

**REPORT  
OF EXTERNAL EXPERT COMMISSION  
ON THE RESULTS OF THE ASSESSMENT OF THE EDUCATIONAL  
PROGRAMME 7R09115 "RADIATION THERAPY" OF ASFENDIYAROV  
KAZNMU FOR COMPLIANCE WITH ACCREDITATION STANDARDS OF  
POSTGRADUATE EDUCATION PROGRAMMES (RESIDENTURE  
SPECIALTIES) OF MEDICAL EDUCATION ORGANIZATIONS**

**period of external expert evaluation: 18.11.-20.11.2020**

**1. Composition of the External Expert Commission**

In accordance with ECAQA Order No. 18 of 23.10.2020, an External Expert Commission was formed to conduct accreditation of educational programmes of residency specialties of Asfendiyarov KazNMU in the period 18-20.11.2020 in the following composition:



**Chairman of the External Expert Commission**  
TURGUNOV ERMEK MEYRAMOVICH,  
Doctor of Medical Sciences, Professor of the  
Department of Surgical Diseases of the NJSC  
"Medical University of Karaganda", President of  
the NGO "Surgical Association of the Karaganda  
Region", a member of the International Surgery  
Society, a member of the "Association of  
Independent Experts of Astana" and the "Union  
of Independent experts of KSMU "



**Foreign expert**  
KASHIRSKAYA NATALIA YURIEVNA,  
Doctor of Medical Sciences, Professor, Chief  
Researcher, Laboratory of Genetic Epidemiology,  
Federal State Budgetary Scientific Institution  
"Medical Genetic Research Centre named after  
Academician N.P. Bochkov",  
Moscow, Russian Federation



**National academic expert**  
JUMALINA AKMARAL KANASHEVNA,  
Doctor of Medical Sciences, Professor, Head of  
the Department of Pediatric Diseases with  
Neonatology  
NJSC "West Kazakhstan State Medical  
University named after Marat Ospanov"



**National academic expert**  
RAMAZANOVA RAYGUL  
MUKHANBETOVNA,  
MD, Head of the Hematology Course  
JSC "Kazakh Medical University of Continuing  
Education"



**National academic expert**  
ESENARAYEVA SAULE DAMIROVNA,  
Ph.D., Head of the Department of Medical  
Rehabilitation with the Course of Sports  
Medicine  
JSC "Kazakh Medical University of Continuing  
Education"



**National academic expert**  
BEKETOVA BAYAN BEISENGALIEVNA,  
Candidate of Medical Sciences, Assistant of the  
Department of Clinical and  
radiation oncology  
NJSC "Semey Medical University"



**National academic expert**  
AKHMETOVA ALMIRA KALIKAPASOVNA,  
Candidate of Medical Sciences, Associate  
Professor, Head of the Department of  
Dermatovenereology and Cosmetology  
NJSC "Semey Medical University"



**National academic expert**  
URAZOVA SALTANAT NURGOZHAEVNA,  
Doctor of Medical Sciences, Associate Professor  
of the Department of General Medical Practice  
with a course of evidence-based medicine  
NJSC "Astana Medical University"



**National academic expert**

KALIEVA SHOLPAN SABATAEVNA,  
Candidate of Medical Sciences, Associate  
Professor, Head of the Department of Clinical  
Pharmacology and Evidence-Based Medicine  
NJSC "Medical University of Karaganda"



**National academic expert**

ZHANTELIEVA LAZZAT ASANOVNA,  
Doctor of Medical Sciences, Deputy Chairman of  
the Board for Research Work of JSC "Scientific  
Centre of Urology named after  
B.U.Dzharbusynova "



**National academic expert**

MADYAROV VALENTIN  
MANARBEOVICH,

Doctor of Medical Sciences, Head of the  
Department of Surgery with a course of  
anaesthesiology and resuscitation, Non-Profit  
Organization "Kazakhstan-Russian Medical  
University"



**National academic expert**

SADIEVA ZHANAR ZAMANKHANOVNA,  
anaesthesiologist-resuscitator, head of the  
postgraduate education department of the South  
Kazakhstan Medical Academy JSC



**National academic expert**

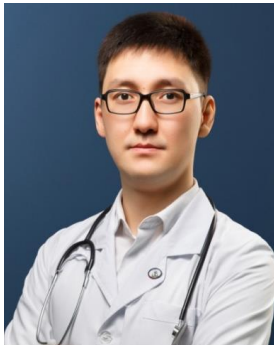
LOVINSKAYA ANNA VLADIMIROVNA,  
Senior Lecturer of the Department of Molecular  
Biology and Genetics, Al-Farabi Kazakh  
National University, Senior Researcher of the  
Research Institute of Biology and Biotechnology  
Problems of the RSE "Al -Farabi Kazakh  
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**Expert Representative of Practical Health**  
ZHOLDASBAYEVA KYRMYZY  
ZHUMABEKOVNA,  
Deputy Chief Physician for Childhood  
PSE on REM "City polyclinic No. 1", Almaty



**Expert Representative of Practical Health**  
NARTPAEVA ASEL TARASOVNA,  
acting Deputy Chief Medical Officer  
PSE on REM "City polyclinic No. 30", Almaty



**Expert - resident representative**  
BAYASHOV ERDOS NURIDINULY,  
resident physician for 3 years of training in the  
specialty "Anaesthesiology and Resuscitation,  
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**Expert - resident representative**  
TARASYUKOV ALEXANDER  
ANDREEVICH,  
resident physician for 3 years of training in the  
specialty  
"Anaesthesiology and resuscitation, including  
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Non-Profit Organization "Kazakhstan-Russian  
Medical University"



**ECAQA Observer**  
UMAROVA MAKPAL ALDIBEKOVNA  
Head of Accreditation and Monitoring  
Department

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

The EEC report contains an assessment of the educational programme of residency in the specialty 7R09115 "Radiation therapy" of KazNMU for compliance with the Accreditation Standards programmes of postgraduate education (specialty residency) of medical educational institutions of ECAQA, recommendations of the EEC on the further improvement of the educational activities of the university in the field of postgraduate education.

## **2. General part of the final report of the EEC**

### **2.1 Presentation of Asfendiyarov KazNMU and the educational programme of residency in specialty 7R09115 "Radiation therapy".**

In 2020, KazNMU turns 90 and in 2018 the university was reorganized into a non-profit joint-stock company (hereinafter - NJSC) by the Resolution of the Government of the Republic of Kazakhstan dated April 5, 2018 No. 166 and received the status of a research university (resolution of the Ministry of Health of the Republic of Kazakhstan dated 12.11.2018).

In accordance with the Strategy of KazNMU for 2019-2023, the basis of KazNMU's activities is the trinity - the integration of academic, scientific and clinical activities in order to provide high-quality and modern medical care to the population and training of professional personnel. In this regard, by 2018, the university included 5 republican state enterprises, including: JSC Scientific Center for Obstetrics, Gynecology and Perinatology, JSC Scientific Center for Pediatrics and Pediatric Surgery, JSC Scientific Research Institute of Cardiology and Internal Medicine , JSC "Kazakh Research Institute of Oncology and Radiology", JSC "Scientific Center of Surgery named after A.N. Syzganov ".

