

**REPORT**  
**OF THE EXTERNAL EXPERT COMMISSIONS ON THE EVALUATION OF**  
**THE EDUCATIONAL PROGRAMME “CLINICAL PHARMACOLOGY” OF**  
**ASFENDIYAROV KAZNMU FOR COMPLIANCE WITH THE**  
**ACCREDITATION STANDARDS FOR PROGRAMMES OF POSTGRADUATE**  
**EDUCATION (RESIDENCY SPECIALTY) MEDICAL ORGANIZATIONS OF**  
**EDUCATION**

**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  
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**National academic expert**

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



**National academic expert**

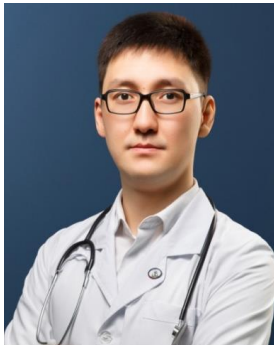
LOVINSKAYA ANNA VLADIMIROVNA,  
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**Expert Representative of Practical Health**  
ZHOLDASBAYEVA KYRMYZY  
ZHUMABEKOVNA,  
Deputy Chief Physician for Childhood  
PSE on REM "City polyclinic No. 1", Almaty



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



**Expert - resident representative**  
BAYASHOV ERDOS NURIDINULY,  
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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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**ECAQA Observer**  
UMAROVA MAKPAL ALDIBEKOVNA  
Head of Accreditation and Monitoring  
Department

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

**2.1 Presentation** Asfendiyarov KazNMU and the educational residency programme in the specialty "Clinical Pharmacology".

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 residency programme in the specialty “Clinical Pharmacology” has not yet been carried out.

## **2.3 Analysis of the self-assessment report of the educational programme of residency in the specialty 7R09142- "Clinical Pharmacology"**

Study Programme Self-Assessment Report presented on 134 pages of main text, 109-page annexes and copies or electronic versions of 27 documents on educational organization located in the cloud on Google Disk (akr.rezidentura@gmail.com).

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.

Database, applications for 24 pages are presented in full, sequentially and there are references to them in the text of the report. The report is written in a competent language, the wording for each standard is clear and understandable, the tables contain references in the text and are consecutively numbered.

## **2.4 General assessment of the educational programme of residency in the specialty 7R09142- "Clinical Pharmacology" for compliance with the Standards of accreditation of postgraduate education programmes (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 KazNMU for training residents in the specialty 7R09142- "Clinical Pharmacology" taking into account the beginning of admission of students in

2018, 2019, well-reasoned data, examples of the implementation of the objectives 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 software the number of residents, teachers, administration, information on selection and admission, training results, knowledge and skills assessment results, material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, development plans and improvement, etc.

### 3. Description of external expert evaluation

External expert work on the assessment of the educational programme of residency 7R09142- "Clinical Pharmacology" of KazNMU was organized in accordance with the Guidelines for the external assessment of educational organizations and educational programmes of ECAQA (approved by order of the Director General of the "Eurasian Centre for Accreditation and Quality Assurance in Higher Education and Healthcare" No. 5 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, questionnaires of teachers and residents, review of resources in the context of the implementation of accreditation standards, the study of 21 educational and methodological documents both before the visit to the university and during the visit.

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.

**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 from 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 7R09142- "Clinical Pharmacology" 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 7R09142- "Clinical Pharmacology".

#### **4. Analysis for compliance with accreditation standards based on the results of an external assessment of the educational programme of residency in the specialty 7R09142- "Clinical Pharmacology" of KazNMU and an overview of the strengths for each standard.**

##### **Standard 1: MISSION AND 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 the interested parties (teachers, employers, residents) about it in order to clearly understand the tasks and strive to meet the needs of practical healthcare. The structure of the educational programme, where there is a dominance of practical training (75%), the sufficiency of clinical bases and a mentoring system allow strengthening the patient-centred 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).

