

To the Accreditation Council of the Eurasian  
Centre for Accreditation and  
Quality Assurance in Education and  
Health Care  
06/20/2024

**REPORT  
OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF THE  
EVALUATION OF THE EDUCATIONAL PROGRAM OF RESIDENCY  
7R01120 "NEUROSURGERY FOR ADULTS, CHILDREN" OF NJSC  
"ASTANA MEDICAL UNIVERSITY" FOR COMPLIANCE WITH THE  
ACCREDITATION STANDARDS FOR THE EDUCATIONAL PROGRAM OF  
RESIDENCY OF THE ECAQA**

**period of external expert evaluation: 06/03-06/05/2024**

**Astana 2024**

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## LIST OF DESIGNATIONS AND ABBREVIATIONS

<b>Abbreviation</b>	<b>Designation</b>
ECAQA	Eurasian Centre for Accreditation and Quality Assurance in Education and Health Care
WFME	World Federation for Medical Education
MSHE RK	Ministry of Science and Higher Education of the Republic of Kazakhstan
NJSC	Non-profit joint-stock company
AMU	Astana Medical University
CIME	Continuous integrated medical education
QAC	Quality Assurance Committee
LSI	Laws and Statutory Instruments
Academic staff	Academic staff
EP	Educational program
GED	General education disciplines
BD	Basic disciplines
MD	Major disciplines
CIS	Control and measuring tools

## 1. Composition of the External Expert Commission

In accordance with the order of the ECAQA No. 19 dated 21.05.2024, the External Expert Commission (hereinafter referred to as the EEC) was formed to conduct an external evaluation in the period from 03 to 05 June 2024 within the framework of the accreditation of the educational program "7R01120 Neurosurgery for adults, children" in the following composition:

<b>№</b>	<b>Status in the EEC</b>	<b>Full name</b>	<b>Regalia, position, place of work/place of study, year, specialty</b>
1	Chairman	Bozhbanbaeva Nishangul Seitbekovna	Doctor of Medical Sciences, Head of the Department of Neonatology of the National Joint-Stock Company "Kazakh National Medical University named after S.D. Asfendiyarov"
2	International expert	Trchunyan Karen Armenovich	PhD, DSc, Director of the Research Institute of Biology, Professor of the Department of Biochemistry, Microbiology and Biotechnology of Yerevan State University. "Academy" Prize in the field of biology for young scientists.
3	National academic expert	Tukbekova Bibigul Toleubaevna	Doctor of Medical Sciences, Professor, Head of the Department of Paediatrics and Neonatology, NJSC "Medical University of Karaganda"
4	Kazakhstani academic expert	Sultanova Gulnar Dostanovna	Candidate of Medical Sciences, Dean of the Faculties of Dentistry, Pharmacy, Public Health and Nursing NJSC "West Kazakhstan Medical University named after Marat Ospanov"
5	Kazakhstani academic expert	Trynkin Alexey Viktorovich	Candidate of Medical Sciences, Senior Lecturer of the Department of Surgical Diseases with a Course in Anesthesiology and Resuscitation NEI "Kazakh-Russian Medical University"
6	Kazakhstani academic expert	Ramazanova Manshuk Anerovna	Senior Lecturer of the Department of Public Health and Healthcare, NJSC "Kazakh National Medical University named after S.D.Asfendiyarov"
7	Expert-employer	Kulmaganbetov Serik Aueskhanovich	Director of the MSI "Polyclinics 4 of Karaganda" Healthcare Department of the Karaganda Region
8	Expert-student	Tauekelova Medina Korganbekovna	Intern in the specialty "General Medicine" of the NJSC "Medical University of Karaganda"

The work of the EEC was carried out in accordance with the Regulation on the EEC.

The EEC report includes a description of the results and the conclusion of the external evaluation of the educational program 7R01120 "Neurosurgery for adults, children" for compliance with the Standards for accreditation of Postgraduate Education Programs (Residency Specialties) of Medical Education Organizations and conclusions (hereinafter referred to as the Accreditation Standards), recommendations of the EEC for further improvement of approaches and conditions for the

implementation of the above-mentioned educational program and recommendations for the ECAQA Accreditation Council for Accreditation.

## 2. General part of the final report

### 2.1 Presentation of the educational program "7R01120 Neurosurgery for adults, children" of the Astana Medical University

Name of the organization, legal form of ownership, BIN	Non-profit Joint Stock Company "Astana Medical University"
Management body	Ministry of Health of the Republic of Kazakhstan
Full name of the first director	Nadyrov Kamalzhan Talgatovich
Date of establishment	
Location and contact details	Republic of Kazakhstan, 010000, Astana, Beibitshilik St., 49A Phone: +7(7172)539424 E-mail: <a href="mailto:rektorat@amu.kz">rektorat@amu.kz</a> Official website: <a href="https://amu.edu.kz/">https://amu.edu.kz/</a>
State license for educational activities in residency (date, number)	Current license Valid.lic.NKZ93LAA00014823, 19.03.2019. Certification period 27.05.21-26.05.24, issue date - 28.01.2022. Reg.N AB 3499\1
Year of commencement of the implementation of the accredited educational program	2022
Duration of training	4 years
Number of residents in the EP since the beginning of the current year	11
Employment	No graduations
Full-time teachers/ Part-time workers involved in the implementation of the EP, incl. % of sedateness	Total teachers 15, including 5 full-time, 10 part-time. Sedateness- 80%.
Website	<a href="https://amu.edu.kz/">https://amu.edu.kz/</a>
Instagram	<a href="https://www.instagram.com/amu_mua_official/?igsh=MWR4NTNuY2NqdTg1Zg%3D%3D">https://www.instagram.com/amu_mua_official/?igsh=MWR4NTNuY2NqdTg1Zg%3D%3D</a>
Facebook with active pages	<a href="https://www.facebook.com/photo.php?fbid=362692869190861&amp;set=a.362692829190865&amp;type=3">https://www.facebook.com/photo.php?fbid=362692869190861&amp;set=a.362692829190865&amp;type=3</a>

### 2.2 Information about the previous accreditation

The previous specialized accreditation is valid from 05/27/2021 to 05/26/2024

### **2.3 Brief description of the self-assessment report of the educational program "7R01120 Neurosurgery for adults, children" and conclusions on completion**

The self-assessment report of the educational program "7R01120 Neurosurgery for adults, children" (hereinafter referred to as the report) is presented on 152 pages of the main text, 19 pages of annexes, 88 documents located at the link <https://drive.google.com/drive/folders/1L4zk6LDYG4iEzZFwwkHSRFB66-2y1A0J?hl=ru>.

The report is characterized by completeness of answers to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for conducting self-assessment of the educational program, which were provided to the educational organization by the accreditation centre - ECAQA, as well as internal unity of information. Attached to the report is a cover letter signed by the head - Koikov Vitaly Viktorovich, Doctor of Medical Sciences, Vice-Rector for Research at NJSC "AMU", which confirms the reliability of the quantitative information and data included in the self-assessment report.

The report contains a list of 15 members of the internal self-assessment commission indicating the responsibility of each employee, information about the representative of the program responsible for conducting self-assessment of the educational program - M.A. Gazaliev, Vice-Rector for Clinical Affairs. Self-assessment of the educational program "7R01120 Neurosurgery for adults, children" of NJSC "Astana Medical University" was conducted on the basis of order No. 453-n/k dated 13.05.2024 "On the self-assessment of the educational residency program "7R01120 Neurosurgery for adults, children"

All sections of the report provide the actual practice of NJSC "Astana Medical University" in training residents under the program 7R01120 "Neurosurgery for adults, children", taking into account the start of admission of students in 2022, substantiated data, examples of the implementation of the objectives of the educational program, national and international events, methodological support, confirming compliance with the requirements of accreditation standards. The description in the self-assessment report is quite complete and updated in terms of the number of residents, teachers, administration, information on selection and admission, training results, knowledge and skills assessment results, the material and technical base of the university and clinical sites, contractual obligations with partners (associations, bases), financial information, development and improvement plans, etc.

The report was submitted to the ECAQA in a completed form, with data adjustments based on recommendations, written in a competent language, the wording for each standard is clear and understandable and described in accordance with the criteria of the standards, the tables contain references in the text and have continuous numbering.

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

### **3. Description of the external expert evaluation**

The external expert work within the framework of the evaluation of the educational program "7R01120 Neurosurgery for adults, children" was organized in accordance with the Guidelines for the external evaluation of educational organizations and educational programs of the ECAQA and according to the program approved in 2024 by the General Director of the ECAQA Sarsenbaeva S.S. and agreed with the Vice-Rector of the NJSC "AMU" Koikov V.V. Dates of the visit to the organization: June 03-05, 2024.

The external evaluation is aimed at validating the data of the self-assessment report and verifying the indicators indicating the degree of compliance with the criteria of accreditation standards.

The sequence of the visit over 3 days is presented in detail in the Visit Program (hereinafter referred to as the program), which is in the documentation of the accreditation centre and in Annex 3

to this report. The program is evidence of the implementation of all planned activities within the framework of the external expert evaluation.

To obtain objective information, the members of the EEC used the following methods and their results:

- interviews with management and administrative staff - 19 people in total;
- interviews with residents - 11 people in total.
- website study - <https://amu.edu.kz/>
- interviews with 15 employees working with neurosurgical residents.
- surveys of 15 teachers and 11 students;
- observation of resident training: at the time of the visit to the clinical sites, there were 9 residents in training;
- review of resources in the context of fulfilling accreditation standards: 2 clinical training bases were visited, including Multidisciplinary City Hospital No. 3, the emergency neurosurgery department with the participation of 3 full-time teachers and 6 part-time workers of the department of surgical diseases, geriatric surgery and neurosurgery, NSMC of traumatology and neurosurgery named after academician N.Zh. Batpenov, the spinal injury department with the participation of 2 full-time teachers and 3 part-time workers
- study of 12 educational and methodological documents both before the visit to the organization and during the visit to the departments (the list of documents studied is in Annex 2).

The staff of the accredited organization ensured the presence of all persons specified in the visit program and in the lists of interview sites and conversations (Table 1).

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

<b>№</b>	<b>Full name</b>	<b>Position</b>
1.	Koikov Vitaly Viktorovich	Vice-Rector for Research
2.	Zhunusova Aigul Bitimbaevna	Vice-Rector for Academic Affairs
3.	Gazaliev Meruert Arystanovna	Vice-Rector for Clinical Affairs
4.	Maradzhapov Bakhtier Irkinovich	Financial Director
5.	Ties Ardak Siezbekovich	Managing Director
6.	Kulzhanova Sholpan Adylgazyevna	Chairman of the Quality Assurance Committee of the EP "6B10123 Medicine"
7.	Muldakhmetov Meiram Seitzhanovich	Chairman of the Quality Assurance Committee of the EP "Paediatrics"
8.	Yeslyamgazieva Ardak Manatovna	Chairman of the Quality Assurance Committee of the EP "Dentistry"
9.	Turgambaeva Asiya Kairbaevna	Chairman of the Quality Assurance Committee of the EP "Public Health and Management"
10.	Musina Ayman Ayashevna	Deputy Chairman of the Quality Assurance Committee of the EP "Public Health and Management"
7.	Dosanova Asem Kalelovna	Head of the Centre for Planning and Development of Academic Affairs
8.	Sariyeva Ainur Anuarovna	Dean of the School of Medicine
9.	Karibzhanov Aitbek Anuarbekovich	Dean of the School of Paediatrics
10.	Detochkina Violetta Robertovna	Dean of the School of Dentistry
11.	Baimagambetova Aigerim Askarovna	Dean of the School of Public Health and Management
12.	Zhilkibaeva Karlygash Tulegenovna	Head of the Admissions Committee

13.	Makhanbaeva Nurgul Nurlanovna	Executive Director
14.	Bekova Maral Zhanatovna	Head of the HR Department
15.	Zikenov Igor Irsainovich	Deputy Head of HR Department
16.	Mukhamedyarova Aigerim Bauyrzhanovna	Head of the Centre for Transfer of Educational Technologies
17.	Saurbaeva Gaukhar Kayratovna	Head of the Simulation Centre
18.	Tleshova Nurgul Serikovna	Head of the Office Registrar
19.	Yesirkepova Gulmira Zharylkapkyzy	Director of the Library
20.	Khusainova Sholpan Kabykenovna	Head of the Museum
21.	Smagulova Aliya Kurmanbekovna	Head of the Department of Internal Medicine with a Course in Geriatrics
22.	Fursov Alexander Borisovich	Head of the Department of Surgical Diseases, Geriatrics and Neurosurgery
23.	Saidangazin Dias Dauletbekovich	Vice-Rector for Social and Educational Work
24.	Shaimerdenova Zauresh Nakypovna	Head of the Centre for Social and Educational Work
25.	Karshalova Zarina Baurzhanovna	Center for Service of Students and Employees
26.	Shaimerdenova Zauresh Nakypovna	Dormitory Employee
27.	Nazhimov Shahrukh Mahammadovich	Acting Head of the Educational Process Quality Audit Group
28.	Mukashev Aslan Dauletkhanovich	Head of the Department of IT Infrastructure and Information Systems Administration
29.	Zhenis Asygat Amankeldiuly	Acting Head of the Information and Analytical Centre
30.	Asylaeva Kadisha Kuspekovna	Employee of the Quality Assurance Centre
31.	Kasnova Saltanat Sapargeldievna	Employee of the International Cooperation Centre
32.	Dyusenbaev N. N.	Associate Professor of the Department of Surgical Diseases, Geriatrics and Neurosurgery
33.	Baydarbekov M.U.	Senior Lecturer of the Department of Surgical Diseases, Geriatrics and Neurosurgery
34.	Kahar Nurlan Samatuly	Resident-Neurosurgeon 1st year
35.	Nurmakhan Nurtore Nurmakhanuly	Resident-Neurosurgeon 1st year
36.	Onaibaev Akniet Daurenbekuly	Resident-Neurosurgeon 1st year
37.	Kanatkyzy Aileen	Resident-Neurosurgeon 1st year
38.	Makhsutkhan Perizat Nurlankyzy	Resident-Neurosurgeon 1st year
39.	Kodirkulov Shoimakhon Rohimberdyuly	Resident-Neurosurgeon 2nd year
40.	Abdykadyr Serik Abubakiruly	Resident-Neurosurgeon 2nd year
41.	Abisheva Aliya Ilyaskyzy	Resident-Neurosurgeon 2nd year
42.	Abdurakhmanov Zhalgaz Gaharmanuly	Resident-Neurosurgeon 2nd year
43.	Rashidova Zhanar	Resident-Neurosurgeon 2nd year
44.	Mazhenov Isatay Konysuly	Resident-Neurosurgeon 3rd year
45.	Orazalinov Azamat Zhanabylovich	Head of Elective Surgery (employer), MSE on the REM "Multidisciplinary city children's hospital 3"



