

**REPORT**  
**OF THE EXTERNAL EXPERT COMMISSION ON THE RESULTS OF**  
**THE EVALUATION OF THE EDUCATIONAL PROGRAMME**  
**"OPHTHALMOLOGY (ADULT, CHILDREN'S)"**  
**OF NJSC "SEMEY MEDICAL UNIVERSITY"**  
**FOR COMPLIANCE WITH THE ACCREDITATION STANDARDS FOR**  
**POSTGRADUATE PROGRAMMES (SPECIALTY OF RESIDENCY) IN**  
**MEDICAL EDUCATIONAL INSTITUTIONS**

**period of external expert evaluation: 23-25.05.2022**

**Semey, 2022**

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## List of symbols and abbreviations

<b>Abbreviation</b>	<b>Interpretation</b>
AMP	administrative and managerial staff
PRS	point-rating system
Blueprint	lesson topic technical specification
EKR	East Kazakhstan region
University	Higher education institution
EEC	External expert commission
SAC	State Attestation Commission
SCES	State compulsory standard of education
JD	job description
DOPS	direct observe of procedural skills
ESUVO	unified system of accounting for higher education
ECAQA	Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care
LIS	library information system
FSA	final state attestation
Irbis	library information system
IMS	integrated management system
IEPI	Individual Educational Plan
CIS	Control and measuring system
CQAES	Committee for Quality Assurance in Education and Science
KMIS	kazakhstan Medical Information System
CEP	Educational Programmes Committee
HCF	health care facility
LMS	learning management system KEYPS
MoH RoK	Ministry of Health of the Republic of Kazakhstan
LEB	Local Executive Bodies
MES RoK	Ministry of Education and Science of the Republic of Kazakhstan
MEP	Modular educational programme
MTE	material and technical equipment
mini-CEX	mini-Clinical Exam
MSF	360 Degree Rating
NJSC "SMU"	Non-profit joint-stock company "Semey Medical University"
RW	Research work
NLA	normative legal act
GED	General educational disciplines
DQCME	Department of Quality Control of Medical Education
EP	Educational programme
RO	registrar's Office
ATR	assessment of tolerance rating
OSPE	objective structured practical exam
OSCE	Objective Structured Clinical Exam
TS	Teaching staff
WC	Working Educational plan
REMC	Republican Educational and Methodological Section
CBL	Case-based- CBL learning
CbD	Case-based-discussion

CIPP model	c-content programme evaluation model; I - costs, investments; P - process and P – product
Mass media	The media
QMS	Quality Management System
SSS	Student Scientific Society
SU	Structural unit
SSG	student self-government
SP	standardized patients
TEP	Typical educational plan
TBL	Team-based-learning
TUKMOS	Turkish National Standard of Medical Education
SC	Scientific Council
DHC	Health Care Department
SPE	School of Postgraduate Education

ECAAQA

### 1. Composition of the external expert commission

In accordance with ECAQA Order No. 17 dated May 5, 2022, an External Expert Commission (hereinafter referred to as EEC) was formed to conduct an external evaluation of the educational programme "Ophthalmology (adult, children's)" of SMU NJSC in the period of May 23-25, 2022, as follows:

order №	Status as part of EEC	Full name	Regalia, position, place of work/place of study, course, specialty
1	chairperson	Zhanalina Bakhyt Sekerbekovna	doctor of Medical Sciences, Professor of the Department of Surgical and Pediatric Dentistry of NJSC "West Kazakhstan Medical University named after Marat Ospanov"
2	Foreign Expert	Ripp Evgeny Germanovich	candidate of Medical Sciences, Associate Professor, Head of the Accreditation Simulation Center of the Institute of Medical Education FSBI "National Medical Research Center named after V.A. Almazov" of the Ministry of Health of the Russian Federation, Member of the Board of the Russian Society for Simulation Education in Medicine (RSSTM), Member of the Programme Committee of RSSTM, Instructor of the European Council on Resuscitation (ERC)
3	Academic Expert	Dzhandaev Serik Zhakenovich	doctor of Medical Sciences, Professor of the Department of Otorhinolaryngology, NJSC "Medical University of Astana", Academician of the "International Academy of Head and Neck Surgery"
4	Academic Expert	Urazova Saltanat Nurgozhayevna	doctor of Medical Sciences, Head of the Department of Family Medicine No.3 of "Medical University of Astana" NJSC
5	Academic Expert	Zhumalina Akmaral Kanashevna	doctor of Medical Sciences, Professor, Head of the Department of Children's Diseases with Neonatology of the NJSC "West Kazakhstan State Medical University named after Marat Ospanov"
6	Academic Expert	Turgunov Yermek Meiramovich	doctor of Medical Sciences, Professor of the Department of Surgical Diseases of the NJSC "Medical University of Karaganda", President of the OS "Surgical Association of Karaganda Region", member of the International Surgery Society, member of the "Association of Independent Experts of Astana" and "Union of Independent Experts of KSMU"
7	Academic Expert	Ligai Zoya Nikolaevna	doctor of Medical Sciences, Head of the Department of General Medical Practice with the course of the AEMC of the NEI "Kazakh-Russian Medical University"
8	Academic Expert	Chingaeva Gulnar Nurtasovna,	doctor of Medical Sciences, Professor of the Department of Clinical Disciplines of the Higher School of Medicine of NJSC "Kazakh National

			University named after Al-Farabi”, Member of the Association of Nephrologists of Kazakhstan, Russian Dialysis Society, International Pediatric Nephrology Association, ISN (International Society of Nephrologists), ERA-EDTA (European Renal Association – Dialysis and Transplantation)
9	Academic Expert	Bozhbanbayeva Nishangul Seitbekovna	doctor of Medical Sciences, Professor of the Department of Pediatric Diseases with the course of Neonatology of NJSC "Asfendiyarov Kazakh National Medical University"
10	Academic Expert	Ulzhan Tursunkulovna Beisebaeva	Doctor of Medical Sciences, Professor of the Department of Oncology, NJSC "Asfendiyarov Kazakh National Medical University"
11	<b>Academic Expert</b>	<b>Doshakanova Assel Bidauletovna</b>	<b>candidate of Medical Sciences, Senior Lecturer of the Postgraduate Department of the Kazakh Order "Badge of Honor" Research Institute of Eye Diseases LLP</b>
12	Expert – employer representative	Tuleutaeva Gulnara Esenzhanovna	Organizing physician - social hygienist of the highest category, deputy chief physician of the PSE on the REM "Polyclinic No.1", Semey, EKR HCD
13	Resident Representative	Amina Timurovna Izmaeva	Resident of the second year of study in the specialty "Ophthalmology" of NJSC "Medical University of Astana"

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

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

The EEC report contains an assessment of the educational programme "Ophthalmology (adult, children's)" for compliance with the Standards of accreditation of postgraduate education programmes (residency specialties) of medical educational organizations and conclusions (hereinafter referred to as Accreditation Standards), recommendations of the EEC on further improvement of approaches and conditions for the implementation of the above-mentioned educational programme and recommendations for the ECAQA Accreditation Council.

## 2. General part of the final report

### 2.1. Presentation of the educational programme of the residency in the specialty "Ophthalmology (adult, children's)"

Organization name, legal form of ownership, BIN	Non-profit joint-stock company "Semey Medical University"
Management body	Ministry of Health of the Republic of Kazakhstan
Full name of the chief executive officer	Dyusupov Altai Akhmetkalievich
Created in	1953
Location and contact details	Region/region: East Kazakhstan region Postal code: 071400 City: Semey

	Street: Abay Kunanbayev, 103 Tel.: +7(7222)52-22-51 Fax: +7(7222)56-97-55 E-mail: <a href="mailto:smu@nao-SMU.kz">smu@nao-SMU.kz</a> University website: <a href="http://www.semeymedicaluniversity.kz">http://www.semeymedicaluniversity.kz</a>
State license for educational activities in the residency (date, number)	KZ50LAA00016373 dated June 20, 2019
Information on branches, subsidiaries (if any)	Pavlodar branch Ust-Kamenogorsk branch
Year of implementation of the accredited educational programme (EP)	Year 2016
Duration of training	3 years
Total number of graduates since the beginning of EP implementation	31
Number of residents on EP since the beginning of the current year	19 residents
Full-time trainers/ Combiners involved in the implementation of EP, incl. % of degree	2/5 (Total teaching staff - 7 people, 42.8% of them have an academic degree)

The mission of the educational programme in the specialty of the residency "Ophthalmology (adult, children's)" is based on the Mission of the NJSC "SMU": "Training of a qualified specialist capable of providing a full range of medical care to the population dealing with the pathology of the eye." Acquired knowledge, skills and abilities based on the principle of a patient-centered approach will allow graduates of the residency to work professionally, both independently and as part of multidisciplinary teams in the context of PMHC, inpatient departments of multidisciplinary clinics.

The programme of study in the specialty "Ophthalmology (adult, children's)" includes the study of the main current problems of Ophthalmology, issues of differential diagnosis, diagnosis and modern methods of treatment according to clinical protocols. The educational programme also includes clinical training of the resident under the guidance of a clinical mentor (teacher) and independent work of the resident. Based on the principle of the trinity of education, science and clinics, Ophthalmologists will be able to plan, conduct scientific research with further publication of the results, and transfer their experience to the medical community. All residency teachers in "Ophthalmology (adult, children's)" regularly improve their competencies by attending refresher courses ([https://drive.google.com/drive/folders/1DlsgkwTGdF9O\\_UiCAgqLE-IHL6YQThrM?usp=sharing](https://drive.google.com/drive/folders/1DlsgkwTGdF9O_UiCAgqLE-IHL6YQThrM?usp=sharing)). Responsibilities and duties of employees are reflected in job descriptions

([https://drive.google.com/drive/folders/17XOGOdS7iNCDxtaOaW3xvUHLjZy\\_vjUG?usp=sharing](https://drive.google.com/drive/folders/17XOGOdS7iNCDxtaOaW3xvUHLjZy_vjUG?usp=sharing)).

The department employees have certificates and professional development certificates in such competencies as effective teaching at a medical university, communication skills (<https://drive.google.com/drive/folders/1qKvurkBdm6eFPZdOT8zetMTEZ0hqvKgU?usp=sharing>). All teachers are certified in the highest category in Nephrology. ([https://drive.google.com/drive/folders/1S4TCsfPmz2OiVcp13OV7\\_M74HLOh1k-I?usp=sharing](https://drive.google.com/drive/folders/1S4TCsfPmz2OiVcp13OV7_M74HLOh1k-I?usp=sharing)). For the current period, the department's calorific value is 42.8%.

Graduates who have completed training under this educational programme are 100% employed and successfully work in the medical and preventive organizations of East Kazakhstan region and other regions of the Republic. During the 3-year training, residents were actively involved in

scientific work and research projects carried out at the Department of Neurology, Ophthalmology and Otorhinolaryngology. As a result of this activity, participation in scientific and practical conferences of the republican and international level, with oral, poster presentations, co-authorship in publications of theses and articles, including in journals recognized by CQAES of the Ministry of Education and Science of the Republic of Kazakhstan. In total, graduates of the specialty "Ophthalmology (adult, children's)" published more than 10 theses and articles, took part in 4 scientific and practical conferences. All residents actively participated in social projects to conduct sanitary and educational work among the population on early detection of glaucoma, prevention of myopia, bacterial conjunctivitis. Actively participated in medical examinations for children and adolescents.

## **2.2. Information on previous accreditation**

The initial accreditation of the specialty "Ophthalmology (adult, children's)" was carried out by the "Independent Agency for Accreditation and Rating", a certificate of conformity was obtained for 5 years from June 19, 2016 to June 18, 2022 (No. AB1367).

## **2.3. Conclusion based on the results of reviewing the self-assessment report of the educational programme "Ophthalmology (adult, children's)" for compliance with the Standards of accreditation of postgraduate education programmes (residency specialties) of medical educational organizations and conclusions**

The self-assessment report on the educational programme in the specialty «7R01147-Ophthalmology (adult, children's)» (hereinafter referred to as the report) is presented on 91 pages of the main text, attachments on 11 pages, copies or electronic versions of 97 documents located at <https://drive.google.com/drive/u/1/folders/1L9FwzBnUPRFSB-6z8qbgvyDwT2ZPfx5i>.

The report is characterized by the completeness of responses to all 9 main accreditation standards and criteria, structured taking into account the recommendations of the Guidelines for the self-assessment of the educational programme provided to the organization of education by the accreditation center - ECAQA, as well as the internal unity of information. The report is accompanied by a cover letter signed by the Rector prof. A.A. Dyusupov, which confirms the reliability of quantitative information and information included in the self-assessment report. The report contains a list of 17 members of the internal self-assessment commission, indicating the responsibility of each employee, information about the representative of the organization responsible for conducting the self-assessment of the educational programme – A.B. Zhunusova, Director of the Department of Academic Work, Candidate of Medical Sciences.

The self-assessment of the educational programme «7R01147-Ophthalmology (adult, children's)» was carried out on the basis of the order of the head No. 41 dated February 9, 2022 "On approval of the composition of the Working Group for self-assessment and preparation for accreditation of educational programmes of the residency for compliance with the standards of specialized accreditation of educational programmes of the Eurasian Center for Accreditation and Quality Assurance of Education and Health Care (ECAQA)".