KazNMU is one of the founders of the Academic Demanding League, which aims to improve the quality of education by implementing and promoting the principles of academic honesty. The international information and analytical platform Web of Science in November 2019 awarded KazNMU an independent award "Leader in publication activity in the Web of Science Core Collection over the past 5 years among medical universities of the Republic of Kazakhstan."

KazNMU cooperates with 102 universities, medical and scientific organizations of the near and far abroad, including with TOP-500 universities, implementing joint scientific, research and educational projects.

KazNMU is a full member of international Associations: International Association for Medical Education in Europe (AMEE), European Association of Dental Education (ADEE), World Federation of Dentists (FDI), European Federation of Dentists (EROFDI), European Association of Universities (EUA), International Association of Universities ( IUA), the Association of Higher Schools of Management (GSM Barcelona), the World Federation of Pharmacists, the Association for Distance Education "Siberian Open University", the Association of Schools of Public Health in Europe (ASPHER). In 2015, KazNMU became a member of the Association of European Medical Schools (AMSE) and the Organization of PhD Education in Biomedicine and Health Sciences in the European System (ORPHEUS).

Residency was introduced in accordance with the Law "On Education". The first admission to residency was held in 2008. The first issue of residents was carried out in 2010.

For 2020, residency is being implemented in 44 specialties, including 19 educational programmes being accredited for the first time. 605 residents studied at KazNMU from 2017 to 2020. The University trains residents on the basis of 104 clinics, polyclinics, research institutes, and scientific centers. University clinics are: clinic "Aksai", clinic of internal diseases of KazNMU, professorial clinic of KazNMU, dental clinic.

Thus, KazNMU is an innovation-oriented and socially responsible university, a leader in the Republic of Kazakhstan and Central Asia in multi-level training of competitive healthcare and pharmacy specialists through the implementation of a competence-based model of medical and



pharmaceutical education with the wide involvement of domestic and foreign scientists and a constant increase in scientific research. potential.

The main educational, scientific and clinical structural unit of the University, which coordinates training at the second stage of medical education in one or more related specialties, is the Dean's Office of Internship and Residency, renamed from August 3, 2020 to the Faculty of Postgraduate Education. The dean's office unites all the departments related to the specialties included in the internship and residency, as well as those general scientific and fundamental departments that, in terms of the content of their work, are closest to the profile of the second level of higher medical education.

## **2.2 Information on previous accreditation**

Accreditation of the educational programme of residency in the specialty 7R09115 "Radiation therapy" has not yet been carried out.

## **2.3 Analysis of the self-assessment report of the study programme of residency in the specialty 7R09115 "Radiation therapy"**

Self-assessment report of the educational programme (hereinafter - EP) is presented on 126 pages of the main text, including attachments on 123-126 pages and electronic versions of documents located on Google disk at the link to the address: [ark.rezidentura@gmail.com](mailto:ark.rezidentura@gmail.com) and located at the link <https://kaznm.kz/rus/postupajushhim/postdiplomnoe-obrazovanie/rezidentura/...>

The report is characterized by the completeness of answers to all 9 accreditation standards, structuredness, taking into account the recommendations of the ECAQA Self-Assessment Guidelines, as well as the internal unity of the information provided to the accredited educational programme. The report is accompanied by an accompanying letter signed by the rector prof. T.S. Nurgozhin confirming the accuracy of the information and data contained in the report.

The report contains information about the representative of KazNMU, responsible for the self-assessment of educational programmes, Ph.D. Zhankalova Zulfiya Meirkhanovna, Dean of the Faculty of Postgraduate Education.

Self-assessment of educational residency programmes carried out on the basis of the order on the basis of the order dated 04.08.2020 No. 337 "On approval of the composition of the working group for preparation for accreditation educational programmes of specialties of residency".

The working group on the preparation of the self-assessment report has done a certain amount of work: the content of the accredited educational programme, the conditions for its implementation, staffing, educational resources have been analysed, the necessary information has been collected in accordance with Accreditation standards for postgraduate education programmes (residency specialties) of medical educational organizations (hereinafter referred to as accreditation standards); a thorough analysis, updating and addition of methodological and educational materials was carried out, their content is reflected in the report. The content of the Self-Assessment Report is structured in accordance with the ECAQA Accreditation Standards and includes a description of strengths, areas for improvement for each of the 9 standards.

## **2.4 General assessment of the educational programme of residency in the specialty 7R09115 "Radiation therapy" for compliance with the Standards of accreditation of programmes of postgraduate education (specialty residency) of medical educational institutions.**

Based on the analysis of the self-assessment report by external experts, it was found that the content of the self-assessment report is structured in accordance with the ECAQA accreditation standards and the recommendations of the Self-Assessment Manual, at the same time, based on the results of the expert evaluation, recommendations for adjustments were made, which were taken into account by the working group.

The report is written consistently in compliance with the logic in the description of the standards, the wording for each standard is clear and understandable, the tables contain references in the text and are numbered consecutively. There are links to regulations, model rules, regulations, educational documents, website pages <https://kaznm.kz/rus/postupajushhim/postdiplomnoe-obrazovanie/rezidentura/>

The self-assessment and description were carried out in accordance with the criteria of the ECAQA accreditation standards and the questions formulated in the Self-Assessment Guidelines were answered. All standards show actual practice of KazNMU for training residents in the specialty 7R09115 "Radiation therapy" taking into account the beginning of the admission of residents, reasoned data, examples of the implementation of the tasks of the educational programme, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. Self-assessment report description fairly complete and updated in terms of the number of residents, teachers, administration, information on the selection and admission, the results of training, the results of the assessment of knowledge and skills, the material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, development plans and improvement, etc.

Conclusion on each of the 9 accreditation standards includes a description of the strengths and areas for improvement identified in the course of introspection and development prospects for the specialty.

Thus, the self-assessment report of the accredited educational residency programme of KazNMU contains objective, detailed, structured information on all types of activities in accordance with the ECAQA accreditation standards, and the university made the appropriate corrections in the report at the expert evaluation stage.

### 3. Description of external expert evaluation

External expert work on the assessment of the educational programme of residency 7R09115 "Radiation therapy" of KazNMU was organized in accordance with the Guidelines for the external assessment of educational organizations and educational programmes of ECAQA (approved by the order of the Director General of "Eurasian Centres for Accreditation and Quality Assurance in Higher Education and Health care" No. 5 dated 17.02.2017) and according to the programme and schedule approved on 08.11.2020 by the Director General of ECAQA Sarsenbayeva S.S. and agreed with the rector T.S.Nurgozhin...

To obtain objective information on the expert assessment of the accredited educational programme, the members of the EEC used the following methods: interviews with management and administrative staff, interviews with residents, observation, study of the website, interviewing employees of various structural units, teachers, questioning teachers and residents, review of resources in the context of the implementation of accreditation standards, the study of educational and methodological documents both before the visit to the university and during the visit.

