conference hall-2. Usable space is 100% and the educational organization staff provides collegial and ethical relationships with nursing staff, clinical site leadership to achieve resident outcomes. Sufficient number of subject patients, modern equipment and demonstrates accessibility to trainees is provided, and the staff, which performs both the roles of teachers and supervisors (mentors), ensures quality education with observance of ethics and deontology. Before starting the relevant discipline of the educational program, the resident receives a syllabus from the instructor and knows what skills he/she should acquire and develop during the training period.

During visits to clinical bases, the experts inspected the resources, their conformity to the training programs, accessibility for faculty and residents, how modern the equipment is and how it meets the needs of trainees and practical health care. The experts obtained evidence of compliance with Standard 6, as well as validation of the self-assessment report information.

In order to validate the fulfillment of the self-assessment report data and to obtain evidence about the quality of the programs, interviews with specialty residents were conducted. The experts asked questions about satisfaction with training, sufficiency of time to supervise patients, work in DamuMed with medical documentation, satisfaction with teaching methods and qualification of teachers, social and moral support for residents in need, participation in "Journal Clubs", accessibility to the resource of international databases of professional literature. In general, residents are satisfied with the teaching methods, evaluation methods, and purposefully entered this organization, as they believe that the educational organization has good resources, image and international relations, at the same time residents would like more autonomy in the management of patients, conducting international events.

The residents showed their commitment to the education organization, were active in answering the questions of external experts, demonstrated their judgment on the organization of training, assessment of their skills, advisory support, opportunities to participate in research and development, funding, demonstrated command of English when answering the questions of the foreign expert Sergey A. Ryzhkin. The experts studied residents' documents (portfolios, results of residents' assessment-checklists, results of residents' questionnaires).

The results of the residents' questionnaire showed that 87.3% of respondents are satisfied with the recreation and catering conditions for students (common room) on the territory during breaks between classes, 9.52% - partially satisfied.

6.3 Information technology

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

Residents and teaching staff have access to the following educational electronic resources: 1) Cochrane Library - database on evidence-based medicine, consists of clinical protocols, trials and studies. IP-addresses of the university are used for access. Remote access is provided by a single institutional login and password; 2) CBS eBooks - database of electronic books by CBS Publishers & Distributors Pvt. Ltd. Ltd; 3) EBSCO - provides active full-text closed access to more than 600 journals. Subscription includes the following databases: EBSCOhost Research Databases (CINAHL Complete), DynaMed, Scientific & Medical ART Imagebase, DynaMed Plus, EBSCO Discovery Service. User access is provided by a single institutional login and password. 4) BMJ Best Practice is a clinical decision support tool used in the field that provides guidance on over 1,000 clinical conditions. Access for users is provided by access code; 5) BMJ Learning is the world's leading resource for online training of professional medical workers; 6) Electronic library of medical school "Student's Consultant", includes 2601 electronic educational and supplementary editions on various disciplines, 167 editions in Kazakh language, 367 medical periodicals. Access is provided by activation code; 7) Electronic medical library "Doctor's Consultant". It provides an opportunity to work with various reference books, national guidelines for practicing physicians, clinical recommendations and monographs. "Physician's Consultant" includes 2429 publications, 1313 training modules. Access is

provided by activation code; 8) Electronic Library System "Lan" includes 1396 educational publications on medicine, including those for postgraduate education. Access is provided by registration in the EBS by IP-addresses of the university. Remote access is provided by attaching to the University; 9) Electronic library "Epigraph" is a collection of 1000 titles of textbooks and teaching aids on medicine and related sciences for higher educational institutions of the Republic of Kazakhstan; 10) Portal of multimedia textbooks "Epigraph" - provides access to 50 multimedia textbooks in the state, Russian and English languages; 11) Digital library "Aknurpress" - contains more than 1000 titles of textbooks and teaching aids for higher educational institutions of the Republic of Kazakhstan, which are available in the following languages.

Information is provided to the users by means of mailing to the corporate Outlook mailbox, as well as posting information on the KMU website, Portal and Student Portal, Instagram page and Telegram messenger. On the KMU website there is a section "Library" in Kazakh, English and Russian languages. Also the feedback of the library with readers is carried out on the Student Portal and Telegram bot, where students have the opportunity to ask questions, view the calendar of events, documents, instructions and videos on working with electronic resources and so on. Every year the library conducts monitoring (survey) of all categories of readers on the quality of use of reference and search apparatus, as well as on the issues of improving and expanding the base of information resources of the library KMU.