46.		
47.	Umralin Timur Bolatovich	Head of the Department of Development of Medical science, National Scientific Centre for Healthcare Development named after Salidat Kairbekova
48.	Batpen Arman Nurlanuly	Deputy Director for Research and Strategy, NSCTO named after Academician N.D. Batpenov, RSE on the REM "National Scientific Centre of Traumatology and Orthopaedics named after Academician N.D. Batpenov" of the Ministry of Health of the Republic of Kazakhstan
49.	Baidarbekov Murat Umirkhanovich	Head of the Traumatology Department No. 1, NSCTO named after Academician N.D. Batpenov (employer), RSE on the REM "National Scientific Centre of Traumatology and Orthopaedics named after Academician N.D. Batpenov" of the Ministry of Health of the Republic of Kazakhstan
50.	Asilbekov Ulykbek Yesenovich	Deputy Chief Physician of MCH No. 3 for Surgery (employer), <u>MSE on the REM "Multidisciplinary City Hospital No. 3"</u> of the Akimat of Astana

On the last day of the visit to the organization, a meeting of the EEC members was held on the results of the external evaluation. A final discussion of the results of the external evaluation of the educational program, examination of documents, interview results, and questionnaires was held. The EEC members began to draft the final report of the EEC. Generalizations of the external evaluation results were made. The experts individually filled out the "Quality Profile and Criteria for External Evaluation of the Educational Program "7R01120 Neurosurgery for Adults, Children" for Compliance with the ECAQA Accreditation Standards." The EEC members did not make any comments. Recommendations for improving the educational program were discussed and the chairperson, N.S. Bozhbanbaeva, held a final open vote on the recommendations for the ECAQA Accreditation Council for the accreditation period of 5 years.

Comfortable conditions were created for the work of the EEC; access to all necessary information and material resources was organized. The Commission notes the high level of the University's corporate culture, the high degree of openness of the team in providing information to the ECAQA members. While conducting a survey of residents, 98% rated the work of the External Expert Commission for Accreditation as positive, 2% as satisfactory. All respondents (100%) believe that it is necessary to conduct accreditation of educational programs.

According to 96% of teachers, the survey conducted by the ECAQA is useful for developing recommendations for improving key areas of activity of the accredited educational program.

At the end of the visit, the chairman of the EEC announced recommendations for the management and employees of the educational organization based on the results of the external evaluation as part of the specialized accreditation.

### **3. Analysis of compliance with accreditation standards based on the results of external evaluation of the educational program "7R01120 Neurosurgery for Adults, Children"**

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

### **1.1 Mission statement**

During the implementation of the activities of the visit program, based on the results of interviews with members of the Board of Directors of NJSC "Astana Medical University", interviews with residents and teachers, compliance with the criteria of **Standard 1** was established. Participants in the educational process are familiar with the mission of the educational program, took part in formulating the mission. At the same time, the mission was communicated to potential residents through the website, social networks, and information letters to medical organizations. The strategic plan of the residency program for the period 2022-2026 was reviewed, including such areas as training competitive and professionally competent neurosurgeons integrated into science, functioning on the basis of the trinity of education, science and practice, which confirms the fulfilment of the accreditation standard and demonstrates the goals, objectives and prospects of this educational program. From interviews with residents, it was established that before the start of classes, teachers inform them about the mission of the educational program (EP), work plans, and tell them where to get additional information about the educational program, training bases. During the visit to the departments, the experts noted the strengths of the accredited educational program, including: the presence of a documented procedure for the development and monitoring of the educational program SU-MU-15-22 "Educational Programs: Development, Update and Evaluation", direct participation of employers and students in the implementation of the EP at the stage of forming the Mission of the program and the final results, clearly and accurately formulated final learning outcomes, which indicates the achievement of the mission and goal; the system of support for students and the development of creative learning abilities is one of the important strategic directions.

The policy of the EP is clearly defined - training of a resident neurosurgeon that has modern theoretical knowledge about the etiology and pathogenesis of neurosurgical diseases, teaching communication skills, practical skills for conducting diagnostic, therapeutic measures, surgical interventions. Particular importance is given to teaching the principles of management and organization of work, documentation and clinical analysis.

Particular importance is given to appropriate working conditions to support the residents' own health. There is free access to medical care at the "Medical Centre of the AMU". Support for health and psychological well-being is created by an optimized schedule of classes.

It is especially gratifying that there is a well-developed system of spiritual and material incentives in the residents' desire for academic development and improvement of scientific research

### **1.2. Professionalism and professional autonomy**

The main goal of the program is to train an independent and highly professional neurosurgeon. To achieve this goal, a systematic and individual approach to each resident is used, including surveys, analysis of results, individual consultations and the involvement of experienced mentors.

The results of the documentation study allowed us to conclude that the mission of the educational program reflects the training of sought-after and professionally trained specialists in the field of neurosurgery, including the scientific aspect of training, and the educational process is built in accordance with the State Compulsory Educational Standard and current Laws and Statutory Instruments (LSI) in healthcare.

All of the above activities reflect the autonomy of the development of residents in accordance with regulatory acts. Medical organizations involved in the training of neurosurgical residents guarantee them complete academic freedom, including freedom of expression, requests and publication. All of these data were confirmed during the survey of 11 residents.

### **1.3. Final learning outcomes**

The final learning outcomes are clearly defined. They consist of achieving knowledge, skills and thinking obtained as a result of training, future career, commitment to lifelong learning, needs and problems of public health, healthcare needs, professional behaviour, appropriate behaviour towards patients and their relatives, colleagues, teachers, other doctors. Continuity between the final learning

outcomes of the basic medical education and residency programs and subsequent continuing professional education programs is guaranteed.

#### **1.4. Participation in formulating the mission and final outcomes**

In order to monitor the quality of work and implement the necessary improvements, the AMU has developed the Feedback Monitoring System (SU-AMU-04-21), which allows obtaining information on how the EP meets the current needs of students. At the level of the Department of Neurosurgery, the external evaluation of the EP mission is carried out through peer review by external independent experts, representatives of clinical sites, the academic staff of the AMU and employers. This allows for clear integration into real working conditions and the needs of the labour market.

To verify **Standard 1**, a meeting was held with the members of the Board of the NJSC "AMU", with teachers of the EP "Neurosurgery for Adults, Children". During the conversation, the experts asked the following questions: what is the vision of the EP implementation in the context of the scientific component, what is the resource provision of the EP, does the mission of the university and the EP meets the needs of practical healthcare in the regional aspect. During the answers, confirmation was received that the necessary conditions for the implementation of the EP have been created.

While conducting a survey of 11 residents (on the resource <https://webanketa.com/>), out of 39 questions, a number were devoted to the quality of the educational process and the educational program. It was found that 89% of students would recommend studying in this educational organization to their acquaintances, friends, relatives. And 82.4% of respondents believe that the heads of the educational program and teachers are aware of the problems of students related to training. *To the question "Do you think this educational organization allows you to acquire the necessary knowledge and skills in your chosen specialty?", 92% of students answered positively, 2% are not sure, 6% could not answer this question yet.*

*15 teachers surveyed (23 questions of the questionnaire) also answered that 82% are satisfied with the organization of work and the workplace in this educational organization, and 18% partially agree with this statement. Experts determined that a healthy microclimate is quite accessible to both residents and employees. In the questionnaire, 84% of teachers are satisfied with the microclimate of the organization, and 10.5% are partially satisfied. According to 85%, the teacher has the opportunity to realize himself as a professional in his specialty. A total of 15 people answered, while teaching experience up to 5 years - 16%, up to 10 years - 34%, over 10 years - 50%*

**Conclusions of the EEC by criteria.** Comply with 14 standards: 14 in full.

### **Standard 2: EDUCATIONAL PROGRAMME**

#### **2.1 Framework parameters of the postgraduate medical education program**

Training of residents in the specialty 7R01120 "Neurosurgery for Adults, Children" is carried out in accordance with the State Compulsory Educational Standard of the Republic of Kazakhstan - 2022; Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 20.04.2011 No. 152 "On approval of the Rules for organizing the educational process using credit technology of education"; Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 12.10.2018, order No. 563 "On amendments and additions to the order of the Ministry of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 "On approval of the Rules for organizing the educational process using credit technology of education""; Model curricula of the Ministry of Health of the Republic of Kazakhstan.

In NJSC "AMU", the implementation of the educational program (EP) in the specialty 7R01120 "Neurosurgery for Adults, Children" is regulated by the regulatory documents of the University: "Strategic Directions of NJSC "Astana Medical University" for 2019-2023", SU-AMU-22 "Organization of the Educational Process Using Credit Education Technology", SU-AMU-48 "Residency Training", SU-AMU-63 "Resident Competency Model", SU-AMU-25 "Educational Process Planning", PL-AMU-13 "Regulations on Conducting Current Monitoring of Academic Performance, Midterm and End-of-course assessment of Students". These documents determine the

procedure and organization of training specialists in residency in the context of clinical specialties in clinical departments.

The purpose of residency training in the specialty 7R01120 "Neurosurgery for Adults, Children" is to prepare and provide the healthcare industry with qualified doctors who have a system of universal and professional competencies prescribed in the State Compulsory Educational Standard of the Republic of Kazakhstan-2022. Residency training is carried out taking into account the principles of continuity - an objective necessary connection between basic medical education and continuous medical education in the development process. The previous level of education of individuals wishing to master the educational programs of the residency is of paramount importance in terms of mastering the final outcomes of training in the residency.

The final outcomes of training residents in the specialty "Neurosurgery for Adults, Children" are aimed at mastering key competencies by the resident and are prescribed in the work programs approved by the QAC EP.

To achieve the final learning outcomes in the specialty 7R01120 "Neurosurgery for Adults, Children", residents acquire knowledge and master competencies in the basic, core disciplines of the compulsory component (CC) and the disciplines of the elective component (EC). For this purpose, the curriculum and residency program in the specialty 7R01120 "Neurosurgery for Adults, Children" provides for the integration of clinical, fundamental and humanitarian disciplines.

The Framework Educational Standard 7R01120 "Neurosurgery for Adults, Children" covers key aspects of the organization of the educational process. It focuses on the detailed design of learning outcomes, in-depth cooperation with organizations that will potentially become places of work for graduates of residents in the specialty "Neurosurgery for Adults, Children", modern educational methods, high-quality control over the development of curricula and highly qualified Academic staff. In addition, attention is paid to the optimal logistical support of the educational process at NJSC "AMU". Based on full-time education and following the mission of the educational institution, the EP is aimed at the current needs of the labour market and employers. While developing the residency EP 7R01120 "Neurosurgery for Adults, Children", the MEO followed a number of key principles reflecting modern educational trends in the context of the Bologna process. The key feature of the program is its competence-based approach, which emphasizes the synthesis of theoretical knowledge and practical skills. All components of the program logically follow each other, ensuring continuous and harmonious development of the resident's competencies, which are aimed at forming the necessary knowledge and practical skills in graduating residents, which ensures the consistency and transparency of training. The focus on the final learning outcomes (LO) ensures not only the transfer of knowledge, but also the achievement of specific results in the form of general and professional competencies. Upon completion of the EP, residents will not only have the necessary knowledge and skills, but will also receive official confirmation of their qualifications, which will be recognized in the medical labour market, thus the EP allows graduate residents to obtain a qualification. Compliance with the principles of the Bologna Process, the EP included consideration of such key aspects as modularity and a credit system of training, quality assessment and control, as well as the possibility of updating curricula in accordance with modern requirements and changes in medical science.

To monitor and track the progress of residents, an electronic platform is used (<https://pl.amu.kz/>), where all achievements, completed courses and certification results are recorded. All learning outcomes listed in EP 7R01120 "Neurosurgery for Adults, Children" not only reflect the level of specialist training, but also determine the design of the educational process and the choice of optimal teaching methods, ensuring the relevance and practical focus of the education received and are defined both at the level of the entire residency EP and at the level of individual academic disciplines.

The content of the educational program for the mandatory component of the curriculum implemented at NJSC "AMU" in the specialty 7R01120 "Neurosurgery for Adults, Children" strictly complies with the requirements of the State Compulsory Educational Standard of the Republic of Kazakhstan-2022.

The educational and methodological documentation at the University for the Residency Program

in the specialty 7R01120 "Neurosurgery for Adults, Children" meets the requirements of the University Standard "Development of an Educational Program". Interdisciplinary connections are clearly visible in the work programs of academic disciplines and modules, compiled taking into account the mastery of prerequisites and post requisites, as well as the specifics of the specialty.