The report was reviewed by Doshakanova A.B., an accreditation expert, and the review noted strengths and areas for improvement, as well as recommendations for additions and changes. Thus, in the process of feedback from the representative of the educational organization, experts received answers to the questions that arose and the self-assessment report was amended accordingly and additions were made to the recommendations of the reviewers.

All standards include the real practice of NJSC "Semey medical university" for the training of residents in the specialty «7R01147-Ophthalmology (adult, children's)», **taking into account the beginning of admission of students in 2016, reasoned data, examples of the implementation of the tasks of the educational programme, national and international events, methodological support, confirming compliance with the requirements of accreditation standards.** The description in the self-assessment report is sufficiently complete and updated in terms of the number of residents, teachers, administration, information on selection



and admission, learning outcomes, results of knowledge and skills assessment, material and technical base of the university and clinical bases, contractual obligations with partners (universities, associations, bases), financial information, plans for development and improvement.

The report is submitted to ECAQA in a completed form, with correction of the data on the above recommendations, written in a competent language, the wording for each standard is clear and understandable and described in accordance with the criterion of standards, tables and contain references in the text and have end-to-end numbering.

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

### **3. External expert evaluation assessment**

External expert work in the framework of the evaluation of the educational programme 7R01147 - "**Ophthalmology** ( adult, children's)" was organized in accordance with the Guidelines for the External Evaluation of Educational Organizations and Educational Programmes of ECAQA (approved by the order of the Director General of the "Eurasian Center for Accreditation and Quality Assurance in Higher Education and Health Care" No.5 dated February 17, 2017) and in accordance with the programme approved by order No. 17 dated May 5, 2022 by the Director General of ECAQA Sarsenbayeva S.S. and agreed with the Chairperson of the Board - Rector of NJSC "SMU" Dyusupov A.A.

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 within 3 days is presented in detail in the Visit Programme (hereinafter referred to as the Programme), which is contained in the documentation of the accreditation center and in Attachment 3 to this report. The programme is evidence of the implementation of all planned activities within the framework of an external expert evaluation.

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

- interview with management and administrative staff – 17 people in total;
- interviews with residents – 19 students;
- study of the [website https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/rezidentura/](https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/rezidentura/);
- interviewing 20 employers, 18 teachers;
- questionnaires of teachers and residents - 26 and 124, respectively;
- monitoring the training of residents: attending a practical lesson on the topic "Hypertensive angio-retinopathy". Lecturer - Head of Department, Professor Semenova Yulia Mikhailovna. 6 first-year resident ophthalmologists (101 groups) took part in the training. Method: ophthalmological department of the "Ophthalmosurgery" institution in Semey;
- review of resources in the context of the implementation of accreditation standards: visited the practice/clinical training base – outpatient and polyclinic, inpatient department of the "Ophthalmosurgery" institution in Semey, at the address: Defense 86, 1,2 floors. 2 teachers of the department work on the basis;
- study of educational and methodological documents in the amount of 97 units both before the visit to the organization and during the visit to the units (the list of studied documents is in Attachment 2).

The staff of the accredited organization ensures the presence of all persons indicated in the visiting programme and according to the lists of interviews and interviews (Table 1).

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

<b>№</b>	<b>Full name</b>	<b>Job Title</b>
1	Altai Akhmetkalievich Dyusupov	Chairperson of the Management Board - Rector
2	Tanatarova Gulnaz Nursoltanovna	Acting Deputy Chairperson of the Management Board for Academic and Educational Work
3	Omarov Nazarbek Bakhytbekovich	Deputy Chairperson of the Board for Science and Strategic Development
4	Turarova Elmira Merkhatovna	Head of Graduate and MF Employment (Residency)
5	Manatova Almira Manatkyzy	Dean of the School of Postgraduate Education (residency)
6	Kusainova Gulnara Zhomartovna	Head of Training Department
7	Bekbolatova Mariya Adletkyzy	Deputy Dean of SPE
8	Dzhobalayeva Bagym Sasanovna	residency methodologist
9	Krykpayeva Saltanat Sayatovna	Head of Research Institute
10	Dzhametdinova Ulzhan Slamovna	Head of the Department of Epidemiology and Biostatistics
11	Baybusinova Assel Zhanartasovna	Head of the Department of Epidemiology and Biostatistics
12	Yerkezhan Sayatovna Tursinkanbetova	Deputy Chairperson of the Management Board for Organizational and Economic Work
13	Kadirova Elmira Asylbekovna	Head of Human Resources Department
14	Balashkevich Natalia Aleksandrovna	Acting Head of the Department of Medical Education
15	Gulnara Tursyngazyevna Nurgaliyeva	Head of Clinic Department
16	Malchenko Victoria Valerievna	Specialist of the Clinic Department
17	Masabaeva Meruert Ravilievna	Chief Researcher, JESL
<b>CEP Members</b>		
1	Zhanaspaev M.A.	chairperson of the CEP residency
2	A.K. Akhmetova	head of the Department of Ophthalmology and Cosmetology
3	Semenova Yu.M.	head of the Department of Neurology, Ophthalmology and Otorhinolaryngology
4	G.A. Berekenova	head of the Department of Maxillofacial and Plastic Surgery
5	F.F. Yagofarov	associate Professor of the Department of Infectious Diseases and Immunology of NJSC "SMU"
6	Adilgozhina S.M.	assistant of the Department of Family Medicine
7	Alibekova B.A.	assistant of the Department of Perinatology
8	Kapakova M.A.	Assistant of the Department of Hospital Therapy

9	Shakhanova A.T.	assistant of the Department of Faculty Therapy
10	Toktarova Zh.Zh.	Assistant of the Department of Hospital Therapy
11	Kazymov E.M.	assistant of the Department of Cardiovascular and Thoracic Surgery
<b>Employers</b>		
1	Raushan Kusainovna Kikimbayeva	deputy Director for the Medical Part of NJSC "SMU" UH, Semey
2	Zhanara Degelenovna Zhunusova	Head of the Polyclinic of the Skin and Venereology Department of the City Hospital No.2 of Semey
3	Kairat Salimbekovich Mausymbayev	doctor of the polyclinic of the skin and venereal medicine department of the city hospital No.2 in Semey (clinical mentor of residents)
4	Sandybaeva Mensulu Yexanovna	director of the SEMEYOFTUM Ophthalmology Clinic
5	Buleukhanova Roza Tusupzhanovna	candidate of Medical Sciences, Director of the "Zhan-Er" MC
6	Bekbayev Marat Kozhakhmetovich	chief Physician of the State Enterprise on the Right of Economic Management "Polyclinic No.4 of Semey" of the DHC of East Kazakhstan region
7	Almenova Nailia Sapanovna	Chief physician of the polyclinic No. 3 in Semey
8	Zhanat Tursyngaliyevna Moldagaliyeva	Head of Polyclinic No.7 in Semey
9	Baltakaeva Almagul Kabiyeвна	chief Doctor of the Central Hospital of the Abai District, village of Guard
10	Dyusekenova Gulzhazira Kinayatovna,	Head of the Neonatal Service of the Human Rights Center in Semey.
11	Abeshova Asiya Mukhametkarimovna,	head of the Department of Neonatal Pathology of PC, Semey
12	Galiya Aytchanovna Alibekova.	Deputy Director for Medical Work, EMH
13	Popov Sergey Alexandrovich	Chief Physician, "City Hospital No. 4" PSE on the REM, Ust-Kamenogorsk
14	Abdieva Zagripa Tokenovna	freelance Chief Pulmonologist of DHC of East Kazakhstan Region
15	Azimbaeva Indira Muslimkhanovna	director of MC Hippocrates, Semey
16	Duman Medeuov	Director of the Renal Center in Semey
17	Nail Sergalievich Smailov	Head of the Neurosurgical Department of UH NJSC "SMU"

Thus, when implementing the activities of the programme, namely, according to the results of the interview with the first head of the organization, the Chairperson of the Board, the Acting Deputy Chairperson of the Board for Academic and Educational Work, the Deputy Chairperson of the Board for Science and Strategic Development, the Deputy Chairperson of the Board for Organizational and Economic Work, the Head of the Department of Employment of Graduates and MF, the Dean of the School of Postgraduate Education, the Head of the Training Department, the Head of the Research Institute, the Head of the Department of Personnel Management, the employees of the units and the Head of the Department of Employment of Graduates and the Medical Foundation, the Head of the Department of the Clinic, the employees of the JESL, members of the advisory bodies: the CEP of the Residency, in interviews with residents and

teachers, compliance with the criteria of **Standard 1** was established. All participants in the educational process know the mission of the organization, took part in the formation of proposals for the formulation of the mission, while the mission was brought to the attention of potential residents through the website, social networks, information letters to medical organizations. The Programme for the development of NJSC "SMU" for 2020-2024 was reviewed, which includes such areas as "Promotion of public health" and "Entry into the top-700 universities of the world according to the QS version", which confirms the implementation of the accreditation standard and demonstrates the goals, objectives and prospects of the organization. From interviews with residents, it was established that before the beginning of classes, teachers inform about the mission, work plans of the organization of education, tell where to get the necessary information about the educational programme, teachers, training bases. This indicates compliance with **Standard 2** in terms of adapting training to the needs of residents.

The organization's documents contain work programmes, EMCD, which define the goal, take into account the integration of practical and theoretical components, independent work. Compliance with the SCES and standard requirements has been established. Attending the practical lesson on the topic "Hypertensive angio-retinopathy", in the amount of 1 academic hour, the experts received convincing data that the training is carried out according to the plan, before the beginning of the lesson, the residents answer the tests, receive feedback from the teacher, have the opportunity to improve their skills in ophthalmology. The organization ensures compliance with ethical aspects in the implementation of the educational programme, since the experts studied the code of ethics G 041.03/04.05.01-2019 dated 01.04.2019 and during the interview the residents replied that they were informed about the content of this document.

Along with this, residents deepen their theoretical knowledge, develop communication skills.

The analysis of educational activities showed that the scientific basis and all the achievements of science in advisory disciplines are taken into account, additions are made to the bibliography of the EP EMCD and syllabuses, and teachers apply them in classes.

The study of control and measuring tools (600 tests of the database of test tasks, 100 KEYPS tests, 50 clinical tasks) showed that the organization has implemented a proper evaluation policy that allows a comprehensive assessment of the educational achievements of residents. During the interview, the residents spoke about the forms of assessment, for example, assessment sheets for solving situational problems, assessment sheets for performing practical skills and that they are satisfied with everything. They also receive regular feedback from teachers. The system of appealing the results of the assessment is reflected in the "Regulation on the conduct of the appeal" G-041.03.23-2020 dated May 29, 2020, and during the period of work of the organization of education, there were no precedents for the appeal. Thus, compliance with standard 3 has been established.

During the visit to the organization and during the interview with an employee, Candidate of Medical Sciences, Head of the Department Semenova Yulia Mikhailovna, the commission made sure that there is a documenting system that is transparent and accessible to all teachers and employees, and includes such documents as annual operational plans, annual reports, provisions of divisions, contracts with teachers and residents, individual plans of teachers and educational and methodological documentation (work programme, work curricula, syllabuses, journals), evaluation tools (checklists, sheets), certificates, portfolio of residents. A review of the website showed that its pages contain the necessary documents for residents "Regulations on the portfolio", "Regulations on residency" of NJSC "Semey Medical University", "Academic Policy" of NJSC "Semey Medical University", "Policy of academic honesty", etc., and there is up-to-date information that is regularly updated. Up-to-date information is available and regularly updated.

The conversation with the teachers of the department included such issues as the content of the educational programme, the formation of a catalog of elective disciplines, methods for evaluating residents, the sufficiency of clinical bases and their material and technical equipment, the amount of hours for academic mentors, requirements for clinical mentors, scientific research

and publication activity of resident Ophthalmologists, the implementation of academic mobility of teachers and residents, etc., and allowed experts to learn about approaches to attracting employees of clinical bases for teaching (5 people in total), about the strategy and tactics of recruitment of residents, the information security of the educational programme, as well as to identify problems in the management and development of human resources, since most clinical mentors do not have sufficient knowledge of teaching and evaluation methods.

Experts received answers about the programme of professional development of teachers, financing of this training, availability at teachers of certification on methods of teaching.

On the same day, experts studied materials on the admission of residents and the selection of teachers and established compliance with standard 4.

In order to verify the data of Standard 5, external experts received an opinion on personnel policy and approaches to the development of teachers' pedagogical competence, motivation to work with residents, and mentoring. Thus, in 2021, Candidate of Medical Sciences Semenova Yu.M. implemented academic mobility in Universidad Católica de Valencia "San Vicente Martin", Valencia, Spain under the Erasmus+ Chair programme.

Experts found that teachers of the Department of Neurology, Ophthalmology and Otorhinolaryngology initiate research topics for residents for the main reasons of blindness and vision impairment, stimulate the need for additional training and independent work with literature, medical documentation (outpatient maps, medical records), the implementation of the individual plan of the resident, the implementation of sanitary and educational work among the population, academic mobility of residents. Thus, the topics of scientific research of residents were dry eye syndrome, open-angle and secondary (silicone) glaucoma, age-related macular degeneration, etc.