The Department of Clinical Pharmacology, responsible for the residency programme, applies a variety of innovations in the learning process, which allow developing the basic and special competencies of residents, namely, working at the patient's bedside, clinical analyses, solving situational problems, conducting clinical and pharmacological examinations, writing analytical reviews on drugs, participation in scientific research.

The involvement of residents in the scientific work of the department is sufficient, residents are involved in both the implementation of scientific and technical progress and initiative topics, speak at conferences with reports.

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 (oral examination in the specialty ), personnel policy in relation to teachers for the accredited educational programme, as well as the distribution of resources (classroom fund of 5 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 with which residents are familiarized 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, external evaluation is formalized and reviews of practical health care are not collected when forming the components of choice.

Overall, Standard 1 demonstrates compliance.

##### **Strengths:**

1) High commitment of the teaching staff of the department to fulfil the mission and ensure the final results of training in the educational programme of the specialty "Clinical Pharmacology"

2) Experience in training residents since 2008 and the expansion of training specialties in postgraduate education, provided with the best clinical bases and professional teaching staff.

3) Conditions have been created for educational activities of residents in clinical pharmacology: training of residents is carried out on the basis of the largest, diversified clinical bases of the city.

4) Clear vision and strategic planning in postgraduate clinical education and an appropriate management structure.

**Conclusions of the EEC by criteria.** Out of 17 standards conform: fully - 13, significantly - 4, partially - 0, do not correspond - 0.

**Standard 1: completed**

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

1. Strengthening the basic training programme in clinical pharmacology to ensure effective continuity with the postgraduate residency programme in clinical pharmacology (1.3.4)

2. More active involvement of all stakeholders in the formulation of the mission and final learning outcomes of the EP in the specialty Clinical Pharmacology (1.4.2)

## **Standard 2: EDUCATIONAL PROGRAMME**

The accredited residency programme in the specialty 7R09142 - "Clinical Pharmacology" 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-12/2020 Chapter 2. Requirements for the content of educational programmes of residency with a focus on learning outcomes) within 2 years and during this period, a lot of work has been done to develop educational and methodological materials, organize a place for training 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 CEP.

The staff of the departments has the necessary competencies for training, 4 teachers participate in the training of residents, the degree of degree is 50%, 1 employee has the highest medical category in the specialty of Clinical Pharmacology. At the same time, the mentors represented by the employees of the clinical bases, despite their professional level, do not fully master the 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 (clinical analyses, participation in rounds, consultations of doctors, patients, case studies, expert assessment of appointments, analytical reviews of drugs) and traditional (oral analyses, mini-lectures) training, according to which staff members undergo periodically training 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 healthcare systems. Residents are taught by mentors to work with the latter. When conducting interviews with residents, experts made sure 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 centres in Almaty and the region.

In total, according to the accredited educational programme, there are 2 mentors in 5 clinics that carry out their activities in accordance with the Regulations on mentors. There are no precedents of inequality, lack of ethics or other violations of a gender, cultural or religious nature in the external assessment process.

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 do not fully study the issues of medical ethics, clinical epidemiology within the educational programme, which is largely due to the requirements of the State Educational Standard of Education 2020.

Residents are involved in the scientific work of the department, speak at scientific conferences with reports.

Thus, the educational residency programme in the specialty 7R09142 - "Clinical Pharmacology" demonstrates the integration between education, medical care and research.

**Strengths:**

a. Resident training is carried out through the integration of education, clinical training and research

b. Clinical training is carried out in the conditions of accredited multidisciplinary clinics and highly specialized scientific centres in Almaty and the region, providing wide access to specialized patients....

c. Experienced faculty of the department

**Conclusions of the EEC by criteria.** Out of 31 standards conform: completely - 26, significantly - 5, partially - 0, do not correspond - 0.

**Standard 2: completed**

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

4. Wider inclusion of ethical issues in the training programme of residents in the specialty "Clinical Pharmacology" (2.1.8)

5. Inclusion of issues of clinical epidemiology and evidence-based medicine, scientific foundations of medicine in the EP in the specialty "Clinical Pharmacology" (2.2.1)

6. Increased use of distance learning technologies (2.4.4)

**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 in NJSC KazNMU. Responsibility for the implementation of the policy for assessing the educational achievements of residents lies with the head. Department, faculty of the Department of Clinical Pharmacology, Registrar's Office.