The KazNMU staff ensured the presence of all persons indicated in the visit programme and according to the lists of interview sites (Table 1).

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

<b>N o.</b>	<b>FULL NAME.</b>	<b>Position</b>
1.	Bayldinova Clara Zhenisovna	Vice-rector for academic affairs
2.	Zhankalova Zulfiya Meirkhanovna	Dean of the Faculty of Postgraduate Education
3.	Tashetova Aigul Balabekovna	And about. Director of the Department of Academic Affairs
4.	Nagasbekova Bayan Serikkanovna	Head of Human Development Department resources

5.	Kulzhakhanova Samal Sagatovna	Head of the Alumni Career Centres
6.	Tulepbaeva Gulzhan Sovetovna	Head of Clinical Department
7.	Tuleyev Bakhyt Izidinovich	And about. director of the university clinic
8.	Saliev Timur Muydinovich	Head of the B.A. Atchabarova
9.	Syzdykova Aigul Temirbulatovna	Deputy CFO
10.	Modovov Nurbol Alimbaevich	Library manager
11.	Zhanbolatova Gulnara Abzhanovna	Deputy library manager
12.	Nurmakhanova Zhanna Makhmutovna, Israilova Venera Karypbekovna, Akhmetova Gulsim Zhumagalievna, Nersesov Alexander Vitalievich, Rakhimov Kairolla Duisembayevich	Heads of departments
13.	Talkimbaeva Naylya Anuarovna	Head of the simulation centres
14.	Nurmakhanova Zhanat Makhmutovna, Ensegenova Zoya Zharbulatovna	Committee of educational programmes
15.	Kaliev Meruert	Secretary Academician committee
16.	Sugraliev Akhmetzhan Begalievich	Associate Professor of the Department of Internal Medicine

The sequence of the visit within 3 days is detailed in the Visit Programme, which is in the documentation of the accreditation centre and in the annex to this report.

**The first day of the visit is 11/18/2020.**

An interview with the management and key employees of KazNMU made it possible to determine the fulfillment of most of the criteria of accreditation standards 1, 2, 5, 7, 8, 9, namely, to identify approaches in developing the mission of the educational programme and its compliance with the strategic goals of the university, the role and place of postgraduate education in clinical direction in the strategy of the university (plan), mechanisms in determining the appropriate specialty of residency of clinical sites and qualified teachers, guaranteeing the adequacy of educational resources through planning public procurements and concluding agreements with country and international partners (more than 100 contracts|MoC). Realizing that the accredited residency programme is relatively new, since the first enrollment of the student took place in 2019-2020, the experts studied the documentation in detail,

The experts found that KazNMU strictly adheres to the requirements of regulatory legal acts and SCES in the implementation of educational programmes, and the management systematically monitors this process during internal audits (QMS, mutual control, control of the vice-rector for academic work, reporting, etc.).

The basis for effective management is the Quality Assurance Policy of KazNMU and the "Policies of the Chairs" developed at the departments of residency, as well as adherence to the Quality Guidelines when documenting the educational process (QMS has been constantly supported and certified since 2012).

Conversation with the Dean of the Faculty of Postgraduate Education Zhankalova Z.M. allowed experts to learn about approaches to attracting employees of clinical bases for teaching residents, about the strategy and tactics of recruiting residents for different specialties, information security of postgraduate education, as well as identifying problems in the management and development of human resources, since most practicing doctors do not know the teaching methodology ...

**The second day of the visit is 11/19/2020.**



This day was devoted to visiting clinical bases for the implementation of residency programmes (Department of Anesthesiology and Reanimatology, Department of Forensic Medicine), including the Institute of Oncology (KRIOR) (Department of Oncology and Radiation Therapy) affiliated with KazNMU and Scientific Centres for Pediatrics and Pediatric Surgery (Department of Pediatric Diseases with a course of neonatology). At clinical bases, experts surveyed the resources of the accredited educational programme, their compliance with the training courses in residency, accessibility for teachers and residents, how modern this equipment is and meets the needs of students and practical Health care.

The experts obtained evidence of compliance with accreditation standards 2 and 6, as well as validation of the information in the self-assessment report of the educational programme.

On the same day, interviews with teachers, residents and employers (representatives of practical health care) took place. It is necessary to take into account the fact that there was no graduation from an accredited educational programme, therefore it was not possible to interview graduates, however, the experience and authority of KazNMU in teaching residents (since 2007) shows a high percentage of employment (> 90%) of graduates of other programmes residencies and their demand by medical organizations in all regions of Kazakhstan.

Interviews with teachers, as providers of the residency programme, showed that there are both successes and problems in the management of the educational programme, depending on the specific clinical base (access of residents to equipment, a sufficient number of thematic patients, time for maintaining medical records, independent work of residents) ... The experts received answers about the teacher training programme, the financing of this training, the availability of certification in teaching methods for teachers.

On the same day, experts studied materials on the admission of residents and the selection of teachers.

Residents were interviewed to validate the performance of the self-assessment report data and to obtain evidence of the quality of the programmes. There were 5 residents in the specialty of the accredited EP. The experts asked questions about satisfaction with studying at the university, sufficient time for practical training, supervision of patients and work with medical records, as well as satisfaction with teaching methods and qualifications of teachers. In general, residents are satisfied with the training, assessment methods, and purposefully entered this university, since they believe that KazNMU has excellent clinical bases and experience in teaching residents, at the same time, residents would like more interactive teaching methods when analyzing complex cases. Residents believe that they will receive a good education and will be able to work independently after graduating from the university. The main clinical base for training residents in the specialty "Radiation therapy" is the Kazakh Institute of Oncology and Radiology. The structure of the institute includes clinical subdivisions - the Centres for Pediatric Oncology, Centres for Head and Neck Tumors, Centres for Neurooncology, Centres for Bone and Soft Tissue Tumors, Centres for Oncurology, Centres for Gynecological Oncology, Centres for Abdominal Oncology, Centres for Thoracic Oncology, Centres for Hemablastosis, Day Hospital of Radiation Therapy, Day a chemotherapy hospital, a mammology centres, an anesthesiology and resuscitation department, a dosimetry and physical and technical support for radiation therapy department, an advisory and admission department, residents have the opportunity to work in all the centers presented. The main clinical base for training residents in the specialty "Radiation therapy" is the Kazakh Institute of Oncology and Radiology. The structure of the institute includes clinical subdivisions - the Centres for Pediatric Oncology, Centres for Head and Neck Tumors, Centres for Neurooncology, Centres for Bone and Soft Tissue Tumors, Centres for Oncurology, Centres for Gynecological Oncology, Centres for Abdominal Oncology, Centres for Thoracic Oncology, Centres for Hemablastosis, Day Hospital of Radiation Therapy, Day a chemotherapy hospital, a mammology centres, an anesthesiology and resuscitation department, a dosimetry and physical and technical support for radiation therapy department, an advisory and admission department, residents have the opportunity to work in all the centers presented. The main clinical base for training residents in the specialty

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The teaching staff in the specialty "Radiation Therapy" includes 5 employees, of which 1 Doctor of Medical Sciences, 1 Candidate of Medical Sciences, 1 PhD. They are also clinical mentors who guide the teaching of clinical skills. 1 employee is a teacher of medical physics, all the rest are employees of clinical bases, have the highest medical category. Teaching staff: Telguzieva Zhannat Akhmetbekovna MD, doctor of the highest category with 28 years of experience, 7 years of teaching experience; Savkhatova Akmaral Dospulovna, candidate of medical sciences, doctor of the highest category with 20 years of experience, teaching experience of 7 years; Ishkinin Evgeniy Ivanovich PhD, doctor of the highest category with 11 years of experience, teaching experience of 4 years; Kurmanova Anar Amangeldievna, doctor of the highest category with 17 years of experience, teaching experience 5 years; Kim Svetlana Ivanovna is a medical physicist with 42 years of experience, teaching experience of 7 years.