The training is conducted in accordance with the Code of the Republic of Kazakhstan "On Public Health and the Healthcare System" dated July 7, 2020 No. 360-VI LRK; The Law of the Republic of Kazakhstan "On Education" (Article 36 "Postgraduate Education"); "On Approval of State Compulsory Standards of Higher and Postgraduate Education" (SCSE 2022) of the Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2 (MSHE of the RK); Standards of educational process for medical and pharmaceutical specialties by order of the Ministry of Health of the Republic of Kazakhstan dated 09.01.2023 No. 4 (TC); ["Rules for organizing the educational process using credit technology of education"](#), by order No. 152 dated 20.04.2011 "On Amendments and Supplements to the Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 "On Approval of the Rules for organizing the educational process using credit technology of education", by order of the Ministry of Education and Science of the Republic of Kazakhstan dated 12.10.2018 No. 563 "On Amendments to the Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 "On Approval of the Rules for organizing the educational process using credit technology of education"; "Rules for admission to the residency of NJSC "AMU" - PR-AMU-06-23, dated 07/05/2023, No. 17; "Academic Policy of NJSC "AMU" - P-AMU-17-23, approved by the decision of the University Board dated 09/29/2023, protocol No. 27; "On conducting midterm and end-of-course assessment of students at NJSC "Astana Medical University" - PL-AMU-13-21 dated 01/20/2021, No. 1.

The program presents both mandatory components and disciplines of the EC choice. In addition, the plan contains information on the procedure and criteria for the end-of-course assessment of residents

<https://drive.google.com/file/d/1YSN4XfXheoleVg7jk44Z0BLHSjL5TuPv/view>  
[https://drive.google.com/drive/folders/1R0sGXHP\\_X9lzfDCTbhGkPjimWKOG3Wf?hl=ru](https://drive.google.com/drive/folders/1R0sGXHP_X9lzfDCTbhGkPjimWKOG3Wf?hl=ru)

The working curriculum (WC) of the specialty 7R01120 "Neurosurgery for Adults, Children" is based on the basic principles of the educational program and takes into account the individual needs of residents at all stages of their training

[https://drive.google.com/drive/folders/1BXNLI09ZAHxig9aagH4ly\\_OFqotPVf5t?hl=ru](https://drive.google.com/drive/folders/1BXNLI09ZAHxig9aagH4ly_OFqotPVf5t?hl=ru)

In the 2023 TC <https://drive.google.com/file/d/1YSN4XfXheoleVg7jk44Z0BLHSjL5TuPv/view> the specific weight of the elective component is 16 credits. This means that students have the opportunity to choose the disciplines that best suit their professional and scientific interests. This decision is fixed at the level of university management by the vice-rector for clinical work [https://drive.google.com/drive/folders/1fSys8I9CzWsi6fA\\_JO1fEN2DT8mAwzv5?hl=ru](https://drive.google.com/drive/folders/1fSys8I9CzWsi6fA_JO1fEN2DT8mAwzv5?hl=ru)

The credit-modular technology implies increasing students' responsibility for the learning process.

While drawing up the learning path, the sequence of modules/disciplines is observed, taking into account the pre- and post-requisites, the content of which is aimed at achieving knowledge, skills and abilities, by providing a step-by-step approach to their study.

However, while analysing the training program, the members of the EEC found a complete absence of such an important related discipline as "Neurology", which causes some confusion, since it is this discipline that should be basic in the development of a neurosurgeon as a doctor and scientist.

A graduate who has completed the training is admitted to independent practical work as a neurosurgeon in accordance with the procedure established by law; has the right to continue further education in doctoral studies.

The program is included in the EAHE register of the Ministry of Science and Higher Education (MSHE RK).

The residency program complies with international requirements, level 7 of the national qualification framework in medical education and the Framework for Qualifications in the European

Higher Education Area.

Practical training is carried out at clinical sites through daily personal participation of a young specialist in the diagnostic process, using the principles of evidence-based medicine, both in class time and during independent work.

The department pays special attention to the independent work of a resident, which corresponds to modern approaches and the requirements of the State Compulsory Educational Standard of the Republic of Kazakhstan and qualification standards.

For the modern educational process, not only classical methods and approaches are important, but also the use of advanced technologies and resources. The clinical sites of the department are a good place for immersion in a professional environment, where theoretical knowledge is combined with practice.

In general, practice-oriented training allows residents to better adapt to the real conditions of medical practice, ensuring a higher quality of diagnostic activities after graduation.

The University systematically carries out preventive measures in the framework of compliance with the principles of academic honesty:

- 1) annually at the beginning of each academic year, students are required to be familiarized with information on compliance with academic honesty, in accordance with the Code "Code of Academic Honesty in NJSC "Astana Medical University" <https://amu.edu.kz/upload/iblock/849/849584f736fdbcb8888adf32a7c1752e6.pdf> ;
- 2) regular meetings of the rector, vice-rectors, deans of schools / faculties with students on issues of academic honesty and anti-corruption culture are held;
- 3) the residency school staff holds meetings with students to discuss issues of preventing violations of academic integrity and anti-corruption measures;
- 4) before the examination session, as well as directly on the day of the exams, students are additionally informed about the need to maintain academic integrity.

The University has successfully implemented the OES proctoring system (<https://dl.amu.kz/>), which allows for online exams using remote monitoring tools. This innovative solution ensures academic integrity when conducting exams at a distance, preventing attempts at fraud or violations. The implementation of the OES proctoring system at the University confirms the desire of the educational institution to use modern technologies that ensure the quality and integrity of the educational process.

A student-centered approach is actively used in the educational process. Elective courses are chosen by residents themselves

The University implements student-centered learning according to the following criteria:

1. Assessment of students' knowledge (systematic monitoring to improve the educational process, availability of criteria and assessment methods, assessment by several examiners, consideration of mitigating circumstances, formal appeals procedure).
2. Supporting residents' sense of autonomy (self-assessment - greater availability of samples of student research papers, Code of Academic Integrity, student participation in the development of educational programs).
3. Social dimension (the university's policy of supporting student diversity, their needs and interests).
4. Learning outcomes (implementation of a competency-based approach, procedures for recognizing informal and non-formal learning, student admission procedures).

The entire process of practical training of a resident is monitored and analysed by the mentor, thereby ensuring regular feedback and correction of the learning process. At the end of each stage of training, the resident will be assessed, which will determine the degree of his or her readiness for further practical work.

The department emphasizes the importance of professional ethics. During the training, residents are taught not only the ethics of a physician, but also of a resident, nurse, orderly, and all persons related to medicine.

The foundations of training are built on the principles of non-discrimination and equal opportunities, which creates equal opportunities for everyone to gain knowledge.

## 2.2. Scientific method

The program emphasizes the methodology of medical research, based on fundamental scientific principles. Elements of research work, such as analysis, monitoring, preparation of abstracts, reports, publications, as well as participation in scientific conferences, have become an integral part of the educational process. [https://drive.google.com/drive/folders/1zR\\_bd0LoP-aYlk2rHbu2PZ6w-LB4bdsO?hl=ru](https://drive.google.com/drive/folders/1zR_bd0LoP-aYlk2rHbu2PZ6w-LB4bdsO?hl=ru)

At the department meeting protocol No. 1 on August 30, 2023, the plan for scientific research work of residents for the 2023-2024 academic year was discussed and approved <https://drive.google.com/file/d/1zIeBSTaCcOcYEtGC7hL1xvsU9ATcSddp/view>

The program provides training in the skills of scientific research, taking into account the real needs of modern medicine, aimed at developing the skills of medical research methodology using scientific principles.

In EP 7R01120 "Neurosurgery for Adults, Children", a special place will be given to the application of the principles of evidence-based medicine. As part of the program, residents study the latest scientific achievements and developments in the field of neurosurgery.

To systematize the educational process at the University level, an academic calendar has been compiled. It specifies all key educational events, checkpoints, as well as information on the duration of academic periods, breaks, holidays and practices.

The OP in the OP "**Adult and Pediatric Neurosurgery**" is designed for 4 years of study (280 credits). The major disciplines are - 278 credits, the elective component - 16 credits, certification - 2 credits.

The basis of the program was a full academic load of 70 academic credits, which corresponds to 2100 academic hours per academic year. One academic credit is equal to 30 academic hours. This number of hours was distributed in such a way as to ensure an optimal combination of theoretical classes and practical training: 65% of the hours are devoted to independent clinical resident research work, 25% to independent work of the student, and 10% are allocated to classroom work.

To ensure the quality and relevance of training, the teaching staff and students have access to up-to-date and reliable information on regulatory documentation corresponding to the profile of the discipline being studied. Free access to the Internet provides the opportunity to follow new scientific developments, changes in legislation, and study modern methods and approaches

## 2.3 Organization of training and the relationship between postgraduate medical education and the provision of medical care

The degree of interaction and responsibility are determined, as well as the powers for the selection, organization, coordination, management and evaluation of each practice base and clinical base, which must correspond to the specialty of the residency, be accredited by medical organizations, including multidisciplinary clinics and highly specialized scientific centres.

The clinical sites of the Department of MCH№3, SCTO, NSMC, and MCH PAA RK are key sites for practical training of residents; where a collegial environment is formed in which residents have the opportunity to interact with each other, exchange experience and knowledge, and also gain access to relevant educational content. While the members of the EEC visited these sites, they noted the high involvement of residents in the treatment process, a good attitude towards them from mentors and medical personnel.

To ensure high-quality education and compliance with the current requirements of medical practice, the work plans of the CEP regularly include the task of conducting an evaluation by expert groups. These groups analyse all aspects of the EP, from content to teaching methods, and provide recommendations for their improvement. After a detailed analysis and making all the necessary changes, the EP is submitted for consideration to the Academic Council of the NJSC "AMU". The

Academic Council conducts a final review and approves the program. This stage ensures that the program meets the standards and requirements of the University and provides high quality education for students.

Thus, the strengths of Standard 2 are:

- professional level of resource support for the implementation of goals and objectives of the educational program;
- availability of educational, scientific and socio-cultural potential;
- competence approach to the development of skills and abilities;
- compliance of the educational program with the requirements of the State Compulsory Educational Standard of the Republic of Kazakhstan;
- sensitivity and flexibility of the educational program to the needs of society and the labour market with a close relationship with the practical neurosurgical service in matters of developing and implementing the EP.

. While interviewing residents, it was announced that they are familiar with the final learning outcomes of the specialty, which are reflected in the educational program posted on the website of NJSC "AMU" in the "Educational Programs" section, and the learning outcomes for the disciplines are defined in syllabuses. Syllabuses are freely available in the information system, with which students are familiarized before the start of the discipline, and teachers also inform students about the final learning outcomes before the start of the discipline.

*During the survey of teachers, 80% of teachers responded that they are completely satisfied with the level of previous training of students, and 17% are partially satisfied.*

*68% of teacher respondents believe that students of this educational institution have a high level of knowledge and practical skills after completing the training program, and 32% partially agree with this statement.*

*To the question of the survey "Is there enough time for practical training (patient supervision, etc.)", 92% of residents answered with complete agreement, 2% - partially agree, 0 - disagree. At the same time, 94% of residents claim that after the end of classes, the teacher provides feedback (listens to your opinion, conducts a mini-questionnaire, and works on mistakes).*

**Conclusions of the EEC by criteria.** Out of 22 standards, 21 are fully compliant, 1 is partially compliant, and they do not comply.

#### **Recommendations for improvement**

- 1) To introduce the cycle "Neurosurgery for Adults, Children" as a mandatory related program at the expense of the elective program (16 credits from the list of standard programs of the educational program from 09.01.23 N4). By adding another 16 credits at the expense of basic programs, it is possible to obtain a "minor" program (32 credits). In this regard, neurosurgical residents, in addition to a neurosurgery diploma, can receive a specialist neurologist certificate

### **Standard 3: ASSESSMENT OF RESIDENTS**

#### **3.1. Assessment methods**

As part of the educational process, an assessment of the educational achievements of residents is carried out, which allows us to determine the level of training and competence of residents, and also characterizes the quality of their preparation for the end of the educational process. The assessment is based on criteria developed taking into account the established goals and objectives of the EP, within the framework of a point-rating system for assessing knowledge. This process strictly complies with various directive, regulatory and internal documents, including the Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III (with subsequent amendments and additions)

([https://drive.google.com/file/d/1RDbXLz5kmwxHhJAV-nFVV\\_ZoeWPtgdQ9/view?usp=drive\\_link](https://drive.google.com/file/d/1RDbXLz5kmwxHhJAV-nFVV_ZoeWPtgdQ9/view?usp=drive_link)); Order of the Ministry of Health of the Republic of Kazakhstan dated 04.07.2022 No. RK MOH-63 "On approval of state mandatory standards for levels



of education in the field of healthcare"; ([https://drive.google.com/file/d/1aUm1cJ90QjcB20VHuXyBWCRsoVwOERCC/view?usp=drive\\_link](https://drive.google.com/file/d/1aUm1cJ90QjcB20VHuXyBWCRsoVwOERCC/view?usp=drive_link)); Order of the Ministry of Health of the Republic of Kazakhstan dated 9.01. 2023 No. 4 "On approval of standard curricula for medical and pharmaceutical specialties" ([https://drive.google.com/file/d/1Uu444T6sSdMzhjkpFocvQ4PvLXal9qsx/view?usp=drive\\_link](https://drive.google.com/file/d/1Uu444T6sSdMzhjkpFocvQ4PvLXal9qsx/view?usp=drive_link)), Order of the Ministry of Health of the Republic of Kazakhstan dated 04.20. 2011 No. 152 "On approval of the Rules for organizing the educational process using credit technology for training in organizations of higher and (or) postgraduate education" ([https://drive.google.com/file/d/1Tz7k1DyQihIEJ0IGLZf4E2zo2CG9fUWj/view?usp=drive\\_link](https://drive.google.com/file/d/1Tz7k1DyQihIEJ0IGLZf4E2zo2CG9fUWj/view?usp=drive_link)), which concerns the approval of standards and programs in medical and pharmaceutical specialties and the organization of the educational process. As for the assessment policy and methods, they are reviewed and approved at specialized meetings, such as meetings of the residency program quality committee

The assessment process, including the selection of mandatory courses for end-of-course assessment, is based on syllabuses and completed courses. Responsibility for implementing the policy and the quality assessment of residents' academic achievements lies with the faculty, the head of the department, the Residency School, and the registrar's office.