The assessment of the educational achievements of residents covers the assessment of key competencies, and the assessment tools themselves are developed by the specialized department - control questions, tasks in test form (MCQ tasks with multiple correct answers), a list of practical skills, situational tasks, clinical situations Information about the point-rating system of assessment is available 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 overseeing the residency programmes. At the Department of Clinical Pharmacology, the portfolios of residency for 2 years of study of Sultanuly Ali and Kaimnova Ayman were demonstrated. 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. Scientific publications of residents are presented. 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 final state certification in clinical pharmacology is carried out in 2 stages: complex testing (in all disciplines) and a practical (mini-clinical) examination at the patient's bedside NCIE. 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 interim and final certification of residents is determined in the "Academic policy for the 2019-2020 academic year."

**Strengths:**

1) Electronic 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 allows assessing the development of additional competencies of a resident.

*Conclusions of the EEC on the criteria* conform from 11 standards: completely - 9, significantly - 2, partially - 0, do not correspond - 0.

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

- 1) Regularly review and assess the quality of the assessment methods and formats used for validity and reliability in relation to established learning outcomes and documenting (3.1.6)

**Standard 4: TRAINEES**

Admission to residency in the specialty 7R09142 - "Clinical Pharmacology" is carried out in accordance with the Order of the Ministry of Education and Science of the Republic of Kazakhstan "On Approval of the Standard Rules for Admission to Training in Educational Institutions Implementing Educational Programmes of Higher and Postgraduate Education" dated October 31, 2018, No. 600, State Educational Standard of the Republic of Kazakhstan - 2015, 2019 and the Rules for admission to the residency of KazNMU for the current academic year. The EP of residency involves a clinical focus of training and in-depth specialized training in the relevant specialty 7R09142 - "Clinical Pharmacology".

The number of residents is determined based on clinical training opportunities as well as the needs of practical healthcare. In the specialty "Clinical Pharmacology" the first enrolment in 2019, 10 residents were enrolled; in 2020 - 12 residents under the state programme. The selection of applicants is based on the GPA diploma, exam score, interview results and level of English proficiency. The decision on the selection of applicants is made by the Admissions Committee. In view of the CVI pandemic, changes have been made to the admission rules: the admission of documents was carried out in an online format and the entrance exams were changed in a format where instead of a traditional interview, all personal achievements of the student will be taken into account without an interview.

The system of academic consulting for residents is functioning well, including based on the results of assessment and questionnaires of residents. Participation of residents in medical activities related to the learning process at clinical bases and at the university was demonstrated, including the treatment and diagnostic process under the guidance of curators, which is regulated by the agreement between the university and the clinical base, and is reflected in the portfolio. Events in which the residents of clinical pharmacologists took part: XII International Congress - October 23-24, 2019 "Man and Medicine - Kazakhstan", a meeting of the Director of the Department of Science and Human Resources of the MoH RK Sydykova S.I. with residents on September 29, 2019, master class "Prevention of liver diseases. Management of patients after liver transplantation" October 28-November 1, 2019, carrying out the action "Correct use of antibiotics" among students of 5-6 courses at the Department of Clinical Pharmacology of Asfendiyarov KazNMU on November 18, 2019, participation in the seminar Rational use of medicines New in the legislation of the Republic of Kazakhstan, together with the deputy head of the centre for the rational use of medicines of the Republican Centre for Health Development of MoH RK Zhusupova G.K. November 30, 2019, participation in the University Days 2019 "Pediatrics of the XXI century. Modern challenges and trends" dedicated to the 130th anniversary of S.D. Asfendiyarov, December 5-6, 2019 (poster presentation of resident Ayman Kalmanova, report of resident Nurymbetova Saltanat at the round table "Cardiovascular diseases and thrombosis"), Participation in the interdisciplinary scientific -



practical conference with international participation "Secrets of the female heart -2020. Women's health, style and longevity "04 March 2020.