The educational programme includes related disciplines such as oncology, radiation diagnostics, functional diagnostics, pathomorphological diagnostics, intensive care, which are carried out on the basis of clinical departments within the KRIOR.

In each clinical Centres of KRIOR, in the departments of the Day Hospital of Radiation Therapy and Clinical Dosimetry, which implement EP in the specialty "Radiation Therapy", there are personal computers with an Internet connection. The computer class for residents of KRIOR has all the necessary office equipment. The class is intended not only for conducting practical classes and lectures, but also for independent work of the resident (CPR), during which the practical skills of residents are practiced in the specialty "Radiation therapy". Residents have the opportunity to sort out especially difficult cases with an external consultant from the city of Madrid, Spain, Maya Dzhugashvili.

Residents showed their commitment to the organization of education, were active in answering questions from external experts, demonstrated their judgment on organizing training, assessing their skills, consulting support, opportunities to participate in research and development, funding, etc.). The experts studied the documents of residents (portfolio, results of assessment of residents-checklists, results of a questionnaire survey of residents).

Interview with employers at all the educational programmes of residency of KazNMU declared for accreditation, conducted online and included such issues as: knowledge of the mission of the university, participation in the development of the mission and proposals in the strategic plan, participation in the deliberative bodies of KazNMU, satisfaction with basic knowledge and skills of residents, participation in teaching residents through mentoring, providing the department and residents with the necessary resources for practical training and the formation of clinical thinking, on the problems of interaction with departments and universities in general, employment of residency graduates, etc.

A review of resources showed that the clinical base of the Kazakh Research Institute of Oncology and Radiology meets the goals and objectives of the accredited educational programme in the profile of beds, the number of thematic patients, modern equipment and its availability to all students, and the department staff ensure collegial and ethical relations with the medical staff, the leadership of the clinical base to achieve the final results of the educational programme. The clinical base has 2 training rooms, despite the fact that most of the time residents spend at the patient's bedside and in the diagnostic departments. Before starting the corresponding discipline of the

educational programme, the resident receives a syllabus from the teacher and knows what skills he must acquire and develop during the training.

### **The third day of the visit November 20, 2020**

Experts studied documentation, which confirmed the compliance with accreditation standards (nomenclature of the department's affairs, plan for 5 years, annual plan for the 2019-2020 academic year and report for 2019, journal of residents' progress, EMCD, feedback questionnaires with residents, teachers, reports on the results of the questionnaire and the measures taken, the code of ethics, etc., control and measuring instruments), including documentation (staff of the teaching staff, individual plans of teaching staff, IEP and portfolio of residents, evaluation of the educational programme by external reviewers, distribution of scientific directions and scientific advisers of residents) at the request of EEC members.

Then a meeting of the EEC members took place following the results of the external evaluation. A final discussion of the results of external assessment, study of documents, results of interviews, interviews, questionnaires was held. The members of the EEC began to design the final report of the EEC.

A meeting of the EEC members took place. EEC members made generalizations of the results of the external evaluation. The experts individually completed the "Quality profile and the criteria for external assessment of the NIC for compliance with the Accreditation Standards for the residency programme 7R09115 "Radiation therapy". No comments were made by the EEC members on the accredited EP. Recommendations for improving the postgraduate education sector in general and the department implementing the accredited educational programme were discussed. A draft report with recommendations was prepared.

Chairperson of the EEC prof. Turgunov E.M. a final open vote on recommendations for KazNMU and a final vote on recommendations for the ECAQA Accreditation Council were held. Then the Chairperson of the EEC for the management and employees of the educational organisation announced recommendations based on the results of an external assessment in the framework of accreditation of educational programmes for residency specialties.

**Questioning.** An observer from ECAQA in November 16-18, 2020 conducted an online survey of KazNMU residents and teachers on the resource <https://webanketa.com/>.

#### **Residents survey results:**

The total number of responding residents - 154... Of the total number of respondents, residents of the specialty "family medicine" prevailed - 40%, further on the list: pulmonology - 12%, clinical pharmacology - 12%, therapy - 11%, pediatric oncology and hematology - 6%, general surgery 4%, pediatric surgery - 3%, medical genetics - 2%, other specialties - 1% each.

Will recommend this university as an educational organization - 69% fully agree, partially - 26%. 71% of the respondents fully agree and 23% partially agree that programme managers and teaching staff are aware of their learning problems. Fully (64%) and partially (29%) are satisfied with the conditions and equipment of classrooms and classrooms of the university. According to 62% (in full) and 26% (in part) office equipment is available for residents in practice bases. Teachers provide residents with methodological and didactic materials, additional literature to prepare for classes - 73% fully agree, partially - 22%. Fully (72%) and partially (25%) are satisfied with the library fund and resources. 76% of respondents have access to electronic educational resources, and 20% believe that it is partially.

The organization of clinical training for residents in the opinion of 81% fully satisfies them, and 15% partially. Fully (74%) and partially (22%) are satisfied with the teaching methods. There is enough time for practical training (supervision of patients, etc.) - 82% fully agree, partly 13%. Satisfied with the methods of assessing my knowledge and skills - 78% fully agree, partially 21%. According to 73% of teachers in the classroom, they use active and interactive teaching methods regularly, and according to 23% - rarely.

According to 81% of the respondents, teachers constantly provide feedback after the end of classes, but according to 16% - sometimes and 2% - rarely. 81% of respondents are fully satisfied that they are studying at a university, partially 16%, disappointed - 1% of respondents. The university allows you to improve or acquire the necessary knowledge and skills in the chosen specialty of residency 82% are sure, 7% are not sure, 9% cannot give an answer, 1% would like to believe it, 1% began to doubt it. Fully (76%) and partially (23%) are satisfied with the organization of teaching at KazNMU.

According to 71% of respondents, accreditation is a necessary mechanism to improve educational programmes, but 12% believe that it is not necessary to carry out and 14% doubt the answer. The work of the EEC was assessed as positive - 74%, satisfactory - 14%, i.e. most.