Residents' academic achievements (knowledge, abilities, skills, and competencies) are assessed in points on a 100-point scale, corresponding to the letter system accepted in international practice (positive grades, in descending order, from "A" to "D", "unsatisfactory" - "F") with a corresponding digital equivalent on a 4-point scale

The forms of current control are displayed in syllabuses. Electronic versions of syllabuses are distributed to residents in all specialties. Information on the point-rating system of assessment is posted on the website [www.amu.kz](http://www.amu.kz). Control and measuring tools are developed for all topics of the curriculum, have a laconic wording, essential content and thematic feature:

The University uses additional methods of assessing residents in the specialty 7R01120 "Neurosurgery for Adults, Children", such as a portfolio, assessment of the IWR, assessment of scientific activity. Assessment methods are implemented by the department and are reflected in the syllabuses approved at a meeting of the department.

During the entire period of study, the resident forms a portfolio on the electronic platform "Platonus", which corresponds to the final goals of the program and contains information on achievements during the period of study in residency. The IWR contains tasks that require the resident to do daily independent work, forming a student's portfolio, and is the basis for assessing the "self-development" competence.

The forms of control and assessment of this competence are determined by the department and approved at the meeting. The forms of conducting the IWR are varied (presentations, preparation of autopsy reports, analysis of the results of pathomorphological examination, etc.). The resident's report reflects the discipline and training periods according to the individual plan, in which department of the medical organization the training took place.

The midterm certification is determined by the academic calendar, curriculum and relevant EPs created on the basis of state educational standards. The end-of-course assessment for each discipline pursues the goal of assessing the final LOs of the resident. These results are predetermined and described in the discipline syllabus.

The end-of-course assessment of residents is based on the standards and EPs corresponding to a specific residency specialty "Neurosurgery for Adults, Children". All conditions for the end-of-course assessment are described in EP 7R01120 "Neurosurgery for Adults, Children" in the section "Final Certification of Graduates"

<https://drive.google.com/file/d/1YSN4XfXheoleVg7jk44Z0BLHSjL5TuPv/view>  
[https://drive.google.com/drive/folders/1\\_R0sGXHP\\_X9lzfDCTbhGkPjmwKOG3Wf?hl=ru](https://drive.google.com/drive/folders/1_R0sGXHP_X9lzfDCTbhGkPjmwKOG3Wf?hl=ru).

Every year, external examiners from practical healthcare are introduced to the examination committees to participate in the work of the end-of-course assessment, whose recommendations will

be taken into account in the future to make changes to the EP in accordance with the needs of practical healthcare.

Residents who have completed the educational process in accordance with the requirements of the individual curriculum are admitted to the midterm and end-of-course assessment. A resident is considered admitted to the exam in a discipline if his/her admission rating (semester grade) is greater than or equal to 50 points.

The end-of-course assessment includes 2 stages: assessment of the resident's knowledge and theoretical training and assessment of the level of mastery of practical skills. The assessment is carried out according to the developed checklists.

[https://drive.google.com/drive/folders/1FRFqSSuxCBBGwAY\\_lo9JvSNllm\\_GsDbB?hl=ru](https://drive.google.com/drive/folders/1FRFqSSuxCBBGwAY_lo9JvSNllm_GsDbB?hl=ru)

To ensure the objectivity and professionalism of the end-of-course assessment of residents, a state certification commission is created (SCC). Upon completion of residency training and successful passing of the Final State Certification, graduates are awarded a doctor in the specialty "Neurosurgery for Adults, Children" and are issued a state-issued identification document.

If a resident disagrees with the results of the final control rating, end-of-course assessment in the discipline, he has the right to file an appeal in the name of the chairman of the appeal commission. To conduct an appeal, an appeal commission is created by order of the head of the university from among experienced teachers whose qualifications correspond to the profile of the specialty, which is presented in the EP in 7R01120 "Neurosurgery for Adults, Children" in section 7. "Final Certification graduates"

[https://drive.google.com/drive/folders/1\\_R0sGXHP\\_X9lzfDCTbhGkPjimWKOG3Wf?hl=ru](https://drive.google.com/drive/folders/1_R0sGXHP_X9lzfDCTbhGkPjimWKOG3Wf?hl=ru)

Retaking a positive grade on the final assessment in order to improve it during the same period of midterm assessment is not permitted.

According to the Academic Policy and the Regulation "On conducting midterm and end-of-course assessment of students at the NJSC "Astana Medical University"" PL-AMU-13-21

<https://amu.edu.kz/upload/iblock/170/1707a9e415bc9be3994a21314d650f1c.pdf> the forms of conducting classes and MC for students are developed by the department taking into account the specifics of the discipline and prescribed in the syllabus. The procedure for planning, organizing, monitoring and analysing assessment methods in an educational institution includes a regular analysis of the reliability of tests and other tasks. This is specified in the University Standard "Organization of Examination by Testing Method" SU-AMU-17-15

<https://amu.edu.kz/upload/iblock/a1e/a1edcf130c1ec7d37c7122599665a63d.pdf> .

The assessment method is selected based on the learning outcomes defined in the syllabus. Test assignments, a list of practical and communication skills, are developed by departments in accordance with the EP in the discipline

To control the quality of knowledge of residents, a survey is also conducted after the exams. Responses to the questionnaires allow us to analyse the level of satisfaction of residents and identify possible shortcomings in the educational process.

The possibility of appealing the results of the midterm and final assessment of residents is defined in the "Academic Policy" P-AMU-17-23 approved by the decision of the Board No. 35 with amendments and additions dated December 08, 2023

<https://amu.edu.kz/upload/iblock/b69/b69b044bb38b1675685e53048d4f2a33.pdf>, which sets out the procedure for filing an appeal.

If a resident disagrees with the results of the end-of-course assessment, no later than 12:00 on the next working day, he/she submits an appeal to the dean of the residency school.

The appeal is considered only if the student indicates in the application that the question is incorrect or does not correspond to the learning objectives.

The Registrar's Office forms an appeal committee and prepares all necessary documents (application, examination sheets or statements with the results of the summative exam, as well as appeal statements) by the date of the appeal.

During the meeting of the appeal committee, the contents of the checklists, student response sheets (if any) are reviewed, and each point specified in the appeal statement is analysed.

The committee makes a decision collectively. At the end of the work of the appeal committee, the responsible secretary draws up the minutes of the appeal committee meeting, indicating the number of applications reviewed and the decisions made on each. The student who filed the appeal statement is informed of the decision of the appeal committee within the next working day.

External examiners participate in the comprehensive exam (Final State Certification). The Final State Certification is accepted by the State Certification Committee by order of the Chairman of the Board - Rector. A specialist in practical health care with an academic or scientific degree is appointed as the Chairman of the State Attestation Commission of the residency. The Chairman of the Final State Certification is approved by the order of the Ministry of Education and Science of the Republic of Kazakhstan no later than December 20 of the current academic year. Representatives from practical healthcare are invited to assess the practical skills acquired by students during their residency training. Members of the commission for the acceptance of practical skills are approved by the order of the Chairman of the Board - Rector of the University based on the lists submitted by the departments.

A clearly developed appeal system is in place.

External examiners are involved in assessing the final learning outcomes as part of the final state certification. Thus, colleagues from other medical universities are invited as chairmen of the FSC, and their candidacies are nominated by the graduating department.

As part of the modernization of the educational process and improvement of the quality of knowledge control of students, the Department of Neurosurgery has implemented an electronic educational journal system through the automated control systems (AIS) "Platonus" in the "Academic Progress Journal" module (<https://pl.amu.kz/>). This tool provides effective accounting and monitoring of students' academic performance in real time.

#### Key points of the system:

Filling in the electronic academic journal: teachers fill in the electronic journal in accordance with the calendar-subject plan and the dates of the midterm and final assessments, which are reflected in the syllabus.

Roles and functions of the registrar's office: the registrar's office not only records the history of the student's academic achievements, but also plays a key role in organizing all types of knowledge control and calculating the academic rating.

Registration Methodology: the entire methodology for registering learning outcomes is described in the document "Academic Policy", which is also available on the University website for review by all interested parties.

Assessment of the admission rating: the assessment of the admission rating for the final assessment (examination) is critical. It is based on a formula that takes into account the results of the midterm assessment.

Letter and digital assessment systems: the University uses a letter assessment system that corresponds to the digital equivalent of a four-point system.

Automatic rating calculation: the entire process of calculating and calculating the admission rating for the exam is automated, which eliminates the possibility of error.

work synchronously, quickly responding to any changes or problems in the learning process.

### **3.2. The relationship between assessment and learning**

Continuous assessment forms a holistic understanding of the discipline in residents, and also allows for a deeper understanding of the importance of each element of learning from the perspective of future professional activity.

Immediately after admission to the residency, each student undergoes an introductory questionnaire to assess the learning conditions in the clinical environment, where the so-called "mutual expectations list" is formed. This is a key document that defines the main expectations and goals of both the resident and the Academic staff.

The strengths of Standard 3 are:

- ensuring continuous monitoring of the quality of students' knowledge in EP 7R01120 "Neurosurgery for Adults, Children";

- active involvement of stakeholders in monitoring the assessment of EP 7R01120 "Neurosurgery for Adults, Children";

- participation of residents in improving the system for assessing academic achievements;

To verify the data of **Standard 3**, the experts asked questions to the Vice-Rector for Academic Affairs. The Vice-Rector noted that the academic policy is regularly reviewed, and is planned to be updated in September 2025. The point of improvement is ensuring the validity of the tests.

During a visit to the Department of Surgical Diseases, Geriatrics and Neurosurgery, documents and methods for assessing residents were checked. There are test tasks for students of the 1st-3rd years of study in the educational program - 7R01120 Neurosurgery for adults and children" for the module "Fundamentals of diagnostics of neurosurgical diseases" in the amount of 120 questions, of which: questions of the 1st level - 60 pcs (50%), 2nd level - 48 pcs (40%), 3rd level - 12 pcs (10%), which are compiled in accordance with the requirements and approved at a meeting of the department.

During a visit to clinical sites together with the head of the department, Professor Firsov A.B.,, the commission was convinced that there is a documentation system that is transparent and accessible to all teachers, and includes such documents as annual operational plans, annual reports, department regulations, agreements with teachers and students, and educational and methodological documentation (work program, working curricula, syllabuses, journals), assessment tools (checklists, statements), certificates, acts of implementation of new educational technologies. A demonstration lesson on the topic "Surgery of intracerebral hematomas" was demonstrated. Associate Professor of the Department, Dyusenbaev N.N., practical skills class

During the visit to the organization, the management was asked the question: "Are external examiners involved in order to improve the fairness, quality and transparency of the assessment process?" And the answer was received that employers are constantly involved in the examination of residents.

Skills assessment is carried out on the basis of the University or the assessment organization using material and technical resources. The experts inspected the resources for organizing the assessment of knowledge and practical skills, namely, the Simulation Centre. When passing the assessment of graduates' skills, audio and video recording of the assessment is provided.

By order of the Rector on conducting an exam with video recording No. 684-n / k dated November 24, 2023, exams are conducted under continuous video surveillance. Conducting examinations in specially equipped computerized laboratories with video surveillance systems makes it possible to monitor the examination process in real time. This is important to ensure continuity of observation and minimize potential erroneous situations, which increases the reliability of the assessment results. Skills are assessed using an assessment sheet in the assessment information system.

The interviewed employer representatives also indicated that the mission, goal, and final results of the neurosurgical residency program are aimed at ensuring that graduates' training meets the current developments in medical practice and science. Employers said that they themselves participate in assessing residents, as they are included in the examination committee, the Final State Attestation Commission, and in advisory bodies. Systematic feedback is provided to them. Employers believe that they would like to see the strongest skills in residents, such as practical skills, communication skills, and knowledge.

The principles of anti-plagiarism and academic integrity are reflected in the Academic Policy, the Code of Academic Integrity, and the Anti-Plagiarism Regulations. The University joined the Academic Integrity League in April 2023, and the League's principles are reflected in the discipline syllabus.

*Conclusions of the EEC by criteria* correspond to 13 standards: fully – 13.

## **Standard 4: RESIDENTS**

### **4.1. Admissions and selection policy**

In order to ensure the relationship between the Mission of Astana Medical University, which is to train outstanding doctors, scientists and leaders in the field of healthcare to provide high-quality medical care, and the selection of residents, the procedure for admission to residency at the University is established by:

- The Constitution of the Republic of Kazakhstan dated August 30, 1995 (as amended and supplemented as of September 17, 2022),
- The Law of the Republic of Kazakhstan dated July 27, 2007 No. 319-III "On Education" (as amended and supplemented as of June 27, 2022),
- Order of the Ministry of Health of the Republic of Kazakhstan No RK MOH-270/2020 dated December 15, 2020 "On approval of the rules for placing a state order, admission to training and training of medical personnel in residency",
- Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 10/13/2018 No. 569 "On approval of the Classifier of training areas for personnel with higher and postgraduate education",
- Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 600 dated 10/31/2018 "On approval of the Model rules for admission to training in educational organizations implementing educational programs of higher and postgraduate education",
- Order of the Ministry of Health of the Republic of Kazakhstan No. 27 dated January 30, 2008 "On approval of the lists of clinical specialties for training in internship and residency" (with amendments and additions as of 05/14/2021),
- Rules for admission to residency at NJSC "AMU" for the current academic year.

The University website <https://amu.edu.kz/> contains complete information on educational programs, criteria for selecting students for the EPR, and the format of entrance examinations.