Distance learning is provided when the training of residents is interrupted for certain reasons, the principles of DLT are set out in the Academic Policy of KazNMU, however, at the Department of Clinical Pharmacology, the distance learning format is not widely used for additional training of residents or in certain difficult situations.

**Strengths:**

1. The presence of a regulated policy of admission and selection of residents, ensuring transparency at all stages of this process.
2. An established system of academic consulting for residents
3. Well-established feedback system with residents.

**Conclusions of the EEC on the criteria** conform from 30 standards: completely - 27, significantly - 3, partially - 0, do not correspond - 0.

**Standard 4: completed**

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

1. Revision and implementation of examination methods that minimize the subjectivity of the assessment (possibly combined methods: test assignments, written examination) in the selection and admission of residents to the specialty "Clinical Pharmacology"
2. Wider use of the possibilities of distance learning or other formats of education to provide residents with additional training, including in certain difficult situations (4.5.4)

**Standard 5: TRAINERS**

The personnel policy of KazNMU is guided by the following normative legal acts: "Personnel policy of KazNMU" order No. 7 dated 14.10.2019; "Rules for the assessment of scientific and pedagogical personnel of KazNMU", order of the Rector No. 285 of 23.10.2019; "Qualification requirements for the positions of the teaching staff of KazNMU", order of the Rector No. 281 dated June 25, 2019.

The Department of Clinical Pharmacology has a sufficient number of teachers (11 employees of the department - 2 professors, 1 associate professors, 8 assistants) in accordance with the needs of the programme, mission, successful implementation of the educational programme for residency, the teachers meet the qualification requirements. 4 teachers participate in the training of residents, the degree of degree is 50%, 1 teacher has a certificate of a doctor-clinical pharmacologist of the highest category.

The selection of personnel for vacant positions of teaching staff is carried out on a competitive basis in accordance with the Rules for the competitive replacement of positions of teaching staff and scientific personnel of KazNMU in accordance with internal needs, qualification requirements for teaching staff, which are determined by the "Qualification requirements for positions of teaching staff of KazNMU", approved by the order of the rector on June 15, 2020, No. 281. Clinical mentors involved in teaching to residents from practical health care are required to have a basic education, a medical qualification category and sufficient experience in the specialty

The participation of teachers in advanced training programmes is reflected in the individual reports and plans of the teaching staff, monitored by the intra-department control. Upon completion of the advanced training, reports or documents confirming the training (certificates) are provided. At the Department of Clinical Pharmacology, 10 employees underwent advanced training in the 2019-2020 academic year. 2 clinical mentors are planned for passing pedagogical qualifications in 2020. It should be noted that at the Department of Clinical Pharmacology, advanced training is carried out within the university and the region.

**Strengths:**

1. There is a personnel policy of KazNMU, requirements for the qualifications of teaching staff and clinical mentors have been developed and implemented
2. The system of internal assessment of the teaching staff has been established

3. The developed internal system of improving the pedagogical improvement of the teaching staff of KazNMU includes the following subdivisions: School of pedagogical skills named after H.S. Nasybullina, School of Public Health. H. Dosmukhamedova, Institute of Postgraduate Education, Center for Communication Skills. Julia Draper, teaching staff qualifications

*Conclusions of the EEC on the criteria* conform from 7 standards: completely - 4, significantly - 3, partially - 0, do not correspond - 0.