During visits to clinical bases, where experts conducted a survey of resources, their compliance with training programmes, accessibility for teachers and students, as far as this equipment is modern and meets the needs of students and practical health care. Experts obtained evidence of compliance with Standard 6, as well as validation of the information in the self-assessment report.

In order to validate the implementation of the data of the self-assessment report and obtain evidence about the quality of the programmes, interviews were conducted with residents in the specialty «7R01147-Ophthalmology (adult, children's)». Experts asked questions about satisfaction with training; availability of necessary literature and equipment; sufficient time for patient supervision and availability of patients with various dermatological pathologies, work in medical information systems (Damumed) with medical documentation; satisfaction with teaching methods and qualifications of teachers; social and moral support for residents in need, participation in the "Journal Club", accessibility of international databases of professional specialized literature. In general, residents are satisfied with the training, assessment methods, and purposefully entered this organization for the accredited specialty, as they believe that the organization of education has good resources, image and international relations, at the same time, residents would like more independence in the management of patients, encouraging the achievements of residents through the mechanism of a flexible system of tuition fees.

Residents showed their commitment to the organization of education, were active in answering the questions of external experts, demonstrated their judgments on the organization of training, the formation of a catalog of elective disciplines, assessment of their skills, advisory support, the ability to participate in research, support for publications, financing participation in scientific and practical conferences. Members of the External Expert Commission (EEC) Experts studied the documents of residents (portfolio, results of assessment of residents - checklists, results of questionnaire of residents).

Interviews with 16 employers were conducted online and included such questions as: knowledge of the university's mission, participation in the development of the mission and proposals to the strategic plan, participation in the work of advisory bodies, satisfaction with the basic knowledge and skills of residents, participation in the training of residents through mentoring, providing the department and residents with the necessary resources for practical

training and formation clinical thinking, interaction with departments and the university as a whole, 100% employment of residency graduates, etc.

The review of resources showed that they correspond to the goals and objectives of educational activities, for example, the clinical base of the department was visited – the institution "Ophthalmosurgery" in Semey with an outpatient polyclinic department, a children's day hospital, a day and 24-hour hospital, an operating unit, and employees of the organization of education provide collegial and ethical relations with medical personnel, the management of the clinical base to achieve the final results of residents. A sufficient number of thematic patients, modern equipment and demonstrates accessibility to students are provided, and employees who simultaneously perform the roles of teachers and mentors (mentors) provide high-quality training in compliance with ethics and deontology. Before starting the relevant discipline of the educational programme, the resident receives a syllabus from the teacher and knows what skills he must acquire and develop during the training.

During the visit, the residents demonstrated the skills of taking an outpatient patient, using a scorecard, where they were able to demonstrate the skills of examining a patient with hypertension, namely, examining his/her fundus using a direct ophthalmoscope and an aspherical lens, interpreting the data of additional research methods, differential diagnosis with other diseases with a similar ophthalmoscopic picture, and further tactics of managing such a category of patients. A mini-library of the Department of Neurology, Ophthalmology and Otorhinolaryngology with rare, rare publications in the specialty "Ophthalmology (adult, children's)", in Kazakh, Russian and English languages, has been demonstrated. During the open class, residents demonstrated discussion skills, ability to make independent decisions, sufficiency of theoretical knowledge, actively discussed clinical cases. Teachers of the department demonstrated on the KEYPS platform test tasks, the formation of formative and summative assessment of residents.

On the last day of the visit to the organization, a meeting of EEC members was held on the results of the external evaluation. The final discussion of the results of the external evaluation of the educational programme, the study of documents, the results of the interview, questionnaires was held. EEC members started designing the final EEC report. The results of the external evaluation are summarized. Experts individually completed the "Quality profile and criteria for external evaluation of the educational programme «7R01147-Ophthalmology (adult, children's)» for compliance with the ECAQA Accreditation Standards". No comments were made by the EEC members. Recommendations for improving the educational programme were discussed and the Chairperson Zhanalina B.S. held a final open vote on recommendations for the ECAQA Accreditation Council for the accreditation period.

For the work of the EEC, comfortable conditions were created, access to all the necessary information and material resources was organized. The Commission notes the high level of corporate culture of the NJSC "SMU", the high degree of openness of the team in providing information to the members of the EEC.

At the end of the programme of the visit, the chairperson of the EEC for the management and employees of the organization of education announced recommendations on the results of an external assessment within the framework of specialized accreditation.

#### **4. Results of the survey**

An observer from the ECAQA conducted an online survey on the resource in the period 23-25.05.2022 <https://webanketa.com/>.

##### **The resident survey includes 39 questions.**

A total of 124 people responded.

Analysis of the results of the survey of students in the residency showed that the majority of respondents (75 people - 60.48%/) were residents of the first year of study, 32 people (25.81%)- residents of 2 years of study, and only 7 people (5.65%)- residents of 3 years of study. The level of organization of the educational process, including the issues of equipment of clinical bases, access to participation in research work, electronic educational resources and library collection,

satisfaction with evaluation methods, the list of disciplines by the prevailing majority of residents (75%- 91.9%) is assessed as high. Social issues, such as the conditions for rest and meals for students, the availability of medical services, the availability of social programmes to support students, the respectful attitude of teachers to students are also highly appreciated (79%, 88.7%, 87%, 97.6%, respectively). Despite wide access to participation in research - 89.5%, published scientific works only in 50.8% of respondents. This is probably due to the prevailing participation of first-year residents in the survey. Therefore, in order to objectively assess the results of the survey, it is necessary to conduct a survey with approximately equal groups of residents of all years of study.

**The survey of teachers included 25 questions of the questionnaire.** In total 26 people (in total in the staff 427 people) answered, thus pedagogical experience till 5 years – at 15,38%, till 10 years – 7,69%, more than 10 years - 76,9%.

The analysis of the results of the survey showed a low activity of teachers of NJSC "SMU" in the survey - 6.1% of the total number of full-time teaching staff. The organization of the educational process, taking into account the organization of work, the availability of resources, free access to patients, opportunities for career growth and pursuit of science, professional development - are rated as high (within 73%- 88.5%). The social component, including questions on satisfaction with wages, support for participation in conferences, the implementation of social support programmes for the teaching staff amounted to 42.3%, 30.7%, 65.3%. Of the 26 teachers interviewed, only 1 person was not involved in the preparation for accreditation of the university. At the same time, 61.5% of respondents consider all activities of external expert evaluation to be important for obtaining evidence in the implementation of standards. At the same time, only 30.7% of teachers would like to become experts in accreditation of educational programmes, which is probably due to the high workload of full-time university teaching staff.

The results of the survey in general demonstrate satisfaction with the educational process, the resources of the clinical base, the competencies of teachers, and also indicate the existence of centralized management of educational programmes.

## **5. Analysis for compliance with accreditation standards based on the results of an external evaluation of the educational programme in the specialty "Ophthalmology (adult, children's)"**

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

#### **Evidence of compliance:**

##### **1.1 Mission statement and deliverables**

The mission of the educational programme of the residency in the specialty 7R01147 "Ophthalmology (adult, children's)" is based on the mission of the NJSC "Semey medical university" - "Assistance to improve the health of the population of the Republic of Kazakhstan through the qualitative training of competitive specialists" (<https://semeymedicaluniversity.kz/onas/>). The mission of the educational programme in the specialty of the residency "Ophthalmology (adult, children's)" is based on the Mission of the NJSC "SMU": "Training of a qualified specialist capable of providing a full range of medical care to the population dealing with the pathology of the eye."

As a result of meetings and interviews with teachers, employers, residents and graduates of the educational programme, it was possible to establish that, based on the principle of the trinity of education, science and clinic, ophthalmologist graduates, taking into account the patient-centered approach, will be able to work professionally in medical organizations, both outpatient and inpatient. Educational programme for discussion with representatives of ophthalmological clinics and departments of Semey, Ust-Kamenogorsk, Pavlodar is published on the website of the

university(<https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/rezidentura/>).

The study of the documentation showed that the content of the mission of the educational programme of the residence in the specialty "7R01147-Ophthalmology (adult, children's)" is based on the analysis of the needs of public health and the medical care system. The mission was formulated taking into account the existing need for qualified specialists in the field of ophthalmology of East Kazakhstan and Pavlodar regions. The content of the mission and the educational programme in general were presented to external stakeholders, discussed at an enlarged meeting of the department

[https://drive.google.com/file/d/1UTB\\_-\\_roi\\_1sZ7yDiE\\_UYEqYAgqc2djM/view?usp=sharing](https://drive.google.com/file/d/1UTB_-_roi_1sZ7yDiE_UYEqYAgqc2djM/view?usp=sharing)).

The educational programme of the residency "7R01147-Ophthalmology (adult, children's)" has in its structure the module "Research in medicine", which includes the disciplines "Management of scientific research" and "Biostatistics". In the Collection of abstracts 64 of the scientific and practical conference "Science and Health" with international participation, dedicated to the Day of Science of the Republic of Kazakhstan (12-13.04.2022) (<https://semeymedicaluniversity.kz/>), the work of residents Iskakov T.A., Akhmetzhanova B.K., Ishimova G.M. on "Results of sedation therapy in patients with open-angle glaucoma" was published in English, in the Collection of abstracts of the conference of 19.11.2021, the joint work of resident Iskakov T.A.s head of the department Semenova Yu.M. "Features of nursing care for glaucoma and cataract" Residents Suleymanov A.Yu., Akhmetzhanova D.M., Sadykova A.B. made a report at an international scientific conference in Sheffield (30.12.2021-07.01.2022) with a report "Secondary "silicone glaucoma in the surgery of regmatogenic retinal detachment ", residents Kashitov A.O., Akhmerova A.A. with a report "Clinic of dry eye syndrome ".  
Resident Akhmetzhanova D.M., participated in the conference "Mechnikov Readings-2021" (29.04.2021).

<https://drive.google.com/drive/folders/1eWMAewr2jVV9bD9bDrf5Gmrl3VK-OHdi?usp=sharing>

As part of the updating of knowledge, the development of scientific competencies, resident ophthalmologists participate in research conferences, webinars. Every year, ophthalmologists take part in the events dedicated to the World Glaucoma Day (2nd week of March), World Vision Day (2nd October). They participate in preventive examinations of schoolchildren and college students, carry out active sanitary and educational work on the prevention of myopia and infectious diseases of the eyes.

## **1.2 Professionalism and professional autonomy**

Visit to the clinical base, open classes on the topic: "Hypertensive angio-, retinopathy", meetings with teachers and residents allowed us to see that adhering to a patient-centered approach in the clinical process, while maintaining the need for assistance, each resident has an individual level of such quality as professionalism. The formation of professionalism is formed on the basis of direct on-the-job training, where residents face clinical situations of various levels of complexity, learning from the experience of senior colleagues, and thereby building their own model of behavior.

Based on the Law on Education of the Republic of Kazakhstan, where the autonomy of higher and postgraduate education organizations is enshrined, which gives the right, on the basis of standard rules, orders, etc. The university determines independently the development of the educational programme, assessment, selection and admission of residents, selection/selection of teachers, employment conditions and allocation of resources.

The Regulations on Residency reflect the rights of residents, the implementation of which is facilitated by the department. Freedom of expression of the resident's opinions on their education is usually ensured through anonymous questionnaires, which are carried out centrally, under the supervision of the DQCME. Analysis of feedback on training satisfaction is reported at the departmental meeting.



In the course of interviews with residents, it was established that the freedom of practical and research activities is realized through the work of residents, where under the guidance of a department employee, work is carried out in research work, subsequent analysis and interpretation of data, and then writing an article or thesis.

Feedback is systemic. Thus, in the lobby of the main building, an urn is installed to collect information (proposals, complaints, recommendations) from students addressed to the rector, the chairperson of the Anti-Corruption Committee (<https://semeymedicaluniversity.kz/obshhestvennyj-sovet-po-protivodejstviyu-korruptzii-v-mediczinskom-universitete-semej/>), the SSU. Each month, the contents of the urn are examined and analyzed by a commission. Based on the results of the commission's work, a plan of measures to eliminate complaints is being developed.

### **1.3 Learning outcomes**

The final training results presented in the MEP in the specialty «7R01147-Ophthalmology (adult, children's)» are aimed at forming a qualified specialist in the field of Ophthalmology, able to work as a Ophthalmologists (adult, pediatric) and provide specialized assistance at the consultative-diagnostic, inpatient-replacement and inpatient levels.

The final results of training in the specialty of residency "7R01147-Ophthalmology (adult, children's)" were formed on the basis of the SCES 2020 and the provisions of Tucmos on competencies in the residency of the university partner of the University of Bashkent (Turkey). When formulating the final results of training, the Key Competencies of the SCES were taken as the basis (Appendix – 1.7 EP KC 1-6), Levels of knowledge of clinical competencies (PD, DT, E, P, etc.) and Levels of knowledge of practical skills, manipulations, procedures (1-4). Each of these items is prescribed and applied to nosologies (ICD-10) studied in the residency in priority training of a specialist.

For example, KC-1 - (DT - Able to diagnose and treat patients without the help of a team (team work), DTT - Able to diagnose and treat, working together with a team (team), E - Able to identify an emergency situation and provide emergency care, P - Able to apply preventive measures (primary, secondary, tertiary prevention).