The procedure for determining the number of residency students accepted in the specialty "Neurosurgery for Adults, Children" is regulated by the State Order of the Ministry of Health of the Republic of Kazakhstan for the training of medical personnel and takes into account the possibilities of clinical, practical training, the maximum permissible workload of clinical mentors, the availability of educational, educational-methodical and scientific literature, the throughput capacity of clinical bases, as well as the material and technical resources of the University

The University assumes the responsibility for creating optimal conditions for training, where the safety and well-being of students, including residents, will be in the spotlight. Ensuring the safety of students is implemented in the following areas: physical security - creating a safe educational and living environment, providing first aid if necessary, as well as injury prevention during practical classes both at the University's clinical bases and within the walls of the University itself; Psychological safety - providing support to students who face psychological difficulties or stress related to the educational process or personal life; Safety of clinical practice - protection from possible risks in the clinical environment; Information and digital security - protection of students' personal digital data and provision of tools for secure online communication in accordance with the "Regulations on the protection of personal data of employees and students of JSC "Astana Medical University"

PL-AMU-70-12

([https://drive.google.com/file/d/1sXPPMj40qXiGGYenyA2sgM1n4AzFPI\\_5/view?usp=drive\\_link](https://drive.google.com/file/d/1sXPPMj40qXiGGYenyA2sgM1n4AzFPI_5/view?usp=drive_link)).

Such a comprehensive residency admission policy not only raises safety standards in the organization, but also strengthens the trust of students and their parents. It allows residents to fully focus on their studies, knowing that their well-being is reliably protected.

The University website (<https://amu.edu.kz/ru/>) provides comprehensive information about the EP, allowing potential residents to delve deeply into the details of each program, familiarize themselves with the courses, subjects and curriculum. This helps prospective students consciously choose a specialty that matches their interests and career aspects. In addition, the website contains information on the selection criteria for students. This helps candidates prepare for admission in advance, understanding what requirements and standards are set by the University. This section gives a complete picture of what is expected of candidates at various stages of the selection process, from

preliminary submission of documents to interviews or exams. The site also covers the formats of entrance examinations, which allows applicants to prepare for them in advance. Thus, the official website of the University is a central source of information for all stakeholders and plays a key role in attracting and supporting students at all stages of their educational journey. On the website ([https://drive.google.com/file/d/1OBB7f3MN3lGk48UOR0ghGqcRq14C0\\_AH/view?usp=drive\\_link](https://drive.google.com/file/d/1OBB7f3MN3lGk48UOR0ghGqcRq14C0_AH/view?usp=drive_link)) the contingent of students in NJSC “AMU”, including residents, is specified.

While developing procedures and selection methods, NJSC AMU is guided by the regulatory documents of the Republic of Kazakhstan, in particular, the order of the Minister of Education and Science dated October 31, 2018 No. 600 "On approval of the Model rules for admission to study in educational organizations implementing EPs of higher and postgraduate education" ([https://drive.google.com/file/d/1luku5ZVAmnk78-Kyy-zIYIfPeFzOqkab/view?usp=drive\\_link](https://drive.google.com/file/d/1luku5ZVAmnk78-Kyy-zIYIfPeFzOqkab/view?usp=drive_link)). This order establishes the procedures for the rules for admission to study in educational organizations implementing EPs of higher and postgraduate education. These rules became the basis for structuring the admission process and ensuring its consistency, objectivity and transparency. Following these standards, NJSC “AMU” creates equal conditions for all applicants, regardless of their social, cultural or economic background. At the same time, measures are being implemented to inform future students about all stages and requirements of the admissions campaign, which makes the process more predictable and understandable for candidates.

The procedure for admission and selection to residency at NJSC “AMU” is carried out on the basis of current LSI and internal regulatory documents: Order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 "On approval of the Model rules for admission to training in educational organizations implementing educational programs of higher and postgraduate education", Order of the Minister of Health of the Republic of Kazakhstan dated December 15, 2020 No RK MOH-270/2020 "On approval of the rules for placing a state order, admission to training and training of medical personnel in residency" The University develops and annually approves the Rules for admission to residency at NJSC “Astana Medical University” PR-AMU-06-23 <https://amu.edu.kz/upload/iblock/133/133420ce6ec663a3c4d078db8f372dfb.pdf> in accordance with which:

1) admission to educational programs of the University residency are implemented by placing a state educational order at the expense of the republican budget or local budget, as well as paying for tuition at the expense of the student's own funds and other sources.

2) the number of applicants admitted to the University residency for training at the expense of the republican and local budget is determined within the state educational order placed annually by the Ministry of Health of the Republic of Kazakhstan and local executive bodies in the field of health

3) the University has the right to implement, in accordance with the legislation of the Republic of Kazakhstan in the field of education, the admission of citizens in excess of the state educational order established by the central authorized body in the field of medical education, for training on the basis of contracts with payment of tuition at the expense of legal entities and (or) individuals.

NJSC "AMU", striving to ensure fairness and equality in the process of admission to residency, is actively working on the development and implementation of a clear appeal procedure.

As a result of this approach, the Medical Education Organization guarantees that the procedure for admission to residency meets current requirements and standards, providing high-quality and modern medical education.

#### **4.2. Number of residents**

Particular attention is paid to the ratio of residents to teachers, which guarantees high-quality and individual training for each resident. In accordance with the order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 606 "On approval of the average ratio of the number of students to teachers for calculating the total number of faculty members of higher and (or) postgraduate education organizations, with the exception of the Academy of Justice, military, special educational institutions, educational organizations in the field of culture" [https://drive.google.com/file/d/1Q8i9ZBFda2TsCLGqrpp2Qgt4CY6O31fK/view?usp=drive\\_link](https://drive.google.com/file/d/1Q8i9ZBFda2TsCLGqrpp2Qgt4CY6O31fK/view?usp=drive_link)), as

well as amendments to the Ministry of Education and Science of the Republic of Kazakhstan dated April 15, 2019 No. 146 ([https://drive.google.com/file/d/1QrVhePGrNuyj9gzJRBLJENqzZVYOEUCS/view?usp=drive\\_link](https://drive.google.com/file/d/1QrVhePGrNuyj9gzJRBLJENqzZVYOEUCS/view?usp=drive_link)) and the Ministry of Education and Science of the Republic of Kazakhstan dated July 2, 2020 No. 284 ([https://drive.google.com/file/d/13E4QNizb578qe-syDDkqKgJ3D4e5XvwL/view?usp=drive\\_link](https://drive.google.com/file/d/13E4QNizb578qe-syDDkqKgJ3D4e5XvwL/view?usp=drive_link)) such a ratio for residents, including in the specialty "Neurosurgery for Adults, Children" is 1:3, which allows the teacher to devote enough time to each resident.

Dynamics of admission to residency:

1. 2021-2022 - total 1, of which state order 1, LEA order -0, fee-based-0;
2. 2022-2023 - total 5, of which state order -2, LEA order -3, fee-based-0;
3. 2023-2024 - total -5, of which state order -2, LEO order -3 fee-based-0.

<https://drive.google.com/file/d/1csRPLff6RK231vJ8-WZPpn3Ajd3wTyeb/view>

At the residency level, the admission dynamics are positive; there are no problems with the organization of the educational process at clinical sites. Most residents are registered as resident doctors and have the opportunity to actually participate in clinical activities and assist the PZ, which is of particular interest to the ME.

A consistent and responsible attitude to the process of admitting residents is demonstrated. A thoughtful approach to the use of available resources, active interaction with government agencies and the desire to meet the current needs of healthcare guarantee a high level of training of specialists and their compliance with modern requirements of the medical industry.

The number of residents accepted at NJSC "AMU" is determined on the basis of an analysis of the need for medical personnel in the Northern regions and other regions of the Republic of Kazakhstan, as well as the resources of the educational program. Data on the demand for personnel is provided by the Regional Healthcare Department and the Department of Science and Human Resources of the Ministry of Health of the Republic of Kazakhstan and is published on the University website in the "Employment" section.

The University and the Department provide conditions and tools for comprehensive support of residents, including social, financial and personal support. As part of its social responsibility and commitment to providing accessible education for all students, NJSC "AMU" has developed and implemented the Regulations "On the provision of social assistance to certain categories of students of JSC "Astana Medical University" PL-AMU-08-27-20 ([https://drive.google.com/file/d/1aoLTvXOspmUpfJzTKOcWyiM4A7cwhGXW/view?usp=drive\\_link](https://drive.google.com/file/d/1aoLTvXOspmUpfJzTKOcWyiM4A7cwhGXW/view?usp=drive_link))

NJSC "AMU" has created a specialized website for graduate employment, which focuses on the interaction between graduates, employers and employment platforms (

#### **4.4. Representation of residents**

The desire to ensure the quality of education leads to the active involvement of students, in particular residents, in the formation and development of the educational process. Recognizing the value of the contribution of residents, NJSC "AMU" consciously applies a policy of their active participation in key decision-making. The University has formed a variety of consultative, advisory and collegial bodies such as the residency committee, the Academic Council, and the Scientific Council. Residents are represented in these structures, which gives them the opportunity to directly participate in formulating the mission of the curriculum, establishing the final educational outcomes, planning working conditions during training and work, evaluating the training program, and managing the training program.

In the context of modern medical education, NJSC "AMU" focuses on creating conditions for the professional and personal development of residents.

NJSC "AMU" has developed mechanisms to encourage students, including residents. One of the powerful stimulating factors is financial incentives for residents to pursue academic activities and write scientific papers

#### **4.5. Working conditions**

A scholarship, as a form of financial support, is awarded to residents who have demonstrated high academic achievements. Thus, the grades "Excellent" and "Good" obtained as a result of the midterm assessment and end-of-course assessment confirm their level of competence and diligence in learning. This, in turn, confirms their readiness for professional medical practice, which helps to stimulate residents to qualitatively and actively master the EP. That is, the educational organization provides residents with comprehensive financial and professional support.

*Conclusions of the EEC by criteria.* Comply out of 15 standards: fully - 15.

### **STANDARD 5. ACADEMIC STAFF**

#### **5.1. Recruitment and selection policy**

Personnel policy of NJSC "AMU" P-AMU-03-23, approved on 08.08.2023, protocol: No. 21, this document serves as the main guiding principle in matters of personnel policy of NJSC "AMU" <https://amu.edu.kz/upload/iblock/980/980e7a056096531d0d29bbfed5b69ce7.pdf> ;

The key point in hiring is the mandatory compliance of candidates with the established qualification requirements.

The department, which employs 15 full-time teachers, has a degree level of over 80%. This percentage reflects the high degree of scientific training and professionalism of the teaching staff. The department employs specialists with various academic degrees, including 3 doctors of medical sciences and three PhDs, 4 candidates of sciences and two masters of medical sciences. Such a high level of degrees indicates that the department is a centre of academic expertise and intellectual growth. The professional level of the teachers in the department is very diverse. More than half of the full-time teaching staff (75.6%) have the highest category, which indicates high qualifications and experience in the field they teach. The percentage of teachers with the first category is 6.6%. These teachers, although they have a lower category, still have a certain level of professional skills and can make a valuable contribution to the educational process. All 100% of the teachers have specialist certificates for admission to clinical practice. This indicates that the department pays primary attention to the practical side of education and preparing students for clinical work.

Head of the Department of Neurosurgery - Fursov Alexander Borisovich, MD, Professor, member of the register of certified independent experts; external consultant of the neurosurgical department of the hospital of the Medical Centre of the PAA of the RK.

The Academic staff of the department directly involved in the training of residents of EP 7R01120 "Neurosurgery for Adults, Children":

Volchkova I.S. MD, surgeon, professor of the department

Ospanov O.B. MD, surgeon, professor of the department

Dyusenbaev N.N., PhD, neurosurgeon, head of the Department of Neurosurgery, City Hospital No. 1

Ibraev Ye.O., highest category physician, neurosurgeon, chief freelance neurosurgeon of the Astana City Health Department.

Berdikhodzhaev M.S., neurosurgeon, highest category, Master of Medical Sciences, deputy chief physician for surgical service

Shpekov A.S., neurosurgeon, highest category, head of the neurosurgical department of the MC Hospital of the PAA of the RK

Baidarbekov M.U., neurosurgeon, highest category, PhD, associate professor, head of the neurosurgical department of the NSCTO

The staffing level of the personnel who conduct classes for residents in this specialty is not complete; there are 2.5 teachers per resident instead of 3. However, such a staffing ratio allows achieving an optimal ratio between teachers and residents. This, in turn, guarantees an individualized approach to the training of each resident and allows us to closely monitor their academic



achievements. Particular attention is paid to monitoring the achievements of residents, which helps to promptly identify and resolve emerging learning difficulties.

The following teaching load has been established for the Academic staff of clinical departments for the current academic year: Decision of the Academic Council of NJSC "Astana Medical University" protocol No. 7 dated 06/30/2020 ([https://drive.google.com/file/d/1yCZHSEuKjZze5xGCNTAVv4d62-kigJMF/view?usp=drive\\_link](https://drive.google.com/file/d/1yCZHSEuKjZze5xGCNTAVv4d62-kigJMF/view?usp=drive_link));

- head of department - 520 hours;

- professor - 570;

- associate professor - 630;

- assistant - 680 hours;

Over the past 5 years, the following persons have been trained in key pedagogical competencies by the specialized department:

for the 2018-2019 academic year, 3 department assistants in communication skills, 2 in language competencies, 1 researcher/scholar, 1 effective teacher;

for the 2019-2020 academic year, 10 in communication skills, 1 effective teacher;

for the 2020-2021 academic year, 3 in the leader/organizer competency, 3 researcher/scholar, 2 effective teacher;

for the 2021-2022 academic year, 1 in the leader/organizer competency, 2 scholars/researchers;

for the 2022-2023 academic year, 8 teachers were trained in effective teaching;

for the 2023-2024 academic year (until April 2024) in the competence of researcher/scientist - 1, effective teacher - 2.