**Standard 5: completed**

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

1. More active involvement of graduated teaching staff of the department, having the first and highest qualification category in clinical pharmacology for the training of residents (5.1.1, 5.1.3)

2. Support and further enhancement of the professional competence of teaching staff both in the near and far abroad, activate the invitation of visiting professors in the specialty "Clinical Pharmacology" (5.2.4)

### **Standard 6: EDUCATIONAL RESOURCES**

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

The core disciplines of residents studying in the specialty "Clinical Pharmacology" are held on the basis of the following clinics: Internal Medicine Clinic - 6 classrooms with a total area of 72 sq. m; JSC "National Scientific Centre for Surgery named after A.N. Syzganov "-2 (20 sq. M.), Centre of Pediatrics of the University Clinic - 6 (62 sq. M.); City Children's Clinical Hospital No. 2 - 1 (22 sq. M.); SPE on the REM "GP No. 4" - 2 (22 sq.m.)

Information and communication technologies, including Internet resources, international databases of scientific and educational literature, electronic textbooks, Sirius KazNMU (sirius.kaznm.kz) are actively used in the implementation of the educational residency programme. The result of the resident's activities is checked by the teacher, documented in the portfolio, examples of which are presented during the visit of the EEC (portfolio of residents of the 2nd year of study Sultanuly Ali, Kaimanova Ayman).

Over the past 5 years, the staff of the Department of Clinical Pharmacology have introduced the achievements of medical science into the practice of health care in new methods of prevention, diagnosis and treatment 6, including their own - 2.

Currently, the Department of Clinical Pharmacology is carrying out a fragment of the STP "National Programme for the Implementation of Personalized and Preventive Medicine in the Republic of Kazakhstan" Fragment 2.3. DNA analysis of persons of the Kazakh ethnic group suffering from significant diseases and control persons of the Kazakh ethnic group in order to determine the polymorphism of genes associated with the development of these diseases with the subsequent development of recommendations. The leader of the fragment is Ilyasova B.S. "Study of gene polymorphisms in patients of the Kazakh population with liver cirrhosis", Asfendiyarov KazNMU, A.N. Syzganov ", implementation period: 2020-2022.

#### **Strengths:**

1. The University has a developed material and technical base for the implementation of professional training of residents in the specialty of clinical pharmacology and provides a safe environment for learning.

2. Scientific-research institute of fundamental medicine (SRIFM) includes 3 large laboratories, the total area of which is 801.4 square meters: a scientific and educational laboratory, a clinical experimental laboratory, a centre for certification of medicines and other products for direct training of residents in the specialty "Clinical Pharmacology"

3. Examination of the quality of the implemented educational programme for residency at KazNMU is a systematic process

**Conclusions of the EEC on the criteria:** out of 21 standards conform: fully - 15, significantly - 6, partially - 0, do not comply - 0.

**Standard 6: completed**

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

1. Further equipping educational auditoriums at clinical sites with computer technology for residents studying in clinical pharmacology (6.1.2)

2. Actively conducting scientific research in education (6.6.3) and providing wide access to research laboratories of the university for residents to conduct research in the field of clinical pharmacology (6.5.4)

3. Active expansion of academic mobility programmes for residents studying in the specialty "Clinical Pharmacology" (6.7.1)

4. Expanding international collaboration and exchange of faculty and residents in clinical pharmacology (6.7.3, 6.7.4)

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

KazNMU has developed mechanisms for monitoring and methods for studying and evaluating the educational programme, which are aimed at improving the educational programme, including the model, structure, content, duration of the educational programme. KazNMU assesses programmes taking into account the mission, the required final learning outcomes, the content of the programme, the assessment of knowledge and skills, educational resources, taking into account the needs of the healthcare system, the progress of residents, the qualifications of teachers. To monitor the implementation of the educational programme and as problems arise, including those related to resource provision, the University operates the following documents - SOP (standardized operating procedures): "Formation, discussion of educational programmes (EP)" (order No. 600 of 02.08.2018); "Organization of methodical work" (order No. 600 dated 02.08.2018); "Formation, discussion, approval of QED" (Order No. 600 dated 02.08.2018); "Monitoring the quality of the educational process, the use of active teaching methods and multilingualism in the departments" (order No. 4 of January 14, 2020)