The skills of professional behavior; proper behavior and attitude to patients and their relatives, resident colleagues, teachers, other health care workers (KC-2) are formed on an ongoing basis by conducting conversations, participating in trainings conducted by the staff of the department, a 360-degree questionnaire.

The Code of Ethics for Students, adopted by the NJSC SMU prescribes the principles of the corporate behavior of students, the relationship of students with teachers and among themselves, the relationship of students with doctors, etc. ([https://drive.google.com/file/d/17\\_CHtm8nfJZOHu7nlPivOsU01qIqt3q/view?usp=sharing](https://drive.google.com/file/d/17_CHtm8nfJZOHu7nlPivOsU01qIqt3q/view?usp=sharing)).

Informing the medical community about the established final results of training on the residency programme in the specialty "7R01147-Ophthalmology (adult, children's)" is carried out by discussing the educational programme at the department, providing the EP to the heads of healthcare organizations and receiving feedback, publishing the EP approved by the Academic Committee on the website of the NJSC [SMU](https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/) (<https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/>)

Since the EP is focused on the expectation of the employer and the needs of the labor market, coordination of the elements of the EP, CED is carried out with employers. Employers, members of professional associations are involved in the review of EP, participation in the discussion of the results at the meetings of the commission on quality assurance of EP.

### **1.4 Participation in the formulation of the mission and final results**

All interested parties (university employees, graduates of the residency, health and education authorities, healthcare organizations, employers, professional medical associations, the public) participate in the formation of the mission and final results of training, taking into account their proposals.

The mission and final results of EP training are formulated on the basis of the Standard for the Organization of Ophthalmic Care to the Population of the Republic of Kazakhstan. Representatives of the main stakeholders are involved in the formulation of the mission of the EP by discussing the draft mission of the EP at the level of: students, at an enlarged meeting of the Department, the Academic Committee, which includes representatives of employers/representatives of practical health care, students and representatives of various clinical specialties.

**Conclusions of the EEC on the criteria.** Compliant with 17 standards: full – 17.

**Standard 1: Implemented**

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

## **Standard 2: EDUCATIONAL PROGRAMME**

### **Evidence of compliance:**

#### **2.1 Postgraduate programme framework**

The educational programme in the specialty "Ophthalmology (adult, children's)" was developed in accordance with the State Standard Educational Standard for the Specialty "Ophthalmology (adult, children's)", taking into account the approaches to the training of residents of the university-partner - the University of Bashkent (Turkey).

The standard curriculum provides for 3-year training in the residency, with a total of 6,300 hours (210 credits) and obtaining a qualification - an ophthalmologist.

Also, as a mandatory requirement, the programme includes 4 credits of the "Interim Certification" and 2 credits of the "Final Certification". In total, the educational programme in the specialty "Ophthalmology (adult, children's)" consists of 210 loans.

The list of the most common diseases and conditions to be diagnosed and treated by a Ophthalmologists, given in the Standard Curriculum for the specialty "7R01147-Ophthalmology (adult, children's)" is fully covered by the list of nosologies and conditions to be mastered by the resident according to the programme "7R01147-Ophthalmology (adult, children's)", developed on the basis of the study of the requirements of regulatory documents, the TUKMOS programme of the partner's university and the needs of practical health care. The peculiarity of this list is the level of mastery for each state/nosology (E, PD, D, DT, DTT, P), which is the result of strategic cooperation with Bashkent University.

A work curriculum and an educational programme are being developed that provide for modular study of disciplines in compliance with the logical sequence of study of disciplines (EP-<https://semeymedicaluniversity.kz/obuchenie/obrazovatelnye-programmy/rezidentura/>) for the entire period of study based on the standard curricula of the specialty (<https://drive.google.com/drive/folders/1HqA8L15uWSC5L7J3RWd0upnCoyhpRGI1?usp=sharing>) and are approved by the chairperson of the academic committee on the basis of the decision of the Academic Council. The work plan contains a complete list of academic subjects grouped into modules with disciplines, indicating the complexity of each academic subject in credits and academic hours. The programme is included in the register of ESUVO of the Ministry of Education and Science (MES RK).

Given the practical orientation of resident training, clinical mentoring occupies an important place, both from the point of view of regulatory documents and from the point of view of the university. Since 2018-2019, the University has a School of Clinical Mentor. Since 2020-2021, the training of mentors by practical health care at this school is mandatory. Only specialists with extensive clinical experience, having the highest and first qualification category, are involved as mentors for resident nephrologists, which allows transferring skills and experience in a certain field of nephrology to residents. Mentors are assigned to a certain resident during the rotation of the resident in this department of the clinical base, which allows you to accompany the practical training of the resident.

The educational programme for residency «7R01147-Ophthalmology (adult, children's)» is composed in such a way that the entire list of mandatory disciplines is formed logically and in relation to the future specialty in the future. With the successful completion of the training programme, the resident Ophthalmologists will be able to effectively provide qualified dermatological care to the adult and pediatric population, successfully interact with others, carrying out its activities in compliance with the principles of safety and quality.

## **2.2 Scientific method**

Resident Ophthalmologists simultaneously with clinical work, under the guidance of a teacher, conduct active research activities. In the "Ophthalmology (adult, children's)" programme, 8 credits have been allocated to strengthen the skills of medical research methodology, which finds practical application in the ability to develop a research protocol, perform it and document the results in the form of an article or protection of a scientific project. The disciplines "Management of scientific research" and "Biostatistics", combined in the module "Research in medicine", are only auxiliary, while the resident will use and improve the acquired skills throughout the residency programme, as well as in his further professional activities.

In addition, the Department of Neurology, Ophthalmology and Otorhinolaryngology regularly hosts the "Journal club", which helps residents to develop the skills of critical assessment of medical literature and scientific data.

When studying the disciplines of the educational programme in the sections of diagnostics and treatment of eye diseases, clinical protocols and principles of therapy from the standpoint of evidence-based medicine are studied. In the process of training, resident Ophthalmologists carry out tasks to draw up individual programmes for diagnosis, treatment, rehabilitation for various diseases of newborns in accordance with clinical protocols and the principles of evidence-based medicine.

The results of residents' research activities are regularly published in the form of abstracts, articles, and reports at conferences.

Teaching the basics of working with scientific literature, the formation of primary skills of critical assessment of literature, writing scientific articles is carried out in the disciplines of basic higher medical education in the form of various forms of independent work, participation in the SSS, student scientific conferences. The disciplines "Management of scientific research", "Biostatistics" of the training programme impart to residents the principles of scientific approach and evidence-based medicine and form their ability to analytical and critical thinking.

Upon completion of the study of the disciplines of EP «7R01147-Ophthalmology (adult, children's)», the resident demonstrates knowledge of evidence-based medicine in relation to his/her specialty, masters the skills of conducting an expert assessment of a scientific article, medical history, standards of examination and treatment based on the principles of evidence-based medicine. The EP provides for training of residents in critical assessment of literature, articles and scientific data through the writing of abstracts, presentations in accordance with the thematic plan of the discipline, essays on current problems of diagnosis and treatment of the most common diseases.

## **2.3 Content of the residency programme**

The core disciplines of the mandatory component of the "Ophthalmology (adult, children's)" EP are aimed at theoretical and practical training of residents in the field of clinical sciences and preventive medicine, making clinical decisions, communication skills, patient safety issues. Improvement of knowledge and skills in the field of medical ethics, public health, responsibility for one's own health, laid down at the undergraduate level, is carried out directly during practical training with the help of mentors. More complex issues of medical jurisprudence and forensic medicine, knowledge of complementary and alternative medicine develop in the course of discussing various approaches to non-standard situations in the course of discussing clinical cases, analyzing situations, studying the experience of other colleagues.

The development of clinical skills and professional attitude to work is facilitated by the participation of residents in the real activities of the doctor: supervision of patients at the inpatient

level, outpatient reception, medical conferences, registration of medical documentation, work in medical information systems (KMIS, AIS), work with regulations, duty, preparation of reports, presentations, formation of a portfolio that provides a visual example of a professional attitude to work in a medical organization and interprofessional communications of specialists of various profiles and levels.

The content of the training programme in the specialty of the residency "Ophthalmology (adult, children's)" changes depending on the results of the evaluation of the programme, the requirements of the legislation, the needs of practical health care, the study of international experience, including the experience of the partner's university. In 2018, the NJSC SMU was actively working to revise approaches to the formation of final results in the residency, approaches to training and evaluation of residents. In 2019, the project of the SCES Residence was published, in 2020, it was approved by the SCES Residence, in connection with which the residency programme was revised. These changes in the legislation coincided with the study of experience at the University of Bashkent. As a result of these processes, the modular programme of residency "Ophthalmology (adult, children's)" in 2021 was developed.

The duration of the training is 3 years, 6 key competencies (KC 1-6) remain unchanged. However, according to the new TEP, the composition and scope of disciplines have been changed. The concepts of "level of knowledge of clinical competencies (E, PD, D, DT, DTT, P) and "level of knowledge of practical skills, manipulations, procedures" (I, II, III, IV), "list of nosologies and conditions that must be mastered by the resident", "List of practical skills, manipulations, procedures that must be possessed by the resident" are introduced. The latter is the result of strategic cooperation with Bashkent University, Ankara, Turkey. The approach to training in the residency of the partner university is taken as the basis, however, the final results of training in the residency of NJSC "SMU" are based on the demands of practical health care and the requirements of regulatory documents of the Republic of Kazakhstan. In addition, changes to the EP are made taking into account the needs of employers and practical health care, respectively, employers can make changes that affect the introduction of additional disciplines of the component of choice.

#### **2.4 Programme structure, content and duration**

The educational programme consists of 210 credits. The programme structure includes 3 modules:

2 modules of the mandatory component:

Module 1 – Outpatient and Polyclinic Ophthalmology:

Outpatient and polyclinic ophthalmology-1;

Outpatient and polyclinic ophthalmology-2;

Module 2 - Inpatient Ophthalmology

Inpatient ophthalmology-1;

Inpatient Ophthalmology-2

Inpatient Ophthalmology-3

Inpatient Ophthalmology-4

Inpatient Ophthalmology-5

Module 3 - Study in Medicine:

Research Management

Biostatistics

The principle of building a modular educational programme is based on the logic and consistency of studying disciplines. Prerequisites are strictly observed. The principle of rotation and separation of the main disciplines "Ophthalmology in the hospital" and "Outpatient polyclinic Ophthalmology" allows to consistently deepen the level of mastery of the most important nosological units and medical manipulations.

The ratio of classroom classes and independent work under the guidance of a mentor and independent work of a resident is 10%-75%-15%.

The educational programme "Ophthalmology (adult, children's)" allows residents to plan and implement an individual, directed learning path during the entire training, preparing for work

in the chosen specialty. The number of study hours for three years of study is 6,300, which corresponds to 210 credits, 8 of which are in the elective component (CC) – elective disciplines. The division of disciplines by hours and semesters is carried out by the department of academic work. All academic disciplines and sections of the curriculum are closely interrelated. The formation of the content of disciplines is structured into logically completed methodological blocks. Interdisciplinary communication can be clearly seen in the syllabuses of academic disciplines, compiled taking into account the development of prerequisites and postrequisites, as well as taking into account the specifics of the specialty.

The list of disciplines of the component by choice is compiled in accordance with the CED, formed and approved annually at the university. In the educational programme "Ophthalmology (adult, children's)", the EDK, in addition to the disciplines "Management of scientific research" and "Biostatistics", includes such disciplines as "Particular questions of neurology in ophthalmology", "Particular questions of dermatology in ophthalmology", "Particular questions of infectious diseases in ophthalmology", "Radiation diagnostics of diseases of the eyes", "Particular questions of neurosurgery in ophthalmology", "Particular questions of maxillofacial surgery in ophthalmology", "Particular questions of otorhinolaryngology in ophthalmology". However, this CED is not approved and, during the study of the provided documentation and interviews with focus groups, it was found that 100% of residents necessarily choose the disciplines of the component for the choice of "Research in Medicine" in the amount of 8 credits, thereby excluding the choice of the remaining 6 disciplines in the profile.

## **2.5 Organization of training**

NJSC SMU has adequate representation of staff, trainees and other stakeholders in the planning of the educational programme. For example, the Academic Committee with a subcommittee on residency includes heads of departments, professors, associate professors, teachers of departments that provide the educational process in the relevant specialty of the residency, leading specialists in practical health care, employers, and representatives of the student population. The Academic Committee includes Yu.M. Semenov, Head of the Department of Ophthalmology.

Residents undergo training at clinical facilities that provide training both inpatient and outpatient settings. In the presented clinical databases, planning and implementation of innovations in teaching methods and evaluation of students are provided.

Clinical bases are selected by the department for clinical work, the assessment of the possibilities of one or another base in achieving the final results of training is carried out by experienced ophthalmologists from among practical health care and employees of the department (Semenova Yu.M., Elisinova a.m.), taking into account the requirements of the educational programme. The department, headed by the head of the department, determines the clinical bases where the resident will be able to get access to patients in their profile of the residency educational programme at all levels of medical care. Clinical bases of the Department of Ophthalmology, providing training to residents in the specialty "Ophthalmology (adult, children's)", are the following large clinics: "Ophthalmosurgery" Institution (1st microsurgical, pediatric) and Consultative Polyclinic, Semey, "Clinic of Eye Microsurgery" LLP, Ust-Kamenogorsk, PSE on the REM "East Kazakhstan Regional Hospital" DHC East Kazakhstan Governor's Office, Ophthalmological Department, "Semey Oftum" LLP, Semey, PSE on the REM "Pavlodar Regional Hospital named after Sultanov" Pavlodar.