Also, within the framework of the national subscription the library provides access to the platforms: 1) Web of Science (Clarivate); 2) Scopus Elsevier; 3) Science Direct - Information platform of Elsevier publishing house.

In order to effectively use information and communication technologies within the educational process in the framework of the educational process in the specialty "Adult Hematology" during the practical classes during the pandemic period, the Microsoft Teams platform, Webex were used. In order to conduct independent work of residents the Moodle platform is used.

For effective use of new information technologies and access to patient data and health information systems within the framework of both educational and therapeutic process, residents of the specialty Adult Hematology use the medical information system KMU for patient management, making medical and diary entries, forming sheets of medical appointments, making diagnoses, drawing up epicrisis and prescribing laboratory-instrumental methods of research; for attaching discharge epicrisis, clauses of medical records, and for the appointment of laboratory-Integrated healthcare information system (IHIS).

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

90.48% of residents responded that they fully agree with the provision of students with methodological and didactic materials, additional literature to prepare for classes. 87.3% of residents note that they are fully satisfied with the system of independent learning of students, 12.7% - partially satisfied.

6.4 The clinical teams

In the course of interviews and visits to the clinical site, the experts were convinced that hematology residents gain experience in teamwork in the process of training under the guidance of a clinical mentor, who instills the skills of proper communication with the patient and his relatives. Residents seek advice from more experienced residents in the department and work closely with other medical specialists and nursing and medical staff. First-year residents are assigned to senior residents, which helps improve team relationships, and final-year residents develop effective management skills.

Interdisciplinary master classes, Olympiads are held with the involvement of several departments, in which residents take an active part, as well as have the opportunity to make presentations and learn. While attending the practical training, the experts were present at the interdisciplinary workshop - game-quest, which was attended by residents of several specialties, who were introduced to teamwork, solving joint problems. In addition, residents have the opportunity to

interact with physicians of related specialties in their daily work.

Clinical preceptors at the interview informed that residents take an active part in conducting consiliums at clinical bases, make reports on severe patients, execute medical records of the consilium in IHIS. At morning conferences, residents make presentations on night duty, during which they justify their actions during duty in relation to patients, a discussion of complex patients is held. While performing therapeutic work, residents acquire skills in supervising nursing staff who work with them in the department and outpatient clinic.

To the question "Is there enough time for practical training (patient supervision, clinical rounds, clinical discussions) 90.48% of residents answered - completely agree, 9.5% - partially agree.

87.3% of residents believe that the organisation of clinical (practical) training is excellent, 11.1% - good, 1.6% - satisfactory.

Trainees have sufficient number of patients to supervise or assist in operations - 90.5% of residents strongly agree, 4.8% partially agree, 4.8% did not answer this question.

6.5 Medicine science research and achievements

Residents Kokhanova M.A. and Antonova N.E. are executors of research conducted at the Hematology Center LLP.

The head of the EP, teachers and staff of the Center provide consultative support in the performance of research work, preparation of theses and scientific articles by residents, motivate residents to participate in scientific congresses and student conferences with reports.

In 2018-2022, residents of the EP Adult Hematology published 10 publications, including 4- in Committee for Control of Education and Science publications, 3-Scopus, made 5 presentations at international and national conferences, 7 reports at the Republican Schools of Hematology, organized by the "Kazakhstan Professional Society of Oncohematologists, the Republican Association of Hematologists of Kazakhstan (Annex 12, 13). Residents who safely completed their training have the opportunity to continue their training in doctoral studies. Graduate of the residency in 2020. Mehtantseva I.V. continues her doctoral studies on the basis of KMU NPJSC.

Residents in the Adult Hematology specialty have the opportunity to perform Research Work (RW) during the resident's extracurricular activities in the Independent work of residents (IWR).

Interviews with 2 faculty members, including 2 full-time faculty members, revealed what successes were available, in educational management, dependent on the specific base (resident access to equipment, sufficient number of subject patients, time for medical records, independent work).