The residency Academic staff works in accordance with the curricula and individual teacher plans (ITP), which are approved on the basis of the annual plan of the department. The assessment of the Academic staff activities is carried out within the department

Incentives for teachers and departments are provided in accordance with the Regulation on remuneration, bonuses and social security of employees of the NJSC "Astana Medical University"

Thus, the strengths of Standard 5 are:

an effective system for the selection and placement of Academic staff, guided by current HR management standards;

providing a favourable environment for the professional and personal growth of teachers, which allows each to make a unique contribution to the progressive development of the University;

well-thought-out mechanisms for updating and recruiting the Academic staff of the department, including an incentive system (for example, multi-level salaries, foreign language courses, career growth opportunities);

implementation of a unified training system for teachers, focused on the latest educational approaches, with the possibility of attracting experts from the best medical institutions in the world;

organization and implementation of internal programs for advanced training of teachers, which contributes to their professional renewal and development.

*While questioning teachers, it was found that the majority (90.5%) of them are completely satisfied with the organization of work and the workplace in this educational organization, but 9.59% are partially satisfied. 58.5% 26% of the teaching staff are completely satisfied with their salaries, 20% - partially.*

**Conclusions of the EEC by criteria.** Compliant with out of 8 standards: fully 8.

## **Standard 6: EDUCATIONAL RESOURCES**

### **6.1. Material and technical support and equipment**

The University provides two dormitories with a total area of 13,313.5 m<sup>2</sup>, with a total capacity of 1,477 beds. The University dormitories provide students with comfortable conditions for living and studying. The academic buildings include 17 academic and 5 scientific laboratories equipped with modern equipment, which allows for practical classes and research. The University library contains an extensive collection of educational and scientific literature in three languages, providing access to relevant sources for students and teachers, supporting scientific and educational activities. The University provides students and staff with quality meals through the canteens of enterprises. The canteen operates on a self-service basis and provides varied and high-quality food, and is popular among more than 60% of students and staff. Regular surveys assess the quality of food and the level of visitor satisfaction, which is taken into account when improving nutrition. Residents also receive healthy and balanced meals in the canteens of medical organizations, which contribute to their physical and psychological comfort, as well as successful learning and professional growth. The University provides access to a printing house for printing educational and scientific materials. The University Museum presents historical and cultural values to enrich the educational experience of students. Residents have access to medical care in the medical centre and clinics of the city. The University also provides leisure facilities, including a co-working centre with an area of 308.3 square meters, an assembly hall with 370 seats and rooms for storing musical equipment, instruments and costumes with a total area of 20 square meters for cultural and creative activities. Sports facilities, including volleyball, basketball halls with an area of 168.3 square meters, and wrestling - 157.4 square meters, as well as a gym, provide physical activity and care for the health of students. The University's infrastructure is designed to ensure a high level of education, scientific research and comfortable living.

Full access to the Internet is provided, all learning processes are digitalized, at the bases of the residents there are several Pirogov tables.

## **6.2. Clinical bases**

Clinical training of resident physicians in the specialty "Neurosurgery for Adults, Children" is conducted at the bases of the Medical Centre of the PAA of the RK, the National Scientific Medical Centre, the National Scientific Centre of Traumatology and Orthopaedics, and the City Hospital No. 3 in Astana.

The University's clinical bases have extensive experience, resources, and high-quality equipment that are used to train residents and provide high-quality medical services to the population. This provides residents with access to modern equipment and practical experience necessary for their future professional activities.

All rooms in the neurosurgical department are equipped with modern equipment and instruments, which provides residents with the opportunity for in-depth training and research in the field of neurosurgery. One of the main advantages of the department is the availability of modern high-tech equipment. Electron microscopes, such as the Libra 120 Carl Zeiss Transmission Electron Microscope, allow for microscopic studies at the level of individual cells, identifying their structural and functional features. Complexes with software devices provide automation of the analysis of the material being studied and allow visualization of the results obtained. The program includes training in simulation centres as an integrated part of the educational program, and where training in emergency care is provided.

Laboratory rats are used to practice micro-neurosurgical skills, all manipulations are performed in the university vivarium. The development of surgical skills in residents is carried out under the auspices of the surgical scientific circle (club) "Veritas", which has been functioning at the Department of Surgical Diseases, Bariatric Surgery and Neurosurgery since 2012.

## **6.3 Information technology**

The university is actively introducing information and communication technologies (ICT) into the educational process.

Residents of the accredited educational programs use computers, laptops and netbooks purchased 5 years ago; all devices in the university are connected to the Internet; Wi-Fi coverage on the territory

of the university is 80%, and in the covered areas 70%; All residents have secure access to the Internet on the territory of the University through the login and password authorization system, regulated by the IT Infrastructure Department; the University has 40 remote departments that are fully provided with Internet access.

There is access to the entire electronic library, as well as to the library collections.

The library is located on 3 floors (53 buildings) of the University, the occupied area is 2269.3 sq.m., including the storage area of 1452.3 sq.m. reading rooms - 817 sq.m. for 203 seats. There are 8 service points available to users: academic subscription for the 1st year (room 101); academic subscription for years 2-7 (room 102); subscription and room of foreign literature (room 201); scientific subscription (room 202); reading room for independent work (room 301); electronic reading room (room 305); co-working zone (room 303); rare editions collection (room 304). The library has 9,513 registered readers, with an annual visit of 56,820 (for the 2022-2023 academic year), and book loans of 100,980 copies. As of September 1, 2023, the total library collection of the University is 57,309 titles and 485,377 copies.

#### **6.4. Clinical Teams**

Residents develop skills in teamwork, interaction with colleagues from different fields, and making collective decisions in the interests of patients.

#### **6.5. Medical Scientific Research and Achievements**

During the educational process, residents deeply study various disciplines and use the results of scientific research. Extracurricular work allows them to deepen their knowledge and develop scientific thinking. The University develops events to support the active participation of students in scientific life and develop skills in applying theoretical knowledge in practice.

The staff of the Department of Neurosurgery hold certain positions and responsibilities: chief freelance specialist of the city health department of the Astana Healthcare Institution, are included in the register of certified independent experts, are an external consultant of the neurosurgical department of the hospital, are members of the committees for quality assurance of the EP in the NJSC "AMU", are members of the Academic Council, honorary members of the Association of the Republic of Kazakhstan and the Russian Federation.

Residents participate in scientific research, prepare various materials, including abstracts, messages, reports, studies, and take part in the publication of scientific articles and events.

#### **6.6. Expertise in the field of education**

As part of the accreditation process for the residency program 7R01120 "Neurosurgery for Adults, Children" in the NJSC "AMU", several stages of expert assessment were carried out, confirming the quality and compliance of the program with the highest educational standards. The first stage involved reviewing and discussing the program at a departmental meeting together with representatives of the staff of the MSE on the REM "MCH No. 3". The second stage included a review of the program by the head of the neurosurgery department of MCH No. 3, PhD, Sadykov A. and the chief physician of the Astana Railway Hospital Kim N. A. Receiving a positive assessment at this stage confirms the high quality of the program and its compliance with the requirements of professional experts. The third stage included reviewing and approving the program of the KOC OP residency and additional education

The fourth stage includes reviewing and approving the EP by the Academic Council, then approved at a meeting of the Academic Council of NJSC "AMU" (extract from minutes No. 7 dated June 30, 2023). At all of the listed stages of the expert evaluation, the EP was evaluated in all aspects - from the mission to the sufficiency and quality of educational resources. This proves that the residency program has been carefully reviewed and approved at various levels of the University's management. The fifth stage is an expert assessment of the residency program in the Register of EPs of Higher and Postgraduate Education, where it is integrated into the Unified Platform of Higher Education (EPHO).

The evaluation of the condition and equipment of clinical sites is carried out both by internal audits and by external evaluation carried out by state and other bodies. All this allows us to ensure a high level of the educational process that complies with legislation and standards.

## **6.7. Training in other institutions**

Academic mobility of students at NJSC AMU is carried out in accordance with the Regulation PL-AMU-05-22 "On the academic mobility of students of NJSC "AMU" and the relevant memorandums.

The strengths of the Standard are

- assignment of the status of a National Research University;
- targeted financing of some University programs;
- creation of a mechanism for commercialization of the results of research;
- formation of an effective mechanism for involving promising young people in scientific and pedagogical activities;
- creation of permanent mechanisms for disseminating practical health care issues in the field of scientific, innovative and educational activities of the university;
- formation of mechanisms for academic mobility and an internal competitive environment.

*Conclusions of the EEC by criteria.* Comply out of 18 standards: fully -18.

## **Standard 7. EDUCATIONAL PROGRAMME EVALUATION**

### **7.1. Monitoring and evaluation mechanisms**

A comprehensive system for monitoring and evaluating the residency program in the specialty "Neurosurgery for Adults, Children" has been created at NJSC "AMU". This system includes several important aspects: resource monitoring with verification of the availability and quality of resources necessary for training, such as clinical sites, teacher qualifications, educational literature and equipment; compliance of the curriculum with standards in the form of a certificate that the residency curriculum complies with the State Educational Standards of the Republic of Kazakhstan; monitoring the content of education with verification of the compliance of the training program with the requirements of standards, professional criteria and current trends in medicine and science; collecting feedback in the form of an assessment of the opinions of students, faculty and employers to improve the educational process; monitoring the academic performance of students with tracking their progress in mastering key competencies.

The residency QAC actively analyses educational resources and the learning process, taking into account the feedback from residents and practicing physicians. Employers also share their opinions on the readiness of graduates

The Committee also monitors the relevance of the EP so that graduates meet the modern requirements of medical practice and are in demand in the labour market.

The University analyses the system of assessing the knowledge and skills of residents, including the use of a portfolio, various types of control and integrated exams. Teachers play an important role in this process by assessing the preparation of students. The analysis also includes resident reports and the opinion of representatives of practical healthcare. This comprehensive approach guarantees a high level of training of residents and ensures high-quality education in the medical field.

Internal audits of the quality of the EP in accordance with the University Standard "Internal Audits" SU-AMU-07-12 are also carried out regularly to identify weaknesses and improve curricula. Professional development of the teaching staff and ongoing analysis of student progress and feedback from employers contribute to the continuous improvement of education.

The Department of Neurosurgery of the University carries out strict quality control of the EP, including EP 7R01120 "Neurosurgery for Adults, Children". This includes the development of curricula, assessment standards and discipline syllabi, as well as the analysis of examination results and resident certification.

### **7.2. Feedback from teachers and residents**

The main method of collecting feedback is a questionnaire, the ability to directly contact the university management

### **7.3. Results of residents and graduates**

Residents are assessed by various bodies, including the Ministry of Health of the Republic of Kazakhstan, the National Centre for Independent Assessment of the Quality of Education, and regional health departments. Employers, such as healthcare institutions, play a key role in the employment and adaptation of graduates. Public associations of doctors organize events, and representatives of the public and trade unions maintain communication between students, teachers and the University to take into account the current needs and expectations of all participants in the educational process. The level of resident assessment by external experts reaches 98%

#### **7.4. Stakeholder involvement**

The University also actively involves residents and teachers in various committees and structures of the University, which allows them to participate in key decisions regarding the educational process.

#### **7.5. The procedure for approving educational programs**

The program undergoes a detailed evaluation, including feedback from teachers and residents, and is approved by the authorized bodies of the University.

Management is carried out taking into account key documents and regulations, such as the SU "Educational programs: development and updating", SU-AMU-15-23 ([https://drive.google.com/file/d/1LaWOJ55bEN-b86trWUBFtX0F5YQHELvP/view?usp=drive\\_link](https://drive.google.com/file/d/1LaWOJ55bEN-b86trWUBFtX0F5YQHELvP/view?usp=drive_link)).

The management structure of the EP includes various bodies, including the residency QAC, the Academic Affairs Committee and the Academic Council, which work together to ensure the quality of education. The residency QAC plays a key role in the examination and evaluation of programs, as well as in the selection of methods for assessing the competencies of residents.

The quality of clinical sites is strictly observed

Thus, the strengths of Standard 7 are:

- the presence of an academic policy and its annual updating, mechanisms for assessing the effectiveness, monitoring the educational program, including all stakeholders;
- a systematic approach to the evaluation of educational programs;
- involvement of experts and representatives of practical healthcare in the evaluation and development of the EP;
- professional level of resource provision for monitoring and evaluation of the EP;
- the presence of a competence-based approach to the development and analysis of the reverse side with stakeholders (interested parties) of the EP.

The EEC experts note that within the framework of the Standard "Evaluation of the educational program" during the work of the expert commission and analysis of the submitted documentation, compliance with the requirements of the standard was revealed.

Meetings with students and teachers demonstrated the presence of feedback through a questionnaire of all stakeholders.

An interview with 3 employers in the specialty "Neurosurgery" was conducted online and included questions such as: knowledge of the university's mission and program, participation in the development of the mission and proposals for the strategic plan, participation in the work of advisory bodies, satisfaction with the knowledge and skills of residents, about the employment of graduates. From their answers, the experts concluded that a close relationship has been established between the residency in neurosurgery and practical health care. Employers are members of the collegial bodies of the university and school, participate in the State Attestation Commission, and are clinical bases.

***Conclusions of the EEC by criteria.*** Comply out of 10 standards: fully -10.

## **Standard 8: MANAGEMENT AND ADMINISTRATION**

### **8.1. Management**

NJSC "AMU" complies with the regulatory rules and regulates the residency program, including selection criteria, the number of residents, the training process, the assessment of knowledge and skills, the establishment of learning outcomes, and program management. The state order for the training of

residents determines the contingent based on the availability of educational resources and clinical sites. The University has developed internal regulations and rules for admission to residency "Rules for Admission to Residency at NJSC "Astana Medical University" (PR-AMU-06-23) <https://amu.edu.kz/upload/iblock/133/133420ce6ec663a3c4d078db8f372dfb.pdf>, which regulate this process and are regularly updated in accordance with changes in the legislation, order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 "On approval of the Model Rules for Admission to Study in Educational Organizations Implementing EPs of Higher and Postgraduate Education". Assessment of the academic achievements of residents is carried out on the basis of criteria that correspond to the goals and objectives of the educational program

Upon successful completion of the postgraduate training program, residency students receive a State-issued Certificate of Completion of Residency. This document confirms that the resident has successfully completed the training and acquired the necessary competencies for further practical activities.