The university has concluded agreements with the above clinical bases, and these institutions are included by the Decree of the Government of the Republic of Kazakhstan as clinical bases of the University. Compliance of clinical bases with accreditation requirements is carried out by specialized accreditation agencies and reflected in the relevant documents.

## **2.6 Relationship between postgraduate medical education and health care**

The Regulation on the Resident Clinical Mentor is being implemented. This provision defines the priority goals of the mentor's work as assistance in acquiring, improving the professional theoretical and practical competencies of residents, mastering the norms of medical ethics and deontology, and educating them to be demanding and interested in the results of work

in the process of joint clinical activities. Up to 4 residents are assigned to each mentor, if possible, the presence of a resident of the first and second years of study is provided for the purpose of continuity and "mini-mentoring" of the senior over the junior. The principle of rotation is also observed, in which the resident's clinical mentor changes depending on the department or clinical base on which the resident is located. The objectives of mentoring are achieved by providing the resident with sufficient freedom to carry out practical activities on the one hand, demonstrating the role model, ensuring a relevant level of observation, providing appropriate assistance, providing constructive feedback on the other.

In addition to the mentor, in order to implement the training plan and the quality of the EP, residents are assigned a curator who participates in the preparation of the resident and is personally responsible for the implementation of the training plan, carries out measures for personal and psychological support of the resident during the stages of education. The curator is appointed from among the teaching staff of the course, who have the academic degree of doctor, candidate of medical sciences, as well as the highest qualification category. Curators and mentors in the course of daily work give specific recommendations for further improving professional skills, mastering the standards of medical ethics and deontology, improving the general education and cultural level.

According to the developed modular educational programmes, practical skills training in medical care under the guidance of supervisors takes place on various clinical bases. The share of practical training in the educational programme provides for 90%, with the direct participation of a clinical mentor.

***Conclusions of the EEC on the criteria.*** Compliant with 30 standards: full – 30.

***Standard 2: Implemented***

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

- 1) To provide residents with an alternative choice of elective disciplines in the specialty of the educational programme (2.4.2).
- 2) Use the resources of the simulation center to master the skills of emergency medical care, actions in critical situations, teamwork (2.3.2).

### **Standard 3: ASSESSMENT OF STUDENTS**

#### **Evidence of compliance:**

##### **3.1 Methods of evaluation**

When analyzing the documentation, the EEC experts established that the methods of evaluation of residents in the university for all specialties of the residency there is a unified policy of evaluation of residents, including in the specialty «7R01147-Ophthalmology (adult, children's)», the evaluation policy is reflected in the Regulation on Residence, Academic Policy of the University, the educational programme and syllabuses of disciplines. Also, the resident assessment policy is presented in electronic format on the Platonus and Keyps platforms and on the official website of the university.

The university has introduced an integrated assessment system that takes into account both formative assessment (FA) and summary assessment (SA), covering the theoretical knowledge and practical skills necessary for the future profession. Final Discipline Score (FDS) - is calculated using the following formula:  $FDS = FA * 0.3 + SA * 0.7$

Current monitoring is performed by an academic or clinical mentor. Line supervision evaluates the results of training upon completion of disciplines.

EEC experts confirmed that the criteria for passing examinations or other types of assessment, including the procedure for retaking in the residency, are reflected in the "Regulations on residency", according to which if the discipline of the SA or FDS is not mastered by less than 50%, the resident re-acquires the discipline in the summer semester on a paid basis.

There were no such cases during the period of study under this educational programme.

A student of the residency who has completed the training programme and completed the individual curriculum is allowed to the Final Assessment. The final assessment is carried out in accordance with the final results of training and includes two stages:

1) knowledge assessment (computer testing); 2) skills assessment.

If the results of the assessment of knowledge and skills under the programme are positive, the resident is issued with a residency certificate. Also, this data is the basis for issuing a specialist certificate. This provision is described in the educational programme in the specialty "Ophthalmology (adult, children's)"

According to the Regulation on the Independent Examination, teachers from other universities who have an academic degree, as well as employers – the most experienced specialists from among practitioners of health care who have the highest qualification category and who were not clinical mentors in the process of training residents, are attracted to the SA as members of the examination commission.

Appeal of the results of the assessment of residents is carried out in accordance with the Academic Policy and the Residence Regulations. If the resident disagrees with the assessment of the final assessment, the resident has the right to appeal the assessment, the rules of appeal are described in the Regulation on the conduct of the appeal.

According to the educational programme "Ophthalmology (adult, children's)" the final certification of this year will be passed by 3 residents.

To ensure the objectivity and transparency of the assessment process, the Department of Neurology, Ophthalmology and Otorhinolaryngology has developed checklists for conducting current, milestone and final control of the discipline (Mini-ALL, OSCE). Also, the department carries out the formation of a portfolio by each resident individually, in which all the achievements of the resident during the period of study in the residency are recorded. The portfolio serves as a basis for forming the characteristics of a resident and obtaining recommendations for further employment. Portfolio evaluation is carried out according to checklists developed by the department employees.

The compliance of control and measuring instruments with teaching methods and the specifics of the curriculum is monitored by a committee of educational programmes (CEP), which includes experienced methodologists and expert testologists.

Also, the experts of the Higher Educational Institution confirmed that there is a permanent Student Assessment Committee at the university, the main tasks of which are the examination of the examination material of the FA and SA, the analysis and approval of tests uploaded to the KEYPS platform, as well as the analysis and approval of the format and number of stations during the practical skills examination.

Residents pass testing on the KEYPS electronic platform. All tests before the start of testing undergo a review procedure, after evaluating the test results in the keyps programme, the tests are tested for validity and reliability. The procedure of this inspection was demonstrated by the registrar's office during the visit of the ECC members to this subdivision.

The results of students' academic achievements are recorded in the electronic educational journal through the office-recorder system and the AIS Platonus programme, which automatically generates examination sheets, which is confirmed by experts when viewing 3 electronic journals.

### **3.2 Relationship between evaluation and training**

During the visit to the university, the EEC members confirmed that the methods of assessing residents are comparable with the methods of teaching and learning and cover the assessment of all the competencies of students both during practical classes and during examinations.

Differentiated assessment methods are used to assess different learning outcomes, so theoretical knowledge is mainly assessed by testing, and practical skills are assessed using assessment sheets for each section of the practical work.

During the conversation with residents in the specialty "7R01147-Ophthalmology (adult, children's)" it was established that the achievement of the results of training stated in the EP is carried out due to a significant number of thematic patients and a large volume of surgical

interventions on 5 specialized clinical bases, as well as constant advice from a clinical mentor or teacher. Residents are provided with the necessary access to both the management of patients and participation in operations, manipulations, all types of medical documentation, participation in consultations and clinical debriefings with colleagues of related specialties, work in a multidisciplinary team.

*The conclusions of the EEC meet the criteria* of 11 standards: 11 in full.

*Standard 3: Implemented*

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

## **Standard 4: STUDENTS**

### **Evidence of compliance:**

#### **4.1 Admission and Selection Policy**

When visiting the university, the experts of the EEC confirmed that the admission of resident Ophthalmologists to the NJSC "SMU" is carried out in accordance with the "Standard Rules for Admission to Education in the Organization of Education Implementing Educational Programmes of Postgraduate Education", approved by the Order of the Ministry of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600 with additions and amendments made on May 24, 2021 (No. 241) and the Regulations on the Admission of Students to Higher and Postgraduate Education in the NJSC "SMU" dated September 16, 2021. The Regulations on the Admission of Students to Higher and Postgraduate Education in the NJSC "SMU" (version 06 dated September 15, 21) are posted on the website of the university and are available to all interested parties. Section 8 of the Regulation regulates the procedure for admission of students to postgraduate educational programmes.

Ensuring a balance between the available capacity and opportunities for training and recruitment of residents is achieved by monitoring the availability of REP resources in preparation for the new academic year at NJSC "SMU". Every year in March-April, on the basis of a request from the Ministry of Health of the Republic of Kazakhstan, a request is formed for a certain number of places for each specialty of the residency in accordance with the applications of the state license, analysis of concluded contracts for clinical training, qualification of teaching staff, material and technical resources.

During the conversation of the experts of the EEC with the teachers, it was established that the "Open Days" are actually held in the NJSC "SMU" in different areas and levels of training. All information about the events is actively published on the Semey medical university page in Instagram.

Since the beginning of February 2022, the university has organized meetings with employers for graduates of the residency, which are held with the participation of representatives of city and district hospitals of the East Kazakhstan and Pavlodar regions. During the meetings, the issues of personnel shortages, working conditions, measures of social support for young professionals, such as the payment of salaries in employment, are discussed.

The NJSC "SMU" has developed and implemented a standard operating procedure (SOP) "Algorithm for admission of applicants" (Order of the Ministry of Education and Science of the Republic of Kazakhstan 600 dated October 31, 2018) of all levels, which contains a procedure/methodology for the admission of students of all levels of training.

Also experts of EEC confirmed that reception of resident - Ophthalmologists is carried out on a paid basis on the results of entrance examinations by anonymous independent assessment on results of entrance examination. For admission to the residency, GPA in the internship and bachelor's degree, a summary assessment based on the results of two stages of the final state certification of the 7th year, as well as an entrance exam in a test format are taken into account.

Independent examiners are involved in the monitoring of examinations: a representative of the Anti-Corruption Agency of the Republic of Kazakhstan in Semey, the chairperson of the anti-



corruption committee "SMU", representatives of the public.

To date, there have been no applications for admission to the residency and transfer of residents from other national or international ophthalmology programmes.

The transparency of the procedure for the selection of resident Ophthalmologists, as well as equal conditions for all applicants, is guaranteed by strict compliance by examiners with the Regulations on the independent examination of NJSC "SMU".

In order to ensure the transparency of the examination procedure, an annual live broadcast is held on Facebook, with the possibility of viewing the video again.

During the conversation with residents, the EEC experts confirmed that applicants who actively participated in scientific circles, conferences, mastered the internship programme, have good practical skills, clinical thinking and are constantly working to develop and improve their competencies (from interviews with residents, teachers, vice-rector for academic activities) have advantages when enrolling in residency. The selection of potential residents for training in the programme «7R01147-Ophthalmology (adult, children's)» is made from among graduates who have completed an internship, have a high level of understanding of biomedical sciences, achieved at the undergraduate level.

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

EEC experts confirmed that the university observes the ratio of the number of residents per teacher, which is 1:3.

One of the mechanisms for reviewing the number of residents enrolled for training is the annual Employers' Congress held at NJSC "SMU", at which representatives of the university negotiate the placement of targeted grants for residency by organizations.

The enrollment of residents in the specialty "Ophthalmology (adult, children's)" has been started since 2016-2017 academic year. All enrolled residents were citizens of the Republic of Kazakhstan. There were no foreign nationals.

At the moment, 19 residents are studying in the residency in the specialty "Ophthalmology (adult, children's)", of which 13 residents are studying in the first year, 3 residents – in the second year. In the 2021-2022 academic year, 3 residents are expected to graduate.

During the conversation of the experts of the EEC with the representatives of the AMP, it was confirmed that the data on the demand in the personnel of Ophthalmologists are provided to the university by the Department of Health of the region and the Department of Science and Human Resources of the Ministry of Health of the Republic of Kazakhstan, published on the website of the university. The Dean's Office of the SPE together with the educational department responsible for the specialty of the residency "Ophthalmology (adult, children's)" conducts an analysis of the availability of the educational programme with teaching staff, including curators and mentors, clinical bases. At the end of the collection of applications, the data are processed and presented at a meeting of the CEP and the Academic Committee, at which the admission policy for the current year is approved. Applicants can consult on available vacancies in SPE and the Republic from the employment specialist of the SPE: the applicant can take the contact details of the medical institution, which requires doctors in the chosen specialty of the residency.

On the SMU website there is a module "To Employers", which contains information on the expected release of residents of the current year.

Also, the experts confirmed that the university annually creates and works a commission on the distribution of graduates, which includes representatives of the Ministry of Health of Kazakhstan, the DHC of East Kazakhstan region, the Council of Employers, the university. The Dean's Office of the School of Postgraduate Education, departments analyze the employment of graduates and the need for medical personnel.

Starting from 2019, data on students on the basis of a state educational order for monitoring the employment of university graduates and mandatory 3-year training of young specialists are entered into the "SMU" programme "Accounting of Young Specialists" of JSC "Financial Center". The university also annually submits a report on the results of the distribution of young specialists with personalized lists (protocols) to the observatory (working body) for monitoring and analysis.

The policy of recruitment and admission of residents from small groups of peoples, from among practitioners (doctors) from rural areas and special groups of the population (for example, persons with disabilities) complies with the norms and requirements adopted in the Republic of Kazakhstan.