### **Results of the survey of teachers of residency programmes:**

The total number of teachers on the list is 40. The total number of respondents is 39, including those with up to 5 years of experience - 18%, up to 10 years - 21%, over 10 years - 62%. 59% are fully satisfied with the organization of the educational process, partially - 33%. At the university, ethics is observed and subordination is fully agreed by 72%, partially - 26%. 67% of respondents are completely satisfied with the organization of work and workplace, partially 26%. In the organization there is an opportunity for career growth and development of competence for teachers - 67% fully agree, partially - 26%.

In this educational organization, teachers have the opportunity to engage in scientific work and publish research results - 72% fully agree, 23% partially. 59% of respondents are fully satisfied with the work of the personnel department, 28% are partially satisfied. The majority of those surveyed have undergone advanced training for the last 5 years. Only 69% fully agree that they can realize themselves as professionals, and 29% partially. Unfortunately, 33% did not answer the question of whether the university supports the teacher in participating in international and national events, and 21% did not address this to the management or the relevant administrative staff of the university. The majority of respondents (74%) fully agree, and 23% partially agree that residents have free access to patients and clinic resources. In a practical lesson, teachers provide residents primarily with syllables (87%), control and measuring instruments (90%), case studies (72%). The level of prior training of residents upon admission to training programmes is fully satisfied by 28% of respondents, partially - 62%. 58% of respondents do not know about the implementation of social programmes to support teachers and 8% of respondents doubt about their existence. Management and administration systematically listen to the opinion of teachers - 28%, sometimes - 28% of respondents. When teaching residents, a variety of teaching methods are used, but more often work in small groups (74%), analysis of situational tasks (90%), oral questioning and analysis of a topic (74% and 87%, respectively), also problem-oriented training (62%), solving tests (64%), less often cases are compiled and solved (56%). Completely according to 59%,

The results of the questionnaire are presented in the appendix and, in general, demonstrate the positive aspects of training in residency programmes, at the same time, they identify areas for improvement (social support programmes for teachers, availability of leadership and administration for teachers and residents, pedagogical competencies and professional development of teachers).

### **Conclusion on the basis of the external evaluation:**

Members of the EEC have carefully studied and assessed the main indicators of the accredited educational programme. The information received by external experts during the study of the self-assessment report, preparation of a written review with recommendations for improvement, implementation of the activities of the visit programme of KazNMU was analysed. All the information received was compared with the data of the self-assessment report, which made it possible to make sure of the accuracy of the information provided to KazNMU and supporting documents for compliance with the ECAQA Accreditation Standards.



Despite the fact that in the self-assessment report of the educational programme, KazNMU described its best practice in observing accreditation standards, during the external expert evaluation, the EEC members studied the main documents (mission, strategic plan until 2023, teaching materials of disciplines, syllables, control and measuring instruments, checklists, portfolio of residents, individual plans of residents for the 2019-2020 academic year, publications of teachers, rules for admission to residency, personnel policy, internal quality assurance system programme, resources for training were viewed directly at the clinical bases of departments (classrooms, office equipment available for residents to work with literature, patient documentation, educational and methodological literature), which made it possible to identify the compliance of the educational organization with the basic accreditation standards.

When conducting an external examination, the Rules for the training of medical personnel in residency were taken into account (order of the Minister of Health of the Republic of Kazakhstan dated September 18, 2018 No. KR DSM-16), paragraph 13. It was established that the clinical bases of all residency programmes are 106, which provide training for all levels of medical care (from primary health care to highly specialized). The accredited educational programme has 1 clinical base, of which 1 was visited by experts. 1. The volume of study load and treatment and prophylactic work in specialties is determined by the individual work plan of the student of residency (item 14) for one year and is monitored by monthly reports of the resident in any form. The accounting of completed tasks is drawn up in the form of a portfolio according to the recommendations in the syllabus.

In connection with the new edition of order No. 647 On the approval of state compulsory standards and standard professional training programmes for medical and pharmaceutical specialties dated July 31, 2015 (as amended by the order of the Ministry of Health of the Republic of Kazakhstan dated 02.21. No. KR DSM-12/2020 Chapter 2. Requirements for the content of residency educational programmes with a focus on learning outcomes), the educational programme has undergone changes and additions in relation to the development of the research competence of residents, which must participate in the work of the research team.

In this regard, the experts assessed the involvement of residents in research and development. There is no general provision or requirements for the implementation of scientific work at the university, at the same time, the departments conduct proactive research in which residents participate through writing reviews, collecting patient data, analysing the literature and patient examination results, preparing reports and presentations at conferences). Also, in accordance with Article 222 of the Residency of Clause 4 of the Code of the Republic of Kazakhstan On People's Health and the Healthcare System No. 360-VI ZRK dated July 7, 2020, external experts studied the activities and held conversations with mentors of residents, and it was established that each resident was provided with a mentor.

The experts took into account the fact that the accredited educational programme for the current state educational standard is being implemented for 2 academic years, therefore, at this time there is no graduation of students, nevertheless, the entire educational, methodological, personnel and resource base has been assessed for compliance with accreditation standards. Through interviews with teachers and interviews with students, it was possible to determine their direct participation in the development (CEPs, meetings of departments), the assessment of educational programmes (CEP), decision-making on a number of key issues in the choice of clinical sites, topics of electives, participation in the appeal commissions for admission and assessment of residents, development of the content of individual plans of residents and selection of mentors.

At the same time, this substantiated the need for inclusion in post-accreditation monitoring, along with the implementation of the EEC recommendations, an analysis of the implementation of the criteria of Standard 9, an annual report on the contingent of students.

Recommendations for improving activities in the implementation of the educational residency programme in the specialty 7R09115 "Radiation therapy" on compliance with the Accreditation Standards, developed by the EEC based on the results of the expert assessment, were presented at a meeting with the management on November 20, 2020.



The programme of the 3-day visit of the external expert evaluation of the EEC has been fully completed. On the part of the KazNMU team, the participation of all persons indicated in the programme is ensured.

Thus, the external assessment and the visit of the EEC members made it possible to verify and validate the data of the self-assessment report of the residency programme in full in accordance with the Regulation on the External Expert Commission, the Guidelines for the external assessment of the medical organization ECAQA education.

For the work of the EEC, comfortable conditions were created, access to all necessary information and material resources of the accredited educational programme was organized. Experts note the high level of corporate culture and discipline of those responsible for postgraduate education of KazNMU employees, departments, employees of clinical bases, a high degree of openness of the team in providing information to members of the EEC.

The clinical base where the residents are trained - the largest scientific centre in the country with specialized departments, highly qualified personnel, allows creating conditions for high quality training for residents under the educational programme 7R09115 "Radiation therapy".

#### **4. Analysis for compliance with accreditation standards based on the results of an external assessment of the educational residency programme in the specialty 7R09115 "Radiation therapy" of KazNMU and an overview of the strengths for each standard.**

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

The staff of the department, implementing the residency programme, as the basis of the mission of the educational programme and goals, accepted the mission of the university and informed interested parties (teachers, employers, residents) about it in order to clearly understand the tasks and strive to meet the needs of practical health care. The structure of the educational programme, where there is a dominance of practical training (75%), the sufficiency of clinical bases and the mentoring system allow strengthening the patient-centered approach in the care and treatment of patients. The university organized training and clinical practice in compliance with safety for all participants in the educational process (safety precautions, use of PPE, instructions before training).