Thus, upon completion of the residency, students are awarded the qualification of a physician in the specialty "Neurosurgery for Adults, Children". With this certificate, a specialist can practice medicine in his specialty in the Republic of Kazakhstan.

To analyse the internal and external environment, a monitoring system and SWOT analysis methodology are used to determine the factors influencing strategic decisions and the functioning of the University. The residency program 7R01120 "Neurosurgery for Adults, Children" is implemented at the Department of Neurosurgery. The Department carries out various activities, including developing curricula, conducting training sessions, planning and managing professional practices, and assessing academic leadership.

## **8.2. Academic Leadership**

The Centre for Planning and Development of Academic Affairs plays an important role in developing and adjusting documents regulating the educational process and ensures its compliance with national educational standards. It also advises the Academic staff, monitors the current educational process and carries out assessments to ensure high quality education.

The Office of the Registrar plays an important role in the management of the educational process, especially in the context of registering and tracking the academic achievements of residents. Its functions include: documenting and maintaining grades and academic achievements of residents; coordinating the conduct of examinations and assessments in accordance with the rules; calculating a rating based on educational data; ensuring the security of accounts and data confidentiality; providing residents with information about progress and schedule.

After examination sessions, the analysis of residents' academic achievements is carried out at the meetings of the residency QAC, which ensures the quality of education.

To assess the medical organization and the achievement of the mission of the EP, including the EP of residency 7R01120 "Neurosurgery for Adults, Children", the University uses the following methods and tools: periodically evaluates achievements, compares them with plans and identifies areas where improvements are needed; analyses activities to ensure that they meet established standards and requirements by conducting internal audit and self-assessment; determines how successfully strategic objectives are achieved and identifies potential risks by analysing strategic goals and risks; uses specific metrics to evaluate the effectiveness of our work with the introduction of KPI reporting; involves internal and external commissions, with verification and assessment, such as accreditation of the EP and education quality audit.

The University also adheres to transparency and openness in the evaluation process. Heads of administrative units and the University management regularly report to various bodies and councils on the results of our activities.

## **8.3. Budget for training and resource allocation**

Based on the Charter of the University, approved by the Order of the Chairman of the State Property and Privatization Committee of the Ministry of Finance of the Republic of Kazakhstan No. 8

dated February 8, 2019, the financial and production activities of the Company are carried out on the basis of economic *independence*.

The sources of financing for the University are both budgetary financing of the state educational order and income from the provision of paid educational services, the implementation of research and other work provided for by the Charter of the University and not contrary to the legislation of the Republic of Kazakhstan.

The annual planning of the University budget is carried out in strict accordance with the approved Strategic Development Plan of the University until 2026 and the long-term development plan of the University for 5 years, contains goals, objectives, performance indicators and key indicators of financial and economic activity in the context of the planned year (short-term plan).

The Planning and Economic Analysis Department monitors the movement of the student contingent, plans income from the provision of educational services, as well as expenses for the remuneration of the teaching staff and the provision of the educational process (material and technical equipment, library collection, access to modern tools for obtaining knowledge (access to scientific databases, electronic journals and websites, including in English).

The development plan is adjusted according to the deadlines set by the Order of the Ministry of National Economy of the Republic of Kazakhstan No. 14 dated 02/14/2019. Then the Department for the Organization and Monitoring of Public Procurement forms a public procurement plan for the University and posts it on the *web* portal (<https://goszakup.gov.kz/>). At the University, purchases are carried out in accordance with the Law of the Republic of Kazakhstan "On Public Procurement", with the Decree of the Government of the Republic of Kazakhstan "Rules for Conducting and Organizing Public Procurement". The owner of the process, the Department for the Organization and Monitoring of Public Procurement, is *responsible* for organizing the purchases.

The University budget consists of income received from placing government orders and providing paid services.

Expenses are made within the approved budget, according to applications submitted by structural divisions.

Financing of training specialists with higher and postgraduate education, as well as the implementation of research work is carried out on the basis of concluded contracts and acts.

The financial policy of the University is aimed at providing material and social support to the Academic staff and other categories of employees. The University creates conditions for the successful functioning of the educational process, providing qualified scientific and pedagogical workers, modern educational and clinical premises, library resources, including digital ones, access to the Internet and other information sources, as well as dormitories for students and employees. One of the main areas of use of financial resources is the provision of material assistance to employees and residents.

#### **8.4. Administration and Management**

NJSC "Astana Medical University" has the appropriate administrative and academic staff, including their number and composition in accordance with the required qualifications, in order to ensure the implementation of educational programs and related activities, and also guarantees proper management and resource allocation.

NJSC "AMU" has an approved university structure dated 22.12.2023.

HR Management carries out current procedures for the admission, registration, dismissal of faculty and employees. The hiring of teachers is carried out through a competition for vacant faculty positions.

While forming the Academic staff, the merits of applicants are taken into account, measured by the level of qualification, professional experience, results of scientific research activities, teaching experience, recognition from colleagues, etc. Priority is given to individuals with scientific, pedagogical, scientific, clinical skills and who recognize the mission of the university.

The university conducts systematic assessment and management of the educational process, including the residency program 7R01120 "Neurosurgery for Adults, Children". For this purpose,

various methods and tools are used: surveys of residents to obtain feedback on their satisfaction with the educational process and available resources; regular discussions with the Academic staff to assess the level of training of students, including residents, and to identify the need for additional resources and teaching methods; analysis of curricula to check their compliance with current requirements and standards, especially in the context of the residency program "Neurosurgery for Adults, Children"; assessment of examination results to measure the effectiveness of training based on the actual performance of students, including residents; use of information systems to automate data collection and analysis, as well as improve communication between teachers and students; conducting an external audit with the involvement of independent experts to objectively assess the quality of the educational process and identify areas for improvement

### **8.5. Requirements and regulations**

The University strictly adheres to the recommendations of national authorized bodies that establish the number and list of recognized residency specialties for the preparation of which postgraduate education programs are developed

Thus, the strengths of Standard 8 are:

- the availability of infrastructure that ensures the dissemination of information to stakeholders (website, corporate network) and an organizational and management structure that includes departments responsible for managing the educational program.
- sufficiency of clinical bases within the framework of contracts concluded between the university and medical organizations.
- an active position of leaders who manage and administer the process.

*Conclusions of the EEC by criteria.* Comply out of 11 standards: fully -11.

### **Standard 9: CONTINUOUS RENEWAL**

**9.1** The University, as well as the Department of Surgical Diseases, Geriatrics, Neurosurgery, regularly review and update all aspects of their activities, including the organizational structure, the process of training residents, the structure and content of the EP, learning outcomes and competencies, assessment of knowledge and skills, the learning environment, management and many others. This process is necessary to adapt to changing circumstances and needs in postgraduate education, as well as to take into account the opinions and interests of various stakeholder groups.

**9.2.** The University is convinced that education in the field of medicine should be constantly adapted to the changing needs of patients, medical practice and scientific progress. Therefore, the process of updating the program is constantly updated in accordance with past experience, current medical activity and future prospects.

Laboratories are updated annually, the library stock is replenished and innovative technologies are introduced. To effectively use the human resources, employees from other organizations are attracted, and teachers improve their qualifications through courses and seminars. The quality management system evaluates the internal and external aspects of education, identifies strengths and areas for improvement. Evidence of continuous improvement and development of the material and technical base of NJSC "AMU" is the use of updated resources of educational and scientific and research laboratories in the educational and scientific processes; annual replenishment of the library's book collection in Kazakh, Russian and English; the introduction of innovative, information and communication technologies.

The result of updating the EP is an improved policy and practice of the medical education program, which provides students with high-quality education and the best opportunities in the medical field. The University remains committed to continuous improvement and development.

Thus, the strengths of Standard 9 are:

- regular revision of the University's mission and policy depending on the changing needs of society;



- the University has approved procedures for monitoring and amending educational programs based on the University Standard.

Thus, the above activities to improve human resources, material and technical bases contribute to the continuous renewal of the educational program 7R01120 "Neurosurgery for Adults, Children".

**Conclusions of the EEC by criteria.** Comply with 2 standards: fully – 2.









Thus, during the external evaluation of the educational program, out of **114 accreditation standards**, compliance was established; **113** accreditation standards were found to be in compliance; no non-compliance with the standards was established.

**5. Recommendations for improvement of the educational program 7R01120 “Neurosurgery for adults and children”:**

- 1) To introduce the course "Neurology for adults and children" as a mandatory related program at the expense of the elective program (16 credits from the list of standard programs of the educational program from 09.01.23 N4). By adding another 16 credits at the expense of basic programs, it is possible to obtain a "minor" program (32 credits). In this regard, neurosurgical residents, in addition to a neurosurgeon diploma, can receive a specialist neurologist certificate (Standard 2.1.1).

**6. Recommendation to the ECAQA Accreditation Council**

The members of the EEC came to a unanimous opinion to recommend that the ECAQA Accreditation Council to accredit the educational program **7R01120 “Neurosurgery for adults and children” of the NJSC "Astana Medical University"** for a period of 5 years.

	Full name	Signature
Chairman	Bozhbanbaeva Nishangul Seitbekovna	
International Expert	Trchunyan Karen Armenovich	
Academic Expert	Tukbekova Bibigul Toleubaevna	
Academic Expert	Sultanova Gulnar Dostanovna	
Academic Expert	Trynkin Alexey Viktorovich	
Academic Expert	Ramazanova Manshuk Anerovna	
Employer Expert	Kulmaganbetov Serik Aueskhanovich	
Student Expert	Taukelova Medina Korganbekovna	

Профиль качества и критерии внешней оценки образовательной программы  
(обобщение)

Standard	Критерии оценки	Количество стандартов	БС/СУ*	Оценка		
				Полностью соответствует	Частично соответствует	Не соответствует
1.	«МИССИЯ И КОНЕЧНЫЕ РЕЗУЛЬТАТЫ»	14	9/ 5	14	0	0
2.	«ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА»	22	19/ 3	21	1	0
3.	«ОЦЕНКА РЕЗИДЕНТОВ»	9	6/ 3	9	0	0
4.	«РЕЗИДЕНТЫ»	20	14/ 6	20	0	0
5.	«ПРЕПОДАВАТЕЛИ»	8	7/ 1	8	0	0
6.	«ОБРАЗОВАТЕЛЬНЫЕ РЕСУРСЫ»	18	11/ 7	18	0	0
7.	«ОЦЕНКА ОБРАЗОВАТЕЛЬНОЙ ПРОГРАММЫ»	10	7/ 3	10	0	0
8.	«УПРАВЛЕНИЕ И АДМИНИСТРИРОВАНИЕ»	11	8/ 3	11	0	0
9.	«НЕПРЕРЫВНОЕ УЛУЧШЕНИЕ»	2	1/ 1	2	0	0
	<b>Итого:</b>	<b>114</b>	<b>82/ 32</b>	<b>104</b>	<b>10</b>	<b>0</b>
	*БС- базовые стандарты, СУ- стандарты улучшения			<b>114</b>		

## Список документов, изученных членами ВЭК во время визита в организацию

№	Наименования документов	Количество	Дата утверждение
1.	Образовательная программа «Нейрохирургия взрослая,детская»	1	13.05.24
2.	Академическая политика НАО «МУА»	1	08.12.2023
3.	Приказ о создании рабочей группы по актуализации ОП «Нейрохирургия взрослая,детская»	1	02.04.2024
4.	Приказ о создании фокусных групп для актуализации ОП	2	11.01.2024 02.02.2024
5.	Силлабусы дисциплин 1 курса ОП«Нейрохирургия взрослая,детская» (каз.рус.англ.)	5	30.06.2023
6.	Силлабусы дисциплин 2 курса ОП «Нейрохирургия взрослая,детская» (каз.рус.англ.)	5	30.06.2023
7.	Силлабусы дисциплин 3 курса ОП «Нейрохирургия взрослая,детская» (каз.рус.англ.)	1	30.06.2023
8.	Акты внедрения образовательных технологий	3	Февраль-март 2024
9.	Каталог анкет	1	22.12.2023
10.	Положение о предоставлении льгот на обучение в НАО «МУА»	1	23.04.2024
11.	Протокол круглого стола с работодателями по ОП «Нейрохирургия взрослая,детская»	1	2024
12.	Расписание Симуляционного центра	2	2023
13.	Рецензии на ОП «Нейрохирургия взрослая,детская»	1	20.05.2024
14.	Состав КОК ОП «Нейрохирургия взрослая,детская»	1	04.08.2023
15.	Standard Университета «Образовательные программы: разработка и обновление»	1	09.10.2023
16.	Приказ кураторов на 2023-2024 учебный год	1	29.12.2023
17.	Приказ о создании конкурсной комиссии для распределения грантов	61	2017-2021
18.	Меморандум о международном сотрудничестве		30-06.2023
19.	Протокол Ученого Совета об утверждении ОП «Нейрохирургия взрослая,детская»	1	25.07.2023
20.	Этический кодекс обучающихся	1	08.04.2019
21.	Устав НАО «МУА»	1	26.05.2023
22.	Выписка из протокола заседания Правления НАО «МУА» о внесении изменений и дополнений в Положение об оплате труда, премирования и социального обеспечения работников НАО «МУА»	2	2023
23.	Стратегия развития НАО «МУА» на 2022-2026г.	1	03.01.2024

**Программа  
визита Внешней Экспертной Комиссии НУ «Евразийского Центра Аккредитации и обеспечения качества образования и здравоохранения» (ЕЦА) в НАО «Медицинский университет Астана» (НАО «МУА») в рамках специализированной аккредитации образовательных программ**

**адрес: г.Астана, ул. Бейбитшилик 49а,  
даты визита: 03-05 июня 2024 года**

6B10123 Медицина (непрерывное интегрированное медицинское образование)  
6B10124 Стоматология (непрерывное интегрированное медицинское образование)  
6B10125 Педиатрия (непрерывное интегрированное медицинское образование)  
6B10126 МПД (непрерывное интегрированное медицинское образование)  
7R01120 Нейрохирургия (резидентура)