74.6% of residents confirmed that they are currently engaged in research work under the guidance of their teacher or mentor, 11.1% - are not engaged in research work, 11.1% have started planning the implementation of research work, 1.6% - are searching for the topic of research work, 1.6% of residents do not want to engage in research work. However, 41.3 per cent have published printed works (articles, theses, reviews) during their studies at the university, 39.7 per cent have more than one publication, 3.2 per cent have none, and 11.1 per cent plan to publish in the near future.

6.6 Expertise in the field of education

The procedure of educational expertise on the quality of planning, implementation and evaluation of EP is a systematic process and is carried out by the following structures: Department of Academic Affairs (approval of EP), Dean's Office of Internship and Residency (implementation of EP), Educational Program Committee (EPC) (planning, development and evaluation of EP), MPA (monitoring of EP), Quality Management System Department. The EPC includes teachers, representatives of professional associations, employers, representatives of students.

The expertise is conducted in the form of analyzing the needs in specialists, analyzing the methods of training residents, and the results allow drawing conclusions about the quality of

innovative changes in postgraduate education. For example, when attending an interactive class in the form of a quest game, the experts were convinced of high knowledge of residents, their desire to improve their skills, their commitment to their profession. The confirmation of the quality of EP is the feedback from residents, employers and graduates, who in the interview gave a positive assessment of training in the residency in the specialty Adult and Pediatric Pulmonology. All graduates of the residency are successfully employed and have positive characteristics as specialists.

In order to motivate faculty members to conduct research in the field of medical education, the availability of publications in this field is used as an indicator of the department's activity in the rating, which is also taken into account in differential payment, as reported in interviews by both representatives of the administration and faculty members.

The EP Adult Hematology is regularly evaluated by obtaining feedback from residents, faculty and employers, as well as conducting analysis of residents' educational achievements. Resident and residency alumni questionnaires are used as feedback for measures and corrective action plans to improve the EP. The sources of information are the results of students' progress in disciplines, results of questionnaires, reports of departments, schools, office-registrar, acts of external and internal inspections, Final state attestation (FSA) reports.

"Setting Peer Review Instruments and Goals for Medical/Health Education" initiated within the framework of Erasmus+ projects "Capacity Building for Higher Education (CBHE)" (2019-2022). In order to motivate faculty members 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. Prof. Turgunova L.G. has publications on the examination of the quality of OP, the role of mentoring in the training of residents, methodological recommendations, speeches on evaluating the effectiveness of teaching methods and evaluation.

According to the results of the questionnaire, 95.24% of respondents are fully satisfied with the organization of teaching, 4.76% are partially satisfied with it.

6.7 Training in other organizations

The development plan of the EP Adult Hematology provides for incoming and outgoing academic mobility of residents to partner universities, visiting professors, which is implemented according to the academic mobility plan. Academic mobility data are described in paragraph 2.1 of this docum.

Within the program of incoming academic mobility in Karaganda Medical University NJSC were trained in the discipline "Hematology in hospital" resident-hematologist of the 1st year of S.D. Asfendiyarov KazNMU Raihan T.S. (01.03.2023-14.03.2023) and 4 residents from I.I. Mechnikov Medical University. A letter of thanks from the Rector of the I.I. Mechnikov University was received, there are positive feedback from the residents (<https://szgmu.ru/rus/m/6754/>).

Within the framework of "Visiting Professor" program "Hemostasiology Course" was held for residents on 19-23.09.2022. The speaker of the course was Dr. Vavilova T.V., Professor, Almazov National Medical Research Centre (St. Petersburg, Russia). <https://www.instagram.com/p/CjAPY48sZmb/>

In the period 10-15.04.2023 "Hepatology Course" was held by Prof. Esmem Heschem, Professor of the University Clinic of Aachen (Germany). K.K. Esmembetov, Professor of the University Clinic of Aachen (Germany), where the residents of the specialty "Adult Hematology" participated as an interdisciplinary interaction.

The EEC's conclusions on the criteria. Meet out of 21 standards (including 10 basics, 11 improvement standards): fully - 21.

Standard 7: implemented

Recommendations for improvement identified during the external visit: none.

Standard 7: EVALUATION OF EDUCATIONAL PROGRAMS

Evidence of Compliance:

7.1 Monitoring and evaluation mechanisms

Assessment and monitoring of the EP is carried out in accordance with the Regulation on Academic Policy (approved by the Senate dated August 27, 2021), the Regulation on Educational Program Management (from September 09, 2020 pr. 14, amended from January 11, 2021 pr. 1). The monitoring system is a continuous multilevel process, which covers the assessment of all areas affecting the quality of the EP. The monitoring mechanism of the EP includes several stages: planning, data collection, analysis/conclusions, necessary improvements and subsequent monitoring of changes.