Responsible for the residency programme, the Department of Oncology with a course of radiation therapy applies a variety of innovations in the learning process, allowing them to develop the basic and special competencies of residents, namely, work at the patient's bedside, clinical analyzes, solving situational problems, protecting medical records.

At the same time, the involvement of residents in the scientific work of the department is insufficient, is not of a systemic nature (1.1.7), it is more carried out on the initiative of the residents themselves.

The experts received convincing data that the university is autonomous in making decisions in the development of an educational programme in terms of the elective component, the current and final assessment policy, including the choice of assessment methods (testing, oral questioning, clinical examination), selection and admission of residents (specialty exam), personnel policy in relation to teachers under the accredited educational programme, as well as the distribution of resources (classroom fund of clinical bases according to contracts).

The EMCD defines the final learning outcomes in accordance with the qualification requirements for the residency specialty.

The university has developed a Student Ethics Code, which residents are familiar with and work on the development and improvement of communication skills is carried out systematically and integrated into the work programme.

At the same time, the participation of practical Health care in the development of the mission and goals of the educational programme is not sufficiently reflected, expert evaluation is formalized and feedback from practical Health care is not collected when forming optional components.

Overall, Standard 1 demonstrates compliance.

**Strengths:**

1. Experience in training residents since 2008 and the expansion of training specialties in postgraduate education, provided by the best clinical bases and professional teaching staff.
2. Collaboration with practical Health care to train residents through a mentoring system.
3. A clear vision and strategic planning in postgraduate clinical education and an appropriate management structure.

**Conclusions of the EEC on the criteria.** Out of 17 standards conform: completely -17, significantly - 0, partially - 0, do not correspond - 0.

**Standard 1: completed**

**Recommendations for improvement identified during the external visit:**

1) To improve the awareness of employers and other stakeholders with the mission, goals and end results of the EP on residency.

**Standard 2: EDUCATIONAL PROGRAMMES**

Accredited specialty residency programme 7R09115 "Radiation therapy" is implemented in accordance with the State Compulsory Standards and Model Professional Curricula for Medical and Pharmaceutical Specialties dated July 31, 2015 (as amended by the order of the Ministry of Health of the Republic of Kazakhstan dated 02.21. No. KR DSM-12/2020Chapter 2. Requirements for the content of educational programmes of residency with a focus on learning outcomes) for 2 years and during this period, a lot of work has been done to develop teaching materials, organize a place of training for residents, form the composition of departments and identify mentors. A model of residents' competencies has been introduced in accordance with the qualification requirements for the specialty. The structure, content and duration of the programme are clearly defined. The mechanism for the development and approval of the residency programme is determined and regulated by the CPC.

The staff of the departments has the necessary competencies for training, at the same time, the mentors represented by the staff of the clinical bases, despite their professional level, do not fully possess pedagogical techniques, which limits the implementation of a high-quality transfer of professional knowledge and skills. The teachers of the departments use a variety of methods of active (business games, brainstorming, clinical analyzes, case studies, etc.) and traditional (oral analyzes, mini-lectures) training, according to which staff members are periodically trained within the university, less often in other organizations (Nazarbayev University, NJSC "MUK", etc.). The dean's office is trying to monitor this process and, through the School of Pedagogical Skills, train newly hired teachers.

Due to the availability of clinical bases for residents, they spend most of their study time in close contact with patients, medical records, including automated Health care systems. Residents are taught by mentors to work with the latter. When conducting interviews with residents, experts were convinced that the organization of training and work is patient-oriented, at the same time, there is not always a sufficient number of thematic patients, time for theoretical analysis of complex topics and study of literature in modern databases. Clinical training is carried out in the conditions of accredited multidisciplinary clinics and highly specialized scientific centers in Almaty and the region.

In total, according to the accredited educational programme, there are 5 mentors in the KROR clinic, who carry out their activities in accordance with the Regulation on mentors. No precedents of inequality, lack of ethics or other violations of a gender, cultural or religious nature have been established in the process of external assessment.

During the examination of the educational programme, it was found that the scientific foundations and methodology of medical research, evidence-based medicine are applied, at the same time, residents are not fully involved in the scientific work of the departments, they do not have clearly defined research topics, performance criteria, including clinical trials.

Thus, the educational residency programme in the specialty 7R09115 "Radiation therapy" demonstrates the integration between education and health care.

**Strengths:**

- 1) There is a model for training residents through the integration of education and clinical training with a sustainable mentoring system.
- 2) Strengthened hands-on training of residents through appropriate specialty clinical sites with broad access to resources.
- 3) Professional and experienced teaching staff, ensuring the high-quality implementation of the educational programme.
- 4) An effective mentoring system.

**Conclusions of the EEC on the criteria.** Out of 31 standards correspond: completely - 28, significantly - 3, partially - 0, do not correspond - 0.

**Standard 2: completed****Recommendations for improvement identified during the external visit:**

- 1) Provide in the educational programmes for training residents in the management of scientific research, and medical statistics, health care organizations as a component of their choice.
- 2) The scientific component should be prescribed in thematic plans in the form of the implementation and defense of scientific projects.
- 3) Strengthen academic mobility, exchange of residents and teaching staff on high-tech methods of diagnosis and treatment with foreign universities.
- 4) Document the representation of residents to participate in the development and implementation of a residency programme (for example, a council of residents or other advisory body).

**Standard 3: ASSESSMENT OF TRAINEES**

KazNMU has developed and implemented a policy for assessing residents, which includes the principles and methods of assessment, which are reflected in the "Academic Policy of the University" (Order No. 195 of 08/28/2019), Regulations on the current monitoring of progress, intermediate and final certification of students of the NJSC KazNMU. Responsibility for the implementation of the policy for assessing the educational achievements of residents is borne by the faculty of departments, heads of departments (modules), the office of the registrar.

The assessment of the educational achievements of residents covers the assessment of key competencies, and the assessment tools themselves are developed by departments / modules - control questions, tasks in test form (MCQ tasks with several options for correct answers), a list of practical skills, situational tasks, clinical situations. Information about the point-rating system of assessment is posted on the website [www.kaznmu.kz](http://www.kaznmu.kz)...

As an additional method for assessing residents, the portfolio is used, which the experts got acquainted with at the departments supervising the residency programmes. Residents are engaged in research work, which must necessarily end with the publication of a scientific article or a report at scientific and practical conferences. The assessment of scientific work also affects the overall assessment of the discipline.

The number of exams in each course is regulated by the Standard Curriculum, which is an integral part of the State Educational Standard of the Republic of Kazakhstan 2017, 2020. in the specialties of residency. The results of educational achievements of students are entered into an electronic educational journal through the office-registrar system and the AIS "Sirius" programme, which automatically generates examination sheets.