Время	МЕРОПРИЯТИЕ	
<b>02 июня 2024</b>	Заезд членов внешней экспертной комиссии. Предварительное совещание экспертов: знакомство, распределение ответственности членов ВЭК. Краткий обзор отчетов по институциональной самооценке и самооценке образовательных программ. Обсуждение ключевых вопросов, обсуждение программы и графика посещения университета ВЭК.	
<b>1-й день внешней оценки: 03 июня 2024 г., понедельник</b>		<i>Стандарты аккредитации</i>
08:45	Сбор членов ВЭК в МУА	
09:00-09:15	Совещание членов ВЭК. Планирование 1-го дня внешней оценки.	
09:15-09:45 (30')	<b>Встреча председателя и членов ВЭК с руководством НАО «МУА»</b> <b>Проректор Койков Виталий Викторович</b> Содержание встречи: представление членов ВЭК, ознакомление с целями визита, интервью с руководством вуза: презентация о ВУЗе, обсуждение вопросов по стратегии развития высшего и послевузовского образования, обоснование разработки новых образовательных программ в магистратуре. <u>Научная работа</u> , перспективы развития. Роль международного сотрудничества в развитии и укреплении программ обучения. Научные направления университета, система мотивации и участие в НИР преподавателей кафедр, результативность НИР, обеспечение выполнения НИР обучающимися, выбор тем исследований, процедура утверждения. Научное руководство. Соответствие ресурсов университета ожиданиям магистрантов и докторантов	
		<i>Стандарты 1,8,9</i>  <i>401 каб.</i>



	<p><i>Зампредседателя КОК Общественного здоровья и менеджмента – Мусина Айман Аяшевна</i>  Руководитель Центра планирования и развития академической деятельности <i>Досанова Асем Калеловна</i></p> <p><u>Содержание встречи:</u> планирование, разработка, утверждение и оценка образовательных программ, мониторинг качества, представительство обучающихся при утверждении и оценки программ, обратная связь</p> <p style="text-align: right;">401каб</p>	<p><u>Содержание встречи:</u> планирование, разработка, утверждение и оценка образовательных программ, мониторинг качества, представительство обучающихся при утверждении и оценки программ, обратная связь</p> <p style="text-align: right;">415 каб</p>	
12.15-12.30	<i>Совещание ВЭК. Обмен мнениями. Планирование вопросов</i>		
12:30-13:30	<b>Перерыв на обед</b>		
	<b><i>ВЭК группа (НИМО)</i></b>	<b><i>ВЭК группа (резидентура)</i></b>	
13:30-14:00 (30')	<p>Декан Школы Медицины <i>Сариева Айнура Ануаровна</i>  Декан Школы Педиатрии <i>Карибжанов Айтбек Ануарбекович</i>  Декан Школы Стоматологии <i>Деточкина Виолетта Робертовна</i>  Декан Школы Общественного здоровья и менеджмента <i>Баймагамбетова Айгерим Асхаровна.</i></p> <p><u>Содержание встречи:</u> Образовательный процесс. Обратная связь от обучающихся по качеству преподавания</p> <p style="text-align: right;">Стандарты 1,3,4,6,8,9</p> <p style="text-align: right;">401каб</p>	<p>Декан Школы Резидентуры <i>Елубаева Марал Куандыковна</i>  Руководитель Центра практики и развития клинической деятельности <i>Иманова Жазира Актаевна</i></p> <p><u>Содержание встречи:</u> Образовательный процесс. Обратная связь от обучающихся по качеству преподавания. Клинические ресурсы для обучения резидентов, квалификация и профессионализм клинических преподавателей, обеспечение ресурсами.</p> <p style="text-align: right;">Стандарты 2,4,5,6</p> <p style="text-align: right;">415 каб</p>	
13:55-14:15 (20')	<p>Руководитель приемной комиссии - <i>Жилкибаева Карлыгаи Тулегеновна</i>  Декан школы резидентуры <i>Елубаева Марал Куандыковна</i></p>		<i>Standard 2,4,8</i>

	<p><u>Содержание встречи:</u> формирование госзаказа по специальностям, процедура отбора и приема, платное обучение, профориентационная работа, обратная связь с абитуриентами и соискателями, работа с кафедрами</p> <p style="text-align: right;"><i>каб 401</i></p>	
14.15-14.45 (30')	<p><i>Маханбаева Нургуль Нурлановна</i> - Исполнительный директор  <i>Бекова Марал Жанатовна</i> - Руководитель Управления HR  <i>Зикенов Игорь Ирсаинович</i> – заместитель Руководителя HR  <i>Мухамедьярова Айгерим Бауржановна</i> - Руководитель Центра трансферта образовательных технологий</p> <p><u>Содержание встречи:</u> кадровая политика, критерии отбора и набора ППС и научных руководителей, наставников сотрудников АУП, обеспечение кадрами. Программы развития и мотивации ППС, наставников, тьюторов, эдвайзеров, обучение научных руководителей и сотрудников АУП, наем на работу, обеспечение кадрами, развитие и мотивация преподавателей и сотрудников.</p> <p style="text-align: right;"><i>Стандарты 1,5,6,8,9</i> <i>каб.401</i></p>	
14.45-14.55 (10')	<i>Совещание ВЭК. Обмен мнениями.</i>	
15.00-15.30 (30')	<p>Посещение Симуляционного центра - руководитель <i>Саурбаева Гаухар Кайратовна</i></p> <p style="text-align: right;"><i>Стандарты 2,3,5,6,8,9</i></p>	
15.35-15.45 (10')	Посещение офис-регистратора – руководитель <i>Тлешова Нургуль Сериковна</i>	
15.50.-16.10 (20')	Посещение Библиотеки - директор <i>Есиркепова Гулмира Жарылкапкызы</i>	
16:15-16:25 (10')	Посещение Музея - <i>Хусаин Шолпан Кабыкеновна</i>	<i>Стандарты 4,6,8</i>
16:25-16:35 (10')	<i>Совещание ВЭК. Обмен мнениями.</i>	<i>Стандарты 3,6</i>
16.35-17.05 (30')	<p>Интервью с преподавателями. Приложение 1</p> <p style="text-align: right;"><i>Бейбитшилик 53, 5 этаж, 504 лекционный зал</i></p>	<i>Стандарты 1,5,6,7,9</i>
17.05-17.45 (45')	Изучение документов	
17.45-18.00	Завершение 1-го дня. Планирование 2-го дня визита в университет	

<b>2-й день внешней оценки: 04 июня 2024 года, вторник</b>		<i>Стандарты аккредитации</i>	
08:45	Сбор членов ВЭК в МУА	401 каб	
9:00-12:30	<b>Посещение теоретических и клинических кафедр, практических занятий, баз обучения</b>		
	<b><i>ВЭК группа (Медицина, Стоматология, Педиатрия)</i></b>	<b><i>ВЭК группа (Нейрохирургия)</i></b>	
	<p style="text-align: center;"><b><i>Медицина</i></b></p> <p>1) Кафедра внутренних болезней с курсом гериатрии (Смагулова Алия Курманбековна, Кабанбай батыра 66 <b>Центральный госпиталь с поликлиникой МВД РК</b>).</p> <p>2) Кафедра гистологии и цитологии (Кикимбаева Айсулу Айтыкеновна, Бейбитшилик 49, 3 этаж).</p> <p style="text-align: center;"><b><i>Стоматология</i></b></p> <p>1) «<b>Empire Dental Clinic</b>», улица Максут Нарикбаева, 22, декан школы стоматологии Деточкина Виолетта Робертовна, директор Жанабиллова Бижамал Кулановна.</p> <p>2) «<b>Городская многопрофильная больница № 2</b>», Рыскулова 8, отделение челюстно-лицевой хирургии. 22, Декан школы стоматологии Деточкина Виолетта Робертовна, заведующая отделением Амреева Карина Наримановна</p> <p style="text-align: center;"><b><i>Педиатрия</i></b></p> <p>1) Кафедра детских болезней с курсами кардиоревматологии и гастроэнтерологии, кафедра детской хирургии (Кошкарбаева 64, <b>многопрофильная городская детская больница № 2</b>, зав. Абдрахманова Сагира Токсанбаевна, Хамитов Медет Кушербаевич).</p> <p>2) Кафедра общей и биологической химии Сапиева</p>	<p style="text-align: center;"><b><i>Нейрохирургия</i></b></p> <p>1) Кафедра хирургических болезней, бариатрической хирургии и нейрохирургии (проспект Абылай хана 15а, <b>Национальный научный центр травматологии и ортопедии им. академика Н.Д.Батпенова</b> заведующий кафедрой Фурсов Александр Борисович, доцент кафедры Дюсенбаев Нуржан Нурланович, заведующий отделением спинальной нейрохирургии Байдарбеков Мурат Умирханович).</p> <p>2) Кафедра хирургических болезней, бариатрической хирургии и нейрохирургии (ул.Молдагуловой 26Б, <b>многопрофильная городская больница № 3</b>, заведующий кафедрой Фурсов Александр Борисович, доцент кафедры Дюсенбаев Нуржан Нурланович, заведующий отделением экстренной нейрохирургии Ибраев Серик Омиртаевич).</p>	Стандарты 2,6,7,9



	Ардак Оналбековна, Бейбитшилик 49, 4 этаж)  <b>Медико-профилактическое дело</b> 1) Кафедра общественного здоровья и гигиены (Сүлейменова Роза Қалдыбекқызы, Бейбитшилик 51, 3 этаж)		
12.30-13.30	<b>Перерыв на обед</b>		
13:45-14:15 (30')	Встреча с Проректором <i>Сайдангазин Диас Даулетбекович</i> и Руководителем Центра по социальной и воспитательной работе <i>Шаймерденова Зауреш Накыповна</i> Тема: Поддержка студентов, соц обеспечение		Стандарты 4,7
14:15-14.45 (30')	Встреча со студенческим активом ( <i>Приложение 4</i> )  <i>Бейбитшилик 49, 5 этаж, 5 лекционный зал</i>		Стандарты 4,7
14:50-15:40 (50')	Посещение общежития ( <i>Каршалова Зарина Бауржановна, Шаймерденова Зауреш Накыповна</i> )  <i>Жеңіс 35, 35а</i>		
15.45-16.00 (15')	Совещание ВЭК, обмен мнениями.		
	<b>ВЭК группа (Медицина, Стоматология, Педиатрия, МПД)</b>	<b>ВЭК группа (Нейрохирургия)</b>	
16:00-16:30 (30')	Интервью с обучающимися НИМО программ ( <i>Приложение 2</i> )  <i>Бейбитшилик 49, 5 этаж, 5 лекционный зал</i>	Интервью с обучающимися ОП резидентуры «Нейрохирургия» ( <i>Приложение 3</i> )  <i>каб 401</i>	Стандарты 1,2,3,4,7
16.30-16.50 (20')	Встреча с и.о руководителя группы аудита качества образовательного процесса <i>Нажимов Шахрух</i> <i>Махаммадович</i>  <i>каб.401</i>		Стандарты 3,7
16.50-17.10 (20')	Встреча с руководителем Управления ИТ инфраструктуры и администрирования информационных систем <i>Мукашев Аслан Даулетханович</i> , сотрудником информационно-аналитического центра <i>Жеңіс</i> <i>Асыгат Аманкелдіұлы</i>  <i>каб.401</i>		Standard 6
17:15-17:35 (20')	Интервью с работодателями МУА онлайн на платформе ZOOM ( <i>Приложение 5</i> )  <i>каб 401</i>		Стандарты 2,7
17.35-18.00	Изучение документации.		

(25')	Завершение 2-го дня визита, подведение итогов. Планирование 3-го дня внешней оценки.	
<b>3-й день внешней оценки: 05 июня 2024 года, среда</b>		<i>Стандарты аккредитации</i>
08:45	Сбор членов ВЭК в МУА	<i>Бейбитшилик 49а, 401 каб</i>
09:00-09:15	Совещание ВЭК	
09:15-09:35 (20')	Встреча с работниками Центра обеспечения качества - <i>Асылаева Кадиша Куспековна</i> <i>каб 401</i>	Стандарты 1,7.8,9
9:35-9:55 (20')	Встреча с сотрудниками Центра международного сотрудничества – <i>Касенова Салтанат Сапаргельдиевна, Билан-Котельникова Лилия Ивановна</i> <i>каб 401</i>	Стандарты 1,7.8,9
10:00-10:20 (20')	Посещение Центра обслуживания обучающихся и сотрудников <i>Каршалова Зарина Бауржановна</i> <i>1 этаж</i>	Стандарты 4,6
10:25-11:00	Совещание , обмен мнениями	
11:00-11:30 (30')	Дополнительные встречи с сотрудниками МУА по запросу членов ВЭК <i>каб 401</i>	<i>Бейбитшилик 49а, 401 каб</i>
11:30-12:30 (60')	Изучение документации	<i>Бейбитшилик 49а, 401 каб</i>
12:30-13:30	<b>Перерыв на обед</b>	
13:35-16:35 (180')	Заключительное обсуждение итогов внешней институциональной и специализированной МУА на соответствие стандартам аккредитации. Заполнение индивидуально каждым членом ВЭК Профиля качества и критериев оценки на соответствие стандартам аккредитации ЕЦА. Обсуждение рекомендаций по улучшению для МУА. Итоговое голосование по рекомендациям для МУА и рекомендациям для Аккредитационного совета ЕЦА по аккредитации университета и образовательных программ.	<i>Бейбитшилик 49а, 401 каб</i>
16:40-17:00 (20')	Ознакомление руководства МУА с результатами работы ВЭК, рекомендациями по улучшению	
17:05-17:30 (25')	Оглашение результатов внешней оценки руководителям подразделений МУА	

17:30-18:00	Завершение работы ВЭК.
18:00	Выезд членов ВЭК из МУА

ЕСАРА