The decision on the management of the educational program is entrusted to the school boards, the quality of the EP is ensured by the participants of its implementation: the Dean of the School, the Head of the EP, module coordinators, those responsible for the discipline, heads of departments, teachers. Since 2020-2021 academic year, the Commission for ensuring the quality of the EP has been established, the main function of which is to monitor the implementation of the educational program, and assess the satisfaction of all stakeholders (Regulation on the EP Management).

Intradepartmental monitoring is conducted by the department staff according to the Department Plan. Every month at the meetings of the department, the school discusses 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. One of the forms to monitor the quality of the educational program is the intermediate and final independent attestation is carried out in the form of a comprehensive examination with the involvement of external examiners. The results of the independent examination of NCIE, discussed annually at the meeting of the department, the Council of SRPD, the Senate and determine the improvement of the EP.

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

The Division of Strategic Development and Quality Management provides quality assessment at the institutional level. In order to control and improve the quality of EP, the following procedures are carried out: 1. internal quality assessment procedures (internal audit); 2. external quality assessment procedures: accreditation in accordance with the documented procedure " Preparation for institutional and specialized accreditation in Karaganda Medical University NJSC and other external inspections by authorized bodies. Based on the results of the audit, a plan of corrective measures is developed and post-monitoring control is carried out.

Every year the need of practical healthcare in specialists according to the requests of health departments is taken into account, which are accumulated in the clinical department, transferred to the SRPD, discussed with the specialized departments, at the Academic Council. The University has mechanisms and criteria for systematic evaluation of teachers' performance, the Statute on Residency specifies the requirements for the qualification of teachers. Assessment and monitoring of the EP is carried out taking into account the needs of healthcare (changes in the laws and regulations, changes/additions to the National Qualification Framework, sectoral qualification frameworks; changes/introduction of new professional standards), the results of the residents' achievement of the final learning outcomes, the results of quality assessment of the educational program (audit, stakeholder survey, accreditation results, etc.)

The results of employers' questionnaire survey in 2022-2023 academic year showed that the satisfaction of employers with the quality of training of graduates of Adult Hematology residency training is 90%. SRPD together with the Head of EP analyze the percentage of employment of graduates. Among the graduates of the residency in the specialty Adult Hematology 100% are employed in the specialty, Butyugina M.N. works as an assistant of the department, Anafina A.J., Spakova A.A. - senior residents of the round the clock and day hospital Hematology Center LLP, Mehantseva I.V. - Ph-doctoral student.

7.2 Faculty and resident feedback

The HEI has an effective, continuous mechanism of internal quality assessment and expertise of educational programs, providing control over the implementation of the curriculum and objectives, as

well as feedback for their improvement. The University's advisory bodies (SRPD, Quality Assurance Commission) have a proper representation of stakeholders in the evaluation of the educational process and the final results of resident training programs. The members of the SRPD, the Commission participate in the discussion, review of the developed EP, monitor the EP during its implementation in order to identify weaknesses for subsequent corrective actions and improvement of the EP. At the level of departments the assessment of satisfaction with the educational process is carried out at the end of each discipline. The department conducts a questionnaire survey of residents in order to analyze the satisfaction with the quality of training, identify weaknesses and strengths, reasons for dissatisfaction with the learning process. The results of the residents' questionnaire are discussed at the department meeting, with the subsequent decision-making on the organization and content of the EP in order to improve it. Thus, the analysis of the results of the residents' questionnaire for the academic year 2021-2022 showed high satisfaction (100%) with the quality and clinical environment of training, organization and equipment of resources of the educational process in all disciplines of the specialty "Adult Hematology".

7.3 Resident and graduate outcomes

The Residency and Postgraduate Development School in collaboration with the Head of the EP conducts annual monitoring of the employment of residency graduates. The percentage of employment of graduates in the specialty Adult Hematology amounted to 100%. The Strategic Development and Management Department conducts an annual survey of employers on their satisfaction with the quality of training of graduates. The Strategic Development and Management Department and heads of EPs receive feedback from students, representatives of practical health care in the form of survey results, letters of appreciation.