The Department of Clinical Pharmacology has a working group for the development and implementation of the EP of residency "Clinical Pharmacology", which participates in the preparation of working curricula, syllabuses of disciplines, CIS, and also analyses the results of examinations, surveys and questionnaires of residents, collects proposals for improvement from the teaching staff and residents. Every year, at the request of residents and employers, the catalogue of elective disciplines in the specialty "Clinical Pharmacology" is updated on such topical issues as "Search, assessment and adaptation of international recommendations, guidelines and clinical protocols in the Republic of Kazakhstan". Monitoring of planned activities within the framework of the implementation and evaluation of the EP is carried out at meetings of the Department of Clinical Pharmacology, the Faculty Council, the Academic Committee - the implementation of plans is checked; compliance of the results of the processes with the planned indicators (effectiveness); a performance discussion is held; an appropriate assessment is given; if necessary, corrective actions are developed to eliminate deficiencies and omissions in work.

#### **Strengths:**

External and internal evaluation of the educational programme is carried out on a regular basis

Conducting a sociological study to study the satisfaction of employers with graduates of KazNMU

The principle of independent objective assessment is widely used through the involvement of independent examiners as chairmen, members and examiners of the state attestation commission for the final attestation of graduates

**Conclusions of the EEC on the criteria:** Out of 15 standards conform: fully - 5, significantly - 10, partially - 0, do not correspond - 0.

**Standard 7: completed**

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

1. Active involvement of residents and employers in the evaluation of the educational programme in the specialty "Clinical Pharmacology" (7.2.2)
2. Regular assessment of the educational programme in clinical pharmacology based on feedback from residents and employers to improve the quality of the programme and comply with the modern development of medicine (7.3.2)
3. Expanding the representation of employers and residents in the advisory and advisory bodies of the university on residency (7.4.1)

**Standard 8: GOVERNANCE AND ADMINISTRATION**

The implementation of the residency programme is carried out in accordance with license No. 0064063 dated 01.07.2009, renewal of license No. 14018794 dated 12.12.2014, renewal of license No. KZ52LAA00012845 dated 14.09.2018, renewal of license No. KZ74LAA00017008 dated 19.09.2019 of residency programmes. KazNMU developed and approved the main internal document defining the scope of duties and powers of the University in relation to EP residency, including the obligation to provide the educational process in full with all the necessary information sources and access to network educational resources, including "Academic Policy" (decision of the Management Board, Minutes No. 5 dated 28.08.2019). The assessment of residents and the achievement of the final results of training under the residency programme is carried out on the basis of the final state certification.

Upon completion of the residency, a certificate of completion of the residency is issued, and after passing the FCA, NCIE issues a certificate of a specialist without a category in the specialty "Clinical Pharmacology".

Based on the results of the external recertification audit of the QMS in 2018, the divisions and departments implementing residency programmes have no inconsistencies and comments.

**Strengths:**

- 1) Innovation structure of the university
- 2) A clear system of allocation of responsibility of the academic leadership in relation to the development and management of the educational residency programme
- 3) High academic assessment of achievements and final learning outcomes; state certification of KazNMU by various ratings;
- 4) Stable financial condition of the university;
- 5) Developed system of cooperation with partners in the health sector.

***Conclusions of the EEC on the criteria*** conform from 15 standards: completely - 9, significantly - 6, partially - 0, do not correspond - 0.

***Standard 8: completed***

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

1. Improving funding mechanisms for academic mobility of students and teachers, including inviting visiting professors, participating in international events in the specialty "Clinical Pharmacology" (8.3.2)

**Standard 9: CONTINUOUS RENEWAL**

KazNMU maintains a system of regular review, updating the structure and functions of educational programmes, a system for correcting shortcomings in documents is functioning, mechanisms of the process of updating in the field of education, based on the results of evaluating the educational programme, systematic analysis of feedback from consumers. Resources are allocated and additional funding is planned for the further development of the educational programme. KazNMU initiates a process of regular renewal through strategic planning, taking into account the study of postgraduate learning needs and interests of various stakeholder groups.

Thus, this standard is generally implemented at the university.