#### **4.3 Resident support and advice**

In the course of the conversation of the EEC experts with resident Ophthalmologists, it was established that the "SMU" created and provided safe conditions for the training of residents. To protect the interests of residents, assist them in educational, scientific, and non-curricular activities, the SMU provides various services for the organization of counselling, psychological, social, and medical support for students. During the conversation with residents, it was revealed that the university provides financial support to residents in need of material assistance. Residents in the regions of Ust-Kamenogorsk, Pavlodar, if necessary, are provided with a hostel.

The system of academic counseling of residents in NJSC "SMU" is represented by the School of Postgraduate Education, resident curators, the head of legal and passport and visa work, a psychologist. Residents have the opportunity to receive legal advice from the head of the legal support department. The resident can get psychological support from a regular teacher-psychologist.

The University finances the participation of students at all levels in scientific and practical conferences, congresses, symposia (confirmed from a conversation with the vice-rector for research, teachers, residents).

Students also have the opportunity to report problems or corruption anonymously by contacting the director of a medical school or vice-rectors' blog. On the website of the university there are blogs of the rector, vice-rectors.

In the NJSC "SMU", the teaching staff of the profile department use a variety of ways to disseminate information: the university's website, chat rooms on the WhatsApp network, participation in briefings held by management, open days, job fairs at the university, round tables with heads of medical institutions and organizations, exhibitions of achievements. All information received is brought to the attention of residents.

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

EEC experts confirmed that residents participate in the meetings of collegial bodies where they are official members and express their opinions and proposals for improvement. A feedback analysis is carried out in the form of a survey of graduates of the residency and employers, on the basis of which the process of policy development and selection of residents in the specialties of the residency is improved.

The participation of residency students in the development of the residency programme is also carried out through the choice of elective disciplines. Residents have the right to make a proposal, to include in the catalogue of new elective disciplines, in their opinion, necessary for study and contributing to the improvement of the educational programme as a whole. Proposals submitted orally or in writing from residents are necessarily taken into account and taken into account.

When visiting the experts of the Department, it was confirmed that the Department of Ophthalmology collects feedback from residents at the stage of mastering the taught discipline (at the end of studying the discipline), as well as on issues related to the conditions of study/work, problem situations.

EEC experts also confirmed that the participation of students at all levels in the quality of the educational process is regulated by the Academic Policy of the SMU dated August 31, 2021. The participation of residents in the discussion of key issues of the quality of the educational process is regulated by their inclusion in the Academic Council, the Academic Committee, the CEP in accordance with the provisions on all the mentioned collegial bodies. The composition of the Academic Committee of the SMU for 2021-2022 academic year, the composition of the CEP of Residency specialties for 2021-2022 academic year includes 3 residents in clinical specialties.

#### **4.5 Working conditions**

It was also confirmed that students of the residency have the opportunity to work in their free time for 0.25 (in the second year of study – 0.5) of the rate as a doctor in healthcare organizations, laboratory assistant, trainee teacher of the department. Residents with the corresponding specialist certificate have an opportunity to work part-time.

During the visit to the clinical base, the experts of the EEC established that ophthalmologists have unrestricted access to all categories of patients, to all departments, all types of medical equipment. The department has an office for mastering theoretical knowledge by residents, there is a separate room for changing clothes, for eating, etc.

During the training of resident Ophthalmologists, the YouTube information platform is actively used, where there is a university channel where video lectures are posted for independent study by residents, including in case of forced breaks in training, in case of pregnancy (including pregnancy and childbirth/paternity leave), illness.

Experts of EEC made sure that an individual plan is drawn up for residents (according to the order) transferred from other Universities, reinstated, remaining for the second year of study, returned from academic leave, on the basis of the WEPI approved for the relevant academic year, taking into account the difference in the curriculum or academic debt.

In order to maintain the optimal balance of time spent by the resident on training and medical care, in accordance with the SCES of the resident, the training day of the resident is 9 hours. In connection with the Regulations on Residency, it is regulated to plan the study load of the resident based on this time; night and day duty, as well as other types of work are included in the specified study load. The duty of residents on a clinical basis is one of the types of independent work and is aimed at mastering the tasks of training. Shift planning is reflected in the discipline syllabus.

EEC experts also confirmed that the residency provides a system for recounting academic hours in disciplines completed by students before enrolling in the residency. In addition, the resident is exempt from duty at the clinical base, provided that he/she has experience in departments of this type. In case of pregnancy, the resident is released from duty at the clinical base at night. Tuition on an individual schedule in the residency is allowed only if there are appropriate medical recommendations. Provided that the resident provides the relevant certificate by the decision of the SPE, he is provided with the opportunity to study according to an individual schedule.

***Conclusions of the EEC on the criteria.*** Compliant with 30 standards: full – 30.

***Standard 4: Implemented***

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

## **Standard 5: FACULTY**

### **Evidence of compliance:**

#### **5.1 Recruitment and Selection Policy**

Experts of EEC got acquainted with the University Development Programme. According to the development programme of the university, the personnel policy of the university is being implemented.

The Regulation on the University Personnel Policy was approved on 10.03.2018, additions and changes were made to the Regulation on 30.09.2019, in accordance with which the policies and procedures for the recruitment and admission of teachers, managers and clinical mentors were determined. Recruitment takes into account the required experience and qualifications of the specialist, criteria of scientific, educational, pedagogical and clinical achievements are established.

In the course of the conversation of the EEC experts with the representatives of the management personnel, it was established that the standards for the selection of teaching staff on a competitive basis were developed and approved in the NJSC "SMU" ("On Approval of the Rules for Competitive Substitution of the Positions of the Professorial and Teaching Staff and

Researchers of Higher Educational Institutions").

According to the competitive substitution of the positions of the teaching staff (teaching staff), the composition of the competitive commission for the substitution and re-election of vacant positions of teaching staff has been approved. All information about the upcoming competition for vacancies is posted on the website of the university and in the city newspaper. The meeting of the competition commission is held annually at the beginning of the academic year and is broadcast online on the university's page. The university takes into account the balance between teaching, scientific research of clinical departments. The developed job descriptions and regulations establish the responsibilities and duties of teachers and clinical mentors. When forming the staff of departments, the ratio of teachers and residents is taken into account, which is sufficient for effective teaching and learning.

Much attention is paid to the availability of candidates with the appropriate education, clinical experience, qualification category in the relevant specialty and discipline profile.

The staff of the Department of Neurology, Ophthalmology and Otorhinolaryngology includes 2 candidates of medical sciences, 1 PhD, 4 teachers without an academic degree. All teachers are practitioners in ophthalmology.

## **5.2 Teachers' obligations and development**

When visiting the department's experts and during the conversation with teachers, it was confirmed that the duties between the department's employees are reflected in the department's annual work plan. At the beginning of the academic year, the head of the department, at the first meeting of the department, distributes duties to the staff of the department. In the individual work plan, the teachers of the department plan their activities for the entire academic year. IWP is considered at the meeting of the department and approved by the Dean of the School of Postgraduate Education.

When compiling the workload and schedule of teachers, a uniform workload of teachers is ensured for all types of activities, the department strives to ensure a balance between teaching and other types of work to enable teachers and clinical mentors to effectively engage in research, teaching and educational work. The workload for all types of activities is evenly distributed among teachers, observing the principle of the trinity of education, science and practice. From 2020-2021 academic year, the volume of teaching load in the residency is 650 hours, for head teachers - 600 hours, for the head of the department - 500 hours.

The EEC experts also confirmed that all university employees are actively involved in the implementation of new educational technologies of teaching and evaluation introduced at the university: the Turkish Catalog, Caselog, milestones, MCQ in accordance with ACGME criteria. Employees of the department hold monthly seminars, conferences for doctors of clinical bases of East Kazakhstan region and Pavlodar region. Teachers of the department contribute to the development and improvement of programmes, the definition of educational goals and results.

Periodic assessment of teachers is carried out in accordance with the Regulations on the certification of university employees (May 27, 2019).

Evaluation and recognition of worthy academic activities of teachers, supervisors and mentors is carried out through awarding in accordance with the Regulations on awards adopted at the university, awarding employees (for holidays and anniversaries), KPIs and research work (R&D rating), participation in the contests "The best teacher", "The best curator". The University has developed and approved the "Regulations on holding the contest "Best Teacher" of the University dated 30.09.2019.

In accordance with the Regulation on the clinical mentor (14.10.2020), the mentor is appointed from among qualified practitioners of health care, with at least 5 years of experience in the relevant specialty. It is preferable to have a certificate confirming the completion of the cycle of the School of Clinical Mentors.

During the conversation with the clinical mentors of the experts of the EEC, it was confirmed that the mentors are trained at the school of the clinical mentor in accordance with the established procedure on the basis of an appeal from the head of the department and the applicant

for mentors. The Mentoring School programme has topics on communication skills, but there are no hours on pedagogical competencies.

According to the developed Regulations on advanced training and retraining of medical and pharmaceutical personnel of NAO "SMU" dated 04.06.2019, teaching staff of departments undergo advanced training 1 time in 5 years in order to update and deepen theoretical knowledge, improve practical skills in clinical specialties.

EEC experts confirmed that the motivational tool for teachers and employees is the annual rating of incentives and motivation of employees, which is revised taking into account new requirements and opportunities, is in constant dynamics. The presented KPI system assumes the possibility of receiving up to 800-900 thousand tenge or more per year by one employee.

For example, Head of the Department of Neurology, Ophthalmology and Otorhinolaryngology Yu.M. Semenova in 2021 participated in the academic mobility programme under the Erasmus+ programme at Universidad Catolica de Valencia (Spain).

To stimulate and support talented young specialists, a system has been developed for forming a talent pool of managerial staff - the "Hope" talent pool. The developed Regulation on the personnel reserve "Hope" dated May 24, 2021 contains the regulations for the selection of candidates, requirements for the development of competencies, the regulations for training the composition of the reserve.

Experts of EEC confirmed that teachers of the department together with residents take part in international peer-reviewed journals, participate in international conferences and publish the results of ongoing research.

Calculation of the mentor's workload is 3.5 hours per resident per day. One mentor is relied on by 4 residents, which is prescribed in the "Regulations on the clinical mentor of a NJSC SMU resident". Compliance with this parameter guarantees individual effective interaction between the mentor and the resident, as well as the possibility of high-quality monitoring of academic and professional achievements of residents.

**Conclusions of the EEC on the criteria.** Compliant with 7 standards: fully – 6, partially – 1.

**Standard 5: Implemented**

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

- 1) Include topics on the development of pedagogical competencies for clinical mentors in the curriculum of the school of mentoring.

## **Standard 6: EDUCATIONAL RESOURCES**

### **Evidence of compliance:**

#### **6.1 Logistics and equipment**

The Department of Neurology, Ophthalmology and Otorhinolaryngology of NJSC "SMU" has a sufficient material and technical base for the professional training of residents in the specialty "Ophthalmology (adult, children's)", which is represented by:

1) the basic institution "Ophthalmosurgery", Semey, ul. Oboronnaya 86. The department has 3 classrooms with a total area of 66m<sup>2</sup>, with unlimited Internet access. For holding clinical meetings, integrated and interdisciplinary symposia, residents can use the conference hall of the clinic. In accordance with the "Regulations on mini-libraries at the departments of NJSC "SMU", on the basis of the institution " Ophthalmosurgery "there is a mini-library with basic textbooks and monographs in the specialty "Ophthalmology", for the convenience of both teachers and residents.

2) the ophthalmic departments of the KGP on the PHC "East Kazakhstan Regional Hospital", LLP "Clinic of Eye Microsurgery", Ust-Kamenogorsk, LLP "Semey Oftum", the PSE on the REM "Pavlodar Regional Hospital named after Sultanov, the classrooms of which are 39.6 sq. m, 32.5 sq. m, 27.9 sq. m, 28.3 sq. m, respectively (Appendix to the self-report).

Residents are provided with conditions and opportunities for practical training,

management of patients at different levels of medical care: outpatient unit, day and night hospital, operating unit, equipped with modern diagnostic and therapeutic equipment.

Library of NJSC "SMU" with a total area of 1362m<sup>2</sup>. In the library reading room there are 177 seats, 54 computers, a Wi-Fi zone, places to work on your laptop or tablet. For individual and group work, there are 6 separate rooms equipped with multimedia equipment (Regulation on the discussion rooms of NJSC "SMU").

The library's book fund is annually updated and as of 01.07.2021 it amounted to 23,511 literary sources relating to the accredited specialty "Ophthalmology (adult, children's)".

For residents studying in Pavlodar, there is a library of the Pavlodar branch of the University, with a total area of 70.4 square meters and 12 seats (Appendix to the self-report).

Purchase of necessary literature is carried out taking into account applications and within the framework of a centralized survey of both residents and teachers, doctoral students and master's students

## **6.2 Clinical Bases**

NJSC "SMU", depending on the number of residents and their distribution, has chosen and approved the bases for the preparation of residents: the institution "Ophthalmosurgery" Semey, LLP "Clinic of Eye Microsurgery", Ust-Kamenogorsk, PSE on the REM "East Kazakhstan Regional Hospital", LLP "Semey Oftum", PSE on the REM "Pavlodar Regional Hospital named after Sultanov" (cooperation agreements in Appendix 7 to the self-report). Residents have access to all diagnostic rooms and laboratories, with a sufficient number of patients of various severity categories, to provide qualified care and develop practical skills using the possibilities of outpatient, inpatient care and night duty.