In 2022, 32 employers were surveyed (response rate 71.1%). The level of graduates' achievement of the required competencies was 4.6 points out of 5, including in the specialty Adult Hematology - 4.5 points out of 5; 100% of employers noted that graduates have a sufficient level of knowledge and skills for quality and effective performance of their duties; the level of satisfaction with the quality of training of graduates 91%, in the specialty Adult Hematology - 90%, no employer did not assess the quality of training low. Graduates Adult Hematology - Anafina A.J., Spakova A. received appreciation letters from employers.

7.4 Stakeholder engagement

Interviews with 23 employers were conducted offline and included such questions as: knowledge of the university mission, participation in the development of the mission and proposals to the strategic plan, participation in the work of advisory bodies, satisfaction with the basic knowledge and skills of residents, participation in the training of residents through mentoring, providing the department and residents with the necessary resources for practical training and formation of clinical thinking, about the problems of interaction with departments and universities in general, 100% employment of residency graduates.

7.5 Approval procedure for educational programs

The EP 7R01105 - Adult Hematology is developed in accordance with the license for the right to conduct educational activities within the groups of educational programs according to the classifier of training directions, in accordance with the "Regulations on the management of the educational program" of Karaganda Medical University NPJSC. Upon the submission of the School Boards, the Senate revises the List of educational programs based on the market needs and available material and human resources, which is submitted for approval to the Board and approved by the Board of Directors.

In developing and discussing the EPs, external specialists, clinical preceptors, employers, residents, also included in the members of the SRPD Council are involved. EPs go through the stages of internal and external review. Thus, the EP Adult Hematology received positive reviews from I.A. Pivovarova, Chairman of the Republic Non-Governmental Organisation "Kazakh Society of Hematologists", General Director of Hematology Center LLP and I.V. Bacheva, Associate Professor of the Internal Medicine Department, Karaganda Medical University NPJSC, Chairman of the Project

Management Group (PMG) of therapeutic disciplines of the residency of the Educational and Methodological Association for the direction of training "Healthcare".

The procedure of EP approval is carried out in accordance with the "Regulations on the management of the educational program of Karaganda Medical University NJSC (the process map "Development, coordination and approval of the educational program" is developed and presented to the experts). The EP is coordinated with representatives of practical healthcare, examined by the Quality Assurance Commission of the Residency and Professional Development School, discussed at the meeting of the SRPD and approved at the meeting of the Board of the Karaganda Medical University NPJSC, undergoes external expertise for inclusion in the Register of EPs of the UHEMS.

The EEC's conclusions on the criteria. Meet out of 15 standards (including 7 basics, 3 improvement standards): fully - 10.

Standard 7: implemented

Recommendations for improvement identified during the external visit: none

Standard 8: MANAGEMENT AND ADMINISTRATION

Compliance Evidence:

8.1 Governance

Implementation of the educational program of residency in the specialty Adult Hematology is carried out in accordance with the license № KZ32LAA00016018 from 06.05.2019 in the direction of 7R091 " Healthcare (medicine)".

Management of the educational program is carried out in accordance with the Law of RK "On Education", Order of The Minister of Education And Science of The Republic of Kazakhstan (MES RK) No, 595 "On approval of the Standard Rules of Activity of educational organizations of corresponding types", Order of the MES RK No, 600 "On approval of the Standard Rules of admission to training in educational organizations implementing educational programs of higher and postgraduate education", Order of the Minister of Healthcare of the Republic of Kazakhstan № KR DSM-249/2020 "On approval of the rules of assessment of knowledge and skills of students, assessment of professional preparedness of graduates of educational programs in the field of healthcare and specialists in the field of healthcare", SCES, as well as established by the internal normative document of the Academic Policy of Karaganda Medical University NPJSC, Regulations on the management of the educational program, Regulations on residency.

The procedure for admission of students is regulated by the Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600, as well as the internal regulatory document - Policy of admission of students in Karaganda Medical University NPJSC, approved on 27.05.2022 at the meeting of the Board of Directors (Order No. 37). The procedures for admission and selection of residents are described in detail in Standard 4.

Management of the educational program is carried out on the basis of the Regulations on the management of the educational program in KMU NJSC (09.09.2020, order No. 14 of the Board meeting). Coordination of implementation, control and monitoring of program implementation is carried out by the Residency and Professional Development School under the supervision of the Vice-Rector for Scientific and Clinical Work (Organizational Structure 03.10.2022, Order No. 40 of the Board of Directors).