**Strengths:**

1. Supporting Research University Status
2. Functioning of the internal and external system of assessment and quality assurance of all types of activities of the University
3. Well-established stakeholder feedback system
4. Dynamically developing structure of the university to ensure continuous improvement of the quality of residency programmes.
5. Regular assessment of the quality of learning outcomes: competencies, assessment of knowledge and skills of residents
6. Improving the pedagogical competencies of teaching staff based on the author's "Model of competencies of a teacher of KazNMU" (Certificate of state registration of rights to the object of copyright No. 0064 dated January 13, 2016).

**Conclusions of the EEC on the criteria:** Out of 4 standards correspond: completely - 2, significantly - 2, partially - 0, do not correspond - 0.

**Standard 9: completed**

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

- 1) Further improvement of the material-technical and educational-methodical base of the department
- 2) Development of distance learning
- 3) Improvement of funding mechanisms for academic mobility and residents, participation of residents in international events, advanced training of teaching staff in the countries of near and far abroad in clinical pharmacology

## **5. Recommendations for improving the educational programme of residency in the specialty 7R09142 - "Clinical Pharmacology" of KazNMU:**

1. Strengthening the basic training programme in clinical pharmacology to ensure effective continuity with the postgraduate residency programme in clinical pharmacology (1.3.4)
2. More active involvement of all stakeholders in the formulation of the mission and final learning outcomes of the EP in the specialty Clinical Pharmacology (1.4.2)
3. Inclusion of issues of ethics, clinical epidemiology and evidence-based medicine, scientific foundations of medicine in the training programme of residents in the specialty "Clinical Pharmacology" (2.1.8, 2.2.1)
4. Regularly review and assess the quality of the assessment methods and formats used for validity and reliability in relation to established learning outcomes and documenting (3.1.6)
5. Wider use of the possibilities of distance or other training formats to provide residents with additional training, including in certain difficult situations (2.4.4, 4.5.4)
6. Active involvement of graduated teaching staff of the department, having the first and highest qualification category in clinical pharmacology for the training of residents (5.1.1, 5.1.3)
7. Support and further professional development of teaching staff both in the near and far abroad, inviting visiting professors in the specialty "Clinical Pharmacology" (5.2.4)
8. Further equipping of classrooms at clinical sites with computer technology for residents studying in clinical pharmacology (6.1.2)
9. Actively conducting scientific research in education (6.6.3) and providing wide access to research laboratories of the university for residents to conduct scientific research in the field of clinical pharmacology (6.5.4)
10. Active expansion of academic mobility programmes for residents studying in the specialty "Clinical Pharmacology" (6.7.1), international cooperation and exchange of teachers and residents in clinical pharmacology (6.7.3, 6.7.4)
11. Active involvement of residents and employers in the evaluation of the educational programme in the specialty "Clinical Pharmacology" (7.2.2)



12. Regular assessment of the educational programme in clinical pharmacology based on feedback from residents and employers to improve the quality of the programme and comply with modern medical development (7.3.2)
13. Expansion of the representation of employers and residents in the advisory bodies of the university on residency (7.4.1)

### 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 7R09142 - "Clinical Pharmacology" 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 7R09142 - "Clinical Pharmacology"  
KazNMU**

Standard	Evaluation criteria  Number of standards = BS*/SU	Evaluation			
		Fully complies	significantly complies	Partially corresponds	Does not match
1.	MISSION AND OUTCOMES 17 = 10/7	13	4		
2.	EDUCATIONAL PROGRAMME 31 = 22/9	26	5		
3.	ASSESSMENT OF TRAINEES 11 = 7/4	9	2		
4.	TRAINEES 30 = 18/12	27	3		
5.	TRAINERS 7 = 5/2	4	3		
6.	EDUCATIONAL RESOURCES 21 = 10/11	15	6		
7.	PROGRAMME EVALUATION 15 = 10/5	5	10		
8.	GOVERNANCE AND ADMINISTRATION 15 = 8/7	9	6		
9.	CONTINUOUS RENEWAL 4 = 1/3	2	2		
	Totally: 151 = 91/60	110	41		
		151			

\* BS - the basic standard must be fulfilled by each medical educational organization, and the fulfilment must be demonstrated during an external assessment of the medical educational and scientific organization.