Practical skills are mastered under the guidance of a clinical mentor, using checklists for their assessment

## **6.3 Information technology**

The training of resident Ophthalmologists takes place in person, the elements of the distance learning method are used in webinars, some lectures and in participation in conferences.

Unlimited access to the Internet is provided on the territory of the university, its clinical bases and directly in the study rooms of the department, for free use of the necessary web resources and electronic media.

The library offers free access to the following databases: Cochrane.org, the database "Legendary Books" of the publishing house "Urait", Elsevier "ScienceDirect", "Scopus"; CyberLeninka, the Electronic Library of RSh dissertations, Research methods of the Alexandria Library, Web of Science, Scopus.

When training, working on clinical bases, residents have access to the information systems of medical organizations: KMIS, Medelement (through the password of the head of the department or the clinical mentor), filling in medical documentation, appointment sheets, etc., under the control of their clinical mentor.

Teachers of the department contact resident Ophthalmologists of all years of study through the created working chats in WhatsApp, to solve both working and personal (social) issues.

## **6.4 Clinical Teams**

Preparation of residents for teamwork skills and effective interaction with other health care specialists includes direct work of residents together with employees of various clinical units: work in outpatient and polyclinic and reception departments, supervision of patients at the level of a day hospital, a round-the-clock hospital, participation in advisory examinations of patients of other medical institutions (under the guidance of a clinical mentor), in workshops and scientific and practical conferences. Working in multidisciplinary teams provides residents with sufficient experience in the team, including with specialists from other healthcare areas.

Skills of coordinated work with colleagues are developed during the examination, treatment of patients with kidney pathology. The resident is present during the consultations, fulfills the orders of senior colleagues within his competence. The result of the resident's activity is controlled by the mentor and documented in the resident's portfolio (electronic portfolio at the

implementation stage). The interaction of the resident Ophthalmologists with other team members is estimated to be "360 degrees".

Within the framework of academic mobility, in the 2021-2022 academic year, resident ophthalmologists Saparbekova S.A. and Assymkanova A.M. were trained remotely with the Ryazan State Medical University named after academician I.P. Pavlov on the topic "Emergency medicine" (order No. 519-C of 14.12.2021, No. 505-C of 26.11.2021).

### **6.5 Medical Research and Advances**

As a result of the study of the submitted documentation, it was established that university residents necessarily study the disciplines "Management of scientific research" (4 credits) and "Biostatistics" (4 credits) in the 1st and 2nd years of residency, included in the Catalog of elective disciplines. Thus, all resident ophthalmologists are involved in the research work of the department, represented mainly by works on the epidemiology of blindness and vision impairment in the population of the Republic of Kazakhstan and carried out within the framework of initiative projects. According to the schedule, once a week from 16.00 to 18.00 hours in the above disciplines, residents analyze their data using various methods of statistical processing under the guidance of a teacher. Resident nephrologists can independently carry out some stages of clinical research: questionnaires of patients, conducting some diagnostic manipulations, etc.

Within the framework of academic mobility, in the 2021-2022 academic year, G.Y. Kadyrova, a resident ophthalmologist, was trained for 2 years with the Ryazan State Medical University named after Academician I.P. Pavlov on the topic "Epidemiological methods of research" (order No.12-C of 13.01.2022).

The study of clinical cases of patients, medical records, literature data, work in the library enable resident Ophthalmologists to analyze, describe and publish their data in national and international scientific journals. The result of 3 years of study in the residency in the specialty "Ophthalmology (adult, children's)" is the publication of scientific work, which is necessarily taken into account when entering the next stage of postgraduate education - in doctoral studies.

In the Collection of abstracts 64 of the scientific and practical conference "Science and Health" with international participation, dedicated to the Day of Science of the Republic of Kazakhstan (12-13.04.2022) (<https://semeymedicaluniversity.kz/>), the work of residents Iskakov T.A., Akhmetzhanova B.K., Ishimova G.M. on "Results of sedation therapy in patients with open-angle glaucoma" was published in English, in the Collection of abstracts of the conference of 19.11.2021, the joint work of resident Iskakov T.A.s head of the department Semenova Yu.M. "Features of nursing care for glaucoma and cataract" Residents Suleymanov A.Yu., Akhmetzhanova D.M., Sadykova A.B. made a report at an international scientific conference in Sheffield (30.12.2021-07.01.2022) with a report "Secondary "silicone glaucoma in the surgery of regmatogenic retinal detachment ", residents Kashitov A.O., Akhmerova A.A. with a report "Clinic of dry eye syndrome ". <https://semeymedicaluniversity.kz/> Resident D.M. Akhmetzhanova took part in the conference "Mechnikov Readings-2021" (29.04.2021).

### **6.6 Education expertise**

The examination of the quality of the educational programme is systematic and carried out in stages. The educational programme of the residency in the specialty "Ophthalmology (adult, children's)" is based on the SCES 2020 and approaches to the training of the university partner of the University "Bashkent" (Turkey) in the specialties "Ophthalmology" (2017) and "Ophthalmology pediatric" (2017). The person responsible for residency draws up an educational programme, which, after discussion at the departmental meeting, is transferred to the Academic Committee for evaluation and examination. After agreement with the Deputy Chairperson of the Board of NJSC "SMU" for academic work, the programme is entered in the Register of EP of the Ministry of Education and Science of the Republic of Kazakhstan, where after an independent external examination, the programme is applied in the educational process.

The Strategy for ensuring the quality of the educational process has been developed and implemented, which defines the algorithm for monitoring the educational programme (EP): systematic discussion of the EP at meetings of collegial bodies (AC), updating the EP in

connection with the needs of the labor market and taking into account the wishes of stakeholders, systematic receipt and analysis of feedback on the quality of the educational process from all stakeholders, planning of improvement measures.

Monitoring of the implementation of the EP of the residency programmes is carried out on the basis of the principle of collective solidarity of all interested parties: the specialized department, SPE, the Academic Committee, residents, representatives of practical health care, potential employers and the Ministry of Health of the Republic of Kazakhstan.

Feedback from residents is carried out through the SPE, DQCME to determine the degree of satisfaction with the content of the educational programme and the organization of the educational process, which are carried out in the form of questionnaires, focus groups, constant monitoring of appeals to the blog of the dean's office, Deputy Chairperson of the Board for Academic Work, Deputy Chairperson of the Board for Scientific and Clinical Work, Chairperson of the Board. In addition, the school of postgraduate education collects feedback from graduates of residency and their employers.

The Academic Committee annually organizes events to improve the educational programmes of the residency: forms working groups, on expert evaluation, working curricula, methods of training and evaluation in the residency, development and monitoring of the resident portfolio, examination of the catalog of elective disciplines, planning of measures to improve the content and the process of implementing the educational programme. Profiling departments update the content of curricula in accordance with the development of medical science and education. This process should be documented in the case of the introduction of innovative teaching methods in the educational process, for subsequent monitoring during implementation at specialized departments.

The faculty will study the results of the implementation of the updated educational programme on the basis of an analysis of the success of its graduates according to an independent examination and feedback from employers.

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

The mechanism for the implementation of the academic mobility programme for teachers and residents was developed and approved in the "Regulations on academic mobility of students, teachers and employees" (March 18, 2019) ([https://drive.google.com/file/d/1Dx2VdOXpn6ys1Krn8baRjzapPcNn\\_\\_78/view?usp=sharing](https://drive.google.com/file/d/1Dx2VdOXpn6ys1Krn8baRjzapPcNn__78/view?usp=sharing), [https://drive.google.com/file/d/1Dx2VdOXpn6ys1Krn8baRjzapPcNn\\_\\_78/view?usp=sharing](https://drive.google.com/file/d/1Dx2VdOXpn6ys1Krn8baRjzapPcNn__78/view?usp=sharing)), including the Regulation "On the organization of academic mobility within the framework of the Kazakhstan credit recount system", to facilitate the procedure for academic recognition of diplomas and qualifications, ensuring transparency of educational programmes and curricula.

The search for a university partner, the development of an academic mobility programme, organizational issues of training and accommodation is carried out by an academic mobility specialist together with the supervising department and the SPE ([https://semeymedicaluniversity.kz/o-nas/struktura/departament-po-strategicheskomu-ravzitiyu/otdel-mezhdunarodnogo-sotrudnichestva/akademicheskaja-mobilnost/](https://semeymedicaluniversity.kz/o-nas/struktura/departament-po-strategicheskomu-razvitiyu/otdel-mezhdunarodnogo-sotrudnichestva/akademicheskaja-mobilnost/)).

The coordinator for academic mobility organizes the work of the commission for conducting a competition among students and faculty. As a result of winning such a competition, in 2021, she implemented academic mobility in Universidad Católica de Valencia "San Vicente Martin", Valencia, Spain under the Erasmus+ Chair programme, responsible for the residency "Ophthalmology (adult, children's)" Semenova Yu.M. (Appendix to the self-report). Also, in the clinic of the partner university (University of Bashkent, Turkey), a resident of the specialty "Ophthalmology (adult, children's)" A. Myrzabekov (skills in cataract extraction) was trained under the academic mobility programme (<https://semeymedicaluniversity.kz/2019/03/19/4916/>).

Among residents, the programme of academic (internal and external) mobility in a distance format on various topics is gaining activity: Ophthalmologists were trained in a distance format with the Ryazan State Medical University named after academician I.P. Pavlov on the topic



"Epidemiological methods of research", "Emergency medicine" (order No.12-C of 13.01.2022, order No. 519-C of 14.12.2021, order No. 505-C of 26.11.2021).

*Conclusions of the EEC on the criteria. Compliant with 21 standards: fully -20, partially -1.*

**Standard 6: Implemented**

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

- 1) Document all stages of introducing innovative teaching methods into the educational process.

**Standard 7: PROGRAMME EVALUATION**

**Evidence of compliance:**

**7.1 Monitoring and evaluation mechanisms**

Having analyzed the educational programme in the discipline "Ophthalmology (adult, children's)", the experts of the EEC found that at the university, the monitoring and evaluation of the implementation of the educational programme of the residency is carried out on the basis of the collective solidarity of all stakeholders and employees of the university. At the stage of planning the educational process in the specialty of residency, the responsibility for checking the working curricula for compliance with the requirements of state educational standards, drawing up a schedule is assigned to the departments. Responsibility for the selection of the composition of teachers meeting the qualification requirements, the profile of the specialty is assigned to the Human Resources Management Department.

Checking the quality of the EMCD and monitoring the educational and methodological documentation of the departments of residency is carried out by the CEP of the PGE. The training and clinical center is a structural unit responsible for the provision and maintenance of simulators necessary to develop the practical skills of residents and at the stage of final certification. Provision of the residency's educational programme with the necessary clinical bases is carried out by the research center, whose functions include monitoring and selection of clinics existing in the cities of Semey, Ust-Kamenogorsk for subsequent conclusion of contracts.

The Registrar's office registers and stores examination records, which are documentary evidence of the recognition of academic achievements of residents.

The peculiarity of the analysis of the formation of the competence of residents of NJSC "SMU" is a comprehensive assessment of the resident by the teacher through formal, summary control over the discipline, by the mentor - through portfolio management, control over the mastery of practical skills and research competencies, by the PGE school through the analysis of reports provided by residents, by practical health care (potential employer) through participation in an independent examination of residents. The competencies of residents of the programme R701112 "Ophthalmology (adult, children's)" are evaluated by current, midterm, intermediate control; control over the mastery of practical skills and research competencies; through the analysis of reports, individual development plans of residents (Evaluation 3600).

The applied system of assessment of knowledge, skills, abilities and competencies in the specialty of residency "7R01147-Ophthalmology (adult, children's)" corresponds to the SCES of the RoK.

**7.2 Feedback from teachers and residents**

In order to ensure the transparency of the process and evaluation results for management and stakeholders, the process of collecting feedback from students is automated and carried out in keys, in order to avoid correction or distortion of feedback data. In addition, the results of the feedback are published on the university's website in the "Feedback" section in order for all interested parties to have an opportunity to read it. The School of Postgraduate Education collects feedback from residents to determine the level of satisfaction of residents with the content of the educational programme, the organization of the educational process in the form of questionnaires,

focus groups, monitoring of appeals to the school's blog. Schools have a feedback box where residents can incognito leave their suggestions, wishes and complaints. An important role in the evaluation of the educational programme is played by monitoring the achievement by residents of the final learning goals.

The basic departments collect feedback from residents, representatives of practical health care, teachers of related disciplines on the assessment and optimization of the content of the educational programme in the form of reviews, focus groups, questionnaires, etc.

The results of the study of feedback from stakeholders are voiced at the meetings of the departments, the Academic Council and the CEP of the PGE.

Feedback analysis is provided for discussion at meetings of departments, the Committee of educational programmes and the Academic Council, which include teachers, residents and members of the Employers' Council. During these meetings, plans are being developed to further improve the quality of graduate training. In 2021, feedback was received from employers on the educational programme "Ophthalmology (adult, children's)".