Assessment of residents and achievement of training final results on the residency program is carried out on the basis of independent examination.

KMU NJSC implements educational programs in accordance with the regulatory legal acts approved by the authorized bodies of the RK, as well as the internal rules of organization of the educational process in the university.

The processes of the management system in KMU NJSC are automated by means of information systems:

- Platonus - assessment of students' learning achievements,
- Session - own development, on the platform of which the certification of students is carried out
- Student Service Center - university development, through which students can submit and receive certificates and other documents, including state services (certificates of education, duplicate diplomas, etc.);
- Documentolog - internal and external correspondence.

According to the questionnaire survey conducted by experts, 96.88% of teachers fully agree that ethics and subordination in relations between colleagues, teachers and management are observed in KMU NPJSC, the remaining 3.13% completely disagree. 90.63% of respondents are fully satisfied with the organization of work and workplace, 9.38% are partially satisfied.

8.2 Academic leadership

Management of the educational process is carried out according to the organizational structure of KMU NPJSC. The governing body is the Board of Directors, the executive body is the Management Board: Chairman of the Board-Rector, Vice-Rector for Academic Affairs, Vice-Rector for Strategic Development and International Cooperation, Vice-Rector for Scientific and Clinical Affairs, Managing Director.

The Academic Committee of the Senate carries out the analysis of the effectiveness and development of recommendations to improve the management of educational activities in KMU NPJSC, expert examination of issues of strategic development of educational activities of KMU NPJSC; expert support for the development of academic policy of KMU NPJSC; consulting on quality assessment of educational programs of KMU NPJSC.

The general management of the School is carried out by a collegial representative body - the School Council (Regulation on the School Council of 26.08.2019 pr.8 of the Board of Management), which organizes its work under the guidance of the Dean of the School.

The main educational-scientific-clinical subdivisions, which provide training of residents, are the academic departments. The main purpose of the departments is the management of the educational process to ensure the quality of services provided on the basis of competence-oriented approach, as well as the training of students. The management of departments is carried out by the head, appointed to the position on a competitive basis in accordance with the labor legislation and the Rules of competitive filling of vacant positions of KMU NPJSC. Currently, in the implementation of the EP Adult Hematology involved faculty members of the Department of Internal Medicine..

84.4% of faculty members believe that KMU NJSC management listens to faculty members regarding issues on educational process, research and development, clinical work, 12.5% believe that sometimes, 3.13% responded no.

8.3 Budget for training and resource allocation

Data on the budget were obtained in an interview with the Deputy Director of the Department of Economics and Finance Mukhanova M.K., who reported that the university budget is formed from two sources: the republican budget (state order for training of university and postgraduate education, advanced training of medical workers, development of scientific research, transfers) and the provision of paid educational services. The University manages the budget of the EP Adult, pediatric Pulmonology on the principles of transparency, accountability, objectivity and legality. The University fulfills all obligations to pay the staff and residents' stipends, to create the necessary conditions at the bases, to purchase the necessary equipment, consumables, and other resources.

In the interview, the Vice-Rector for Scientific and Clinical Work notified the experts that innovative activities of teachers and residents (publications, participation in scientific and practical conferences, intellectual property, methodological recommendations, etc.) are financed within the framework of ongoing scientific (STP, Grants) and international educational projects (ERASMUS+) according to the calendar plan. Prof. Turgunov E.M. (Vice-Rector for Clinical and Scientific Work) noted that with the transition of the university to the status of research university, funding for research purposes increases, including reimbursement of payments for publications of employees, residents,

trips to scientific conferences, academic mobility.

Remuneration, differentiated payment is paid based on the results of achievement of key indicators of subdivisions. Employees are provided with a social package: discounts on professional development training, retraining, master's degree programs and staff members' children, as well as discounts on medical care and recreation areas.

8.4 Administration and management

The University annually makes changes and additions to the organizational structure. The staff schedule of the department, providing training of residents in the specialty Adult Hematology, is approved annually, taking into account changes in the number of residents. According to article 52 of the Law of RK "On Education" from 27.07.2007 No: 319-SH the total number of teaching staff is formed on the basis of the average ratio of residents and teachers - 3:1.