## Appendix 2

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

N o.	Names of documents	amount	Date of approval
1.	Educational programme (Russian kaz)	2	08/24/2020
2.	EP reviews	2	
3.	List of residents and their curators	1	
4.	Training bases	1	09/01/2020
5.	Syllables	19	08/19/2020
6.	SOP, DMS, Checklists	2	08/29/2020
7.	Employee qualifications	7	
8.	Mentoring clause	1	
9.	Methodological security map	1	09/01/2020
10.	Teaching staff certificates in pedagogy	7	
11.	Control and measuring equipment		
12.	Monitoring tasks	100	09/01/2020
13.	Tests for midterm control	100	09/01/2020
14.	Final control tests	200	09/01/2020
15.	Intermediate certification tests	600	09/01/2020
16.	List of mentors	1	09/01/2020
17.	EP Residency Self-Assessment Report	1	08/15/2020
18.	Individual teacher plan	7	09/01/2020
19.	Department regulations, job descriptions	1	
20.	Calendar-thematic plan and schedule	15/2	08/14/2020
21.	Resident questionnaires (2 years of study)	1	07/27/2020

**Quality profile and external evaluation criteria (summary)  
of educational programme in the specialty of residency  
7R09136 - "General Surgery" KazNMU**

Standard	Evaluation criteria  Number of standards = BS*/SU	Evaluation			
		Fully complies	Largely compliant	Partially compliant	Fully complies
1.	<b>MISSION AND OUTCOMES</b> 17 = 10/7	9/5	1/1	0/1	
2.	<b>EDUCATIONAL PROGRAMME</b> 31 = 22/9	20/7	2/2		
3.	<b>ASSESSMENT OF TRAINEES</b> 11 = 7/4	5/4	2/0		
4.	<b>TRAINEES</b> 30 = 18/12	18/12			
5.	<b>TRAINERS</b> 7 = 5/2	5/1	0/1		
6.	<b>EDUCATIONAL RESOURCES</b> 21 = 10/11	10/9	0/1	0/1	
7.	<b>PROGRAMME EVALUATION</b> 15 = 10/5	10/5			
8.	<b>GOVERNANCE AND ADMINISTRATION</b> 15 = 8/7	8/7			
9	<b>CONTINIOUS RENEWAL</b> 4 = 1/3	1/3			
	<b>Total: 151 = 91/60</b>	<b>86/53</b>			

\* BS - the basic standard must be fulfilled by each medical educational organization, and the fulfilment must be demonstrated during an external assessment of the medical educational and scientific organization.



## Appendix 2.

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

No	Names of documents	amount	Date approved
4.	Educational programme specialties	1	26.05.2020
5.	Syllabuses by specialty	6	28.08.2020
6.	Individual curricula of residents	5	28.08.2020
7.	Resident portfolio	5	28.08.2020
8.	Internal reviews of the EP	3	10.06.2020
9.	External reviews for EP	3	10.06.2020
10.	Rules for admission to residency	1	15.07.20
11.	EP reviews	2	
2.	List of residents and their curators	1	
3.	Training bases	1	01.09.2020
4.	SOP, DMS, Checklists	2	29.08.2020
5.	Employee qualifications	7	
6.	Mentoring clause	1	
7.	Methodological security map	1	01.09.2020
8.	Teaching staff certificates in pedagogy	7	
9.	Control and measuring equipment		
10.	Monitoring tasks	100	01.09.2020
11.	Tests for midterm control	100	01.09.2020
12.	Final control tests	200	01.09.2020
13.	Intermediate certification tests	600	01.09.2020
14.	List of mentors	1	01.09.2020
15.	Individual teacher plan	7	01.09.2020
16.	Department regulations, job descriptions	1	
17.	Calendar-thematic plan and schedule	15/2	14.08.2020
18.	Resident questionnaires (1 year of study)	1	