The university has identified and used feedback mechanisms, as well as tools for training a medical specialist through continuous communication with medical practice and the health care system. As such tools, feedback from employers on the level of training of graduates, carried out in the form of a questionnaire, is used. The developed questionnaire allows to determine the level of satisfaction of the employer with the competencies of the graduate, professional, special and extra functional (mobility, sociability, teamwork skills, leadership skills, analytical abilities, etc.), to identify areas for improvement in the training of specialists. In this case, the educational trajectory of the graduate is taken into account. So, if the resident works as a teacher at the department, the employer is sent a questionnaire with questions that allow to assess the competencies of the teacher and researcher. In the case of a resident's employment in practical health care, the assessment of the clinician's and manager's competencies becomes a priority.

### **7.3 Results of Residents and Graduates**

An important role in the evaluation of the educational programme is played by the results of the final certification of residents carried out at the testing stage by the National Center for Independent Examination, as well as the results of certification examinations conducted by the Committee for Control of Medical and Pharmaceutical Activities of the Ministry of Health and Social Development of the Republic of Kazakhstan. The final state certification of residents in the 2020-2021 academic year was carried out in accordance with the standard of the State Standard of the Residence and was carried out in the following stages: determination of the level of theoretical training in the disciplines in the form of testing; certification of practical skills with a standardized patient. The results of these examinations are discussed annually at the meeting of the Academic Council. The results of the examinations are discussed annually at the meeting of the Academic Council.

### **7.4 Stakeholder Engagement**

The following mechanisms for involving stakeholders in the monitoring and evaluation of the educational programme are provided for in the NJSC "SMU":

- 1) surveying residents for satisfaction with the results of training in the discipline;
- 2) questioning residents for satisfaction with the quality of the organization of the educational process;
- 3) questionnaire of independent experts to assess the training of residents, review of training programmes by representatives of practical health care;
- 4) surveying employers for satisfaction with the training of graduates of the residency of NJSC "SMU";
- 5) organization of focus groups with the participation of residents to optimize the process and content of training;
- 6) organization of focus groups with representatives of practical health care on the content of training and methods of assessment of residents;

7) discussion of the results of monitoring the performance of residents and feedback from interested parties at meetings of the CEP of the PGE, the Academic Council of the SPGE, the EMC, the Academic Council.

At NJSC SMU, due representation of stakeholders in the assessment of the processes and final results of resident training programmes is observed. For example, the CEP of postgraduate and additional education includes heads of department, professors, associate professors, teachers of departments that provide the educational process in the relevant specialty, leading specialists in practical health care, employers, and representatives of the student population. The composition of the EMC, the CEP is approved by the Rector of the University.

Representatives of practical health care, employers are obligatory members of the examination commission of the state certification of graduates. Representatives of practical health care, who have extensive experience, are part-time employees in the departments, which also makes it possible for other stakeholders to participate in the implementation of the educational programme «7R01147-Ophthalmology (adult, children's)».

Stakeholders' access to the results of the evaluation of educational programmes is ensured by publishing relevant analytical references and feedback analysis on the website of NJSC "SMU". In addition, the discussion of the feedback results is carried out at the meetings of the Academic Council of the SPGE, the CEP of the PGE, which includes representatives of all interested parties, as well as at the meetings of the department.

### **7.5 Procedure for Approval of Educational Programmes**

The specialty "Ophthalmology (adult, children's)" was approved at a meeting of the department and subcommittee of the AC residency through the voting procedure. After all the necessary conditions are met, it is entered in the register of educational programmes. The School of Postgraduate Education collects feedback from residents to determine the level of satisfaction of residents with the content of the educational programme, the organization of the educational process in the form of questionnaires, focus groups, monitoring of appeals to the school's blog. Schools have a feedback box where residents can incognito leave their suggestions, wishes and complaints. An important role in the evaluation of the educational programme is played by monitoring the achievement by residents of the final learning goals. Therefore, the school collects feedback from residency graduates and their employers.

*Conclusions of the EEC on the criteria. Compliant with 15 standards: fully – 15.*

*Standard 7: Implemented*

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

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

### **Evidence of compliance:**

#### **8.1 Management**

The guarantee of the implementation of the "7R01147-Ophthalmology (adult, children's)" educational programme is its strict compliance with the requirements of regulatory rules regarding the admission of residents (selection criteria and number), the learning process, assessment of knowledge and skills, established learning outcomes, programme management, which are regulated in the Republic of Kazakhstan by regulatory legal acts of the Ministry of Health of the Republic of Kazakhstan and the Ministry of Education and Science of the Republic of Kazakhstan. Internal documents of NJSC "SMU" are developed on the basis of republican regulations.

Thus, the Regulation on the admission of students to higher and postgraduate education in the Non-Profit Joint Stock Company "Semey medical university" dated September 16, 2021 was developed in accordance with the "Standard Rules for Admission to Education Organizations Implementing Educational Programmes of Higher Education", approved by Order of the Minister of Education and Science of the Republic of Kazakhstan No. 600 dated October 31, 2018.

The process of training, assessment of knowledge and skills is regulated by the Regulations

on the residency of NJSC "SMU" dated 01.02.2021, (<https://semeymedicaluniversity.kz/postuplenie/rezidentura/>),

## **8.2 Academic Leadership**

Control and monitoring of planning, organization of coordination, provision of the educational process, introduction of innovations in the educational process, educational and methodological activities of departments is carried out by the Department of Academic Work (DAW), which works under the direct supervision of the Deputy Chairperson of the Board for Academic Work.

The work on the organization and monitoring of the postgraduate level of study at the university is carried out by the School of Postgraduate Education (SPE), which coordinates the organization of the educational process: the schedule, the appointment of a curator, the choice of a clinical base, the formation of an individual work curriculum, enrollment in elective disciplines, sending to a conference, participation in competitions, solving issues of academic mobility of employment.

A great deal of organizational and methodological work is carried out by the Committee of Educational Programmes of Postgraduate Education (PGE), where the compliance of teaching methods with control methods and final learning outcomes formed in Syllabuses is checked and approved. Methods of final control: OSCE and OSPE.

The regulatory role of the collegial bodies of NJSC "SMU" - the Academic Committee, the Academic Council is also important and relevant. Thus, the results of the final certification of graduates are regularly discussed at the Academic Council of NJSC "SMU".

The chairpersons of the State Attestation Commissions conduct a report with an analysis of the average score, make recommendations for improving both the educational process as a whole and the final attestation procedure itself.

## **8.3 Training budget and resource allocation**

The main sources of formation of financial resources of the educational process at the university are: funds of the republican budget; funds under contracts of study on a reimbursable basis; funds from the provision of educational and other paid services.

The solution of key issues of the distribution of financial resources of the university (the university budget) is carried out in three stages: at the first stage at a meeting of the Economic Council, at the second – the Academic Council, at the third the Board of Directors, which ensures collegiality, involvement of all categories of university employees, as well as the exclusion of conflicts of interest.

Information on the results of the financial and economic activities of the university and the implementation of the cost estimates are heard annually at the Academic Council of the university, which is broadcast online on the university's Facebook page.

The educational programme "Ophthalmology (adult, children's)" is financed from the republican budget. In addition, there is a possibility of training at the expense of own funds, targeted training at the expense of medical organizations, and a grant from regional akims. Funds allocated for the training of residents are spent on the purchase of necessary equipment on a competitive basis, library resources, payment for information resources and other items of expenditure established by regulatory legal acts.

The Department of Economics and Finance clearly regulates all financial revenues for the introduction and implementation of the training programme in the specialty "Ophthalmology (adult, children's)".

## **8.4 Administration and Management**

The academic leader of effective management and allocation of resources for the educational programmes implemented at the university is the Deputy Chairperson of the Board for Academic Work.

At the level of specialized and general education departments – heads of departments, the activities of which are regulated by the Job Descriptions.

The overall management of the university is carried out through collegiate bodies, which

include representatives of the SSG, employers, and other stakeholders, which ensures their participation in all areas of the university's activities. The collegial bodies are: Academic Council; Educational and Methodological Council; Dissertation Council; Clinical Council; Economic Council; Committees of Educational Programmes; Academic Councils of Faculties; Public Council on Anti-Corruption; Trade Union Committee of TS, Employees and Students; Student Self-Government.

The powers, responsibilities and relationships between these bodies of the university, administration, teachers and employees are described and defined by the relevant regulations.

The University has developed and successfully implemented, and repeatedly certified the quality management system by the authorized certification bodies of the Republic of Kazakhstan. Currently, the quality management system is certified according to ST RK ISO 9001-2016.

### **8.5 Requirements and regulations**

The activities of the management of the educational programme in the specialty "Ophthalmology (adult, children's)" are based on the strict fulfillment of the requirements established by the regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan and the Ministry of Health of the Republic of Kazakhstan in terms of the educational process, as well as in accordance with the qualification characteristics of an ophthalmologist.

The university's governance system involves all stakeholders, including the health sector, and reflects the responsibility of academic leadership. Representatives of practical health care, employers are obligatory members of the examination commission of the state certification of graduates. Doctors with extensive work experience are part-time employees in the departments of senior courses, which also makes it possible for other stakeholders to participate in the implementation of the university curriculum. Chief physicians of clinical bases are officially included in the composition of the SC, AC, CEP.

*Conclusions of the EEC on the criteria. Compliant with 15 standards: fully – 15.*

*Standard 8: Implemented*

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

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

#### **Evidence of compliance:**

Taking into account the tendency of "trinity" regarding medical specialists, the university made a collegial decision to include in the educational programme of the residency a component of choice on the topic "Research in Medicine". The mandatory requirement for mastering this elective is that the resident performs his own research with the subsequent registration of the research result in the form of an article and/or a report at the conference. Pedagogical competencies are developed by actively involving residents in the process of formal and non-formal education of undergraduate, internship and junior year students.

The responsibility for ensuring the quality of medical education rests with the relevant department, the DQCME, the department of the clinic, the SPE, the Deputy Chairperson of the Board for the AW and the SCR, the Chairperson of the Board – the Rector.

"Strategy for ensuring the quality of the educational process in the NJSC of the SMU" dated 23.11.2020 offers a system for assessing the quality of education and monitoring the educational process.

To regulate the mechanisms for assessing and monitoring the educational process, there are internal regulatory documents: Academic Policy/ Strategy for Ensuring the Quality of the Educational Process, Regulations on the Academic Committee, Job Descriptions of the teaching staff and Regulations on Residency.

*Conclusions of the EEC on the criteria. Compliant with 4 standards: fully - 4.*

*Standard 9: Implemented*

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

**6. Recommendations for improving the educational programme "A" Ophthalmology (adult, children's)":**

- 1) Provide residents with the opportunity to choose elective disciplines from the catalog of elective disciplines. To develop and approve the Catalog of elective disciplines in the specialty "Ophthalmology (adult, children's)" (2.4.2.);
- 2) The current elective disciplines "Management of scientific research" and "Biostatistics" should be removed from the Catalog of elective disciplines and included in the thematic plan of profile disciplines with a decrease in the number of hours/credits (2.4.2.);
- 3) Increase the use of simulation center resources to train residents in cardiopulmonary resuscitation, critical incident management, and teamwork (2.3.2.);
- 4) Document innovative teaching methods used in the educational process (6.6.2).

## 7. Recommendation to the ECAQA Accreditation Council

Members of the EEC came to a unanimous opinion to recommend to the Accreditation Council to accredit the educational programme «7R01147-Ophthalmology (adult, children's)» of the Non-Profit Joint Stock Company "Semey Medical University", corresponding to the Standards of accreditation of educational programmes of the residency of the medical organization of education for a period of 5 years

Chairperson of the External Expert Commission

Zhanalina Bakhyt Sekerbekovna

Foreign expert

Ripp Evgeny Germanovich

National Academic Expert

Zhumalina Akmaral Kanashevna

National Academic Expert

Turgunov Yermek Meiramovich

National Academic Expert

Dzhandaev Serik Zhakenovich

National Academic Expert

Urazova Saltanat Nurgozhayevna

National Academic Expert

Ligai Zoya Nikolaevna

National Academic Expert

Chingaeva Gulnar Nurtasovna,

National Academic Expert

Bozhbanbayeva Nishangul Seitbekovna

National Academic Expert

Beisembayev Askhat Ulzhan Tursunkulovna

National Academic Expert

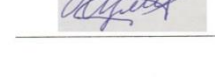
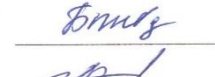
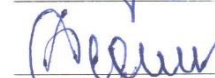
Doshakanova Assel Baidauletovna

Expert – employer representative

Tuleutaeva Gulnara Esenzhanovna

Expert – resident representative

Amina Timurovna Izmaeva

  
Print E.F.  
(optional)

**Quality profile and criteria for external evaluation of the educational programme  
(generalization)**

Standard	Evaluation Criteria	Number of standards	Estimation		
			Fully compliant	Partially compliant	Not compliant
1	MISSION AND END OUTCOMES	17	17		
2	EDUCATIONAL PROGRAMME	30	28	2	
3	ASSESSMENT OF STUDENTS	11	11		
4	STUDENTS	30	30		
5	FACULTY	7	7		
6	EDUCATIONAL RESOURCES	21	20	1	
7	PROGRAMME EVALUATION	15	15		
8	GOVERNANCE AND ADMINISTRATION	15	15		
9	CONTINUOUS RENEWAL	4	4		
	<b>Subtotal:</b>	<b>150</b>	<b>147</b>	<b>3</b>	
			<b>150</b>		