Calculation of teaching load is made according to "Model rules of activity of higher education organizations and state standard of education and in residency" and is 650 hours per year. The total number of scientific and pedagogical staff in the specialty Adult Hematology - 6 (5 full-time, 1 part-time), staffing 100%.

Karaganda Medical University NJSC is the first medical university of RK, which successfully passed in 2005 the certification of quality management system (QMS) for compliance of educational, scientific and clinical activities with the requirements of International Standard ISO 9001 series by the certification body NQA - UK (UK), NQA - Russia. In 2015 he was certified by the certification body SGS (Switzerland).

In 2016, the university passed accreditation in the field of health care for compliance with the standards of accreditation of medical organizations providing inpatient care with the assignment of the first category.

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

Methods of obtaining information from consumers - conducting interviews, questionnaires, studying complaints and recommendations. Internal assessment of education quality is realized in the processes of internal audit, self-assessment (accreditation), fulfillment of key performance indicators (KPI), which leads to continuous improvement and self-improvement.

8.5 Requirements and regulations

Interaction of Karaganda Medical University NJSC with the Ministry of Healthcare of the RK, Ministry of Education and Science of the RK on the organization of the educational process in the residency is carried out through the implementation of external normative legal acts of authorized bodies in the field of education and healthcare of Kazakhstan and internal regulations of Karaganda Medical University NPJSC. The list of documents is presented in detail in the report on self-assessment of the educational program and demonstrated to the expresidents during the visit to the university.

The teaching staff of Karaganda Medical University NPJSC, including those who teach the disciplines of the program in the specialty Adult Hematology actively participate in the development and implementation of clinical protocols for the diagnosis and treatment of blood diseases, the professional standard for the specialty. Events are held on request and in conjunction with the Republican Center for Health Development of the Ministry of Healthcare of the Republic of Kazakhstan.

The EEC's conclusions on the criteria. Meet out of 15 standards (including 8 basics, 7 improvement standards): fully meet - 15.

Standard 8: implemented

Recommendations for improvement identified during the external visit: none.

Standard 9: CONTINUOUS IMPROVEMENT

Evidence of Compliance:

Interviews with the administration, the dean of the residency school, and the program director touched on updating and amending the EP, the mechanisms and in what situations these steps are take.

Monitoring of EP is carried out by the head of EP within the framework of intra-university control during the audit and School Quality Assurance Committee. Monitoring and control of the achievement of the final results of training is carried out by departments and SRPD at the final attestation. Control of the quality of knowledge of students in the form of current attestation, taking into account the work of the student during the semester, interim attestation carried out in the form of passing written assignments, portfolio assessment, as well as final attestation allows to conduct a regular review, assess the degree of achievement of the final results and to make changes.

At the beginning of each academic year, the syllabus is reviewed and changes are made to improve the teaching and learning process: introduction of new teaching and assessment methods, updating of literature supply, thematic plan, etc., taking into account the updating of clinical protocols, international recommendations, and the needs of practical healthcare in the field of hematology. The forms of control are revised annually, test questions and written assignments are updated by 30% taking into account new concepts of diagnostics and treatment. Thus, in 2020-2021 academic year interim certification of residents in the form of portfolio defense at the end of the academic year is introduced.

The results of the monitoring of current academic performance, which is conducted monthly, are discussed at the meeting of the Department, the Council of SRPD. The results of interim certification at the end of the academic year and the results of the independent examination of the NCIE are also discussed at the meetings of the department, the Council of SRPD and the Senate. The results of the analysis, recommendations of the attestation committee determine the need to improve the EP. An important mechanism for evaluating the resident training process is to obtain feedback from trainees (residents) through questionnaires after each discipline. The results of these data are used to adjust the development of the EP.

Assessment of the quality and effectiveness of the introduction and implementation of the EP, including the proposals of students/HETP on the implementation of the EP, monitoring the results of satisfaction of employers and students, monitoring the quality of interim and final certification, monitoring the results of external evaluation and implementation of recommendations is carried out by the Quality Assurance Commission.

Internal regulatory documents are functioning to regulate the mechanisms of evaluation and monitoring of the educational process: "Academic Policy of Karaganda Medical University NPJSC, "Job descriptions of the teaching staff", "Regulations on the residency", "Regulations on the management of the EP". In order to improve the EP, "Development Plan of the educational program 7R01105 - Adult Hematology for 2020 - 2023" was developed and approved. (approved at the Council of SRPD, Minutes No.2 of 15.10.2020).