The possibility of an appeal based on the results of the interim and final certification of residents is determined in the "Academic policy for the 2019-2020 academic year."

The procedure for planning, organizing, monitoring and analyzing assessment methods in KazNMU ensures the reliability and validity of these methods. The development of new control and measuring instruments is carried out by teachers through the study of world experience in assessing knowledge in residency, then it is introduced at the department. At the same time, no examples of test validation were presented to the experts.

Thus, this standard is generally implemented at the university.

**Strengths:**

1) Eelectronic system "Sirius", which ensures transparency and speed of registration of the results of the assessment of residents.

2) A portfolio of residents has been introduced, which makes it possible to assess the development of additional competencies of a resident.

**Conclusions of the EEC on the criteria.** Out of 11 standards conform: completely - 11, significantly - 0, partially - 0, do not correspond - 0.

**Recommendations for improvement identified during the external visit:**

1) Document the assessment of the validity and reliability of the CIS with a view to continual improvement.

2) Develop quantitative indicators for the implementation and assessment of scientific work by residents.

**Standard 4: TRAINEES**

The relationship between the mission and the selection of residents is envisaged, a balance is ensured between the available capacity and opportunities for training and the recruitment of residents. A policy was formulated and implemented on the criteria and process for the selection of students, including the admission of residents with disabilities, requiring the necessary conditions and equipment in accordance with national laws and regulations, taking into account the safety of doctors and patients.

The number of residents has been established to match clinical / practical training opportunities, clinical mentoring potential and other available resources, national and regional human resource needs in accordance with the chosen field of medicine.

There is a system of academic consulting for residents. The consultations are based on the results of monitoring training progress, including unintended incidents. Support is provided to residents focused on social, financial and personal needs.

Participation of residents in all medical activities of clinical sites is ensured. Training for residents is permitted under special circumstances in accordance with an individual training programme and taking into account previous experience in providing medical care.

**Conclusions of the EEC on the criteria.** Out of 30 standards conform: fully - 30, significantly - 0, partially - 0, do not correspond - 0

**Standard 4: completed**

**Recommendations for improvement identified during the external visit:**

1) When admitting to residency, provide for combined methods of assessing applicants in order to increase the objectivity of results.

2) Apply to the Ministry of Health of the Republic of Kazakhstan on the possibility of solving the problem of employment of graduates of residency in non-state Republican research medical centers.

**Standard 5: TRAINERS**

A policy of recruitment and admission of teachers, managers and mentors has been developed and implemented, which determines the required experience, criteria for scientific, educational, pedagogical and clinical achievements, including the balance between teaching, scientific activities, specialist qualifications, their responsibilities, duties of employees and, in particular, the balance between teaching, research and health care.

Its recruitment and recruitment policies take into account the mission of the curriculum, the needs of the education system and the needs of the Health care delivery system, ensure that teachers and residents have sufficient time to teach, mentor and train, and provide a teacher and mentor development programme.

The ratio between the number of teachers who received recognition and the number of residents is determined, their individual relationship is guaranteed and monitoring of the achievements of residents

**Conclusions of the EEC on the criteria.** Out of 7 standards conform: completely -6, significantly - 0, partially - 1, do not correspond - 0.

**Standard 5: completed**

**Recommendations for improvement identified during the external visit:**

1) Provide for the improvement of the teaching qualifications of the teaching staff of the residency not only in the universities of the republic, but also in foreign universities.

2) Provide training of clinical mentors from among doctors of practical health care in pedagogy and psychology.

3) Increase the reach of academic residency teachers in teaching innovative teaching methods.

## **Standard 6: EDUCATIONAL RESOURCES**

Residents are provided with a base and opportunities for practical and theoretical training, access to the latest professional literature and sources, adequate information and communication technologies and equipment for teaching practical skills, a safe environment for self-directed learning, material and technical equipment and equipment are regularly assessed and updated to ensure their compliance and quality assurance in postgraduate education.

The basis for training residents has been identified and approved and access to appropriate clinical sites, a sufficient number of patients, appropriate patients, and information about patients with various problems to achieve educational goals, including the use of opportunities for both inpatient and outpatient care and shifts, will be provided.

Full access to web and electronic media is available.

Residents gain experience working in a team of peers and other Health care professionals, provide training in an interdisciplinary / interprofessional team, and develop the ability to work effectively with peers and other Health care professionals.

Residents receive knowledge and are able to apply the scientific foundations and methodology of scientific research in the chosen field of medicine, as well as are provided with an appropriate integration and balance between training and research, promoting the participation of residents in medical research, the development of health quality and the health system, which include research in the basic biomedical, clinical, behavioral and social sciences, define and implement accessibility policies for residents and provide them with training opportunities in alternative organizations within or outside the country.

**Conclusions of the EEC on the criteria.** Out of 21 standards conform: fully - 21, significantly - 0, partially - 0, do not correspond - 0

**Standard 6: completed**

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

## **Standard 7: PROGRAMME EVALUATION**

The educational programme is regularly monitored, the programme is evaluated in relation to the admission policy and needs of education and the health care system, the process of implementing the educational programme, assessment methods, residents' progress, teacher qualifications, identified problems and shortcomings, the transparency of the assessment process and results for management and all stakeholders will be ensured.

Constantly studied Feedback on the curriculum from faculty, residents, employers, faculty and residents is involved in planning the programme evaluation and using the results of the evaluation to improve the programme.

Monitoring of qualified specialists is systematically carried out, feedback on clinical practice from employers is provided, residents are informed about the results of the assessment of clinical practice, persons responsible for admitting residents and planning an educational programme.



It is documented that all educational programmes, including training at clinical sites, are approved by the authorized body on the basis of clearly established criteria, evaluation of the educational programme and the existing powers for approval.

**Conclusions of the EEC on the criteria.** Out of 15 standards conform: fully - 15, significantly - 0, partially - 0, do not correspond - 0

**Standard 7: completed**

**Recommendations for improvement identified during the external visit:**

1) Introduce an assessment of the educational activities of clinical mentors through the eyes of residency graduates.

## **Standard 8: GOVERNANCE AND ADMINISTRATION**

The educational programme is conducted in accordance with the requirements of the regulatory rules regarding the admission of residents (selection criterion and number), the process of assessing knowledge and skills, established learning outcomes, the completion of training is documented by awarding degrees, issuing diplomas, certificates or other official qualifications for use by national and international authorized bodies.

There is a clear range of responsibilities and authorities for the provision of educational programmes with resources, including the target budget for training, the resources necessary for the implementation and implementation of the training programme are allocated and the distribution of educational resources is in line with needs. A residency programme has been defined and approved in cooperation with all stakeholders.

**Conclusions of the EEC on the criteria.** Out of 15 standards conform: fully - 15, significantly - 0, partially - 0, do not correspond - 0

**Standard 8: completed**

**Recommendations for improvement identified during the external visit:**

- 1) Improve the efficiency of the CPC in terms of the assessment and unification of syllabuses.
- 2) Raise awareness of residents about the possibilities of material and social assistance from the university
- 3) Introduce an assessment of the educational activities of clinical mentors through the eyes of residency graduates.