The monitoring process is aimed at improving the educational program and the quality of resident training. The results of monitoring are heard at the meetings of the department, the Board of SRPD. The process of reviewing the EP is aimed at identifying deficiencies and providing recommendations for improvement, after which the program is improved and re-reviewed. Collecting feedback from stakeholders allows to improve the program and its implementation process from the point of view of all stakeholders. In case of audits at the appropriate level, e.g. by internal audit service, accreditation agency, plans are developed to address the observations and recommendations, and the process of implementation of the plan is monitored.

Changes and updates in the EP are carried out taking into account the wishes of stakeholders (employers and residents), who are regularly surveyed. In cases when it is necessary to completely revise the educational program (in case of new regulatory documents in the field of residency, strategic partnership, etc.), the head of the EP and SRPD organizes working meetings with the responsible for specialties, explains the new provisions and gives the task of revision. The responsible for the specialty

creates a working group, which involves experienced faculty, residents, representatives of practical health care. The procedure for development, approval and updating of the EP is presented in the Regulation on EP management.

Resources are monitored annually for continuous improvement. The library fund is constantly updated with basic and additional literature in three languages (Kazakh, Russian, 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 the Internet and interactive classroom at the clinical bases allows residents to work online, participate in various webinars, master classes, etc.

In 2019-2020, the EP in the residency program has been completely redesigned. As a result, the profiling competencies and learning outcomes required to achieve a certain level in the training process have been revised.

Annual updating of the syllabuses is based on the achievements of science and practice, which is ensured by the participation of the faculty at Congresses, conferences, webinars, as well as monitoring by the faculty of new international clinical protocols and recommendations for diagnosis and treatment.

The teaching staff actively participates in scientific projects, grant studies, scientific and technical programs within the framework of Grants of the Ministry of Education and Science of the Republic of Kazakhstan, as well as intra-university competitions on Grants.

The EEC's conclusions on the criteria. Meet out of 1 standards (including 1 basic): fully meet - 1.

Standard 9: implemented

Recommendations for improvement identified during the external visit: none.

CONCLUSIONS:

The external evaluation of the educational program found that out of **147 standards** (including 91 basic standards and 56 improvement standards), 145 accreditation standards demonstrate full compliance, including 89 basic standards and 56 improvement standards. 2 basic improvement standards were partially met. No non-compliance of standards was found. Fulfillment of improvement standards indicates compliance of educational organization with international best practice in such areas as quality assurance of postgraduate medical education in the framework of national policy of educational activity and training of health professionals,

5. Recommendations for improvement of the educational program Adult Hematology

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

6. Recommendation to the ECAQA Accreditation Council

The members of the EEC established the compliance of the educational program of the residency in the specialty Adult Hematology with the Accreditation Standards and came to the unanimous opinion to recommend the ECAQA Accreditation Council to accredit this program for a period of 5 (five) years.

6. Рекомендация Аккредитационному совету ЕЦА

Члены ВЭК пришли к единогласному мнению рекомендовать Аккредитационному совету аккредитовать образовательную программу 7R01105 «Гематология взрослая» 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

The image shows a vertical list of handwritten signatures in blue ink on a white background with horizontal lines. Each signature corresponds to one of the names listed in the text to the left. The signatures are written in a cursive style and are placed on the lines of the document.

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

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

List of documents reviewed by the EEC members within the framework of 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.	<p>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</p>	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.	<p>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</p>	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.	<p>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</p>	1

	Hematology” discipline, Outpatient Hematology module), Adult and Pediatric Pulmonology (Intensive Therapy in Pulmonology discipline, 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	3

	<ul style="list-style-type: none"> - the name of the offer: “Individual Risk Cards for the Development of Cardiovascular Diseases”, approved by the Provost for Academic Affairs of the KMU NJSC, Riklefs V.P., May 04, 2022 - 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. 	8

	<ul style="list-style-type: none"> - Extract from the minutes of the meeting of the Department of Internal Diseases, Minutes No. 2 dated September 05, 2022. On the discussion of the forms and materials of the final control of residents in the specialties of the residency. - 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.	“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	1
18	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	1
19	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	1