## **Standard 9: CONTINUOUS RENEWAL**

The process, structure, content, learning / competency outcomes, knowledge and skills assessment are updated, deficiencies are documented, resources are allocated for continuous improvement.

The updating process is based on prospective studies and analyzes and on the results of our own study and assessment and literature on medical education, The development of principles and methods of assessment is in accordance with changes in the established results and teaching methods

**Conclusions of the EEC on the criteria.** Out of 4 standards conform: completely -4, significantly -0, partially - 0, do not correspond - 0.

**Standard 9: completed**

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

Thus, all 9 accreditation standards have been met, no inconsistencies in the fulfillment of the criteria of each of the basic accreditation standards in the process of analyzing the self-assessment report and conducting the examination as part of the tasks of the external expert evaluation programme were found.

## **5. Recommendations for improving the educational residency programme in the specialty 7R09115 "Radiation therapy" KazNMU:**

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

1. To improve the awareness of employers and other stakeholders with the mission, goals and end results of the EP on residency.

### **Standard 2: EDUCATIONAL PROGRAMMES**

2. Provide in the educational programmes for training residents in the management of scientific research, and medical statistics, health care organizations as a component of their choice.
3. The scientific component should be prescribed in thematic plans in the form of the implementation and defense of scientific projects.
4. Strengthen academic mobility, exchange of residents and teaching staff on high-tech methods of diagnosis and treatment with foreign universities.
5. Document the representation of residents to participate in the development and implementation of a residency programme (for example, a council of residents or other advisory body).

### **Standard 3: ASSESSMENT OF TRAINEES**

6. Document the assessment of the validity and reliability of the CIS with a view to continual improvement.
7. Develop quantitative indicators for the implementation and assessment of scientific work by residents.

### **Standard 4: TRAINEES**

8. When admitting to residency, provide for combined methods of assessing applicants in order to increase the objectivity of results.
9. Apply to the Ministry of Health of the Republic of Kazakhstan on the possibility of solving the problem of employment of graduates of residency in non-state Republican research medical centers.

### **Standard 5: TRAINERS**

10. Provide for the improvement of the teaching qualifications of the teaching staff of the residency not only in the universities of the republic, but also in foreign universities.
11. Provide training of clinical mentors from among doctors of practical health care in pedagogy and psychology.
12. Increase the reach of academic residency teachers in teaching innovative teaching methods.

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

13. Provide for the improvement of the teaching qualifications of the teaching staff of the residency not only in the universities of the republic, but also in foreign universities.
14. Provide training of clinical mentors from among doctors of practical health care in pedagogy and psychology.
15. Increase the reach of academic residency teachers in teaching innovative teaching methods.

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

16. Introduce an assessment of the educational activities of clinical mentors through the eyes of residency graduates.

**Standard 8: GOVERNANCE AND ADMINISTRATION**

17. Improve the efficiency of the CPC in terms of the assessment and unification of syllabuses.
18. Raise awareness of residents about the possibilities of material and social assistance from the university
19. Introduce an assessment of the educational activities of clinical mentors through the eyes of residency graduates.

### 7. Recommendation to the ECAQA Accreditation Board

The members of the EEC came to a unanimous decision to recommend to the Accreditation Council to accredit the educational programme of residency in the specialty 7R09115 “Radiation therapy” for a period of 5 years

<b>Chairman</b>	Turgunov Ermek Meyramovich	
The foreign expert	Kashirskaya Natalia Yurievna	
Academic expert	Zhumalina Akmaral Kanashevna	
Academic expert	Ramazanova Raigul Mukhanbetovna	
Academic expert	Esengaraeva Saule Damirovna	
Academic expert	Beketova Bayan Beysengalieвна	
Academic expert	Akhmetova Almira Kalikapasovna	
Academic expert	Urazova Saltanat Nurgozhaevna	
Academic expert	Kalieva Sholpan Sabataevna	
Academic expert	Zhantelieva Lyazzat Asanovna	
Academic expert	Madyarov Valentin Manarbekovich	
Academic expert	Sadieva Zhanar Zamankhanovna	
Academic expert	Lovinskaya Anna Vladimirovna	
Representative of practical health care	Zholdasbaeva Kyrmyzy Zhumabekovna	
Representative of practical health care	Nartpayeva Asel Tarasovna	
The representative of the residents	Bayashov Erdos Nuridinuly	
The representative of the residents	Tarasyukov Alexander Andreevich	
The observer ECAQA	Umarova Makpal Aldibekovna	

**Quality profile and external evaluation criteria (summary)  
Of educational programme in the specialty of residency  
7R09115 "Radiation therapy" of KazNMU**

Standard	Criteria for evaluation  Number of standards = BS * / SU	Assessment			
		Totally coincides	Significantly corresponds	Partially compliant	Does not match
1	MISSION AND END OUTCOMES 17 = 10/7	10/7			
2.	EDUCATIONAL PROGRAMME 31 = 22/9	22/6	0/3		
3.	ASSESSMENT OF TRAINEES 11 = 7/4	7/4			
4	TRAINEES 30 = 18/12	18/12			
5	TRAINERS 7 = 5/2	3/1	2/0	0/1	
6.	EDUCATIONAL RESOURCES 21 = 10/11	10/11			
7.	PROGRAMME EVALUATION 15 = 10/5	10/5			
8	GOVERNANCE AND ADMINISTRATION 15 = 8/7	8/7			
9	CONTINUOUS RENEWAL 4 = 1/3	1/3			
	<b>Total: 151 = 91/60</b>	<b>89/56</b>	<b>2/3</b>	<b>0/1</b>	
		<b>151</b>			



## List of documents requested by EEC members within the framework of accreditation

No.	Names of documents	number	Date approved
1.	Educational programme specialties 7R09115 "Radiation therapy"	1	05/26/2020
2.	Syllabuses by specialties	6	08/28/2020
3.	Individual curricula for residents	5	08/28/2020
4.	Resident portfolio	5	08/28/2020
5.	Internal reviews of the EP	3	06/10/2020
6.	External reviews of the EP	3	06/10/2020
7.	Rules for admission to residency	1	07/15/20
8.	EP reviews	2	
8.	List of residents and their curators	1	
9.	Training bases	1	09/01/2020
10.	SOP, DMS, Checklists	2	08/29/2020
11.	Qualification characteristics of employees	7	
12.	Mentoring clause	1	
13.	Methodological security map	1	09/01/2020
14.	Teaching staff certificates in pedagogy	7	
15.	Control and measuring equipment		
16.	Test tasks for monitoring	100	09/01/2020
17.	Test tasks for midterm control	100	09/01/2020
18.	Final control tests	200	09/01/2020
19.	Interim certification tests	600	09/01/2020
20.	List of mentors	1	09/01/2020
21.	Individual teacher plan	7	09/01/2020
22.	Department regulations, job descriptions	1	
23.	Calendar-thematic plan and schedule	15/2	08/14/2020
24.	Resident questionnaires (1 year of study)	1	

